

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: P652201

Luminaire Tested: **GALN-SA1B-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3502.8 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

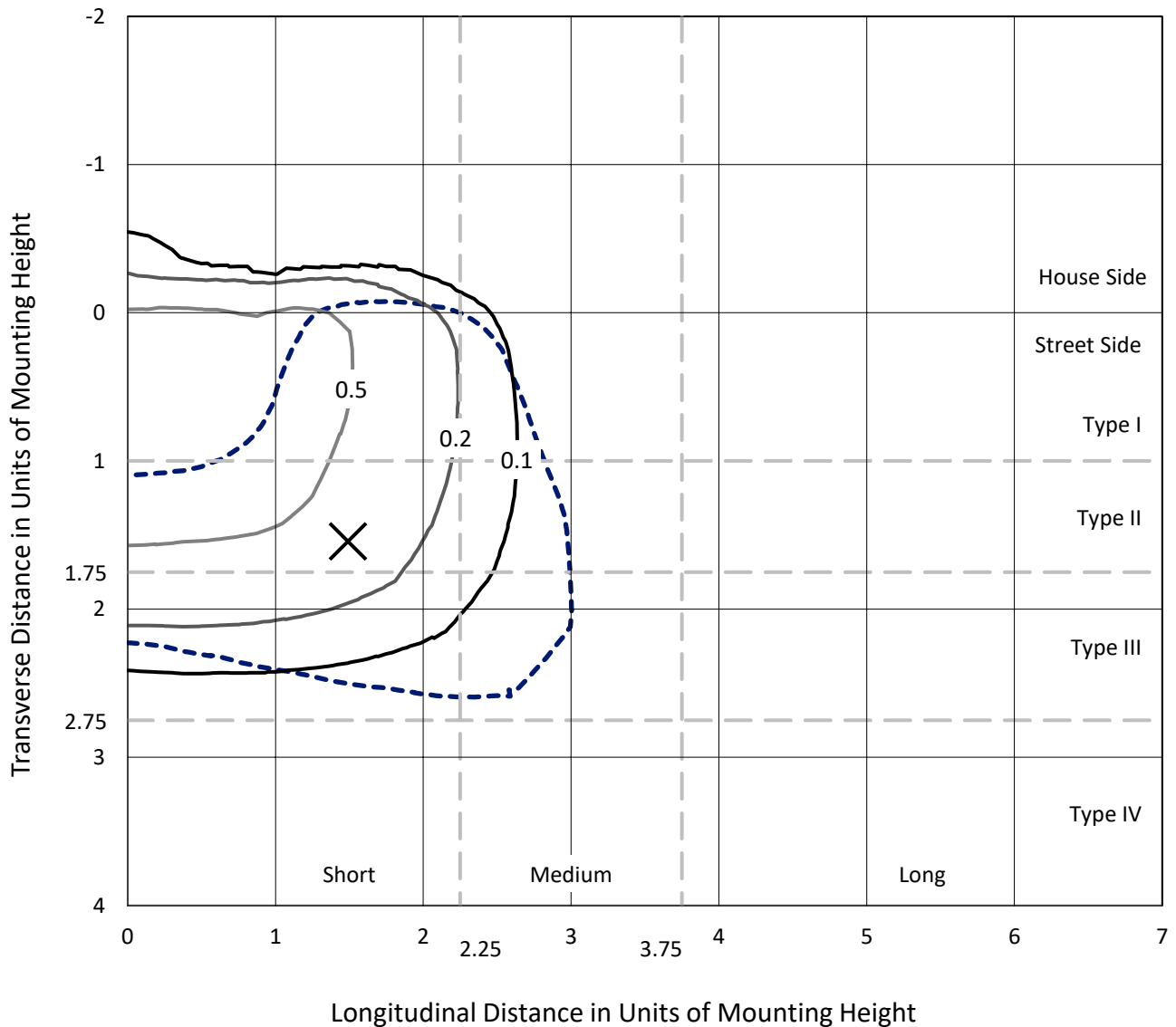
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

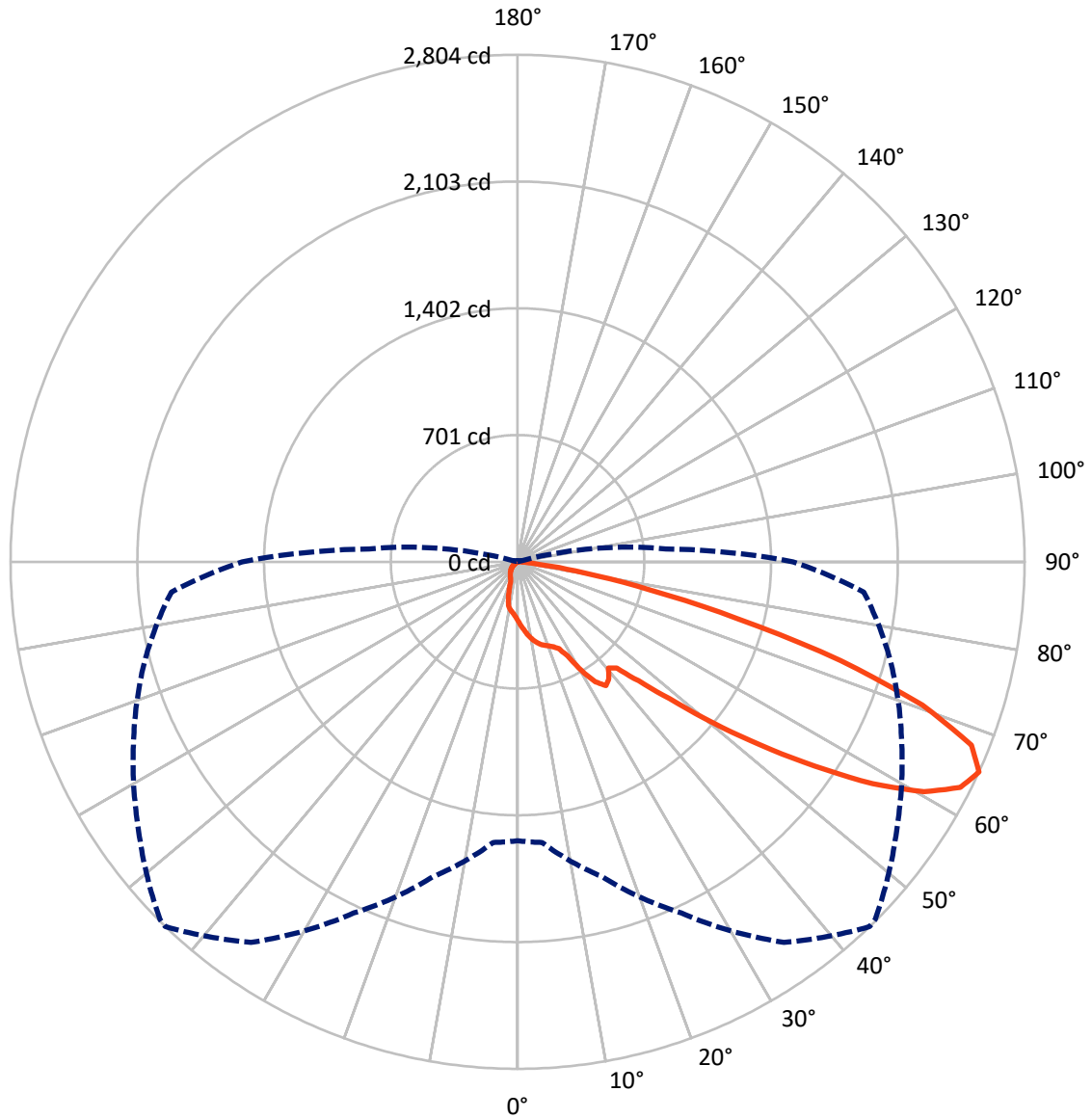
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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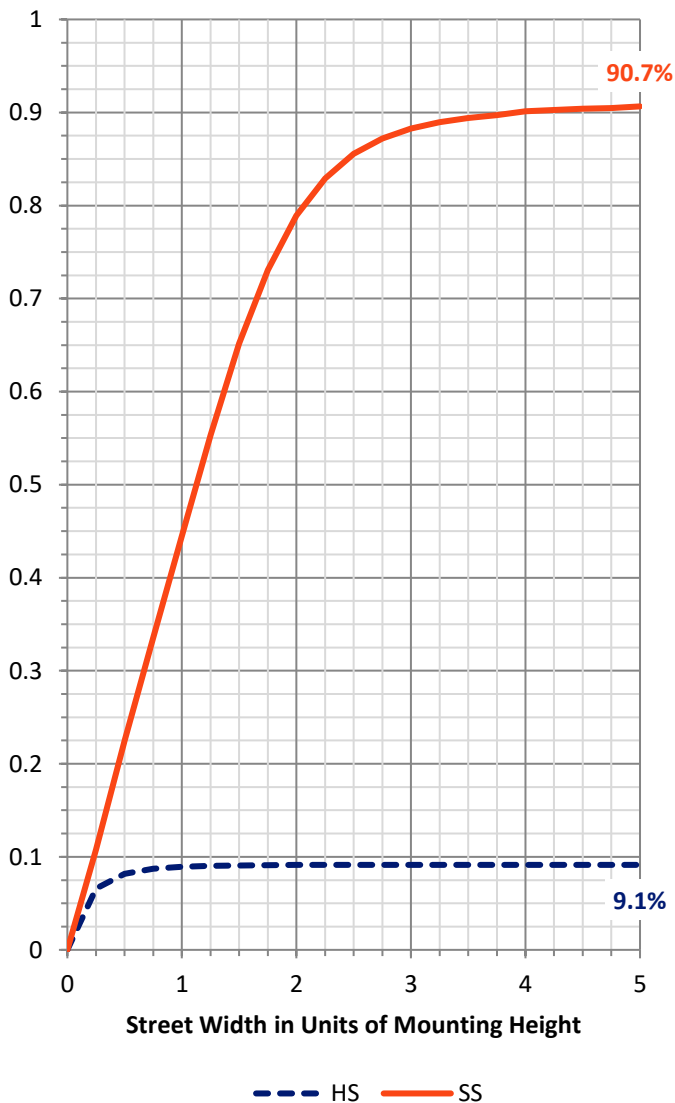
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	322.7	0.0	322.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3180.0	0.0	3180.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	3502.8	0.0	3502.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	0.9
10°-20°	97.6	2.8
20°-30°	165.5	4.7
30°-40°	275.1	7.9
40°-50°	480.4	13.7
50°-60°	938.5	26.8
60°-70°	1088.9	31.1
70°-80°	396.5	11.3
80°-90°	27.9	0.8
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°	3502.8	100.0
0°-180°	3502.8	100.0

**Coefficient of Utilization**

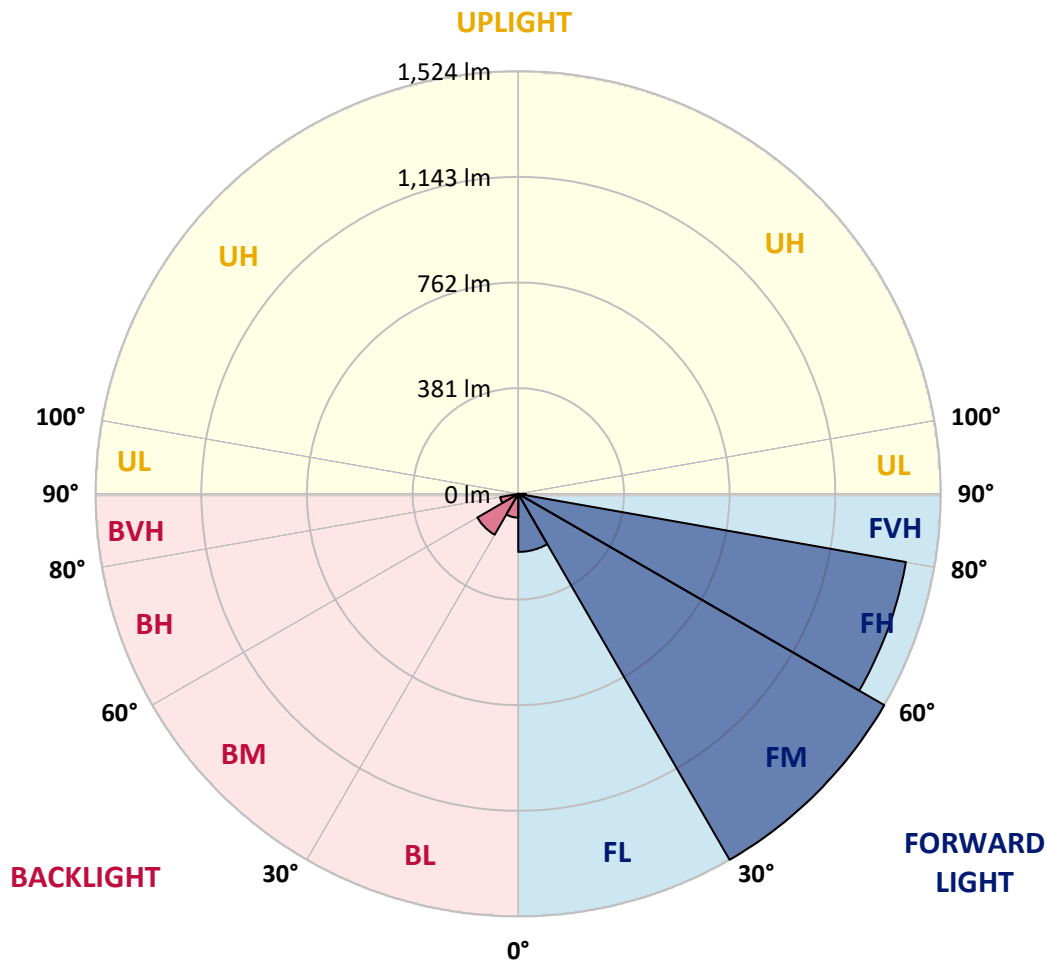


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.5	6.0			
FM (30°-60°)	1523.7	43.5			
FH (60°-80°)	1419.3	40.5			G1/1800
FVH (80°-90°)	27.6	0.8			G1/100
BL (0°-30°)	86.0	2.5	B0/110		
