

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: McGRAW-EDISON

Report Number: P299636

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL2-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.3 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

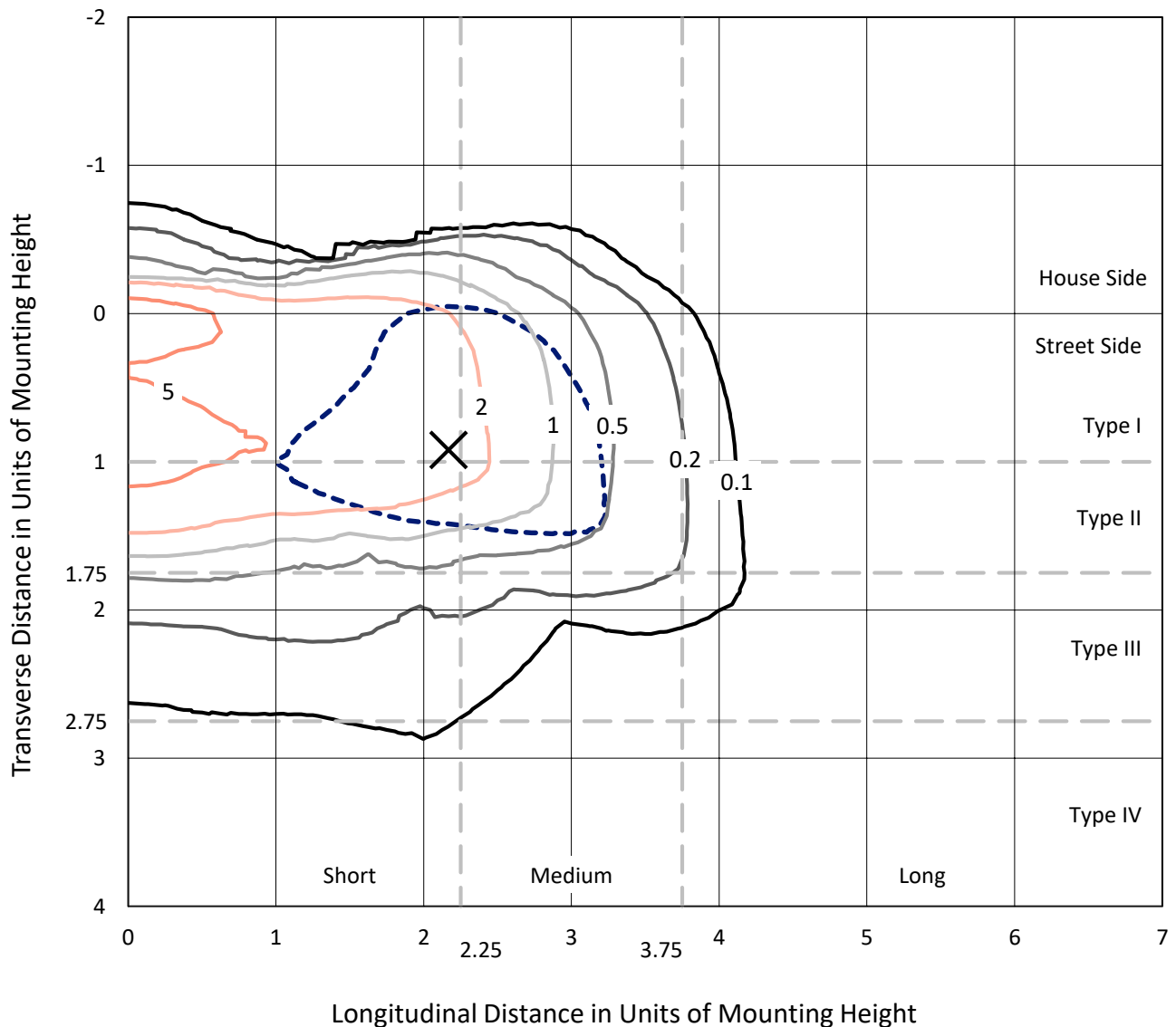


REPORT NUMBER: P299636

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL2-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

