

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: P458519

Luminaire Tested: **GALN-SA1A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS 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: 3528 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

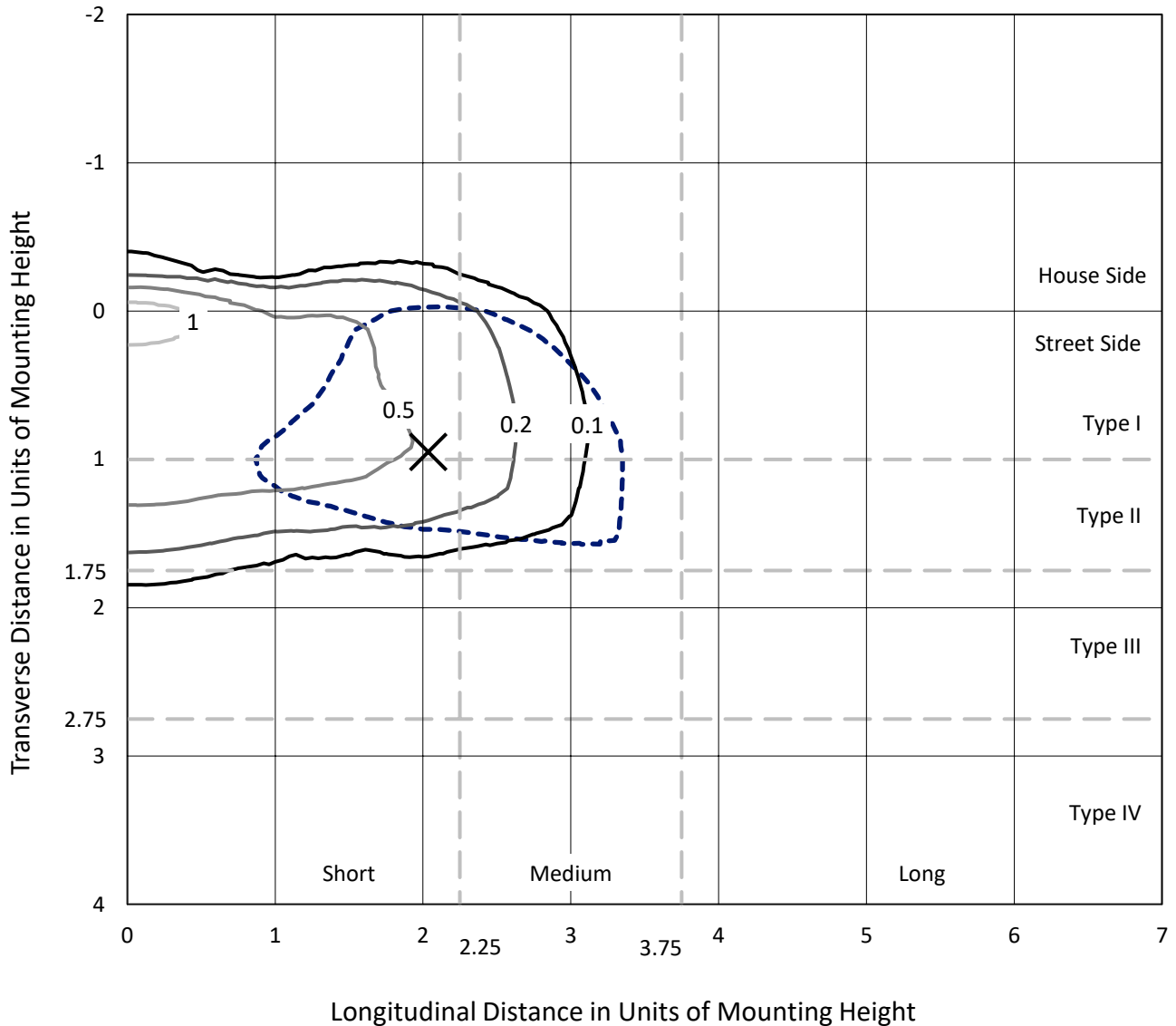
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

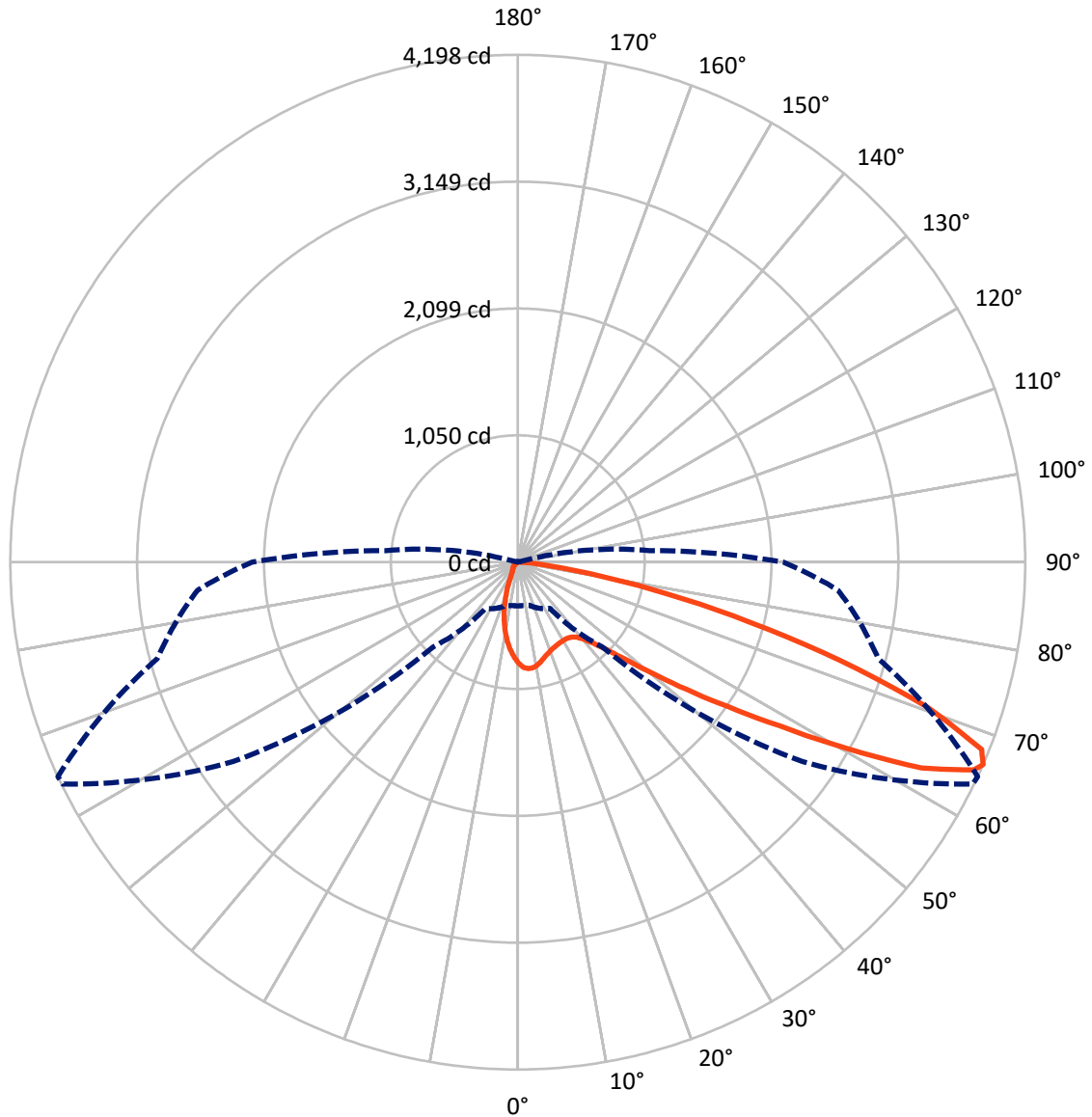
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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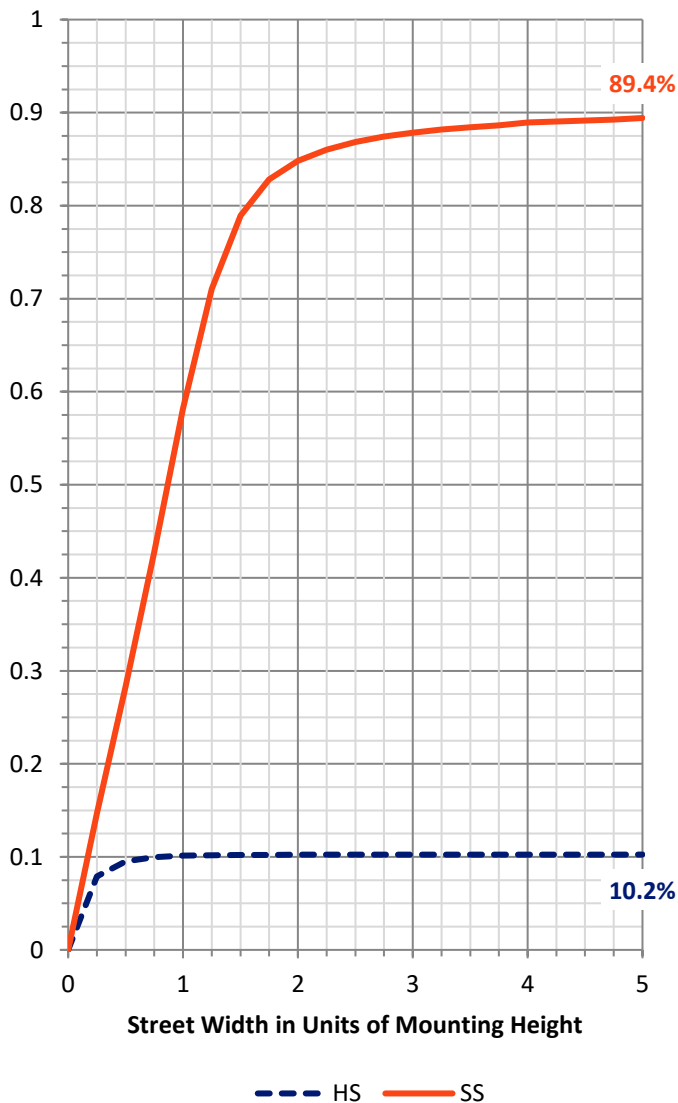
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	364.9	0.0	364.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3163.2	0.0	3163.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	3528.0	0.0	3528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.9
10°-20°	149.1	4.2
20°-30°	213.6	6.1
30°-40°	311.9	8.8
40°-50°	523.0	14.8
50°-60°	872.9	24.7
60°-70°	926.5	26.3
70°-80°	419.6	11.9
80°-90°	42.9	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°	3528.0	100.0
0°-180°	3528.0	100.0

Coefficient of Utilization



