

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: ALL-PRO

Report Number: P167655

Luminaire Tested: **REV3XX50-90DEGREES**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P167655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33939)
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: ALL-PRO
Catalog Number: REV3XX50-90DEGREES
Description: R-EVOLVE WITH TRIPLE OPTICS.
(3) LEDS WITH OPTICS ORIENTED 90 DEGREES APART
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2399.8 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.25' x H: 0.04')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U2 - G1

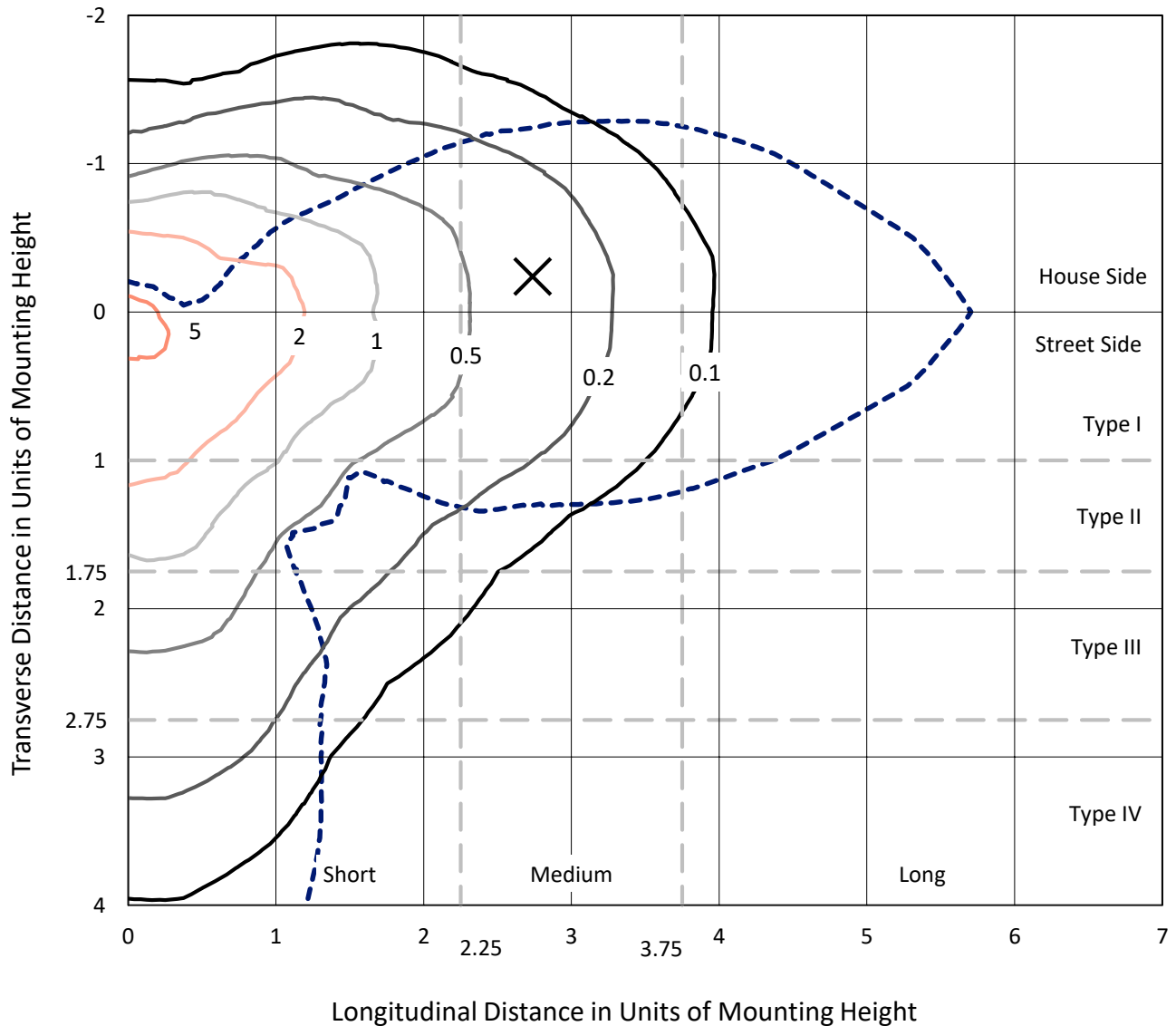
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P167655
 CATALOG NUMBER: REV3XX50-90DEGREES