BM (30°-60°)	170.3	4.9	B0/220		
BH (60°-80°)	66.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0
2.5°	366.9	365.3	364.6	360.3	357.1	353.1	353.1	347.9	342.0	335.6	329.8
5°	407.9	405.2	401.7	398.0	390.5	379.8	379.8	369.1	356.8	345.8	333.8
7.5°	447.2	444.8	438.9	431.7	419.4	408.1	407.4	391.8	377.1	360.5	343.4
10°	481.8	479.9	474.8	460.9	448.1	433.4	433.0	415.7	398.5	378.2	357.1
12.5°	505.9	506.1	499.5	486.1	469.4	455.6	454.5	437.3	419.4	397.5	371.5
15°	523.0	523.0	516.0	501.1	486.1	473.7	472.6	457.7	439.3	415.4	387.3
17.5°	527.8	529.4	521.9	508.6	496.5	485.8	485.5	473.0	458.3	435.2	403.3
20°	526.0	527.6	521.7	511.2	502.9	496.8	495.9	490.9	477.3	455.6	420.5
22.5°	521.9	523.5	519.2	513.1	509.1	511.0	509.6	513.9	506.7	480.5	440.9
25°	522.8	524.4	521.1	517.6	521.1	532.6	536.1	554.6	548.2	512.0	462.8
27.5°	547.9	551.1	546.6	548.2	560.4	587.3	593.9	625.8	597.4	552.2	497.0
30°	603.8	601.7	593.2	600.9	643.7	700.5	698.6	693.5	649.1	598.5	537.7
32.5°	654.7	652.8	652.3	685.8	763.4	791.0	789.6	740.3	695.3	651.4	577.9
35°	675.3	668.1	666.5	747.6	877.3	841.0	832.7	759.6	751.6	709.3	618.8
37.5°	737.4	732.3	707.4	757.7	831.8	819.8	813.4	792.8	811.6	760.4	665.1
40°	865.3	851.2	828.6	779.4	767.3	772.5	778.9	835.4	882.5	830.2	727.0