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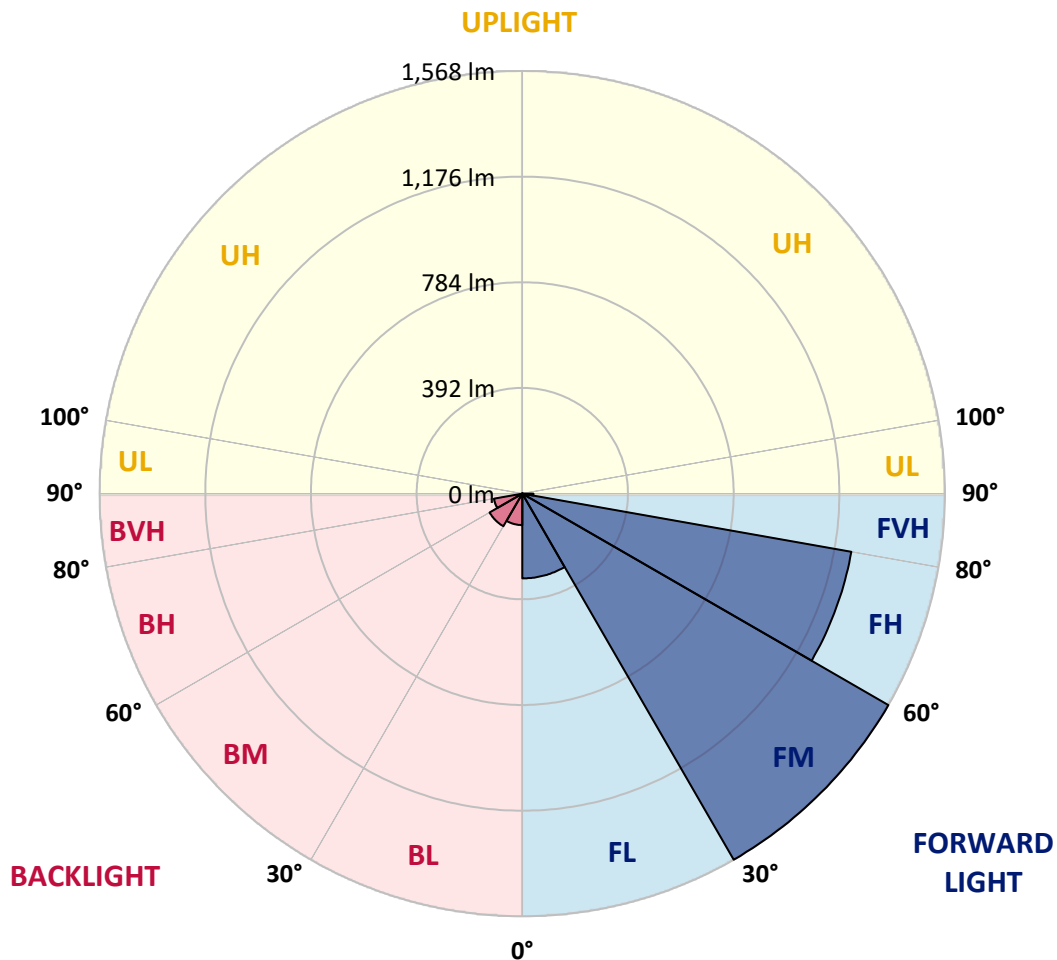
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.4	8.9			
FM (30°-60°)	1567.9	44.4			
FH (60°-80°)	1239.3	35.1			G1/1800
FVH (80°-90°)	41.6	1.2			G1/100
BL (0°-30°)	116.7	3.3	B1/500		
BM (30°-60°)	139.9	4.0	B0/220		
BH (60°-80°)	106.9	3.0	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: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	881.7	882.6	883.8	885.5	886.7	883.1	878.1	872.4	871.2	859.0	844.2
5°	834.5	835.9	846.4	852.1	865.0	876.7	884.0	885.0	884.5	873.1	849.5
7.5°	767.3	771.3	781.6	791.6	815.6	837.8	864.0	882.4	883.6	880.5	851.2
10°	712.7	715.3	720.6	740.4	760.4	794.2	830.9	865.5	868.3	880.7	849.7
12.5°	670.1	673.9	680.3	695.6	719.6	751.6	793.3	839.7	845.7	876.2	845.7
15°	640.3	642.2	648.6	663.6	687.0	716.5	758.7	812.8	818.0	870.2	845.0
17.5°	626.2	628.4	632.9	644.8	664.1	691.5	732.7	791.1	797.8	866.4	847.6
20°	630.0	631.9	632.2	638.4	651.5	674.6	713.7	770.9	779.4	864.0	851.9
22.5°	651.7	651.9	649.1	646.2	650.8	667.4	702.0	758.0	766.8	863.5	856.9