Iso-Footcandle Lines of Horizontal Illumination

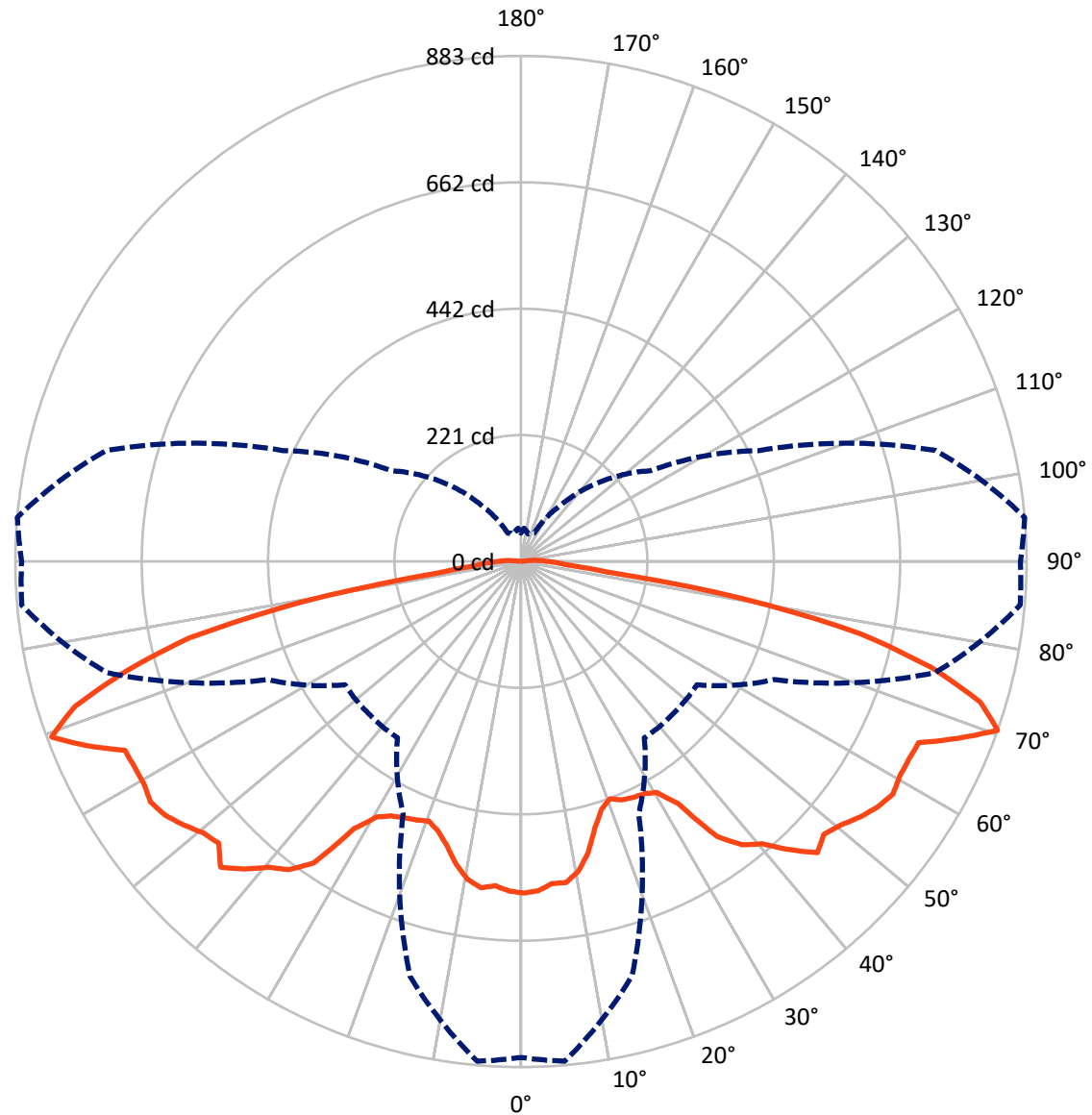
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P167655
CATALOG NUMBER: REV3XX50-90DEGREES