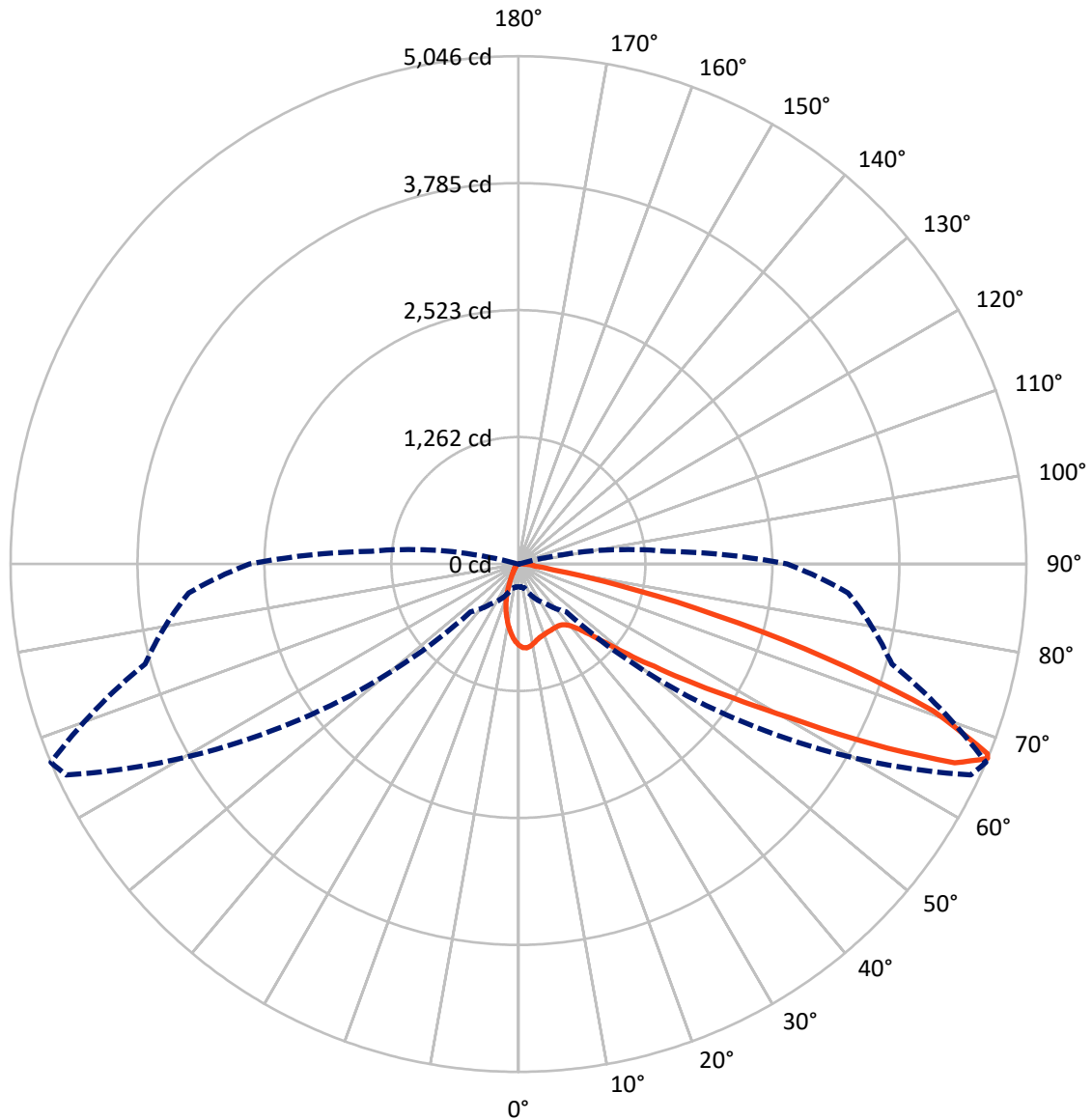


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299636

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL2-7030-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P299636

