

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: P647251

Luminaire Tested: **GALN-SA1D-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647251  
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-SA1D-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA 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: 4434.1 lumens  
Efficiency: N/A  
Efficacy: 68.2 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

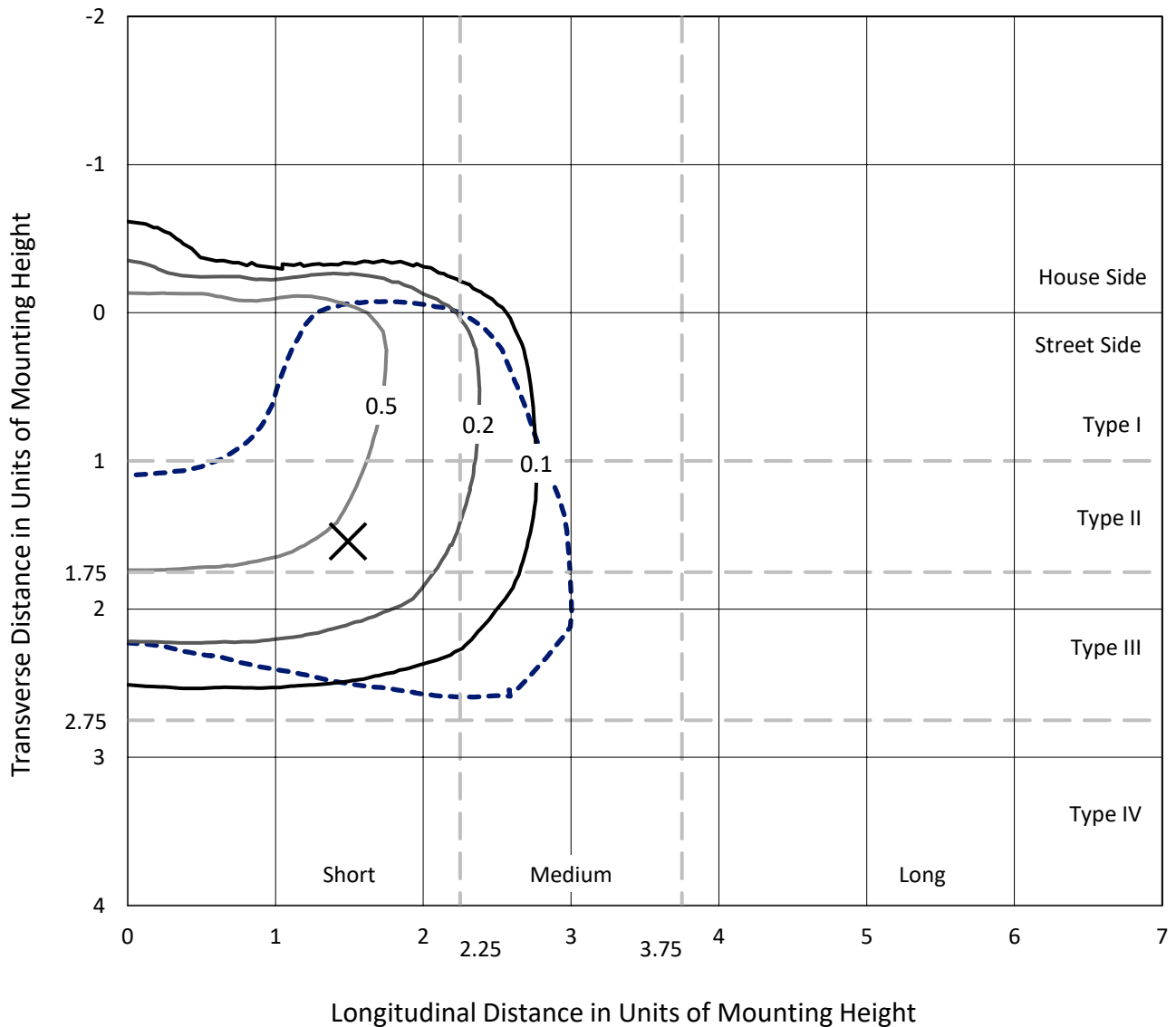
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

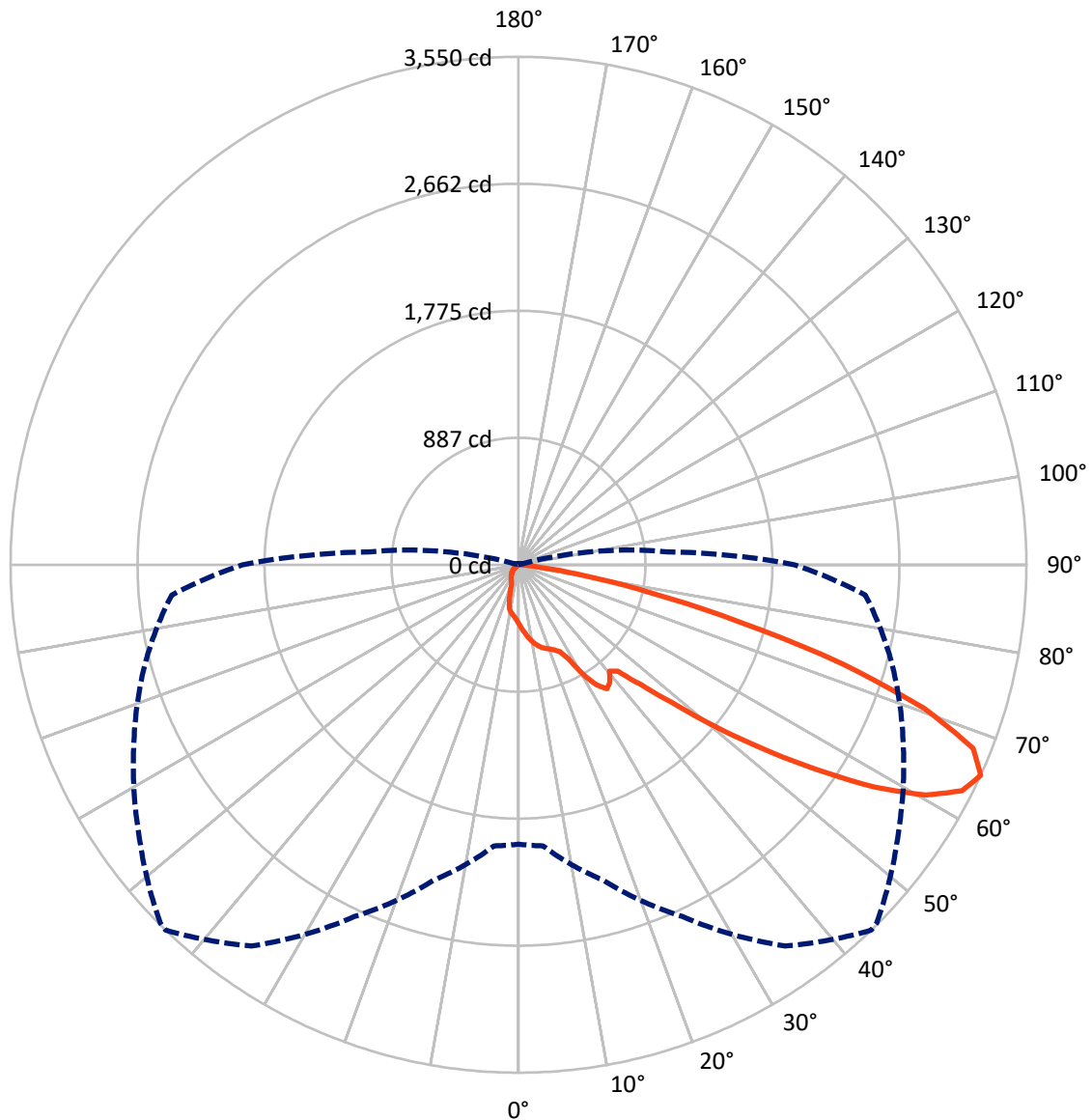
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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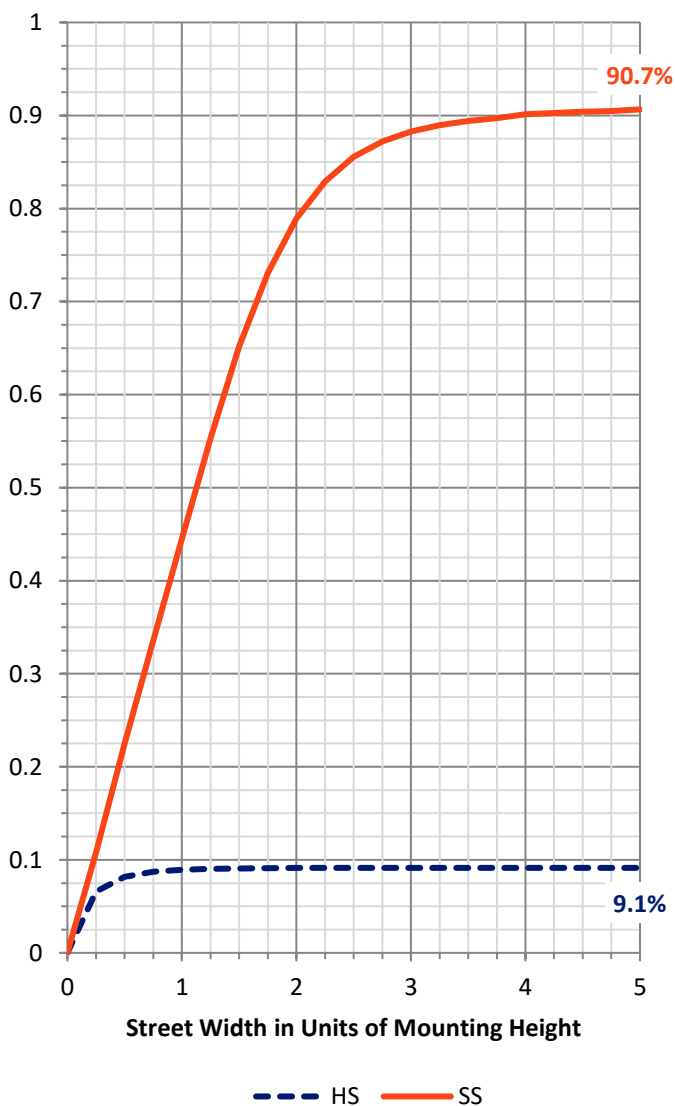
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	408.5	0.0	408.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	4025.6	0.0	4025.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	4434.1	0.0	4434.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	0.9
10°-20°	123.5	2.8
20°-30°	209.5	4.7
30°-40°	348.3	7.9
40°-50°	608.1	13.7
50°-60°	1188.0	26.8
60°-70°	1378.4	31.1