Luminous Intensity Polar Plot



— Vertical Plane Through 95-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

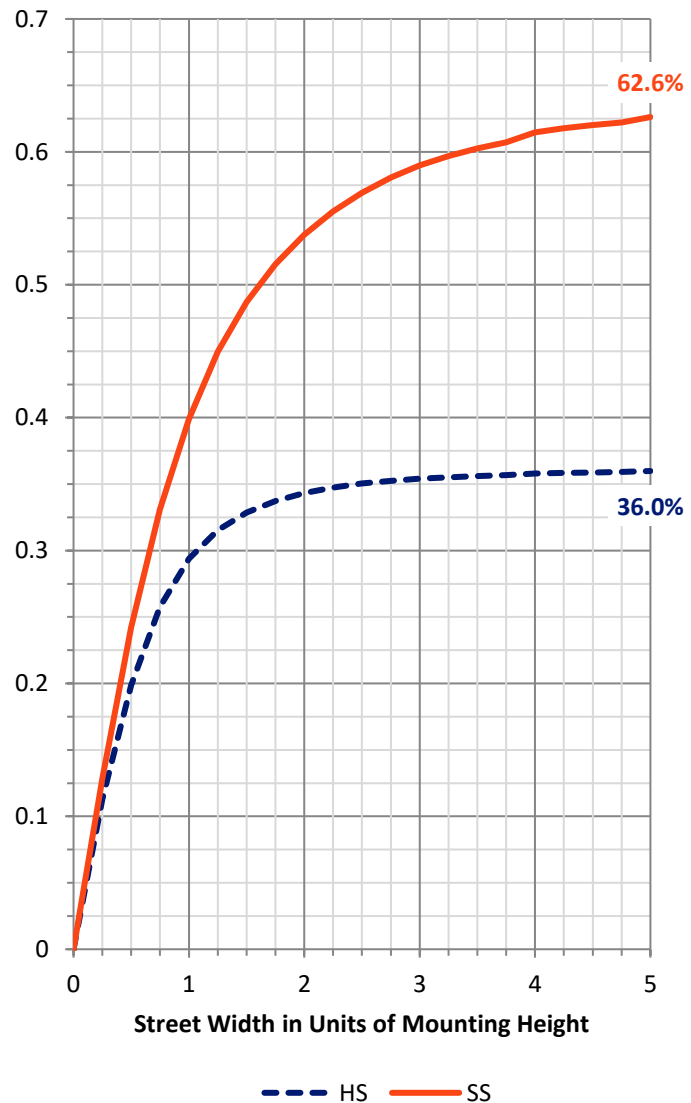
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.0	4.3	877.3
	% Fixture	36.4	0.2	36.6
Street Side	Lumens	1515.1	7.3	1522.4
	% Fixture	63.1	0.3	63.4
Total	Lumens	2388.1	11.6	2399.8
	% Fixture	99.5	0.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.2
10°-20°	143.0	6.0
20°-30°	212.7	8.9
30°-40°	299.7	12.5
40°-50°	387.4	16.1
50°-60°	433.6	18.1
60°-70°	455.1	19.0
70°-80°	340.5	14.2
80°-90°	62.7	2.6
90°-100°	11.6	0.5
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2388.1	99.5
0°-180°	2399.8	100.0