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL2-7030-800-HSS

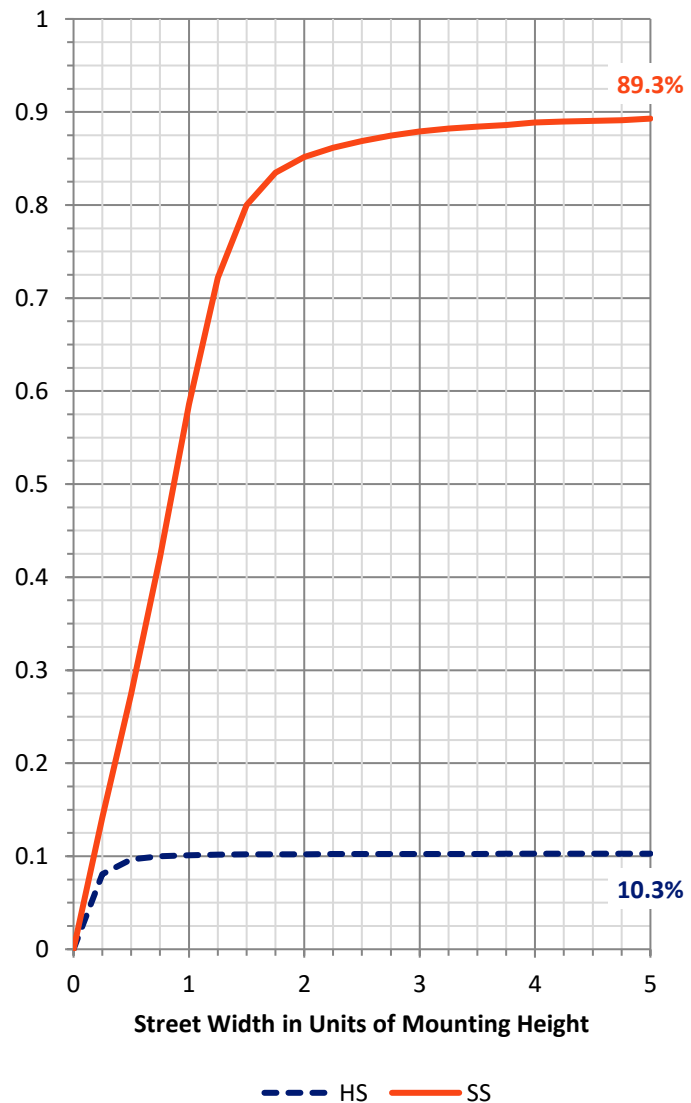
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	380.5	0.0	380.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3283.8	0.0	3283.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	3664.3	0.0	3664.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.8
10°-20°	140.0	3.8
20°-30°	203.5	5.6
30°-40°	317.4	8.7
40°-50°	562.3	15.3
50°-60°	889.8	24.3
60°-70°	1019.2	27.8
70°-80°	422.7	11.5
80°-90°	43.7	1.2
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°	3664.3	100.0
0°-180°	3664.3	100.0