70°-80°	501.9	11.3
80°-90°	35.4	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°	4434.1	100.0
0°-180°	4434.1	100.0

**Coefficient of Utilization**

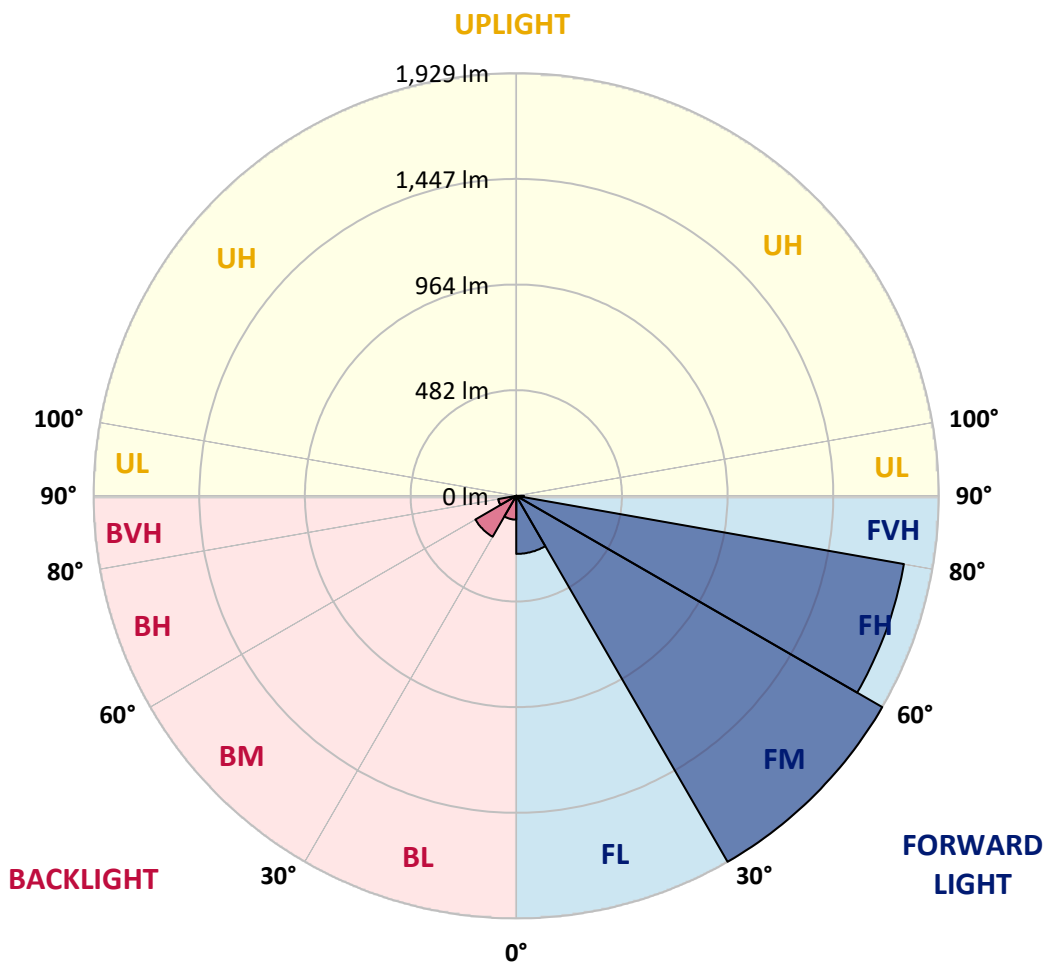


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.2	6.0			
FM (30°-60°)	1928.9	43.5			
FH (60°-80°)	1796.7	40.5			G1/1800
FVH (80°-90°)	34.9	0.8			G1/100
BL (0°-30°)	108.8	2.5	B0/110		
BM (30°-60°)	215.5	4.9	B0/220		
BH (60°-80°)	83.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	464.6	462.5	461.5	456.0	452.0	446.9	446.9	440.4	433.0	424.9	417.4
5°	516.4	512.9	508.6	503.9	494.3	480.8	480.8	467.2	451.6	437.8	422.5
7.5°	566.2	563.1	555.7	546.5	531.0	516.7	515.7	496.0	477.4	456.4	434.7
10°	609.9	607.5	601.1	583.4	567.2	548.6	548.2	526.2	504.5	478.7	452.0
12.5°	640.3	640.7	632.3	615.3	594.3	576.7	575.3	553.7	531.0	503.2	470.3
15°	662.0	662.0	653.3	634.3	615.3	599.7	598.4	579.4	556.0	525.9	490.2
17.5°	668.1	670.2	660.7	643.8	628.5	615.0	614.7	598.7	580.0	550.9	510.6
20°	665.8	667.8	660.4	647.1	636.7	628.8	627.8	621.4	604.1	576.7	532.3
22.5°	660.7	662.7	657.3	649.5	644.4	646.8	645.1	650.5	641.4	608.2	558.0