REPORT NUMBER: P167655

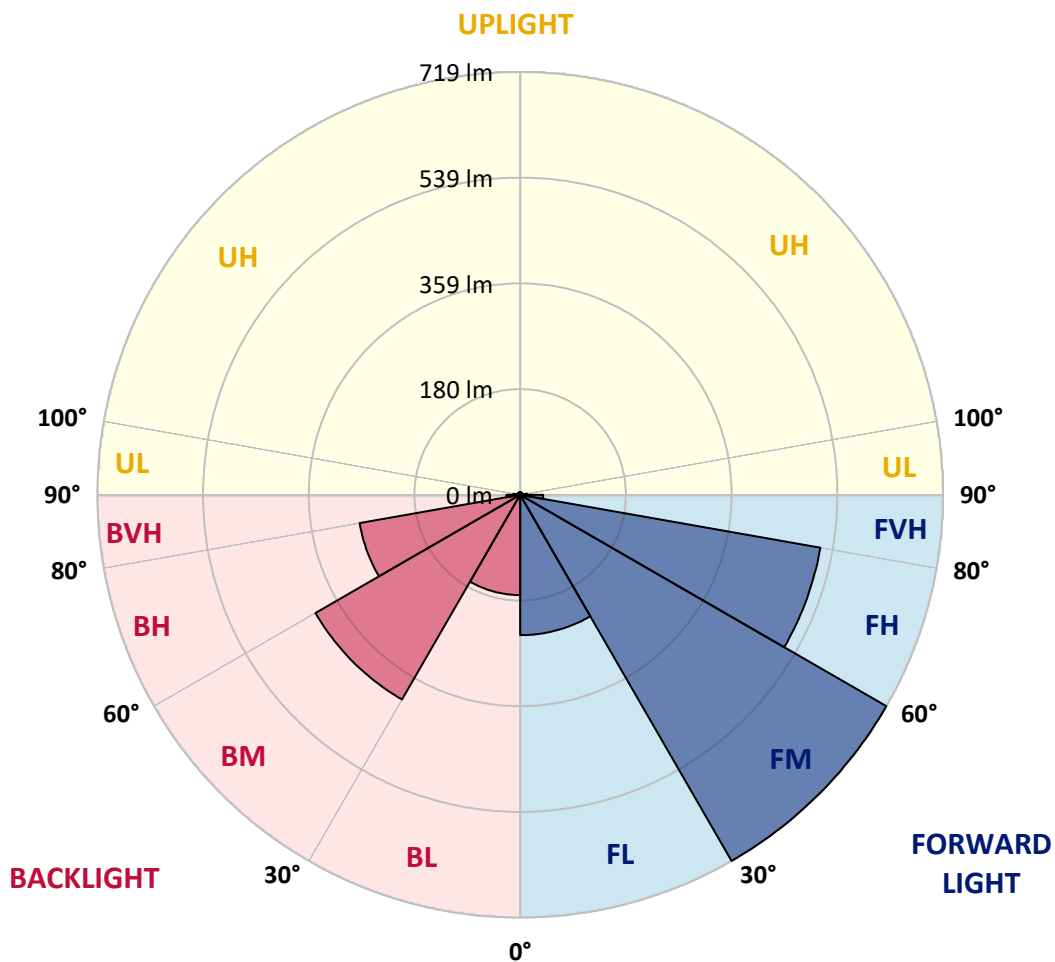
CATALOG NUMBER: REV3XX50-90DEGREES

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.6	9.9			
FM (30°-60°)	719.0	30.0			
FH (60°-80°)	518.4	21.6			G0/660
FVH (80°-90°)	39.2	1.6			G1/100
BL (0°-30°)	170.5	7.1	B1/500		
BM (30°-60°)	401.8	16.7	B1/1000		
BH (60°-80°)	277.3	11.6	B1/500		G1/500
BVH (80°-90°)	23.4	1.0			G1/100
UL (90°-100°)	11.6	0.5		U2/50	
UH (100°-180°)	4.3	0.2		U1/10	

