

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: P450254

Luminaire Tested: **GALN-SA1A-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450254  
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-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3787 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

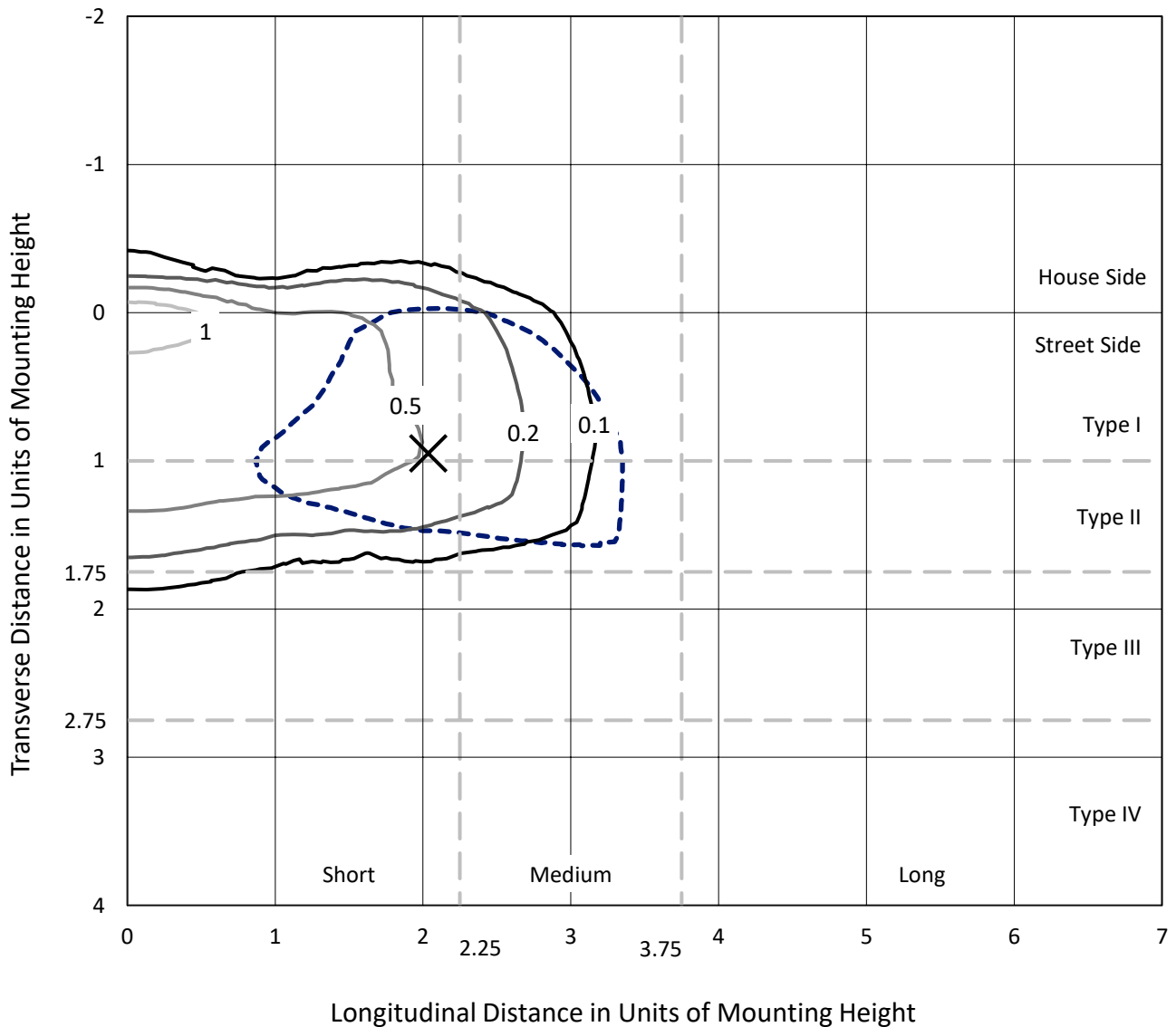
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

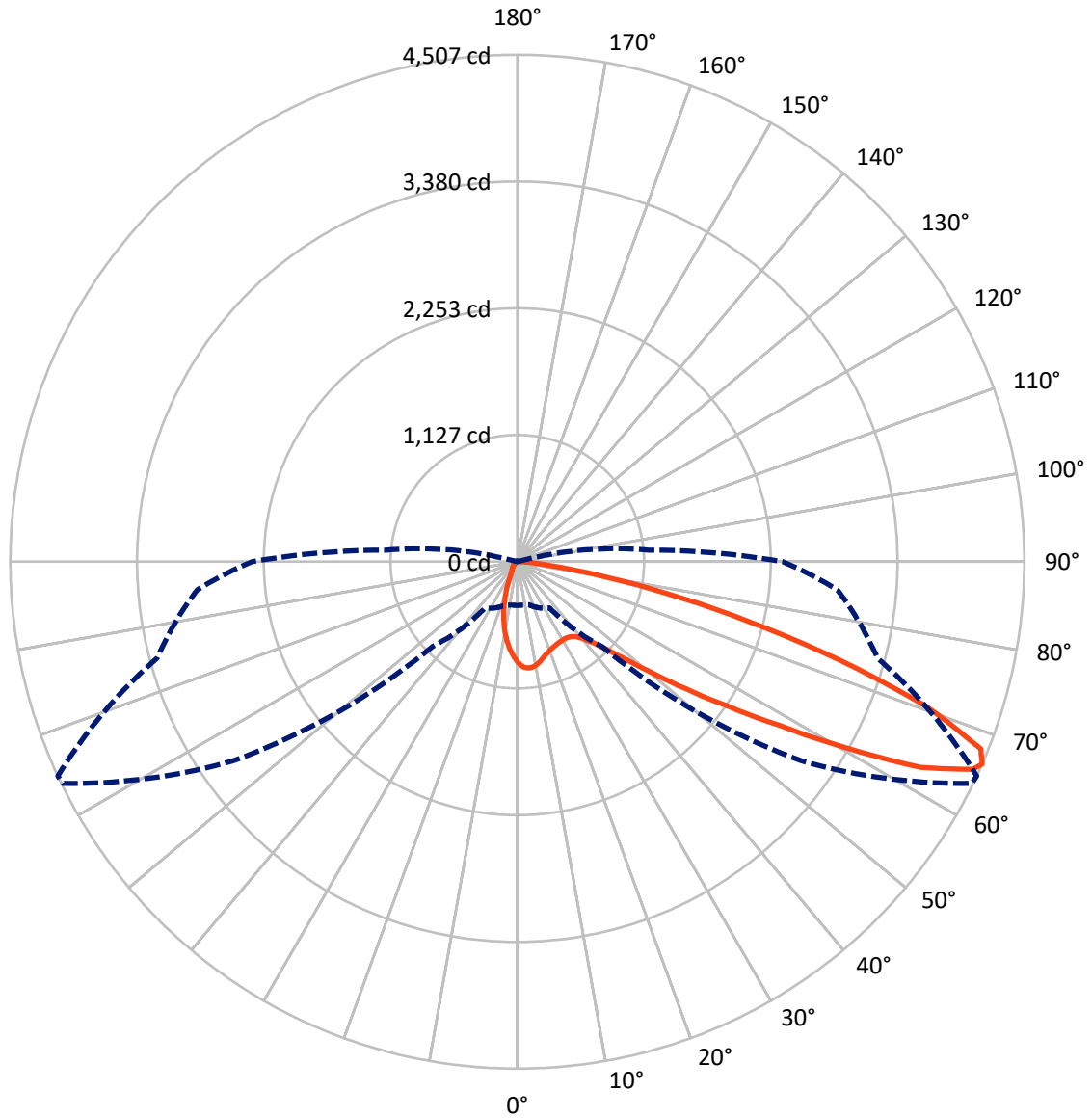
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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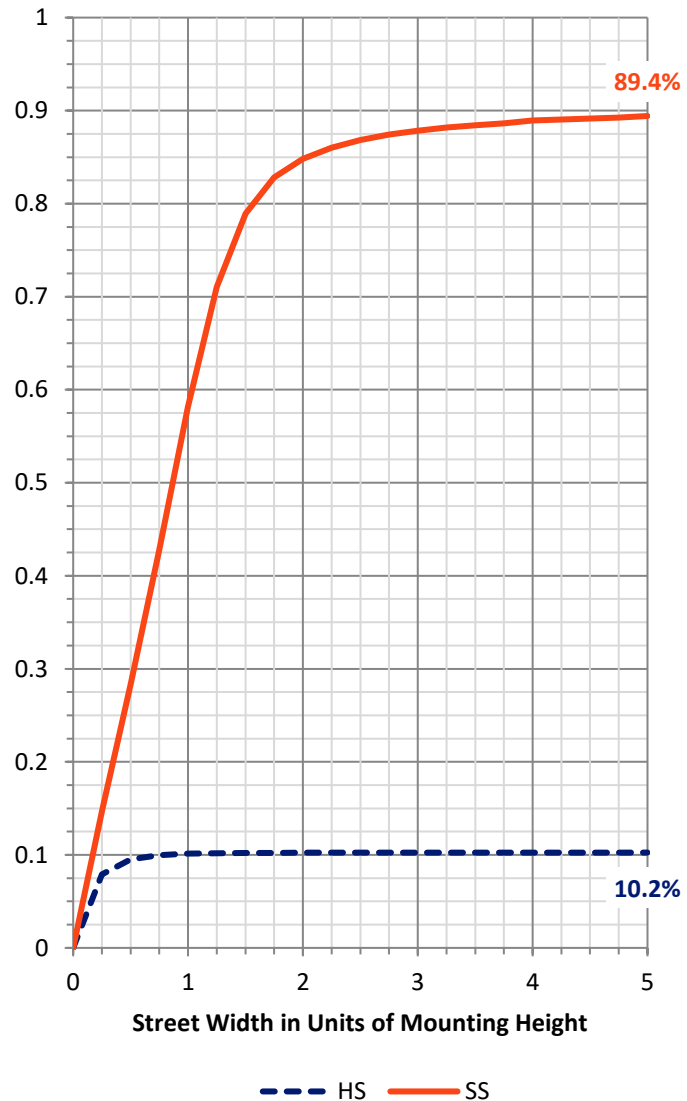
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	391.6	0.0	391.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3395.4	0.0	3395.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3787.0	0.0	3787.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	1.9
10°-20°	160.0	4.2
20°-30°	229.2	6.1
30°-40°	334.8	8.8
40°-50°	561.4	14.8
50°-60°	937.0	24.7
60°-70°	994.5	26.3
70°-80°	450.4	11.9
80°-90°	46.1	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°	3787.0	100.0
