

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: P450570

Luminaire Tested: **GALN-SA1B-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3468 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

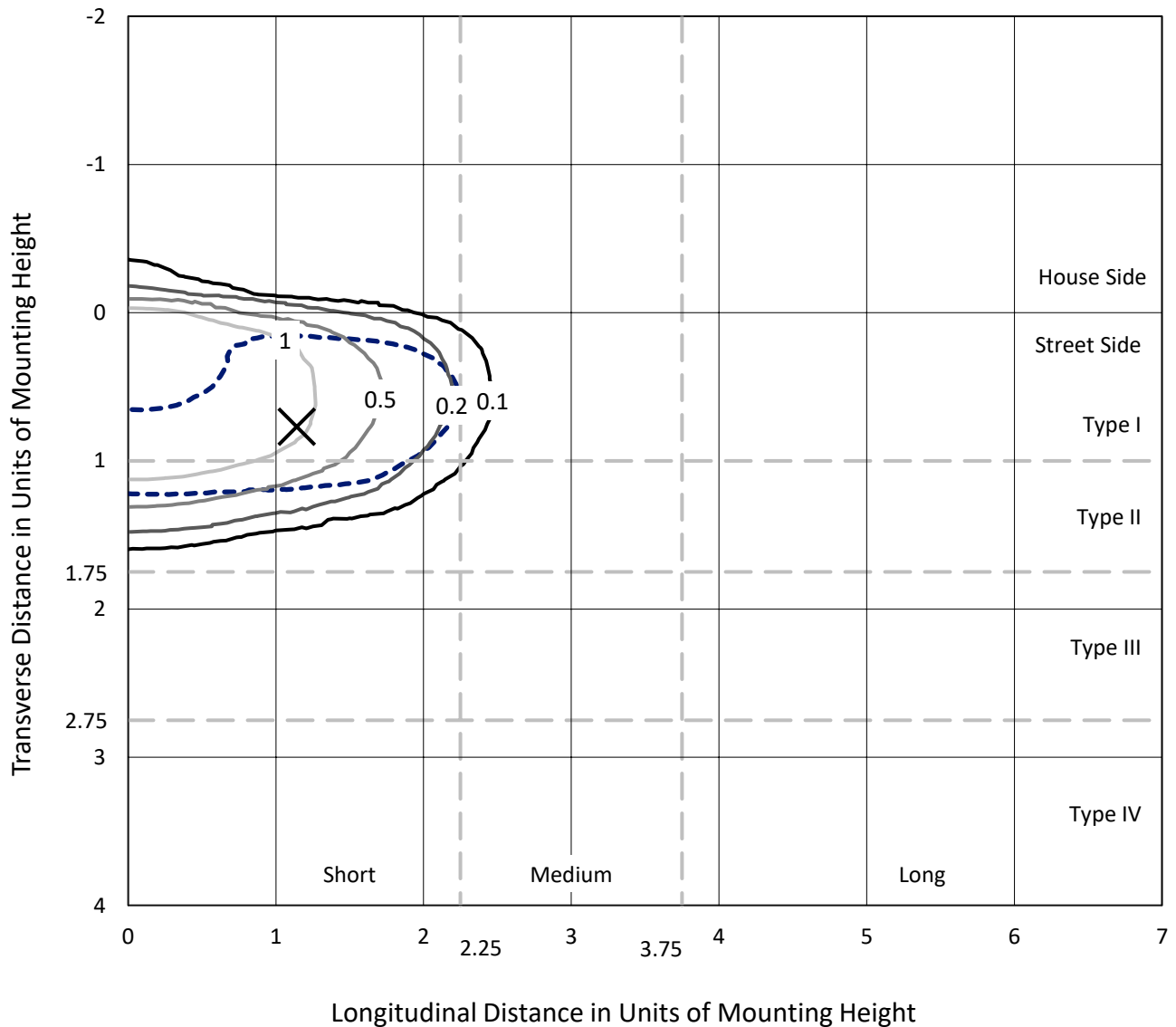
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

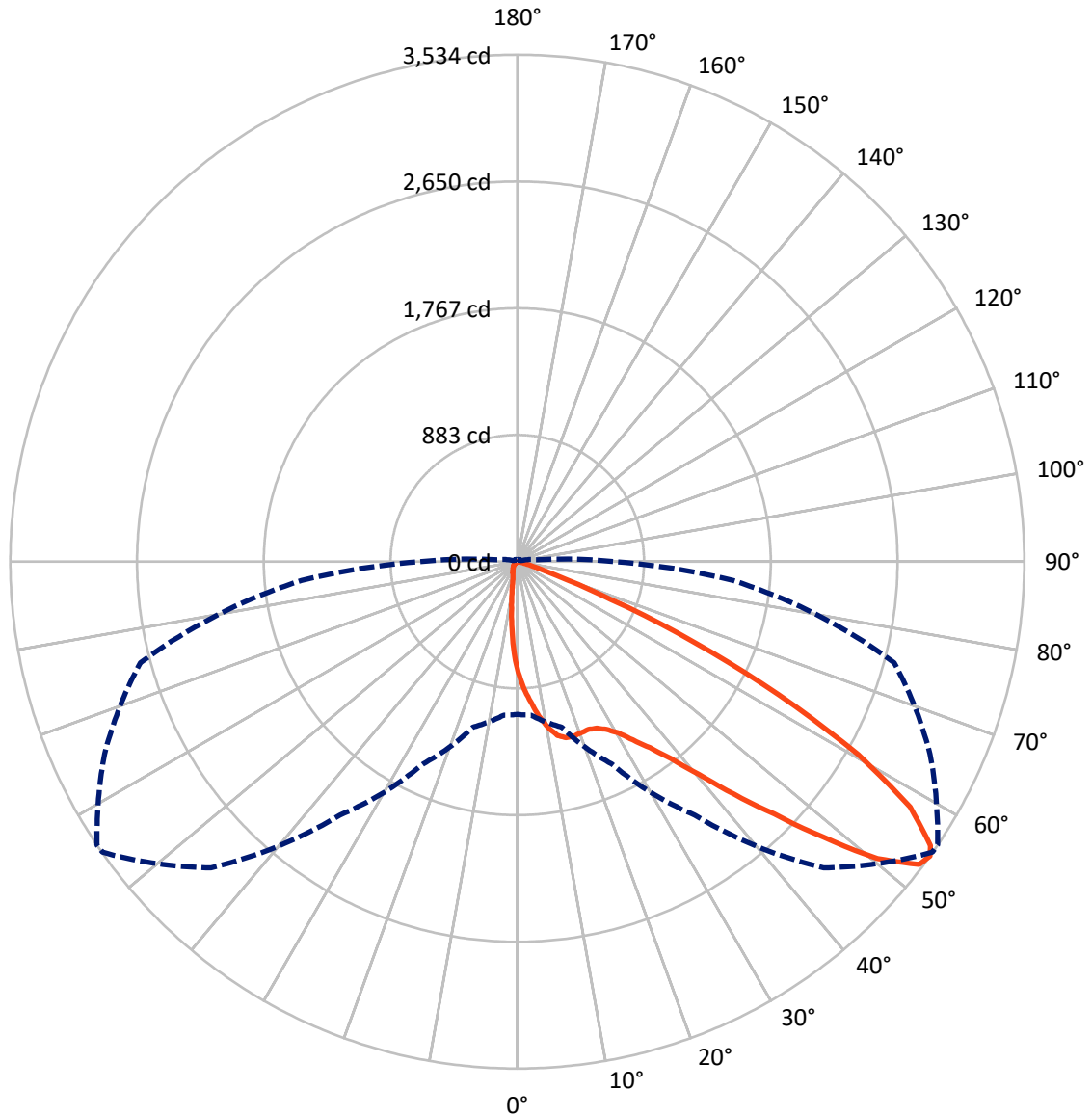
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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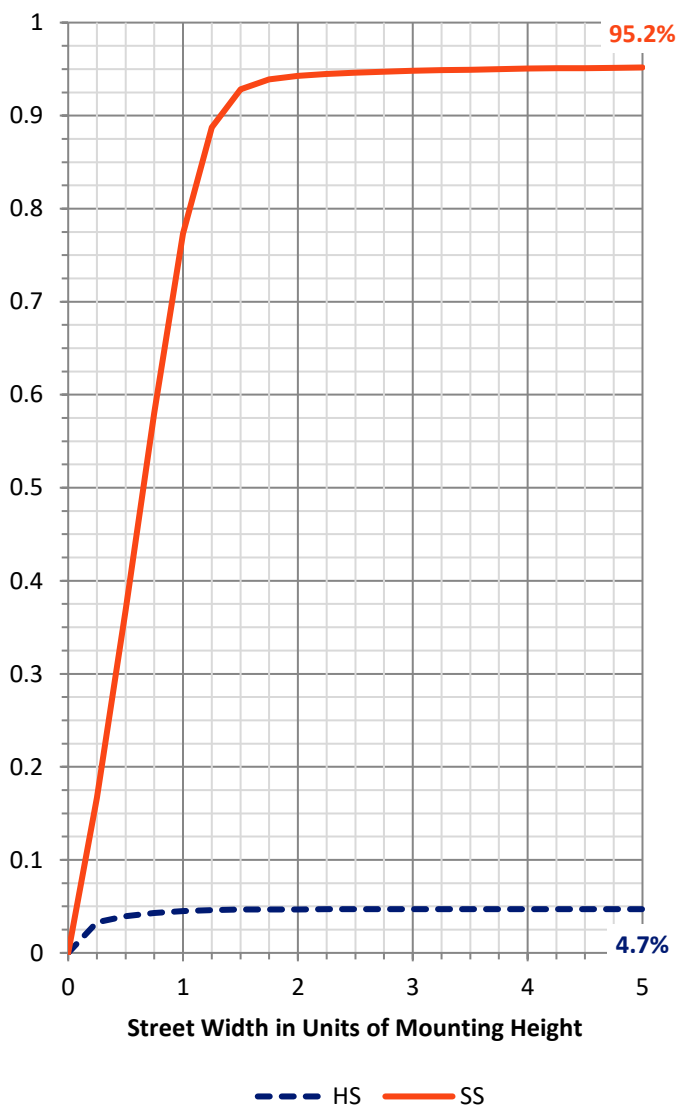
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	164.0	0.0	164.0
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	3304.0	0.0	3304.0
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	3468.0	0.0	3468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	2.0
10°-20°	184.1	5.3
20°-30°	318.8	9.2
30°-40°	550.2	15.9
40°-50°	936.5	27.0
50°-60°	926.8	26.7
60°-70°	423.0	12.2
70°-80°	54.3	1.6
80°-90°	6.1	0.2
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°	3468.0	100.0
0°-180°	3468.0	100.0

**Coefficient of Utilization**



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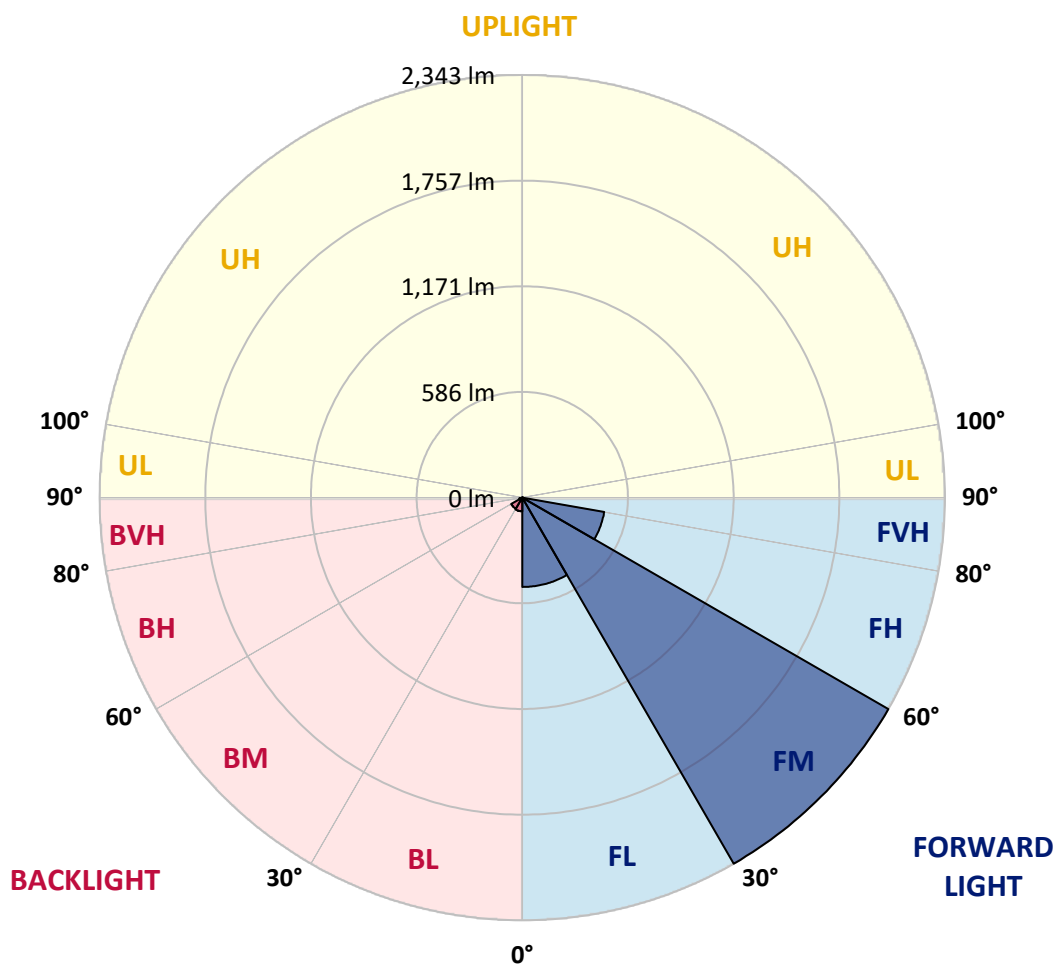