25°	684.1	684.8	680.1	670.1	661.0	669.6	699.4	749.6	757.5	862.4	860.0
27.5°	728.9	728.7	727.2	710.6	684.8	679.1	701.5	745.1	751.8	859.0	861.2
30°	791.6	789.7	786.6	767.8	728.4	702.2	710.6	742.3	748.5	854.3	858.1
32.5°	853.3	860.4	860.0	842.1	793.0	743.4	729.4	746.1	750.6	851.2	853.5
35°	925.3	925.0	943.4	936.7	879.3	796.1	761.6	758.7	762.3	853.3	851.4
37.5°	992.0	998.2	1026.8	1033.7	981.3	870.5	807.1	785.9	787.1	867.8	856.6
40°	1075.1	1087.1	1129.7	1152.8	1106.6	980.8	874.3	835.7	835.9	903.6	876.4
42.5°	1182.4	1201.2	1241.0	1279.6	1254.8	1111.4	975.1	914.5	914.1	966.5	921.7
45°	1312.7	1325.8	1371.1	1432.3	1416.6	1293.6	1121.8	1036.8	1030.6	1069.7	1002.0
47.5°	1425.2	1443.1	1489.0	1558.9	1630.3	1516.2	1297.2	1204.8	1200.7	1233.8	1139.7
50°	1474.3	1490.0	1538.4	1636.3	1809.5	1808.3	1558.4	1450.0	1443.1	1460.9	1352.7
52.5°	1420.4	1435.2	1484.0	1606.0	1893.9	2164.3	1936.8	1757.6	1749.3	1726.4	1607.2
55°	1236.0	1248.1	1320.3	1460.4	1861.5	2401.7	2458.1	2137.7	2105.2	2016.4	1895.3
57.5°	984.1	977.9	1022.7	1185.5	1671.3	2481.3	2993.3	2611.1	2553.2	2267.0	2139.1
