

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: STREETWORKS

Report Number: P198530

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL2-7030-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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: 28.75 FT

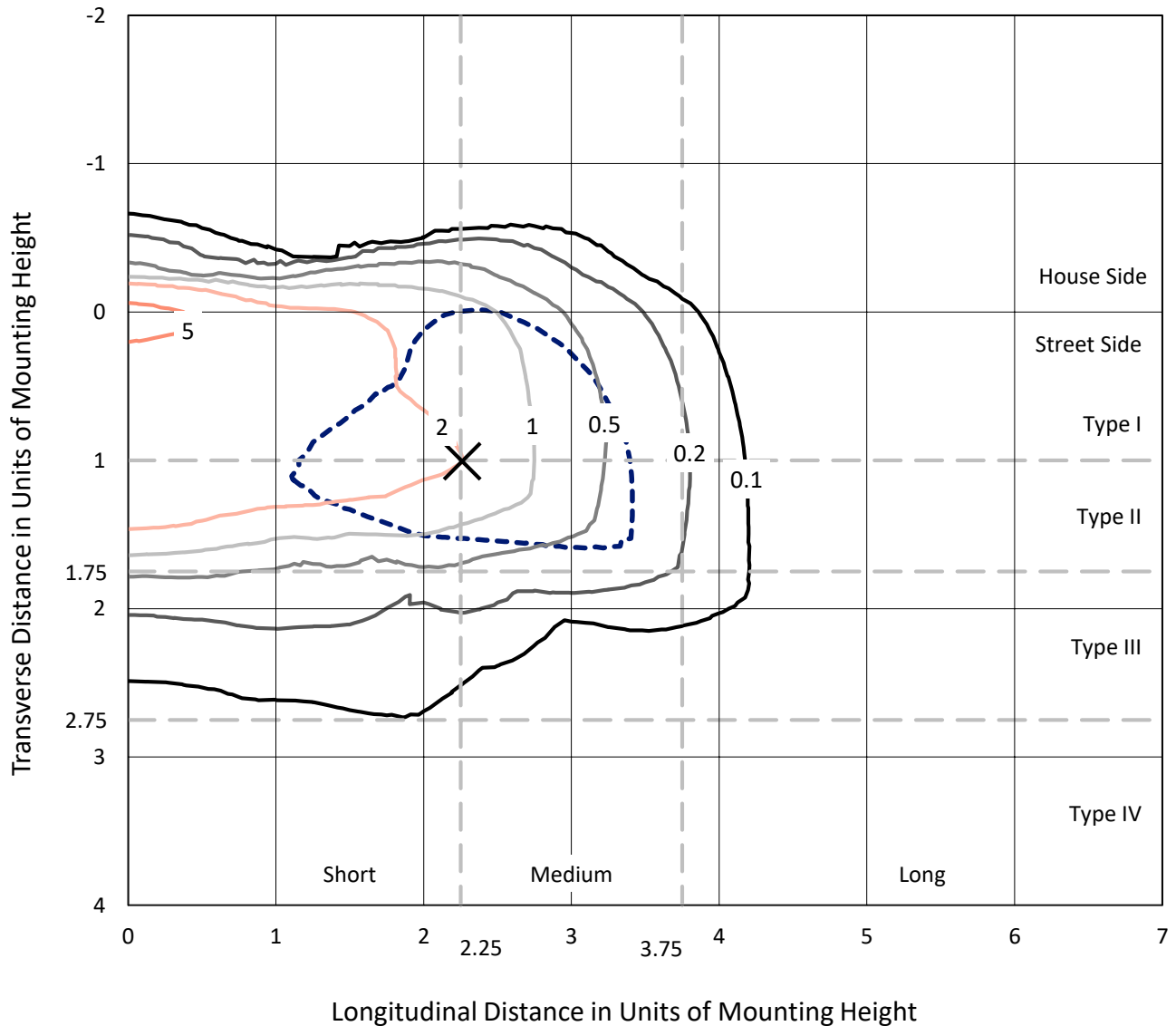


REPORT NUMBER: P198530

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