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.1	14.3			
FM	(30°-60°)	2342.5	67.5			
FH	(60°-80°)	460.9	13.3			G0/660
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	75.8	2.2	B0/110		
BM	(30°-60°)	71.1	2.0	B0/220		
BH	(60°-80°)	16.4	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5
2.5°	979.2	972.4	963.1	955.8	938.7	914.2	888.2	888.2	863.1	828.3	792.7
5°	1129.4	1125.0	1115.8	1097.1	1077.9	1043.5	991.4	982.2	937.6	874.4	807.9
7.5°	1190.5	1192.6	1193.1	1188.1	1179.0	1145.1	1093.4	1087.1	1015.7	931.0	827.8
10°	1132.0	1142.3	1152.3	1172.7	1201.5	1209.7	1180.4	1173.9	1103.7	988.3	849.3
12.5°	1044.9	1050.6	1056.2	1088.2	1146.0	1212.2	1242.9	1242.7	1183.2	1045.4	876.7
15°	1004.5	1009.4	1009.8	1024.1	1074.2	1170.6	1269.6	1273.1	1260.9	1115.8	906.2
17.5°	1012.9	1016.9	1013.6	1017.1	1043.3	1124.7	1266.5	1278.2	1323.8	1183.5	932.9
20°	1067.9	1075.6	1063.0	1053.1	1061.1	1112.6	1256.2	1272.6	1368.3	1249.4	957.2
22.5°	1166.6	1170.8	1154.9	1128.0	1114.0	1138.1	1253.4	1269.6	1406.2	1303.5	971.2
