

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: P167650

Luminaire Tested: **REV2XX50-90DEGREES**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P167650
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: REV2XX50-90DEGREES
Description: R-EVOLVE WITH TWIN OPTICS.
(2) LEDS WITH OPTICS ORIENTED AT 90 DEGREES APART
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2150 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.25' x H: 0.04')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U2 - G1

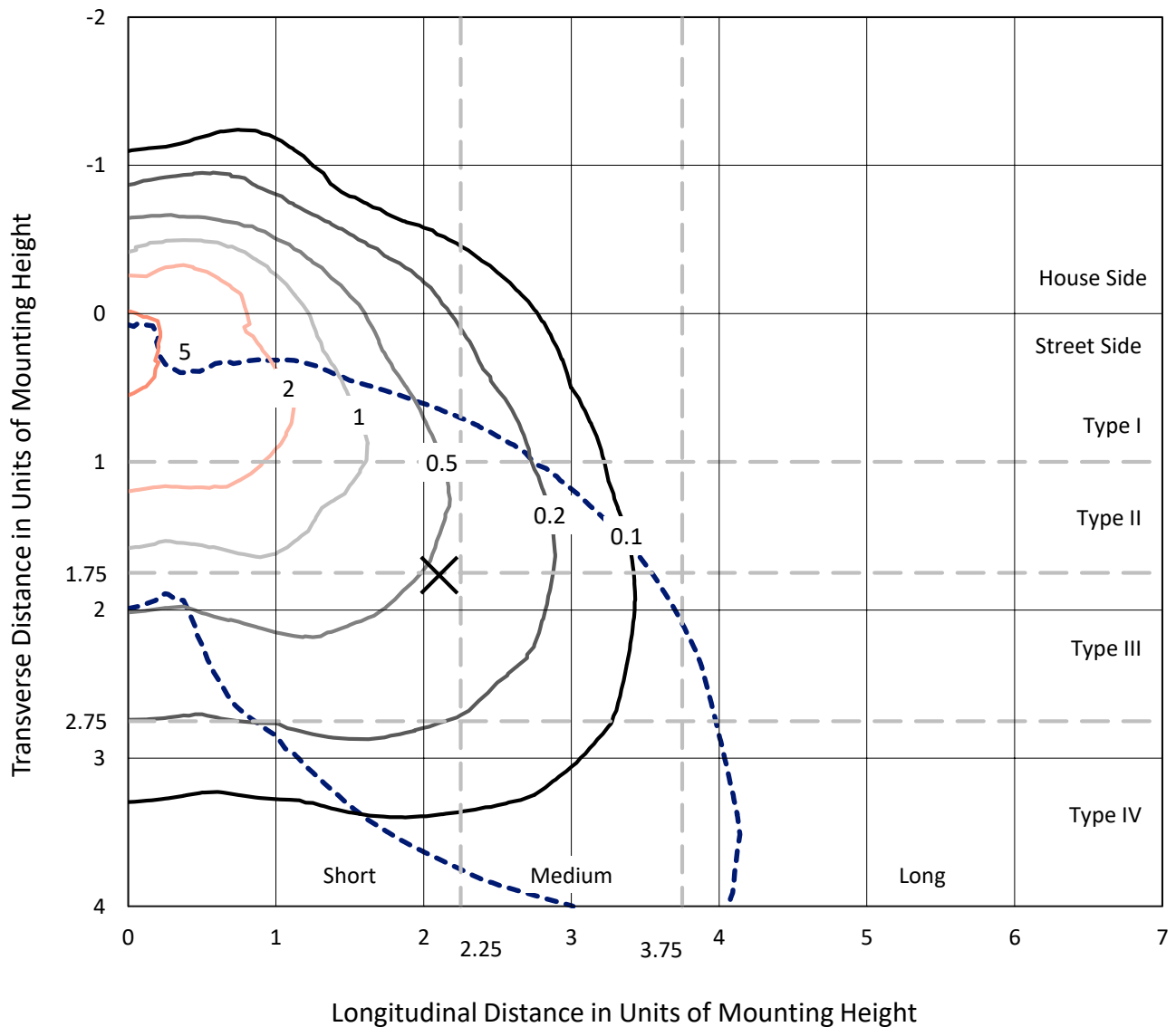
Input Watts (W): 26.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P167650
 CATALOG NUMBER: REV2XX50-90DEGREES