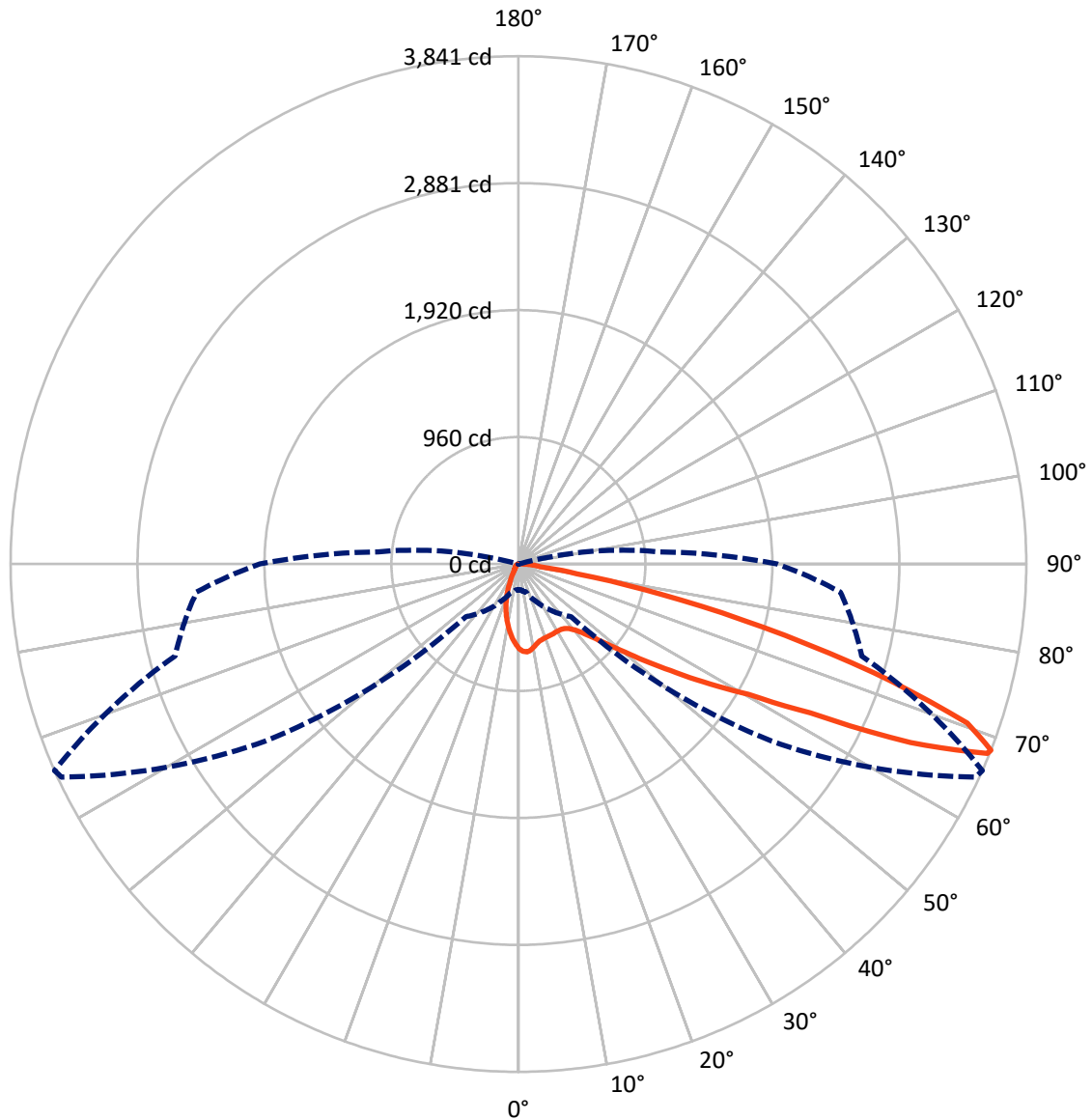


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198530

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P198530

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7030-600-HSS

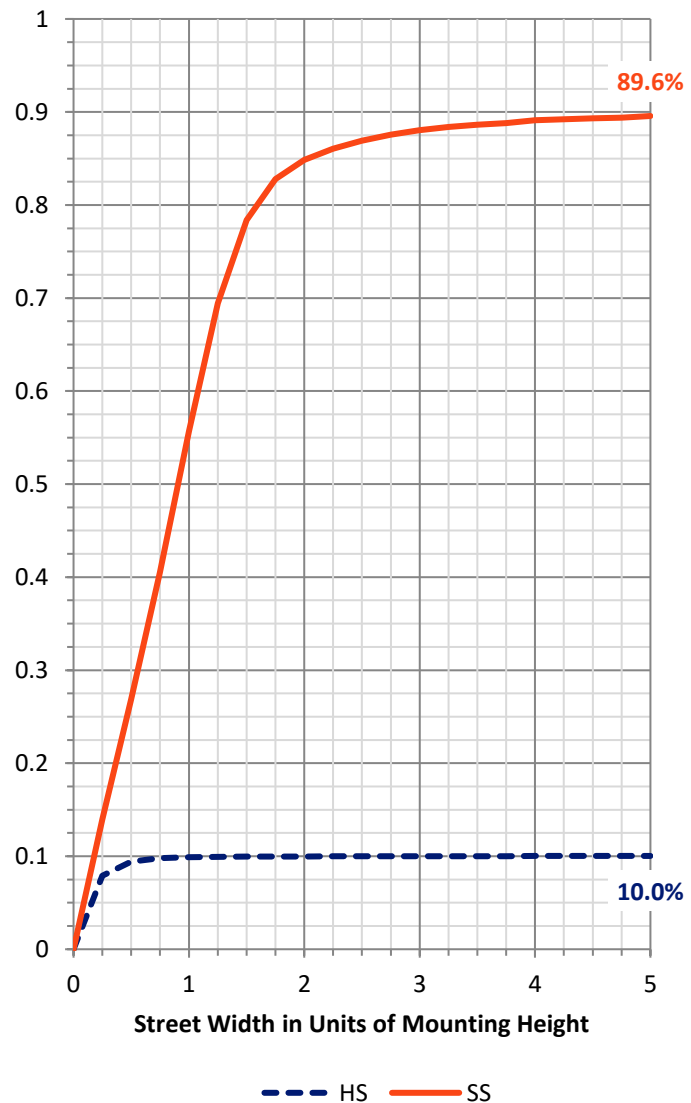
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	291.4	0.0	291.4
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	2585.6	0.0	2585.6
	% Fixture	89.9	0.0	89.9
Total	Lumens	2877.0	0.0	2877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.8
10°-20°	113.1	3.9
20°-30°	163.8	5.7
30°-40°	250.8	8.7
40°-50°	429.0	14.9
50°-60°	671.0	23.3
60°-70°	772.7	26.9
70°-80°	386.7	13.4
80°-90°	37.4	1.3
90°-100°	0.0	0.0
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°	2877.0	100.0
0°-180°	2877.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198530