42.5°	1024.3	1021.1	979.3	887.5	797.4	804.3	812.6	924.2	984.5	935.4	827.9
45°	1215.2	1219.7	1159.5	1051.1	932.8	938.6	950.7	1055.4	1122.6	1099.0	986.6
47.5°	1388.6	1385.1	1364.8	1252.1	1142.9	1129.8	1149.3	1223.7	1313.6	1317.4	1183.5
50°	1563.1	1581.6	1551.3	1507.2	1426.1	1398.5	1391.3	1427.7	1564.7	1546.8	1420.2
52.5°	1813.9	1823.5	1766.8	1755.5	1774.0	1684.6	1677.4	1686.2	1808.8	1747.3	1597.4
55°	1971.6	1965.9	1944.8	2032.5	2105.6	1994.0	1984.9	1949.4	2011.4	1888.8	1767.9
57.5°	2021.3	2029.3	2078.6	2237.3	2410.2	2315.4	2298.9	2197.7	2157.6	2020.8	1924.7
60°	1999.1	2013.9	2120.1	2356.1	2596.0	2581.8	2567.6	2397.6	2262.5	2131.1	2034.7
62.5°	1840.9	1861.6	2031.5	2335.0	2658.9	2747.5	2729.8	2522.4	2332.3	2184.6	2054.0
65°	1542.7	1558.0	1802.1	2143.1	2569.5	2804.2	2797.8	2561.4	2343.3	2135.6	1922.0
67.5°	1099.8	1151.7	1377.9	1806.1	2305.0	2707.3	2718.3	2514.6	2240.3	1923.9	1591.8
70°	691.4	726.7	888.9	1293.0	1847.8	2375.2	2411.3	2300.2	1944.2	1499.7	1065.5
72.5°	329.8	356.0	471.6	818.5	1304.3	1868.8	1897.4	1888.3	1503.5	944.8	549.8
75°	146.9	156.8	225.1	417.8	842.0	1256.1	1330.2	1342.6	939.5	462.2	213.9
77.5°	74.9	75.2	105.5	202.3	420.5	749.4	764.1	807.3	509.3	203.7	74.4
80°	39.9	42.6	55.9	95.5	218.2	369.1	367.2	403.6	225.9	99.8	24.9