REPORT NUMBER: P299636

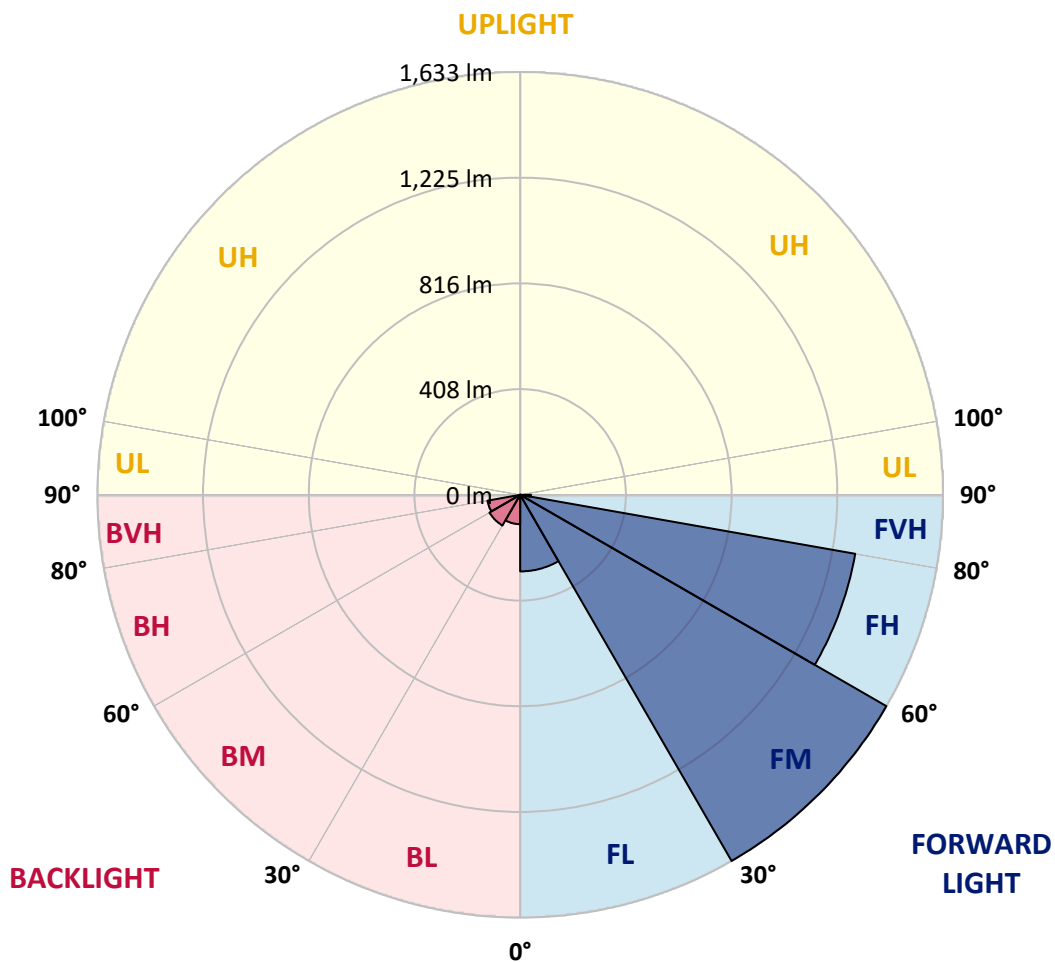
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.7	8.1			
FM (30°-60°)	1632.8	44.6			
FH (60°-80°)	1313.7	35.9			G1/1800
FVH (80°-90°)	41.7	1.1			G1/100
BL (0°-30°)	113.5	3.1	B1/500		
BM (30°-60°)	136.7	3.7	B0/220		
BH (60°-80°)	128.2	3.5	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P299636