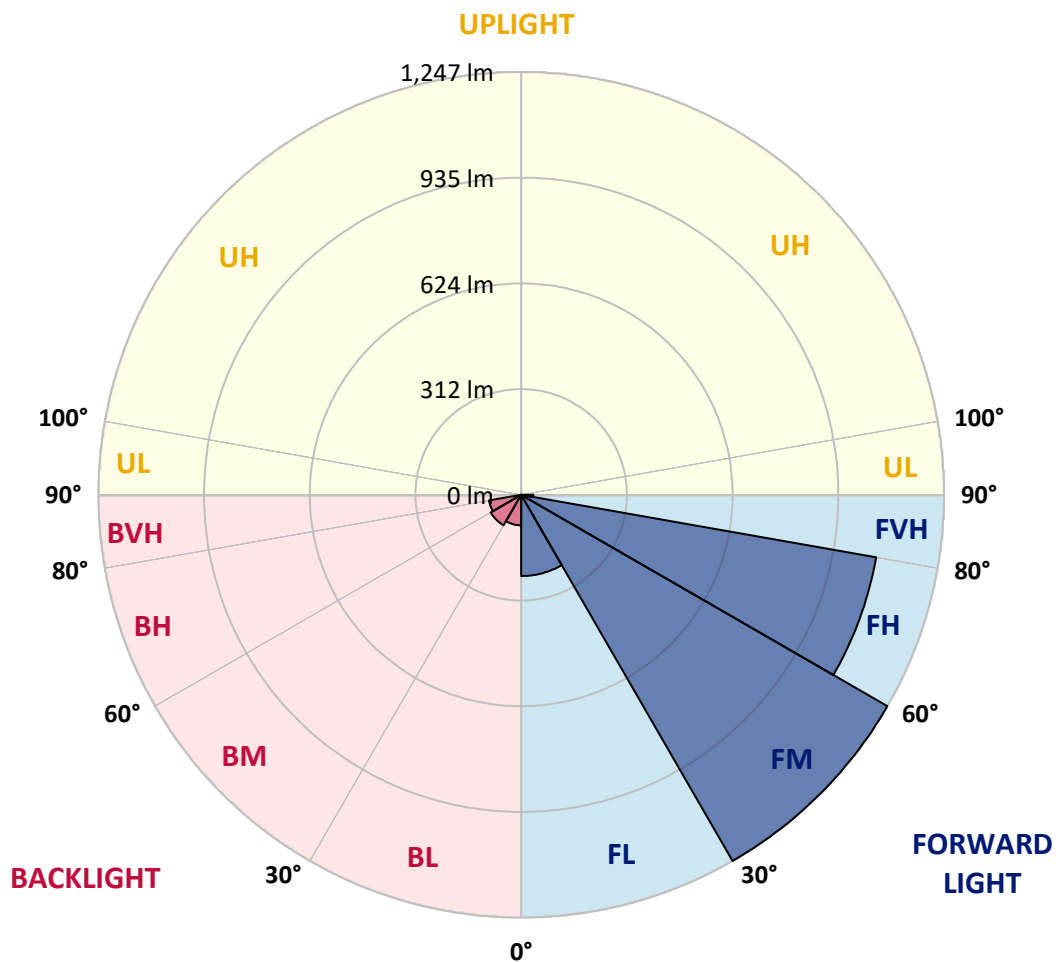
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.5	8.3			
FM (30°-60°)	1247.0	43.3			
FH (60°-80°)	1063.0	36.9			G1/1800
FVH (80°-90°)	36.0	1.3			G1/100
BL (0°-30°)	89.9	3.1	B0/110		
BM (30°-60°)	103.8	3.6	B0/220		
BH (60°-80°)	96.3	3.3	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