25°	1276.4	1274.9	1257.4	1227.2	1197.7	1189.5	1271.9	1286.4	1437.6	1352.2	975.5
27.5°	1386.1	1390.3	1360.8	1323.4	1288.0	1266.8	1313.3	1324.1	1472.9	1407.6	980.6
30°	1513.6	1506.8	1477.8	1435.0	1394.5	1364.8	1380.0	1383.0	1521.6	1481.1	994.2
32.5°	1679.5	1660.8	1628.3	1553.4	1524.4	1474.1	1477.8	1481.5	1580.8	1553.8	1010.6
35°	1904.6	1903.6	1840.0	1739.2	1668.5	1606.0	1589.6	1592.7	1670.4	1661.9	1046.8
37.5°	2175.5	2179.3	2106.7	2005.2	1875.1	1775.9	1742.2	1742.7	1806.5	1811.2	1102.0
40°	2396.2	2406.0	2362.7	2294.2	2165.7	2010.6	1954.0	1948.8	1997.9	1992.1	1180.9
42.5°	2491.2	2500.3	2516.4	2540.3	2469.6	2341.7	2208.1	2215.1	2230.0	2189.1	1269.3
45°	2444.6	2459.1	2522.5	2669.9	2736.4	2693.3	2534.0	2509.4	2446.0	2403.2	1358.2
47.5°	2250.6	2286.0	2392.0	2637.4	2870.0	3015.5	2901.8	2869.3	2662.2	2559.5	1414.9
50°	1931.7	1933.8	2081.5	2395.2	2800.7	3218.8	3277.3	3253.0	2863.7	2647.2	1443.4
52.5°	1400.4	1446.5	1581.7	1945.1	2500.8	3188.0	3516.7	3506.6	3071.4	2692.2	1484.6
54°	1064.6	1073.5	1193.8	1554.3	2156.1	3018.3	3531.4	3533.8	3174.6	2719.3	1508.9