60°	682.0	701.0	719.1	826.4	1256.7	2343.3	3326.2	3206.4	3130.1	2513.7	2372.6
62.5°	501.4	514.0	525.9	575.5	790.2	1871.0	3385.1	3817.8	3750.1	2775.5	2595.4
65°	396.5	397.5	402.2	451.1	520.7	1216.7	3102.2	4162.6	4145.2	3027.7	2685.7
66°	361.2	361.5	368.9	421.3	467.3	990.8	2875.6	4188.8	4198.3	3088.2	2659.3
67.5°	315.7	314.8	325.5	378.6	425.6	714.4	2470.1	4082.5	4139.0	3134.6	2564.2
70°	244.7	243.5	256.6	317.6	392.0	476.6	1641.8	3505.4	3596.4	3039.6	2268.7
72.5°	163.0	163.9	186.3	250.7	374.1	419.6	987.7	2666.6	2795.3	2510.1	1784.8
75°	95.1	96.7	122.2	186.3	324.8	400.1	559.0	1901.5	1983.7	1733.3	1111.8
77.5°	49.8	50.5	68.4	123.0	249.0	371.5	372.4	1214.8	1253.4	842.3	440.1
80°	26.4	25.7	36.7	74.1	171.3	326.2	302.1	643.1	668.6	250.2	111.3
82.5°	10.0	11.0	19.5	48.6	101.3	234.2	260.2	284.3	275.5	55.0	46.7
85°	1.9	2.4	8.3	28.8	51.0	97.9	191.8	139.4	129.2	20.7	26.9
87.5°	0.2	0.5	2.4	6.9	7.4	33.1	56.7	38.6	33.4	7.6	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	837.1	830.7	809.2	788.0	766.3	746.8	733.4	711.8	706.3	698.4	693.9