82.5°	17.9	19.8	31.6	50.0	106.6	139.9	151.0	165.2	96.9	63.7	10.9
85°	5.4	6.4	15.6	25.1	38.5	40.5	45.2	58.4	54.8	45.2	5.6
87.5°	0.8	0.8	6.4	7.0	5.6	7.2	7.5	8.3	17.7	16.6	2.9
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°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0
2.5°	326.6	324.6	318.0	312.3	307.6	304.6	301.1	299.0	297.9	297.1	297.4
5°	327.9	323.4	311.8	302.7	295.8	288.3	283.2	280.2	278.9	276.8	276.8
7.5°	335.4	328.2	312.1	298.1	286.1	275.9	266.3	262.8	260.5	259.9	259.4
10°	346.1	337.0	315.0	295.8	278.6	264.7	251.0	239.0	229.7	224.0	223.2
12.5°	359.4	346.3	319.6	294.2	272.2	247.6	211.4	187.1	170.7	165.7	166.5
15°	371.8	357.6	324.1	292.8	260.5	205.3	164.3	136.5	128.2	127.4	127.7
17.5°	386.5	369.6	329.5	290.9	228.1	156.8	122.0	114.5	116.1	118.8	118.6
20°	401.7	382.5	335.9	279.7	182.0	118.1	107.9	108.7	111.1	113.5	114.0
22.5°	418.1	397.2	343.4	252.6	138.9	102.8	102.3	103.3	105.7	108.4	108.9
25°	440.6	415.7	349.0	217.3	105.2	95.0	96.1	98.0	100.1	103.0	103.6
27.5°	469.4	440.6	352.0	171.3	91.0	88.1	88.3	91.0	93.7	96.4	96.4
30°	507.0	470.3	346.1	129.5	84.0	81.4	80.3	81.9	85.4	88.1	88.3
32.5°	540.4	498.4	330.5	99.1	79.0	75.2	72.5	72.8	74.2	75.8	76.0
35°	573.8	525.7	304.0	83.3	73.6	69.3	65.3	63.2	62.1	61.3	62.1
37.5°	616.7	559.7	268.7	75.8	69.0	63.7	58.1	53.6	49.8	47.3	47.9