55°	872.7	851.4	977.8	1324.1	1921.0	2868.3	3483.2	3494.5	3220.9	2733.3	1526.9
57.5°	413.7	413.9	510.5	698.4	1203.1	2227.2	3188.7	3228.4	3226.1	2757.4	1582.4
60°	209.4	210.8	232.1	322.4	594.3	1480.6	2636.5	2731.2	2977.8	2760.9	1600.6
62.5°	146.5	144.8	141.3	155.1	250.1	752.5	1962.8	2045.2	2530.0	2627.3	1542.6
65°	125.4	121.9	112.1	110.0	126.3	299.7	1222.5	1356.8	1931.7	2275.0	1377.4
67.5°	107.2	105.8	96.9	91.5	89.4	130.6	630.8	701.5	1320.3	1635.3	1043.3
70°	91.0	90.3	84.9	78.1	72.3	78.1	234.0	289.9	735.9	880.5	492.3
72.5°	73.9	74.6	75.6	66.9	60.8	55.5	99.9	116.3	307.9	314.7	172.2
75°	64.8	64.1	64.1	58.3	50.8	41.2	55.0	59.2	94.3	87.5	40.0
77.5°	45.6	44.0	51.5	48.0	42.4	29.2	31.4	33.2	39.1	33.5	18.7
80°	31.6	31.6	33.0	43.1	38.1	21.3	19.2	20.6	23.2	19.9	10.8
82.5°	17.8	18.3	21.5	22.9	22.2	14.3	12.6	12.9	15.4	13.6	6.8
85°	2.1	3.5	12.4	12.2	9.1	6.3	7.0	7.3	9.6	8.4	4.0
87.5°	0.2	0.5	2.6	3.3	2.3	2.6	2.6	2.6	3.3	3.7	2.8
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°	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5
2.5°	773.5	755.7	713.4	664.3	632.9	581.9	538.9	507.7	500.0	485.0	489.5