REPORT NUMBER: P198530

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
2.5°	674.2	674.6	674.4	675.1	674.6	671.2	667.6	659.9	660.6	650.7	639.6
5°	626.7	630.6	634.4	638.3	647.5	655.6	665.4	667.6	667.6	659.0	642.8
7.5°	578.4	578.6	582.9	588.1	600.5	615.4	638.0	658.4	658.8	661.1	643.2
10°	542.0	543.2	546.1	551.8	564.2	578.9	604.2	636.0	638.5	655.2	638.7
12.5°	513.8	515.2	518.3	524.9	536.2	551.3	578.0	614.3	617.7	649.6	637.4
15°	492.1	493.9	496.4	503.0	515.2	531.2	560.3	599.9	603.9	647.3	641.6
17.5°	483.1	483.1	482.9	487.4	499.6	515.8	546.3	592.2	597.4	649.1	648.9
20°	486.9	486.3	481.5	480.4	487.8	504.1	535.3	587.2	593.1	652.5	657.7
22.5°	507.3	505.9	495.3	486.5	484.2	495.1	527.8	583.8	590.8	659.5	669.4
25°	550.4	546.3	531.7	511.8	493.9	492.8	522.6	582.0	589.5	667.6	682.3
27.5°	606.4	605.3	581.8	555.1	520.8	500.3	521.0	580.7	588.1	673.5	692.7
30°	676.0	676.4	649.3	614.5	562.6	521.3	526.0	580.0	587.7	673.9	697.2
32.5°	747.8	748.2	725.7	688.4	619.7	557.4	540.0	583.2	590.2	672.1	697.0
35°	816.9	817.6	804.0	774.0	696.1	607.5	566.4	594.0	599.0	673.3	696.5
37.5°	904.3	907.0	890.3	862.3	791.8	681.2	609.6	615.9	620.0	682.5	699.9
40°	1053.4	1049.8	1001.9	954.5	895.7	770.8	671.9	653.6	655.0	706.5	712.8
42.5°	1227.1	1222.5	1140.6	1058.8	1002.6	879.0	751.6	711.4	711.2	746.7	740.8
45°	1376.6	1373.9	1287.6	1178.5	1120.9	998.5	849.9	794.8	792.1	816.2	791.8
47.5°	1482.7	1480.5	1415.2	1305.9	1257.8	1129.9	972.5	908.4	902.7	907.2	874.7
50°	1493.1	1490.6	1467.8	1397.6	1417.7	1322.8	1124.1	1057.2	1050.0	1043.0	1000.1
52.5°	1396.0	1395.8	1407.7	1403.2	1529.7	1571.0	1309.9	1241.3	1232.7	1214.9	1172.2
55°	1197.5	1196.3	1241.7	1307.7	1527.2	1827.1	1593.4	1460.4	1449.1	1413.4	1357.4
57.5°	875.0	869.1	963.9	1103.7	1419.9	1939.2	2043.5	1732.5	1713.8	1600.6	1514.3
60°	483.1	485.4	607.3	772.9	1165.8	1917.0	2457.7	2049.8	2000.6	1762.1	1675.1
62.5°	270.8	276.4	367.2	502.3	743.3	1737.5	2680.0	2595.9	2477.4	1950.5	1878.4
65°	204.8	208.2	253.9	387.6	468.6	1214.2	2715.4	3359.6	3257.2	2235.9	2202.1
67.5°	192.9	195.6	217.9	321.4	426.9	629.7	2448.5	3811.3	3824.1	2625.3	2452.8
68°	194.2	197.6	220.0	309.2	426.2	563.3	2334.6	3813.5	3840.8	2688.1	2444.2
70°	178.4	179.3	232.6	303.3	413.1	443.8	1688.9	3552.2	3601.2	2762.8	2218.8
72.5°	68.2	68.4	104.3	262.7	432.7	446.3	850.8	2807.6	2810.1	2404.4	1729.8
75°	35.5	29.8	32.7	82.2	413.3	435.0	426.9	1917.0	1905.1	1626.1	1059.9
77.5°	24.4	20.8	21.9	28.5	171.9	434.8	308.3	1102.4	1099.9	691.8	302.4
80°	13.8	12.0	13.1	23.9	60.3	408.1	287.3	473.8	446.5	121.5	49.0
82.5°	7.0	5.9	7.0	20.1	37.5	256.8	279.4	185.9	165.5	28.9	31.8
85°	1.8	1.8	3.4	14.0	23.3	84.2	250.5	134.2	120.6	12.6	22.6
87.5°	0.5	0.2	1.4	5.2	8.4	18.3	138.9	74.8	64.4	6.5	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198530