5°	835.4	820.4	779.2	734.2	692.2	646.9	612.4	579.0	561.2	552.1	548.8
7.5°	830.7	806.8	742.5	672.0	604.8	537.1	478.2	433.4	404.6	384.8	371.5
10°	821.1	788.2	699.8	602.9	501.4	412.0	337.4	280.7	236.9	223.0	223.5
12.5°	811.4	767.5	652.2	526.1	400.3	287.6	208.5	163.7	142.7	135.8	134.4
15°	802.3	747.7	605.5	451.8	298.1	186.3	134.4	118.7	112.9	111.8	111.5
17.5°	797.5	729.4	555.7	366.7	208.0	126.5	107.7	103.4	101.7	100.6	100.1
20°	793.5	713.4	508.0	287.1	142.3	103.7	96.5	92.5	89.6	88.4	87.7
22.5°	790.6	697.0	458.7	222.3	108.9	92.0	85.5	80.3	76.3	74.8	73.9
25°	786.3	678.9	408.9	162.5	91.7	81.7	74.3	68.1	62.9	60.3	59.8
27.5°	780.1	658.4	354.3	120.3	82.0	72.7	63.6	56.0	50.8	47.9	48.1
30°	770.1	636.9	299.8	95.6	74.1	63.4	53.6	46.2	41.2	39.1	38.8
32.5°	758.2	611.0	249.7	82.0	67.0	55.0	44.8	38.4	34.6	32.9	32.6
35°	747.0	584.8	198.7	73.6	59.6	47.4	37.6	32.2	29.3	27.9	28.1
37.5°	740.8	561.4	154.9	67.0	53.6	40.7	32.4	27.6	25.0	23.8	23.6
40°	744.9	542.3	123.2	61.0	46.9	35.0	27.9	23.8	21.2	19.5	19.5
42.5°	763.9	534.0	99.4	55.3	40.7	30.3	24.3	20.5	17.6	16.0	16.2
45°	822.1	542.8	83.2	50.0	35.0	26.2	21.0	16.9	14.3	13.1	12.9