BUG Rating: B1-U2-G1

Type II Short





REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
2.5°	594.8	592.8	591.8	589.8	586.4	581.9	585.4	587.9	585.9	582.9	582.9
5°	620.5	619.5	616.0	610.6	604.2	597.7	598.2	596.8	591.3	583.9	584.4
7.5°	643.2	642.2	637.3	630.4	623.9	615.5	613.1	610.6	602.7	593.8	593.8
10°	652.1	649.2	643.7	637.3	628.9	619.5	621.5	621.5	615.5	609.6	606.6
12.5°	639.3	640.2	635.3	630.3	626.4	622.4	627.4	631.3	628.9	625.4	619.5
15°	609.6	612.5	611.5	610.5	613.5	615.5	621.4	627.4	625.4	622.4	616.0
17.5°	568.0	570.0	576.9	583.8	590.8	597.7	604.1	609.6	609.1	607.6	601.6
20°	532.4	536.3	546.2	555.1	567.5	577.9	587.8	596.7	595.2	591.7	589.3
22.5°	525.4	530.4	535.8	539.3	551.7	564.0	574.4	583.8	585.8	586.8	585.3
25°	525.4	525.4	526.4	527.4	540.3	552.1	565.5	576.9	581.3	585.8	587.8
27.5°	527.4	523.4	523.4	522.4	531.8	541.2	557.6	573.9	581.3	586.8	590.3
30°	537.2	532.3	530.3	526.3	537.2	548.1	560.0	570.9	586.3	599.7	597.2
32.5°	568.8	564.9	555.0	545.1	552.6	559.0	568.9	578.8	591.7	603.6	602.6
35°	650.9	643.0	621.7	598.5	582.7	566.9	574.4	579.8	592.7	604.6	600.2
37.5°	681.5	667.7	639.5	610.3	602.0	592.6	586.2	578.9	597.7	616.5	603.6
40°	680.5	676.5	645.9	613.3	607.9	600.5	592.6	583.8	595.7	605.6	599.2
42.5°	683.4	699.2	678.0	655.8	629.6	602.5	597.6	592.7	591.7	589.7	594.2
45°	730.8	722.0	713.1	703.2	650.4	596.5	592.6	588.7	589.2	589.7	591.8
47.5°	715.0	696.2	700.7	704.2	659.7	614.3	595.6	574.8	582.3	589.7	584.8
50°	731.8	704.1	700.7	696.3	659.2	622.2	589.6	556.0	568.4	578.9	569.5
52.5°	738.7	722.9	715.0	706.1	658.7	611.3	569.3	527.3	544.2	560.1	545.3
55°	715.0	737.7	734.3	728.9	657.7	584.6	541.1	496.6	514.5	531.4	515.6
57.5°	703.1	750.6	744.2	735.8	647.8	558.8	514.4	469.9	482.3	494.7	483.9
60°	708.1	749.6	747.1	742.7	647.3	550.9	501.5	451.1	462.0	471.0	460.7
62.5°	698.2	751.6	751.1	749.6	649.8	549.9	489.1	427.4	439.8	452.2	441.4
65°	737.7	755.5	758.0	758.5	650.7	542.0	474.8	406.6	404.7	402.7	404.8
67.5°	809.9	811.9	788.7	764.4	645.8	525.2	460.4	394.7	391.8	388.9	391.9
70°	866.3	876.2	812.9	749.6	619.1	486.6	432.2	375.9	376.5	376.0	376.1
72.5°	829.7	835.7	756.5	676.4	548.9	419.3	368.9	318.5	325.5	331.5	324.6
75°	705.1	737.8	652.2	564.7	448.5	331.3	281.9	232.4	235.5	237.5	234.6
77.5°	621.0	604.2	510.8	416.4	330.3	242.3	196.8	151.3	135.0	117.8	134.6
80°	445.0	392.6	296.7	198.8	161.7	123.6	93.5	62.3	57.9	52.4	57.4
82.5°	176.0	147.4	125.6	102.9	89.5	74.2	60.8	45.5	42.0	36.6	41.1
85°	82.1	82.1	79.6	76.2	65.3	53.4	46.0	37.6	34.1	29.7	33.6
87.5°	65.3	61.3	54.9	48.5	44.0	38.6	35.1	30.7	29.2	25.7	28.2
90°	46.5	43.5	39.6	34.6	32.1	27.7	25.2	21.8	21.3	19.8	19.8
92.5°	31.6	31.6	29.2	26.7	25.2	21.8	19.8	16.8	15.3	13.9	14.8
95°	23.7	23.7	22.3	19.8	16.8	13.8	13.8	11.9	10.4	8.9	10.9