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	835.5	837.2	837.0	838.2	841.2	841.5	838.5	832.7	831.4	823.9	810.9
5°	770.5	775.4	778.4	790.6	804.3	820.7	833.1	837.6	837.0	831.6	812.0
7.5°	696.3	701.2	704.7	719.0	737.2	765.4	797.6	824.1	826.5	832.3	811.1
10°	647.0	647.8	652.5	666.2	685.2	714.1	752.5	798.9	806.0	827.1	809.0
12.5°	606.4	607.0	613.2	627.9	648.2	677.3	717.7	771.4	782.3	820.7	808.5
15°	577.5	579.8	585.4	600.8	622.4	651.2	692.7	751.0	764.1	818.4	812.4
17.5°	567.9	570.4	572.2	583.3	602.9	631.1	673.7	737.8	752.5	819.7	819.9
20°	577.9	579.8	576.0	578.8	591.0	616.2	657.6	726.5	744.0	821.2	829.5
22.5°	615.3	616.2	605.7	593.5	591.4	605.3	645.0	717.5	736.3	825.2	840.8
25°	679.4	678.0	660.9	634.6	609.8	603.4	637.6	711.9	732.5	829.5	852.6
27.5°	756.8	759.0	735.4	697.2	650.0	616.2	636.5	709.6	730.7	832.5	862.8
30°	850.9	853.9	826.9	778.8	711.1	647.8	646.3	709.2	729.7	830.6	863.7
32.5°	946.8	950.5	929.3	879.7	792.7	700.8	668.5	713.9	731.8	823.9	858.8
35°	1047.3	1052.4	1038.3	995.8	903.4	777.3	707.7	728.2	741.9	823.3	853.9
37.5°	1186.0	1190.7	1164.2	1119.1	1037.4	879.9	770.5	755.1	765.6	833.5	855.1
40°	1393.1	1392.5	1324.1	1255.0	1184.7	1010.3	858.8	803.8	809.2	864.5	871.0
42.5°	1618.8	1617.7	1516.6	1411.7	1348.2	1170.8	974.8	888.0	884.4	921.6	912.0
45°	1792.8	1792.6	1710.1	1591.9	1545.1	1355.0	1124.9	1005.2	999.6	1014.4	987.6
47.5°	1866.9	1868.2	1826.8	1743.6	1763.3	1604.3	1314.0	1174.9	1166.5	1160.6	1119.9
50°	1809.2	1811.8	1815.2	1799.0	1923.4	1939.2	1567.7	1414.0	1410.0	1383.3	1319.8
52.5°	1620.7	1633.8	1673.9	1725.4	1978.9	2260.6	1965.5	1711.1	1689.3	1660.9	1591.0
55°	1303.1	1317.4	1393.7	1518.8	1896.2	2471.8	2522.9	2094.1	2057.8	1972.9	1872.1
57.5°	862.4	884.6	995.3	1154.4	1656.0	2505.8	3079.0	2625.7	2499.1	2266.8	2153.1
60°	475.1	496.5	616.6	760.7	1196.0	2337.8	3453.0	3317.7	3094.2	2595.3	2494.4
62.5°	292.6	304.1	392.8	526.8	717.3	1845.1	3530.4	4187.4	3928.6	3018.3	2906.7
65°	233.0	237.9	281.3	430.7	514.2	1097.5	3280.5	4850.4	4764.0	3530.4	3275.8
67°	226.1	228.0	248.6	369.8	484.7	672.8	2748.4	4958.3	5046.0	3840.3	3287.4
67.5°	227.6	229.8	249.2	352.9	483.9	618.3	2565.0	4915.8	5026.5	3864.9	3236.3
70°	219.5	226.1	285.3	352.7	460.2	513.8	1536.1	4259.2	4374.4	3591.1	2746.0
72.5°	77.8	78.2	123.3	285.3	500.3	519.4	771.4	3122.4	3207.7	2747.1	1979.8
75°	46.2	39.3	41.0	81.2	478.1	504.4	445.0	1995.2	2027.0	1574.1	1002.6
77.5°	31.8	27.8	28.6	35.9	182.1	497.3	353.5	1040.4	1006.5	552.1	213.5
80°	18.2	16.0	17.1	31.4	66.3	464.0	333.4	421.9	359.7	93.6	59.0
82.5°	9.6	8.1	9.8	25.9	46.2	289.2	334.1	203.9	161.6	31.6	40.2
85°	3.4	2.8	4.7	17.7	30.8	88.7	309.7	171.4	134.6	15.4	30.6
87.5°	0.6	0.6	1.9	7.3	12.4	27.1	183.2	101.7	68.2	9.2	20.9
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: P299636