0°-180°	3787.0	100.0



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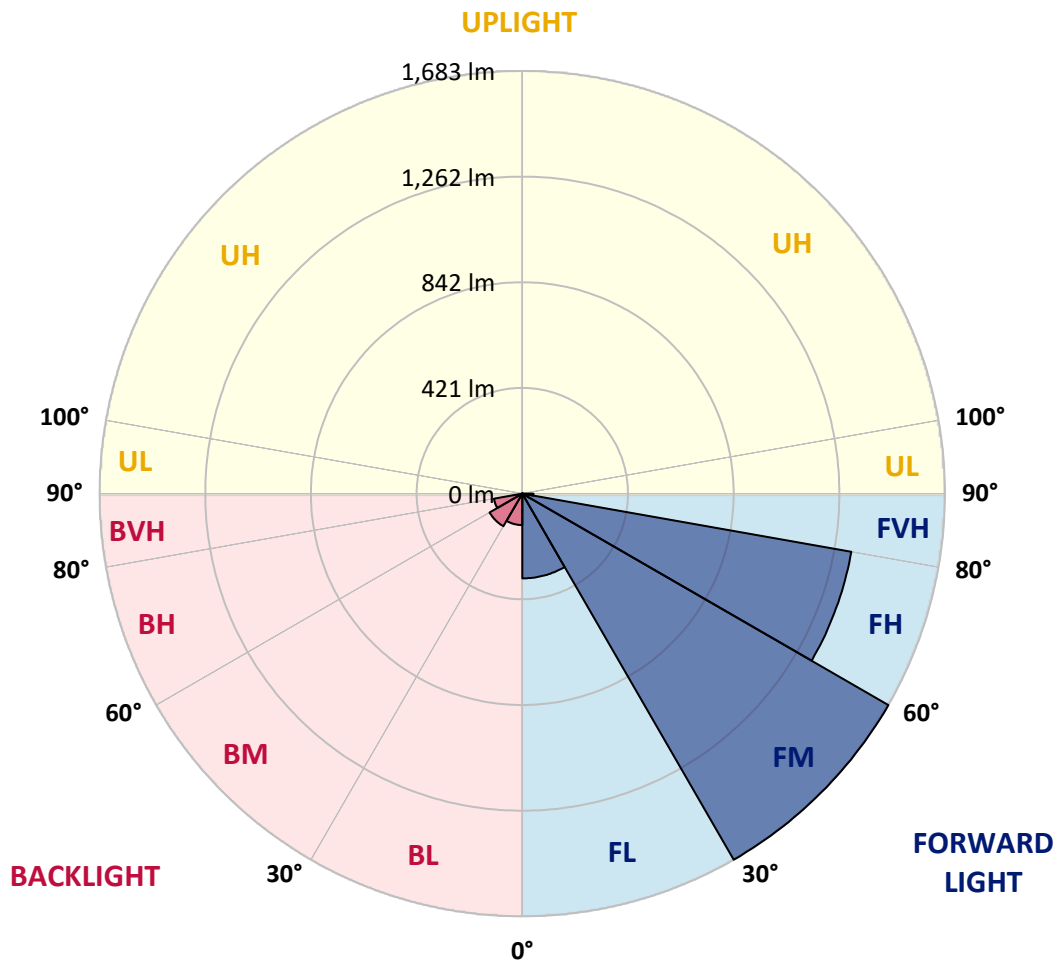
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.4	8.9			
FM (30°-60°)	1683.0	44.4			
FH (60°-80°)	1330.3	35.1			G1/1800
FVH (80°-90°)	44.6	1.2			G1/100
BL (0°-30°)	125.3	3.3	B1/500		
BM (30°-60°)	150.2	4.0	B0/220		
BH (60°-80°)	114.7	3.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0
2.5°	946.4	947.4	948.7	950.5	951.8	947.9	942.5	936.4	935.1	922.1	906.2
5°	895.7	897.3	908.5	914.7	928.5	941.0	948.9	950.0	949.4	937.2	911.8
7.5°	823.6	828.0	839.0	849.7	875.5	899.3	927.5	947.1	948.4	945.1	913.6
10°	765.0	767.8	773.5	794.7	816.2	852.5	891.9	929.0	932.1	945.4	912.1
12.5°	719.2	723.3	730.2	746.6	772.5	806.7	851.5	901.4	907.8	940.5	907.8
15°	687.3	689.3	696.2	712.3	737.4	769.1	814.4	872.5	878.1	934.1	907.0
17.5°	672.2	674.5	679.3	692.1	712.9	742.3	786.5	849.2	856.3	930.0	909.8
20°	676.3	678.3	678.6	685.2	699.3	724.1	766.1	827.4	836.7	927.5	914.4
22.5°	699.6	699.8	696.7	693.7	698.5	716.4	753.5	813.6	823.1	926.9	919.8