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
2.5°	635.1	628.8	616.4	602.3	592.4	581.6	575.2	567.6	561.7	556.5	560.3
5°	632.8	620.6	593.1	562.1	536.2	511.3	492.8	475.2	461.9	453.5	456.9
7.5°	627.0	608.9	564.2	515.8	473.4	433.4	400.9	371.8	349.2	337.0	340.8
10°	617.0	591.5	531.4	464.4	405.0	348.5	300.2	256.8	224.0	208.7	212.3
12.5°	609.8	576.1	497.6	414.7	336.5	256.3	192.2	142.5	117.0	101.6	103.0
15°	606.6	564.2	465.9	362.3	261.8	164.6	103.9	75.2	66.4	63.2	63.5
17.5°	607.1	554.7	435.9	307.8	186.3	94.6	63.7	57.4	56.0	55.3	55.3
20°	608.2	545.2	404.7	251.1	119.2	61.0	53.1	51.0	50.4	49.5	49.7
22.5°	611.6	538.0	373.3	194.2	73.4	49.7	47.0	45.2	44.0	42.7	42.9
25°	616.8	532.6	342.4	139.8	51.7	43.4	40.9	38.4	36.4	34.8	35.0
27.5°	620.0	524.9	309.4	95.3	42.9	37.9	34.6	31.2	28.9	27.6	27.3
30°	617.7	512.5	271.9	62.6	37.9	32.7	28.7	24.8	22.6	21.5	21.5
32.5°	611.6	496.4	230.6	45.6	33.7	28.2	23.3	19.9	18.3	17.6	17.8
35°	604.6	479.7	186.6	38.6	30.3	23.9	19.0	16.3	15.6	15.4	15.4
37.5°	600.8	465.3	144.3	35.0	27.1	19.9	15.6	14.0	13.3	13.3	13.3
40°	605.1	454.2	106.8	32.3	23.9	16.5	13.1	12.0	11.7	11.7	11.7
42.5°	623.4	450.3	78.1	30.0	20.8	13.8	11.3	10.4	10.2	10.4	10.4
45°	659.0	458.7	59.2	27.8	17.8	11.3	9.7	9.0	9.0	9.3	9.3
47.5°	719.6	480.2	48.6	25.5	14.9	9.5	8.4	7.9	7.9	8.1	8.1
50°	813.5	519.9	43.6	23.0	12.4	8.1	7.0	6.8	6.8	7.0	7.2
52.5°	956.3	595.6	41.1	20.6	10.2	6.8	5.9	5.6	5.9	6.1	6.1
55°	1115.0	692.5	38.2	18.1	8.6	5.6	4.7	4.7	5.0	5.4	5.4
57.5°	1263.0	786.0	35.5	14.9	7.5	4.5	3.8	3.8	4.3	4.7	4.7
60°	1419.3	877.7	31.8	12.0	6.3	3.6	3.2	3.2	3.8	4.3	4.5
62.5°	1612.4	984.3	27.1	9.5	5.0	2.7	2.3	2.9	3.6	4.3	4.3
65°	1891.5	1116.8	21.2	7.5	3.8	2.0	1.8	2.7	3.4	4.1	4.3
67.5°	1992.9	1099.9	16.0	6.1	2.9	1.6	1.6	2.5	3.4	4.1	4.1
68°	1955.9	1062.9	15.4	5.9	2.7	1.6	1.6	2.5	3.4	4.1	4.1
70°	1704.3	868.9	12.6	4.5	2.3	1.4	1.4	2.3	3.4	3.8	4.1
72.5°	1276.1	577.3	10.8	2.9	2.0	1.4	1.1	2.3	3.2	3.8	3.8
75°	732.0	239.6	9.3	2.3	1.8	1.1	1.1	2.0	3.2	3.8	3.8
77.5°	206.9	56.0	7.5	1.8	1.6	1.1	0.9	2.0	2.9	3.6	3.6
80°	37.9	16.7	5.9	1.6	1.4	1.1	0.9	2.0	2.9	3.6	3.6
82.5°	25.1	7.9	4.3	1.6	1.4	1.1	0.9	1.8	2.7	3.4	3.4
85°	18.7	5.6	2.7	1.6	1.4	1.1	0.9	1.8	2.7	3.4	3.4
87.5°	10.4	2.5	2.0	1.8	1.6	1.1	0.9	1.6	2.5	3.2	3.2
90°	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)