25°	661.7	663.7	659.7	655.3	659.7	674.2	678.6	702.0	693.9	648.2	585.8
27.5°	693.6	697.7	691.9	693.9	709.5	743.4	751.8	792.2	756.2	699.0	629.2
30°	764.4	761.7	750.8	760.7	814.9	886.7	884.3	877.9	821.7	757.6	680.7
32.5°	828.7	826.4	825.7	868.0	966.3	1001.2	999.5	937.2	880.2	824.7	731.5
35°	854.9	845.7	843.7	946.3	1110.7	1064.6	1054.1	961.6	951.4	897.9	783.4
37.5°	933.5	927.0	895.5	959.2	1053.1	1037.8	1029.6	1003.6	1027.3	962.6	842.0
40°	1095.4	1077.5	1049.0	986.7	971.4	977.8	986.0	1057.4	1117.1	1051.0	920.3
42.5°	1296.6	1292.6	1239.7	1123.5	1009.4	1018.1	1028.6	1170.0	1246.2	1184.2	1048.0
45°	1538.3	1544.0	1467.8	1330.6	1180.8	1188.3	1203.5	1336.0	1421.0	1391.2	1248.9
47.5°	1757.8	1753.4	1727.7	1585.0	1446.7	1430.1	1454.9	1549.1	1662.9	1667.7	1498.3
50°	1978.7	2002.1	1963.8	1907.9	1805.2	1770.4	1761.2	1807.2	1980.8	1958.0	1797.8
52.5°	2296.2	2308.4	2236.6	2222.3	2245.7	2132.6	2123.4	2134.6	2289.7	2211.8	2022.1
55°	2495.7	2488.6	2461.9	2573.0	2665.5	2524.2	2512.7	2467.6	2546.2	2391.0	2237.9
57.5°	2558.8	2568.9	2631.3	2832.2	3051.1	2931.2	2910.2	2782.1	2731.3	2558.1	2436.5