25°	734.3	735.1	730.0	719.2	709.5	718.7	750.7	804.7	813.1	925.7	923.1
27.5°	782.4	782.2	780.6	762.7	735.1	729.0	753.0	799.8	807.0	922.1	924.4
30°	849.7	847.6	844.3	824.1	781.9	753.8	762.7	796.7	803.4	917.0	921.1
32.5°	915.9	923.6	923.1	903.9	851.2	798.0	782.9	800.8	805.7	913.6	916.2
35°	993.2	992.9	1012.6	1005.5	943.8	854.6	817.5	814.4	818.2	915.9	913.9
37.5°	1064.8	1071.5	1102.1	1109.6	1053.3	934.4	866.3	843.6	844.8	931.5	919.5
40°	1154.1	1166.9	1212.6	1237.5	1187.8	1052.8	938.5	897.0	897.3	969.9	940.8
42.5°	1269.2	1289.4	1332.1	1373.5	1346.9	1192.9	1046.6	981.7	981.2	1037.4	989.4
45°	1409.1	1423.2	1471.7	1537.5	1520.6	1388.6	1204.2	1112.9	1106.2	1148.2	1075.5
47.5°	1529.8	1549.0	1598.4	1673.3	1750.0	1627.5	1392.5	1293.2	1288.9	1324.4	1223.4
50°	1582.5	1599.4	1651.3	1756.4	1942.4	1941.1	1672.8	1556.4	1549.0	1568.2	1452.1
52.5°	1524.7	1540.6	1593.0	1723.9	2032.9	2323.2	2079.0	1886.6	1877.7	1853.1	1725.2
55°	1326.7	1339.8	1417.3	1567.7	1998.1	2578.0	2638.6	2294.6	2259.8	2164.4	2034.5
57.5°	1056.4	1049.7	1097.8	1272.5	1794.0	2663.4	3213.1	2802.8	2740.7	2433.5	2296.1
60°	732.0	752.5	771.9	887.0	1349.0	2515.3	3570.4	3441.8	3359.9	2698.2	2546.8