40°	671.8	606.8	227.0	70.9	64.8	58.4	50.9	45.0	38.5	36.4	35.3
42.5°	762.8	678.3	183.1	66.9	60.5	52.7	43.4	35.3	29.4	27.3	27.8
45°	906.5	768.4	141.0	62.7	56.2	46.6	36.4	27.8	23.0	22.0	22.5
47.5°	1097.1	885.2	108.7	57.8	50.9	39.9	28.7	22.0	19.0	18.8	18.5
50°	1276.5	993.8	90.7	52.5	44.4	33.2	23.5	18.5	16.6	16.3	16.3
52.5°	1438.6	1071.7	73.8	46.3	37.5	27.3	19.8	16.3	14.7	13.9	13.9
55°	1582.9	1122.6	60.0	38.8	29.4	21.7	17.2	14.7	12.9	11.8	11.5
57.5°	1691.8	1128.7	45.0	31.0	22.0	16.9	14.7	12.9	10.7	9.3	8.8
60°	1738.4	1075.5	33.2	23.5	16.3	13.4	11.8	10.4	8.0	6.7	6.4
62.5°	1691.6	971.9	24.6	17.9	12.6	9.9	8.3	7.7	5.6	4.0	3.8
65°	1523.7	822.2	19.5	13.6	9.3	7.2	5.4	5.0	3.4	1.9	1.6
67.5°	1220.8	644.0	15.6	10.2	6.7	4.8	3.4	3.2	1.9	0.5	0.5
70°	793.9	411.7	12.6	7.5	4.3	3.2	2.1	1.6	1.1	0.3	0.0
72.5°	392.7	192.4	10.2	5.9	2.9	1.6	0.8	0.5	0.8	0.0	0.0
75°	152.3	68.5	7.5	4.0	1.6	0.8	0.5	0.0	0.3	0.0	0.0
77.5°	50.6	22.8	4.5	2.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0
80°	18.8	8.8	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.4	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	2.1	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.6	1.1	0.8	0.5	0.3	0.0	0.0	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)