60°	2530.7	2549.3	2683.8	2982.7	3286.3	3268.2	3250.3	3035.1	2864.1	2697.7	2575.8
62.5°	2330.4	2356.5	2571.7	2955.9	3365.9	3478.0	3455.6	3193.1	2952.5	2765.5	2600.1
65°	1953.0	1972.3	2281.3	2712.9	3252.7	3549.8	3541.7	3242.6	2966.4	2703.5	2433.1
67.5°	1392.3	1457.9	1744.3	2286.4	2917.9	3427.2	3441.1	3183.2	2835.9	2435.4	2015.0
70°	875.2	919.9	1125.2	1636.9	2339.2	3006.7	3052.4	2911.8	2461.2	1898.4	1348.9
72.5°	417.4	450.6	597.0	1036.1	1651.1	2365.7	2401.9	2390.4	1903.2	1196.0	695.9
75°	186.0	198.6	284.9	528.9	1065.9	1590.1	1683.9	1699.5	1189.3	585.1	270.7
77.5°	94.9	95.2	133.5	256.1	532.3	948.7	967.3	1021.9	644.8	257.8	94.2
80°	50.5	53.9	70.8	121.0	276.2	467.2	464.9	510.9	286.0	126.4	31.5
82.5°	22.7	25.1	40.0	63.3	134.8	177.2	191.1	209.1	122.6	80.6	13.9
85°	6.8	8.1	19.7	31.9	48.8	51.1	57.2	73.8	69.5	57.2	7.1
87.5°	1.0	1.0	8.1	8.8	7.1	9.2	9.5	10.5	22.4	21.0	3.8
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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	413.3	411.0	402.5	395.4	389.3	385.5	381.2	378.5	377.1	376.1	376.5