62.5°	538.2	551.7	564.5	617.7	848.2	2008.4	3633.6	4098.1	4025.4	2979.3	2785.9
65°	425.6	426.6	431.8	484.2	558.9	1306.0	3330.0	4468.2	4449.5	3249.9	2882.9
66°	387.8	388.0	395.9	452.2	501.6	1063.5	3086.7	4496.3	4506.6	3314.9	2854.5
67.5°	338.9	337.9	349.4	406.4	456.8	766.8	2651.4	4382.2	4442.9	3364.8	2752.4
70°	262.7	261.4	275.5	341.0	420.8	511.6	1762.3	3762.8	3860.5	3262.7	2435.3
72.5°	175.0	176.0	200.0	269.1	401.6	450.4	1060.2	2862.4	3000.5	2694.4	1915.8
75°	102.1	103.8	131.2	200.0	348.6	429.5	600.1	2041.1	2129.4	1860.5	1193.5
77.5°	53.5	54.2	73.4	132.0	267.3	398.8	399.8	1304.0	1345.4	904.2	472.4
80°	28.4	27.6	39.4	79.5	183.9	350.2	324.3	690.3	717.7	268.6	119.4
82.5°	10.7	11.8	21.0	52.2	108.7	251.4	279.3	305.1	295.7	59.1	50.1
85°	2.0	2.6	9.0	30.9	54.7	105.1	205.9	149.6	138.6	22.3	28.9
87.5°	0.3	0.5	2.6	7.4	7.9	35.6	60.9	41.4	35.8	8.2	12.0
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°	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0	898.0
2.5°	898.5	891.6	868.6	845.9	822.6	801.6	787.3	764.0	758.1	749.7	744.8