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
2.5°	581.9	577.5	571.0	573.5	575.0	576.0	576.0	573.0	576.0	575.5	574.0
5°	582.9	576.5	569.1	570.1	569.1	569.6	568.1	566.1	565.1	562.6	558.2
7.5°	592.8	585.9	578.0	578.5	577.0	575.5	574.0	568.1	566.1	558.7	551.3
10°	603.7	591.3	578.0	575.5	572.0	568.1	563.1	556.2	550.3	540.9	530.5
12.5°	611.6	595.3	577.9	569.0	559.2	550.3	541.4	529.5	521.6	509.7	497.8
15°	608.6	590.8	573.0	558.6	544.3	529.5	513.6	493.9	483.0	470.1	456.3
17.5°	593.7	578.9	563.1	548.2	532.4	512.6	492.9	470.1	455.3	442.4	429.6
20°	584.8	571.0	557.1	539.8	521.5	501.3	481.0	457.2	442.4	427.6	412.8
22.5°	582.8	572.5	561.1	541.3	520.6	504.2	486.9	467.2	452.3	433.0	412.8
25°	587.8	575.4	562.1	542.3	522.5	507.7	491.9	474.1	456.3	435.5	413.8
27.5°	592.7	577.9	561.1	546.3	529.5	514.7	498.8	482.0	459.3	437.0	413.8
30°	593.7	583.9	574.0	558.2	542.4	528.0	512.7	493.9	468.2	443.0	416.8
32.5°	600.7	592.8	584.9	574.0	562.2	556.3	550.3	530.6	503.9	468.3	432.6
35°	595.7	591.3	585.9	601.8	616.6	628.1	638.5	623.7	590.0	540.0	489.1
37.5°	589.8	601.2	610.6	621.1	630.5	653.3	674.1	667.2	627.7	568.8	509.9
40°	591.8	604.2	615.6	625.0	633.5	662.7	692.0	679.1	648.5	585.6	522.7
42.5°	597.7	606.7	615.6	646.8	677.1	700.4	722.7	696.0	688.1	633.6	580.2
45°	591.8	600.7	608.7	667.7	724.6	736.5	748.5	752.4	725.7	684.6	643.5
47.5°	577.9	601.3	624.6	675.1	725.6	724.2	721.7	740.6	711.9	687.1	661.4
50°	559.1	596.3	633.5	676.1	717.7	724.2	729.7	756.4	723.7	697.0	669.3
52.5°	529.5	576.1	621.6	674.2	726.7	737.1	747.5	761.4	741.6	716.8	692.1
55°	498.8	546.4	593.0	671.7	749.5	756.9	763.3	738.6	756.4	740.1	722.8
57.5°	472.1	520.6	569.2	661.8	754.4	763.8	771.3	722.8	766.3	752.0	735.6
60°	450.3	504.8	558.3	657.9	755.4	760.9	764.3	720.8	760.4	752.0	741.6
62.5°	428.6	493.0	555.4	657.4	759.4	762.4	764.3	708.9	760.4	753.9	746.5
65°	406.8	476.6	546.5	655.9	764.3	765.8	766.3	749.5	763.3	758.9	753.5
67.5°	394.9	461.3	526.7	648.0	768.3	797.0	823.7	825.7	823.7	793.5	761.4
70°	375.1	432.1	488.1	619.3	749.5	812.9	875.2	872.3	883.1	816.8	749.5
72.5°	317.7	368.3	418.8	542.1	664.3	742.1	818.8	827.7	838.6	758.4	677.2
75°	231.6	279.2	325.7	434.6	541.6	629.2	714.8	703.9	740.6	651.9	563.3
77.5°	150.5	190.1	228.7	310.4	392.1	494.0	595.0	622.8	605.9	509.4	413.8
80°	60.4	86.1	109.9	144.0	177.2	284.6	392.1	446.5	395.0	295.5	196.0
82.5°	43.6	53.9	63.4	75.7	87.1	117.3	147.5	179.2	150.5	125.7	101.0
85°	35.6	42.1	47.5	57.4	66.3	75.2	83.2	84.2	83.2	78.7	73.3
87.5°	28.7	32.2	34.6	40.6	44.5	54.5	62.4	67.3	62.4	55.4	46.5
90°	18.8	22.8	24.7	29.2	32.7	39.1	44.6	48.5	44.6	39.6	33.7
92.5°	14.8	16.3	17.8	22.3	24.8	28.7	31.7	31.7	31.7	29.7	26.7
95°	10.9	11.4	11.9	14.9	17.8	20.8	22.8	22.8	22.8	21.3	18.8
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P167655