Iso-Footcandle Lines of Horizontal Illumination

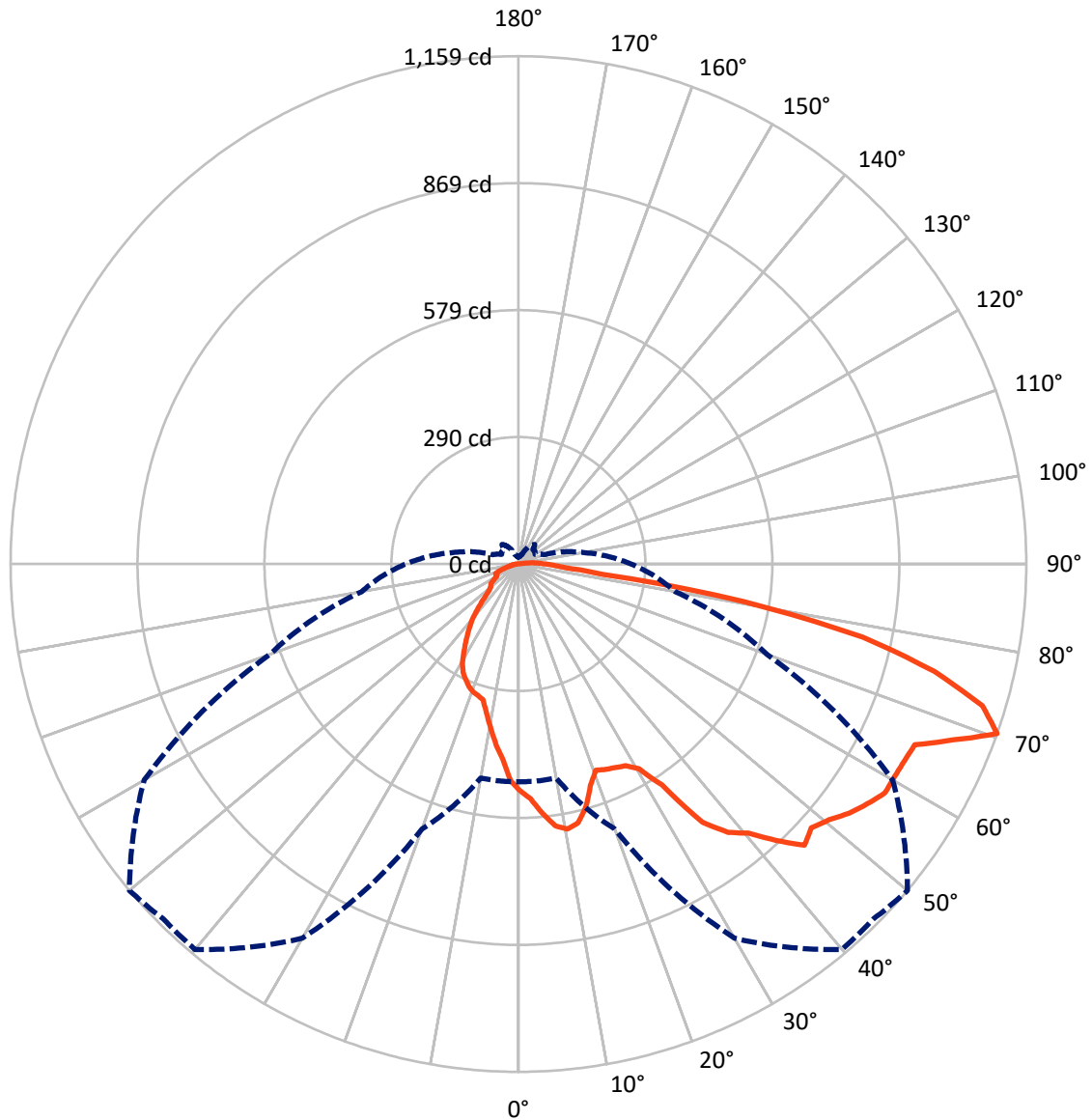
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P167650
CATALOG NUMBER: REV2XX50-90DEGREES