5°	896.8	880.6	836.4	788.1	743.0	694.4	657.4	621.5	602.4	592.6	589.1
7.5°	891.6	866.1	797.0	721.3	649.2	576.5	513.3	465.3	434.3	413.1	398.8
10°	881.4	846.1	751.2	647.1	538.2	442.2	362.2	301.3	254.2	239.4	239.9
12.5°	870.9	823.9	700.1	564.8	429.7	308.7	223.8	175.7	153.2	145.8	144.3
15°	861.2	802.6	649.9	485.0	320.0	200.0	144.3	127.4	121.2	120.0	119.7
17.5°	856.1	782.9	596.5	393.6	223.3	135.8	115.6	111.0	109.2	107.9	107.4
20°	851.7	765.8	545.3	308.2	152.7	111.3	103.6	99.2	96.2	94.9	94.1
22.5°	848.7	748.2	492.4	238.6	116.9	98.7	91.8	86.2	81.8	80.3	79.3
25°	844.1	728.7	438.9	174.4	98.5	87.7	79.8	73.2	67.5	64.7	64.2
27.5°	837.4	706.7	380.3	129.2	88.0	78.0	68.3	60.1	54.5	51.4	51.7
30°	826.7	683.7	321.8	102.6	79.5	68.0	57.6	49.6	44.2	41.9	41.7
32.5°	813.9	655.8	268.1	88.0	71.9	59.1	48.1	41.2	37.1	35.3	35.0
35°	801.9	627.7	213.3	79.0	63.9	50.9	40.4	34.5	31.5	29.9	30.2
37.5°	795.2	602.6	166.3	71.9	57.6	43.7	34.8	29.7	26.9	25.6	25.3
40°	799.6	582.2	132.2	65.5	50.4	37.6	29.9	25.6	22.8	21.0	21.0
42.5°	820.0	573.2	106.7	59.3	43.7	32.5	26.1	22.0	18.9	17.1	17.4
45°	882.4	582.7	89.3	53.7	37.6	28.1	22.5	18.2	15.3	14.1	13.8