5°	415.1	409.3	394.7	383.2	374.4	364.9	358.5	354.8	353.1	350.3	350.3
7.5°	424.5	415.4	395.1	377.5	362.2	349.3	337.2	332.7	329.6	329.0	328.3
10°	438.1	426.6	398.8	374.4	352.7	335.1	317.8	302.6	290.7	283.6	282.6
12.5°	455.0	438.4	404.6	372.4	344.6	313.4	267.7	236.9	216.2	209.8	210.8
15°	470.7	452.7	410.3	370.7	329.6	259.9	208.0	172.8	162.3	161.3	161.6
17.5°	489.3	467.9	417.1	368.3	288.7	198.6	154.5	145.0	147.0	150.4	150.1
20°	508.6	484.2	425.2	354.1	230.4	149.4	136.6	137.6	140.6	143.7	144.3
22.5°	529.2	502.8	434.7	319.9	175.9	130.1	129.4	130.8	133.8	137.3	137.9
25°	557.7	526.2	441.8	275.1	133.2	120.3	121.6	124.0	126.7	130.4	131.2
27.5°	594.3	557.7	445.5	216.8	115.2	111.5	111.8	115.2	118.6	122.0	122.0
30°	641.7	595.3	438.1	164.0	106.4	103.0	101.6	103.7	108.1	111.5	111.8
32.5°	684.1	630.9	418.4	125.4	100.0	95.2	91.8	92.2	93.9	95.9	96.2
35°	726.5	665.5	384.9	105.4	93.2	87.8	82.7	79.9	78.6	77.6	78.6
37.5°	780.7	708.5	340.2	95.9	87.4	80.6	73.5	67.7	63.0	60.0	60.7
40°	850.4	768.1	287.3	89.8	82.0	73.8	64.4	56.9	48.8	46.1	44.7
42.5°	965.7	858.6	231.8	84.7	76.6	66.7	54.9	44.7	37.3	34.5	35.2