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

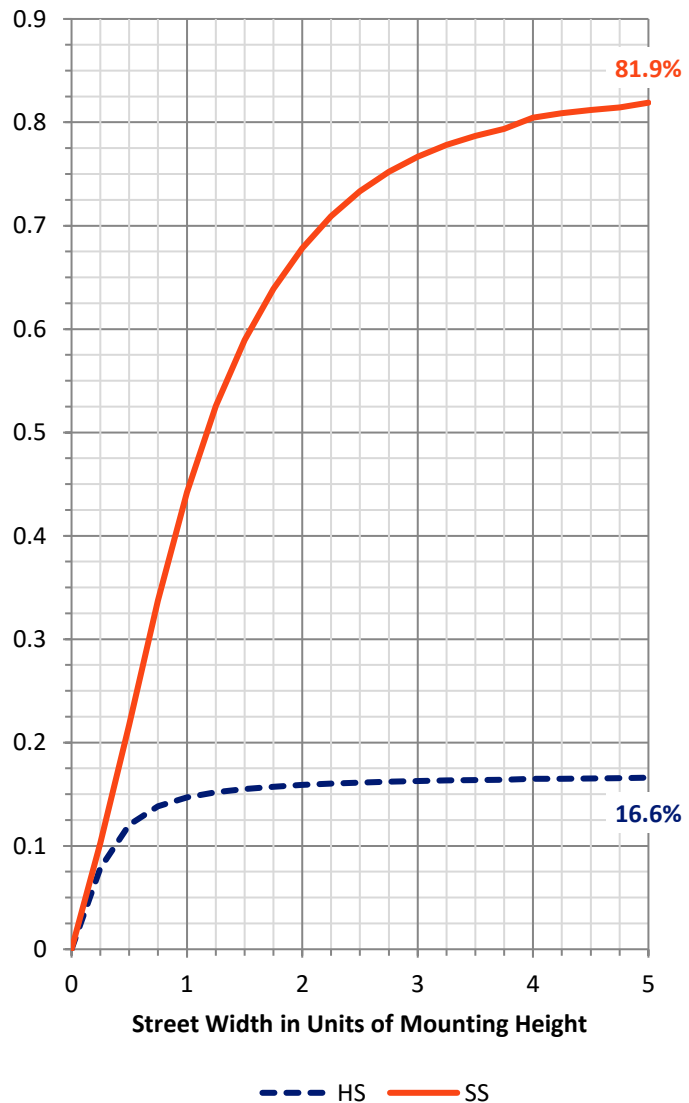
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.6	1.2	363.8
	% Fixture	16.9	0.1	16.9
Street Side	Lumens	1776.9	9.2	1786.1
	% Fixture	82.6	0.4	83.1
Total	Lumens	2139.5	10.5	2150.0
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	2.2
10°-20°	128.0	6.0
20°-30°	190.4	8.9
30°-40°	268.4	12.5
40°-50°	347.1	16.1
50°-60°	388.5	18.1
60°-70°	407.8	19.0
70°-80°	305.2	14.2
80°-90°	56.3	2.6
90°-100°	10.5	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°	2139.5	99.5
0°-180°	2150.0	100.0