47.5°	918.6	575.9	72.0	44.6	30.0	22.4	17.6	14.1	11.4	10.5	10.2
50°	1087.3	644.3	63.6	39.1	25.5	19.1	14.5	11.2	9.1	8.1	8.1
52.5°	1319.4	793.5	57.7	32.9	21.4	16.2	11.9	9.1	7.1	6.4	6.2
55°	1562.0	950.8	54.6	27.6	17.9	13.3	9.5	7.1	5.5	4.8	4.5
57.5°	1795.2	1074.2	51.0	22.4	14.3	10.2	7.4	5.5	3.8	3.3	3.1
60°	2019.0	1174.0	43.4	17.9	11.2	7.4	5.5	3.8	2.6	2.1	2.1
62.5°	2219.1	1232.2	34.1	14.3	8.6	5.2	3.6	2.9	1.9	1.4	1.4
65°	2242.5	1156.6	25.7	11.0	6.2	3.3	2.1	2.1	1.4	1.0	1.0
66°	2195.6	1092.5	22.6	10.0	5.5	2.9	1.9	1.7	1.2	0.7	0.7
67.5°	2090.7	983.2	19.5	8.6	4.5	2.1	1.4	1.4	1.0	0.5	0.5
70°	1806.4	803.0	15.5	6.4	3.3	1.7	1.0	1.0	0.7	0.5	0.5
72.5°	1376.8	599.5	12.6	4.8	2.4	1.2	0.7	0.7	0.7	0.5	0.5
75°	830.4	322.9	9.8	3.6	2.1	1.0	0.5	0.7	1.0	0.7	0.5
77.5°	306.0	109.8	7.6	2.9	1.7	1.0	0.5	0.5	1.0	0.7	0.7
80°	75.1	28.6	5.5	2.4	1.7	1.0	0.5	0.5	1.0	1.0	1.0
82.5°	34.8	12.2	3.8	2.1	1.7	1.0	0.5	0.5	0.7	1.0	1.0
85°	20.0	5.7	3.1	2.4	1.7	1.0	0.5	0.5	0.7	1.0	1.0
87.5°	8.1	2.9	2.9	2.4	1.9	1.2	0.5	0.5	0.5	0.7	0.7
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)