47.5°	986.0	618.2	77.2	47.8	32.2	24.0	18.9	15.1	12.3	11.3	11.0
50°	1167.1	691.6	68.3	41.9	27.4	20.5	15.6	12.0	9.7	8.7	8.7
52.5°	1416.2	851.7	61.9	35.3	23.0	17.4	12.8	9.7	7.7	6.9	6.7
55°	1676.6	1020.6	58.6	29.7	19.2	14.3	10.2	7.7	5.9	5.1	4.9
57.5°	1927.0	1153.0	54.7	24.0	15.3	11.0	7.9	5.9	4.1	3.6	3.3
60°	2167.2	1260.2	46.6	19.2	12.0	7.9	5.9	4.1	2.8	2.3	2.3
62.5°	2382.1	1322.6	36.6	15.3	9.2	5.6	3.8	3.1	2.0	1.5	1.5
65°	2407.1	1241.5	27.6	11.8	6.7	3.6	2.3	2.3	1.5	1.0	1.0
66°	2356.7	1172.7	24.3	10.7	5.9	3.1	2.0	1.8	1.3	0.8	0.8
67.5°	2244.2	1055.3	21.0	9.2	4.9	2.3	1.5	1.5	1.0	0.5	0.5
70°	1939.1	862.0	16.6	6.9	3.6	1.8	1.0	1.0	0.8	0.5	0.5
72.5°	1477.9	643.5	13.6	5.1	2.6	1.3	0.8	0.8	0.8	0.5	0.5
75°	891.4	346.6	10.5	3.8	2.3	1.0	0.5	0.8	1.0	0.8	0.5
77.5°	328.4	117.9	8.2	3.1	1.8	1.0	0.5	0.5	1.0	0.8	0.8
80°	80.6	30.7	5.9	2.6	1.8	1.0	0.5	0.5	1.0	1.0	1.0
82.5°	37.3	13.0	4.1	2.3	1.8	1.0	0.5	0.5	0.8	1.0	1.0
85°	21.5	6.1	3.3	2.6	1.8	1.0	0.5	0.5	0.8	1.0	1.0
87.5°	8.7	3.1	3.1	2.6	2.0	1.3	0.5	0.5	0.5	0.8	0.8
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)