Coefficient of Utilization



REPORT NUMBER: P167650

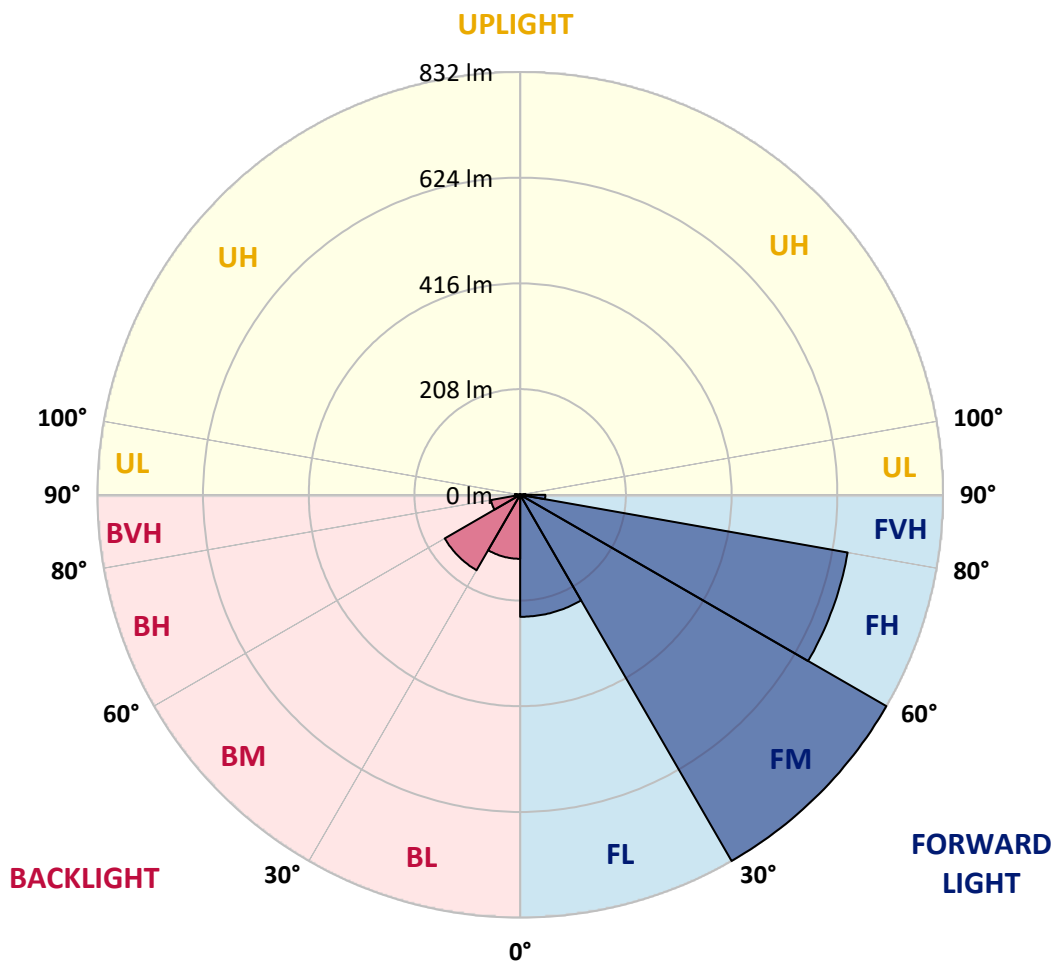
CATALOG NUMBER: REV2XX50-90DEGREES

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.2	11.2			
FM	(30°-60°)	832.5	38.7			
FH	(60°-80°)	654.7	30.5			G0/660
FVH	(80°-90°)	49.5	2.3			G1/100
BL	(0°-30°)	126.0	5.9	B1/500		
BM	(30°-60°)	171.5	8.0	B0/220		
BH	(60°-80°)	58.3	2.7	B0/110		G0/110
BVH	(80°-90°)	6.8	0.3			G0/10
UL	(90°-100°)	10.5	0.5		U2/50	
UH	(100°-180°)	1.2	0.1		U1/10	