5°	772.6	735.6	649.3	558.0	460.7	388.2	334.1	291.5	272.8	260.4	251.8
7.5°	773.1	715.3	576.8	431.5	315.2	244.0	194.0	168.0	150.7	143.4	144.4
10°	774.5	692.3	492.5	319.6	212.7	157.7	127.1	114.6	108.8	107.9	107.6
12.5°	777.7	667.3	412.0	237.3	148.8	114.6	103.0	98.7	96.9	96.9	96.2
15°	781.3	639.7	345.1	176.4	114.6	98.5	93.1	91.0	89.8	89.8	89.6
17.5°	781.3	607.9	282.6	136.9	98.7	90.5	86.3	83.5	82.6	82.6	82.4
20°	776.3	570.9	227.2	110.2	89.6	83.1	78.9	75.8	74.6	74.2	73.9
22.5°	759.3	521.5	180.9	94.8	82.1	76.5	71.1	67.6	66.7	66.2	66.4
25°	728.8	465.9	143.2	83.3	75.3	68.6	63.9	61.3	60.4	60.4	60.6
27.5°	697.5	407.6	113.5	74.6	67.2	61.1	57.3	55.7	55.5	56.2	56.4
30°	668.5	349.1	92.0	67.6	59.9	54.8	52.2	51.7	51.7	51.9	52.2
32.5°	636.2	297.9	77.0	61.5	54.0	49.6	48.2	48.2	48.7	48.7	49.1
35°	615.8	253.9	67.6	55.7	49.6	45.9	44.9	45.2	45.9	46.8	47.3
37.5°	604.8	218.8	61.5	51.0	45.4	42.8	41.9	42.4	44.0	45.6	45.9
40°	605.8	192.3	56.6	47.0	42.1	39.3	38.6	40.0	41.6	43.3	43.5
42.5°	616.1	172.7	51.9	42.4	39.3	35.3	35.1	36.5	37.2	38.8	39.1
45°	628.2	158.4	47.0	37.4	34.2	30.7	30.9	32.1	33.0	35.6	36.0