45°	1147.6	972.7	178.5	79.3	71.2	59.0	46.1	35.2	29.1	27.8	28.4
47.5°	1388.8	1120.5	137.6	73.2	64.4	50.5	36.3	27.8	24.0	23.7	23.4
50°	1615.9	1258.0	114.9	66.4	56.2	42.0	29.8	23.4	21.0	20.7	20.7
52.5°	1821.2	1356.6	93.5	58.6	47.4	34.5	25.1	20.7	18.6	17.6	17.6
55°	2003.8	1421.0	75.9	49.1	37.3	27.5	21.7	18.6	16.3	14.9	14.6
57.5°	2141.7	1428.8	56.9	39.3	27.8	21.4	18.6	16.3	13.5	11.8	11.2
60°	2200.6	1361.4	42.0	29.8	20.7	16.9	14.9	13.2	10.2	8.5	8.1
62.5°	2141.3	1230.2	31.2	22.7	15.9	12.5	10.5	9.8	7.1	5.1	4.8
65°	1928.9	1040.8	24.7	17.3	11.8	9.2	6.8	6.4	4.4	2.3	2.0
67.5°	1545.3	815.2	19.7	12.8	8.5	6.1	4.4	4.1	2.3	0.7	0.7
70°	1005.0	521.1	15.9	9.5	5.4	4.1	2.7	2.0	1.3	0.3	0.0
72.5°	497.0	243.6	12.8	7.4	3.8	2.0	1.0	0.7	1.0	0.0	0.0
75°	192.8	86.8	9.5	5.1	2.0	1.0	0.7	0.0	0.3	0.0	0.0
77.5°	64.0	28.8	5.8	2.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	23.7	11.2	3.1	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	4.4	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.7	1.3	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	2.0	1.3	1.0	0.7	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)