BUG Rating: B1-U2-G1

Type IV Short





REPORT NUMBER: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	533.8	536.5	539.2	535.2	528.6	532.5	533.9	535.2	536.5	537.9	536.5
5°	571.0	576.4	579.0	575.1	568.4	571.1	572.5	575.1	575.1	573.8	571.1
7.5°	618.8	622.9	626.9	621.6	615.0	616.3	615.0	615.0	613.7	608.4	603.1
10°	666.6	668.0	669.4	658.8	646.9	645.6	641.6	637.6	632.3	625.7	615.1
12.5°	711.8	710.5	707.9	692.0	674.8	664.2	653.6	643.0	632.4	616.4	605.8
15°	733.0	730.4	726.5	707.9	689.3	673.4	656.2	636.3	616.4	591.2	575.3
17.5°	733.0	729.1	723.8	705.2	685.3	662.8	640.2	611.1	581.9	552.7	531.5
20°	725.1	723.8	719.8	697.2	674.7	646.8	616.3	585.8	554.0	523.5	502.3
22.5°	727.7	722.4	715.8	695.9	673.4	641.5	608.4	583.2	555.4	528.9	509.0
25°	730.4	725.1	718.5	697.3	673.4	641.6	609.8	585.9	562.1	538.2	514.4
27.5°	733.0	730.4	725.1	700.0	673.5	648.3	621.8	597.9	574.1	551.6	521.1
30°	754.3	743.7	730.5	712.0	693.4	669.6	645.7	624.6	602.1	576.9	542.4
32.5°	767.6	757.0	746.4	730.6	714.7	700.2	684.4	673.8	663.3	636.8	601.0
35°	778.2	765.0	750.4	741.2	729.4	746.8	764.2	777.7	788.4	767.3	723.5
37.5°	799.4	775.6	751.7	761.1	768.0	778.8	786.9	813.6	839.1	828.5	776.8
40°	788.8	775.6	761.0	771.8	781.3	789.5	794.9	831.0	865.7	847.2	807.4
42.5°	770.2	773.0	774.4	781.2	788.0	824.1	857.6	884.3	908.4	871.3	862.0
45°	772.9	773.0	771.8	777.3	782.8	854.8	924.2	935.0	945.7	949.8	915.3
47.5°	775.5	766.4	755.9	782.7	808.2	868.2	928.3	921.7	912.5	936.5	899.3
50°	762.3	749.1	733.4	778.8	822.9	872.3	920.4	924.5	925.9	960.5	917.9
52.5°	738.4	717.3	696.2	753.6	809.7	872.4	935.1	944.4	952.5	971.1	944.5
55°	701.2	678.8	656.4	715.1	773.9	871.1	967.1	972.4	975.1	940.5	965.8
57.5°	653.4	637.6	620.6	680.6	740.7	859.2	976.4	985.7	992.4	925.9	985.8
60°	621.5	608.4	594.0	662.1	730.1	859.2	985.7	989.7	991.1	932.6	985.8
62.5°	597.6	581.9	564.8	647.5	728.8	861.9	995.1	995.1	993.8	919.3	988.5
65°	531.2	534.0	536.9	628.9	719.5	863.3	1005.7	1003.1	997.8	972.5	993.8
67.5°	512.6	516.8	521.0	608.9	695.6	854.0	1011.0	1041.7	1070.9	1069.6	1070.9
70°	496.7	496.9	495.7	570.4	643.7	815.4	985.8	1066.9	1148.1	1145.4	1158.7
72.5°	438.2	429.1	420.0	486.7	553.3	715.7	876.7	979.1	1080.3	1092.2	1106.8
75°	313.4	309.6	305.8	368.4	431.0	574.7	717.1	832.8	945.9	931.2	980.4
77.5°	154.0	176.8	198.1	250.0	302.0	411.1	518.8	654.5	788.9	826.2	803.5
80°	66.4	73.1	78.4	111.7	143.6	188.9	231.5	375.2	517.5	590.7	521.5
82.5°	45.2	51.8	55.8	70.5	82.5	98.4	111.7	151.6	190.2	231.5	194.2
85°	37.2	42.5	46.5	55.8	62.5	74.5	86.5	97.1	106.4	107.8	106.4
87.5°	31.9	35.9	37.2	42.5	45.2	51.9	57.2	69.2	79.8	85.1	79.8
90°	23.9	25.2	25.3	29.3	31.9	38.6	42.6	50.5	57.2	61.2	57.2
92.5°	18.6	19.9	19.9	22.6	23.9	29.3	31.9	37.2	41.2	41.2	41.2
95°	10.6	13.3	14.6	16.0	16.0	20.0	23.9	27.9	30.6	30.6	30.6
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: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