47.5°	632.0	148.6	41.4	31.8	28.1	26.9	27.1	27.8	29.7	32.1	32.3
50°	636.2	142.5	36.0	26.9	23.9	23.6	23.9	24.3	25.5	26.4	26.2
52.5°	654.2	142.3	31.6	23.4	20.4	20.8	21.1	20.8	19.9	18.5	18.0
54°	671.0	143.0	29.5	21.8	18.7	19.4	19.2	18.0	15.7	14.3	13.6
55°	684.6	143.7	28.3	20.6	17.8	18.0	18.3	15.9	12.9	11.5	11.0
57.5°	711.3	142.0	25.5	18.0	15.7	14.7	14.5	10.5	7.0	6.1	5.6
60°	698.0	128.2	23.2	15.4	13.3	11.9	9.8	5.8	3.5	2.6	2.6
62.5°	645.5	108.8	20.6	12.6	11.0	9.1	5.1	3.3	1.6	0.9	0.7
65°	577.5	91.5	18.5	10.1	8.7	5.8	2.8	2.1	0.7	0.0	0.0
67.5°	429.3	67.9	15.7	8.0	6.6	3.7	1.9	1.2	0.2	0.0	0.0
70°	198.9	41.4	13.3	6.1	4.7	2.8	1.4	0.7	0.0	0.0	0.0
72.5°	57.1	26.0	11.0	4.4	3.3	2.3	1.2	0.5	0.2	0.0	0.0
75°	19.9	20.8	8.2	3.3	2.6	1.6	0.9	0.5	0.2	0.0	0.0
77.5°	11.9	16.8	5.1	2.8	2.1	1.4	0.9	0.5	0.2	0.2	0.0
80°	6.8	11.2	3.3	2.3	1.9	1.2	0.7	0.5	0.2	0.2	0.0
82.5°	3.7	5.4	2.6	2.1	1.6	1.2	0.7	0.5	0.2	0.2	0.2
85°	3.0	2.8	2.1	1.9	1.4	0.9	0.7	0.2	0.0	0.0	0.0
87.5°	2.3	1.9	1.9	1.9	1.4	0.9	0.7	0.2	0.0	0.0	0.0
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)