CATALOG NUMBER: REV3XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
2.5°	571.1	567.1	569.1	569.1	569.6	569.1	567.6	565.1	561.7	557.2	560.2
5°	552.3	544.3	541.9	538.4	534.9	529.5	529.0	526.5	523.6	518.6	520.1
7.5°	541.9	530.5	523.6	515.7	506.3	495.9	493.4	489.9	486.0	482.0	486.5
10°	517.6	503.8	498.4	491.9	483.0	474.1	468.2	462.2	454.8	445.4	450.4
12.5°	487.0	475.1	471.1	466.2	461.8	455.3	446.9	437.5	428.1	417.7	419.2
15°	449.4	442.4	438.5	434.5	430.6	425.6	420.2	413.8	403.9	394.0	391.0
17.5°	421.7	412.8	407.3	400.9	399.4	396.0	392.5	388.1	383.1	377.2	374.7
20°	403.4	393.0	386.5	380.1	377.7	373.2	374.7	374.2	372.2	369.2	367.3
22.5°	400.9	388.0	378.1	367.3	364.3	360.3	363.8	366.3	362.3	357.4	352.4
25°	400.4	387.1	376.7	365.3	361.3	355.4	356.9	358.4	348.4	336.6	330.6
27.5°	400.9	386.1	378.2	368.3	361.8	354.4	350.4	344.5	329.1	313.8	307.3
30°	405.9	395.0	382.6	370.3	363.8	356.4	342.5	326.7	313.8	299.9	289.0
32.5°	417.3	401.0	385.1	369.3	359.9	349.5	336.1	321.7	305.9	290.0	272.2
35°	444.5	399.0	374.7	351.5	345.5	339.6	331.6	322.7	300.9	277.2	255.9
37.5°	466.3	421.8	379.2	336.6	338.6	339.6	330.2	320.8	295.5	269.3	242.5
40°	479.7	435.6	392.1	347.5	339.1	329.7	317.3	302.9	277.7	251.4	224.7
42.5°	513.8	446.5	404.9	363.3	341.6	318.8	303.4	287.1	258.4	229.7	200.9
45°	550.5	455.4	410.9	365.3	341.6	315.8	293.5	271.3	239.1	206.9	178.7
47.5°	574.7	488.1	426.2	364.3	339.6	312.9	282.7	252.5	219.8	185.1	156.4
50°	592.1	513.8	436.6	359.4	333.2	305.9	270.3	232.7	197.0	160.4	132.6
52.5°	605.9	519.8	433.7	348.5	322.3	295.0	253.0	209.9	174.2	138.6	112.8
55°	616.3	508.9	422.3	334.6	307.4	279.2	235.1	190.1	154.9	118.8	98.5
57.5°	616.8	498.0	412.9	327.7	294.0	259.4	214.8	170.3	137.6	104.9	86.1
60°	621.8	500.0	411.4	321.8	284.6	247.5	202.0	154.4	122.3	89.1	72.7
62.5°	625.7	504.9	404.4	304.0	271.3	236.6	191.6	146.5	113.4	79.2	65.3
65°	627.7	501.0	396.0	291.1	251.5	211.9	174.2	136.6	103.9	70.3	59.9
67.5°	624.2	486.1	385.6	286.1	245.5	204.9	167.3	129.7	98.0	65.3	57.9
70°	604.4	458.4	367.8	276.2	237.1	197.0	158.4	118.8	87.6	54.4	53.0
72.5°	540.1	402.0	322.8	243.6	208.4	173.3	132.7	91.1	65.3	39.6	45.0
75°	443.0	320.8	257.4	193.1	158.9	124.7	89.1	52.5	42.1	31.7	41.1
77.5°	324.2	234.6	185.1	134.6	99.5	63.4	45.5	26.7	30.2	33.7	40.6
80°	157.4	117.8	84.6	51.5	42.1	30.7	25.2	18.8	24.3	28.7	34.6
82.5°	85.6	69.3	53.9	37.6	31.2	22.8	20.3	15.8	19.8	21.8	26.7
85°	61.9	49.5	40.6	30.7	25.2	17.8	15.3	11.9	12.9	12.9	16.3
87.5°	42.1	35.6	30.7	24.7	21.3	15.8	14.4	10.9	10.9	9.9	11.4
90°	30.2	25.7	22.3	16.8	15.3	12.9	10.9	7.9	8.4	7.9	7.9
92.5°	24.3	19.8	16.8	13.9	10.9	6.9	5.9	5.0	5.9	5.9	6.4
95°	15.8	12.9	11.4	9.9	8.9	5.9	4.5	3.0	4.0	3.0	3.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P167655
 CATALOG NUMBER: REV3XX50-90DEGREES