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: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	535.2	532.6	528.6	523.3	523.3	521.9	519.3	515.3	512.6	508.7	503.3
5°	565.8	557.9	547.3	535.3	528.7	519.4	510.1	498.1	492.8	484.9	474.2
7.5°	592.5	580.5	567.3	551.4	538.1	523.5	506.2	487.6	477.0	465.0	450.4
10°	601.9	585.9	567.4	547.5	534.2	519.6	502.3	485.1	470.4	455.8	435.9
12.5°	588.6	571.4	554.1	536.9	525.0	513.0	499.8	483.8	466.5	447.9	425.3
15°	556.8	538.2	526.3	514.4	503.8	493.2	481.2	469.3	456.0	440.0	416.1
17.5°	516.9	502.4	493.1	483.8	475.9	465.3	458.7	449.4	438.8	426.8	408.2
20°	486.4	470.5	463.9	454.6	450.7	445.4	440.1	432.1	428.2	421.5	408.2
22.5°	487.8	463.9	453.3	441.4	434.8	426.8	425.5	424.2	425.5	424.2	410.8
25°	489.2	464.0	452.0	438.8	430.8	420.2	421.5	421.5	424.2	425.5	405.5
27.5°	494.5	466.7	453.4	438.9	432.2	424.2	424.2	421.5	420.2	417.5	393.5
30°	510.6	477.4	465.5	453.5	442.9	430.9	430.9	428.2	416.2	402.9	381.6
32.5°	555.9	510.7	490.8	468.2	452.2	436.3	432.3	426.9	414.9	401.6	377.6
35°	659.7	593.2	536.0	478.8	452.2	423.0	423.0	423.0	414.9	405.6	373.7
37.5°	702.3	625.2	570.6	514.8	464.2	412.3	420.3	428.3	417.6	405.6	371.0
40°	727.6	646.5	594.6	540.1	486.9	433.6	427.0	419.0	403.0	384.4	349.8
42.5°	795.5	727.7	645.2	561.4	510.8	460.3	433.6	407.0	387.1	364.4	325.8
45°	866.0	815.5	697.1	577.3	522.8	468.2	437.6	405.7	376.4	345.8	303.2
47.5°	871.4	842.1	734.3	625.2	548.1	469.6	437.7	404.4	364.5	323.2	278.0
50°	887.3	855.4	759.6	662.5	564.1	465.6	432.3	396.4	348.5	299.3	251.4
52.5°	916.6	888.7	780.9	673.2	564.1	453.6	419.0	383.1	327.2	270.0	222.1
55°	949.9	931.3	796.9	661.2	549.4	436.3	400.4	363.2	304.6	244.8	196.8
57.5°	969.8	951.2	798.2	645.2	536.1	427.0	383.1	337.9	278.0	218.1	174.2
60°	977.8	967.2	810.2	651.9	537.5	421.7	372.5	321.9	259.4	195.5	152.9
62.5°	984.5	977.8	819.5	661.2	530.8	397.8	353.9	308.6	248.8	187.6	142.3
65°	993.8	991.1	824.8	658.5	520.2	381.8	328.6	275.4	224.8	174.3	130.3
67.5°	1037.7	1001.8	822.2	641.2	509.5	375.2	320.6	266.1	215.5	164.9	121.0
70°	1072.2	985.8	795.5	604.0	484.2	363.2	311.3	256.7	203.5	150.3	107.7
72.5°	1000.4	893.9	713.0	530.8	425.7	320.6	274.0	226.2	170.3	114.4	78.5
75°	864.6	746.2	586.6	424.4	339.2	254.1	208.9	162.3	113.1	63.8	46.5
77.5°	677.1	548.0	429.6	309.9	243.4	176.9	130.4	81.1	55.9	30.6	26.6
80°	389.7	256.6	206.1	154.2	111.7	66.5	53.2	37.2	29.3	19.9	18.6
82.5°	162.3	130.3	111.7	90.4	70.5	47.9	38.6	26.6	22.6	16.0	14.6
85°	102.4	95.7	81.1	65.2	53.2	39.9	31.9	21.3	17.3	12.0	10.6
87.5°	70.5	59.8	54.5	46.5	39.9	31.9	26.6	18.6	16.0	10.6	9.3
90°	50.5	43.9	39.9	33.2	29.3	22.6	19.9	14.6	10.6	6.7	6.6
92.5°	38.6	34.6	31.9	26.6	22.6	18.6	14.6	9.3	6.7	4.0	4.0
95°	29.3	25.3	21.3	17.3	16.0	13.3	10.6	6.6	5.3	2.7	2.7
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: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