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	805.5	796.4	784.0	768.8	750.8	735.0	723.3	711.1	708.5	704.2	703.6
5°	800.2	784.4	753.6	718.3	680.7	646.7	619.2	594.6	583.7	574.3	573.2
7.5°	792.3	768.6	716.2	659.4	600.6	547.1	501.8	469.8	440.3	426.2	424.0
10°	783.1	749.1	674.1	595.2	514.0	438.6	371.2	314.8	280.6	260.3	257.8
12.5°	774.6	730.1	631.1	528.8	420.8	320.0	233.4	179.5	143.6	129.1	127.4
15°	770.5	714.7	591.0	460.8	323.4	203.7	127.6	98.7	87.0	83.6	83.4
17.5°	770.1	701.7	551.6	390.5	226.6	118.4	83.1	75.9	73.5	72.7	72.7
20°	769.9	689.3	512.3	317.6	143.8	78.9	69.2	67.5	65.8	64.8	64.8
22.5°	772.2	678.2	471.3	243.2	90.6	63.9	60.9	59.2	57.1	55.6	55.4
25°	774.6	669.6	429.4	173.1	65.6	55.6	52.6	50.2	47.2	45.3	45.1
27.5°	775.0	658.9	384.5	115.8	54.9	48.5	44.7	41.0	37.6	35.7	35.5
30°	768.6	641.0	334.7	78.2	48.5	42.1	37.0	33.1	29.9	28.4	28.4
32.5°	756.0	618.7	280.0	59.0	43.2	36.1	30.6	26.9	24.8	24.2	23.9
35°	744.6	594.8	223.8	50.0	38.7	30.6	25.0	22.7	21.4	21.2	20.9
37.5°	738.0	575.6	171.0	45.3	34.4	25.6	21.2	19.4	18.8	18.4	18.6
40°	743.1	559.5	126.3	41.5	30.1	21.4	18.0	17.1	16.5	16.2	16.2
42.5°	765.6	556.8	93.8	38.0	26.1	17.7	15.6	15.0	14.5	14.3	14.5
45°	824.6	573.9	72.9	34.8	22.0	15.0	13.3	13.0	12.8	12.8	12.8
47.5°	913.3	609.1	60.7	31.2	18.4	12.8	11.5	11.3	11.1	11.3	11.3
50°	1063.5	673.7	54.3	27.6	15.2	10.9	9.8	9.8	9.8	9.8	10.0
52.5°	1292.0	800.6	50.0	23.9	12.4	9.2	8.3	8.3	8.5	8.5	8.8
55°	1546.6	969.1	46.2	20.3	10.5	7.7	6.8	7.1	7.3	7.5	7.5
57.5°	1822.7	1155.6	43.0	16.7	9.0	6.2	5.8	6.0	6.2	6.6	6.6
60°	2155.9	1357.6	38.3	13.0	7.5	4.9	4.5	4.9	5.6	6.0	6.2
62.5°	2521.8	1553.0	32.3	10.3	6.2	3.8	3.6	4.5	5.3	5.8	6.0
65°	2771.9	1614.3	24.8	8.3	4.7	2.8	3.0	4.1	5.1	5.8	5.8
67°	2670.6	1463.6	20.3	7.1	3.8	2.1	2.8	4.1	5.1	5.6	5.8
67.5°	2600.2	1404.6	19.4	6.8	3.6	2.1	2.8	4.1	5.1	5.8	5.8
70°	2115.7	1055.2	16.2	5.1	3.0	1.9	2.4	3.8	4.9	5.6	5.6
72.5°	1470.0	650.6	14.5	3.6	2.6	1.7	2.1	3.6	4.7	5.3	5.6
75°	698.9	235.5	12.4	2.8	2.4	1.5	1.9	3.6	4.7	5.3	5.3
77.5°	142.6	54.7	10.0	2.4	1.9	1.5	1.7	3.4	4.5	5.1	5.1
80°	46.8	21.2	7.5	2.1	1.9	1.5	1.7	3.2	4.5	4.9	5.1
82.5°	33.8	10.7	4.9	2.1	1.9	1.5	1.5	3.2	4.3	4.9	4.9
85°	25.9	7.5	3.2	2.1	1.9	1.5	1.5	3.0	4.1	4.7	4.7
87.5°	17.1	3.0	2.6	2.1	1.9	1.5	1.5	3.0	3.8	4.5	4.7
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)