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

NUMBER: P167655
 NUMBER: REV3XX50-90DEGREES

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
579.0	579.0	579.0	579.0
562.2	562.7	562.2	560.2
521.6	524.1	524.6	524.6
489.0	492.9	494.9	494.9
454.3	458.3	461.3	462.3
420.7	424.7	428.6	430.6
387.1	389.5	392.0	392.0
372.2	371.2	370.2	371.2
363.3	359.3	354.4	352.4
347.4	345.5	341.5	336.5
323.7	323.2	322.7	322.7
300.9	302.4	302.9	304.9
278.1	278.6	277.1	280.1
253.4	249.4	245.5	246.5
234.6	224.7	212.8	212.8
214.8	199.4	183.1	181.1
196.0	177.2	156.4	149.4
171.2	150.4	128.7	118.8
149.5	127.7	104.9	95.0
126.7	107.9	88.1	81.1
104.9	92.0	78.2	77.2
87.1	81.1	74.2	72.2
76.2	74.2	70.3	70.2
66.3	65.8	63.3	63.3
55.4	56.9	56.4	56.4
51.5	53.4	54.4	54.4
48.5	52.5	54.4	55.4
48.5	53.9	58.4	59.4
49.5	53.9	58.4	49.5
48.5	54.9	60.4	50.5
49.5	53.0	54.4	36.6
45.5	39.6	32.7	21.8
39.6	30.7	19.8	18.8
29.7	22.8	14.8	14.8
18.8	14.8	9.9	7.9
11.9	9.4	6.9	7.9
5.9	5.4	4.0	4.9
4.9	4.0	3.0	3.0
3.0	3.0	2.0	2.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION:

	165°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



'167655
REV3XX50-90DEGREES

TION (continued):

170°	175°	180°
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0

(END OF REPORT)