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: P167650

CATALOG NUMBER: REV2XX50-90DEGREES

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	495.4	496.7	496.7	496.7	495.4	491.4	495.4	496.7	495.4	492.7	490.1
5°	462.3	458.3	453.0	451.6	447.7	445.0	443.7	442.3	438.3	434.3	429.0
7.5°	435.8	431.8	425.2	421.2	415.8	409.2	405.2	398.5	390.6	382.6	371.9
10°	413.3	405.3	396.0	388.0	380.0	370.7	362.8	352.1	340.1	326.8	313.5
12.5°	400.1	386.8	372.2	360.2	348.2	336.3	321.6	305.6	289.7	276.4	261.7
15°	392.2	373.6	356.3	339.0	320.4	299.1	279.1	259.2	237.9	227.2	216.6
17.5°	389.6	373.6	356.3	335.0	313.7	288.4	263.1	240.5	217.9	203.3	187.3
20°	394.9	376.2	358.9	334.9	309.7	281.7	257.8	235.2	212.6	194.0	174.0
22.5°	396.2	373.5	350.9	326.9	301.6	275.0	255.1	231.1	205.9	184.6	163.3
25°	384.2	360.2	336.3	313.6	289.7	265.7	241.8	216.5	189.9	170.0	148.7
27.5°	368.2	346.9	324.3	301.7	277.7	252.4	224.5	197.9	168.6	151.4	132.7
30°	360.3	336.3	312.3	287.1	259.1	231.2	199.2	172.6	143.4	131.4	119.5
32.5°	353.6	323.0	292.4	263.2	233.9	203.3	171.3	144.7	118.1	112.8	106.2
35°	340.4	308.4	275.2	243.2	210.0	178.0	144.8	124.8	103.5	96.9	88.9
37.5°	333.7	293.8	255.2	221.9	187.3	155.4	124.8	110.2	92.9	86.3	79.6
40°	312.5	272.6	234.0	200.7	166.1	132.8	107.5	96.9	84.9	78.3	70.3
42.5°	287.2	246.0	206.0	174.1	140.8	111.5	94.2	84.9	75.6	67.7	59.7
45°	259.3	219.4	179.4	147.5	115.5	94.2	84.9	78.3	70.3	62.4	53.1
47.5°	231.4	191.4	151.5	123.5	94.3	83.6	80.9	73.0	65.0	57.1	47.8
50°	202.1	163.5	124.9	104.9	83.6	79.6	75.6	67.7	59.7	50.4	41.1
52.5°	174.2	138.2	102.3	91.6	79.6	74.3	71.7	63.7	55.7	46.4	37.2
55°	147.6	118.3	89.0	83.7	77.0	73.0	67.7	61.0	53.1	45.1	34.5
57.5°	130.3	102.3	75.7	73.0	67.7	65.0	61.0	57.1	50.4	42.5	34.5
60°	109.0	85.1	61.1	61.1	58.4	55.7	53.1	49.1	42.5	37.2	30.5
62.5°	95.7	75.8	55.8	55.8	55.8	53.1	50.4	45.1	38.5	33.2	27.9
65°	85.1	67.8	50.5	53.1	54.4	54.4	50.4	43.8	35.8	30.5	23.9
67.5°	77.1	62.5	47.8	53.1	57.1	59.7	57.1	49.1	38.5	31.9	22.6
70°	62.5	53.2	43.8	46.5	47.8	46.5	58.4	51.8	43.8	34.5	22.6
72.5°	42.5	37.2	31.9	35.9	37.2	43.8	63.8	57.1	49.2	35.9	19.9
75°	27.9	26.6	23.9	26.6	26.6	31.9	61.1	58.5	53.2	38.5	21.3
77.5°	21.3	21.3	19.9	19.9	19.9	19.9	34.6	42.5	49.2	39.9	29.3
80°	16.0	17.3	17.3	17.3	15.9	17.3	19.9	31.9	42.5	34.6	26.6
82.5°	12.0	13.3	13.3	13.3	11.9	14.6	15.9	23.9	31.9	26.6	19.9
85°	8.0	9.3	9.3	9.3	9.3	8.0	9.3	14.6	18.6	16.0	10.6
87.5°	6.6	8.0	8.0	8.0	6.6	8.0	6.6	9.3	10.6	10.6	8.0
90°	5.3	5.3	4.0	5.3	4.0	5.3	4.0	5.3	5.3	6.6	6.6
92.5°	2.7	4.0	2.7	2.7	2.7	2.7	2.7	4.0	5.3	6.6	5.3
95°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7	2.7
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: P167650
 CATALOG NUMBER: REV2XX50-90DEGREES

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: P167650
 NUMBER: REV2XX50-90DEGREES

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
517.9	517.9	517.9	517.9
491.4	491.4	495.3	496.7
427.7	425.0	426.3	425.0
366.6	361.3	359.9	355.9
310.8	305.5	304.1	302.8
257.7	252.4	255.0	255.0
211.2	205.9	205.9	204.5
178.0	167.4	167.3	164.7
160.7	146.1	143.4	138.1
148.7	134.1	127.5	119.5
138.1	126.1	119.5	111.6
124.8	115.5	112.9	108.9
111.5	102.2	102.2	100.9
98.2	90.2	88.9	85.0
83.6	77.0	71.7	66.4
73.0	65.0	61.1	55.8
63.7	55.8	53.1	47.8
54.4	49.1	46.5	42.5
47.8	41.2	39.8	37.2
42.5	35.8	34.5	31.9
35.8	30.5	30.5	29.2
31.9	26.6	27.9	26.6
30.5	23.9	25.2	23.9
29.2	23.9	22.6	21.2
27.9	22.6	22.6	21.2
25.2	19.9	19.9	18.6
21.2	18.6	18.6	18.6
21.2	18.6	18.6	18.6
21.2	17.3	17.3	15.9
17.3	14.6	14.6	13.3
17.3	12.0	12.0	10.6
19.9	9.3	9.3	8.0
18.6	8.0	9.3	8.0
14.6	8.0	9.3	8.0
8.0	5.3	6.6	5.3
6.6	5.3	6.6	5.3
6.6	4.0	5.3	5.3
4.0	2.7	1.3	0.0
2.7	1.3	2.7	2.7
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

