

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: P450646

Luminaire Tested: **GALN-SA1C-722-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-722-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3839 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

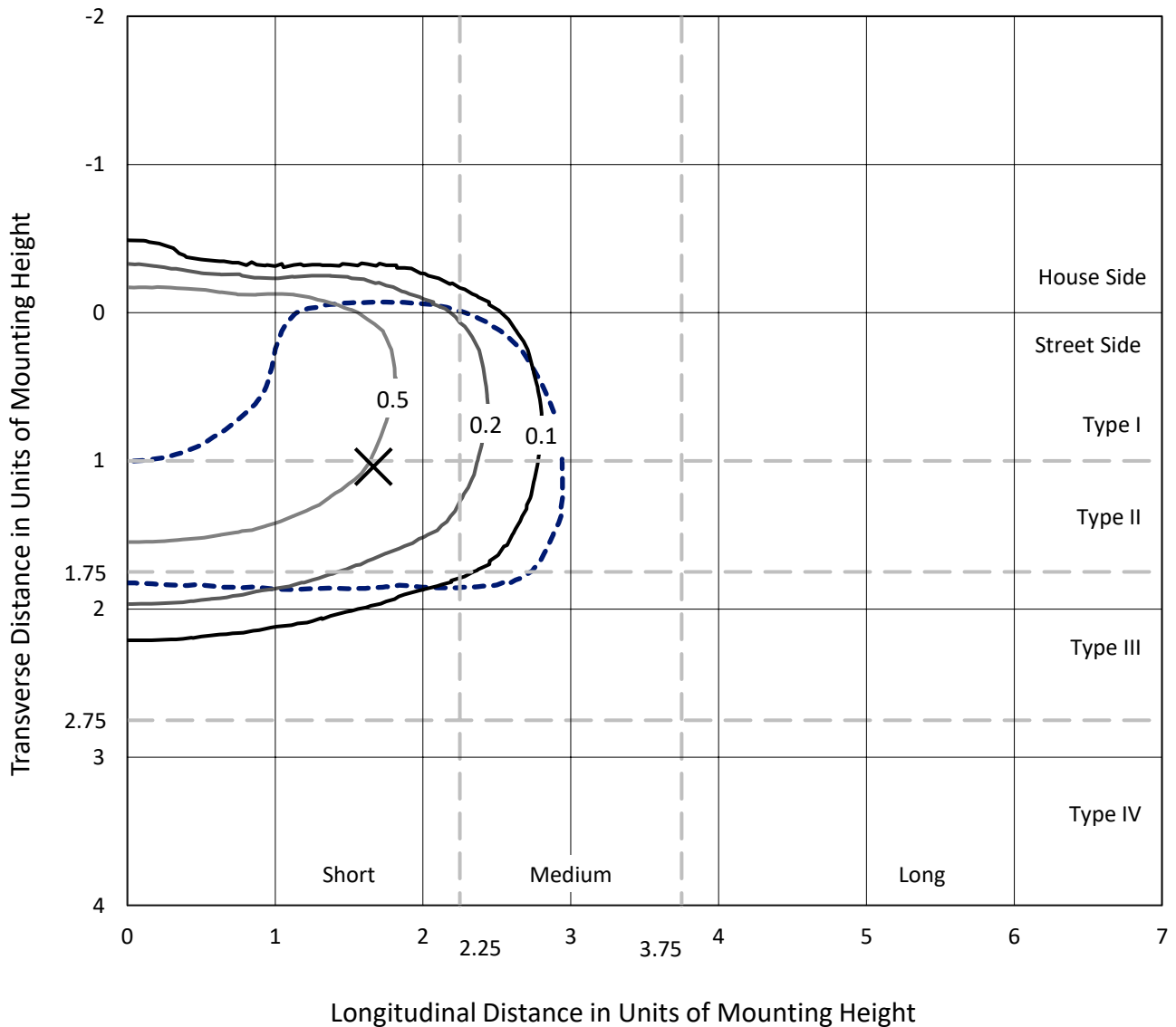
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

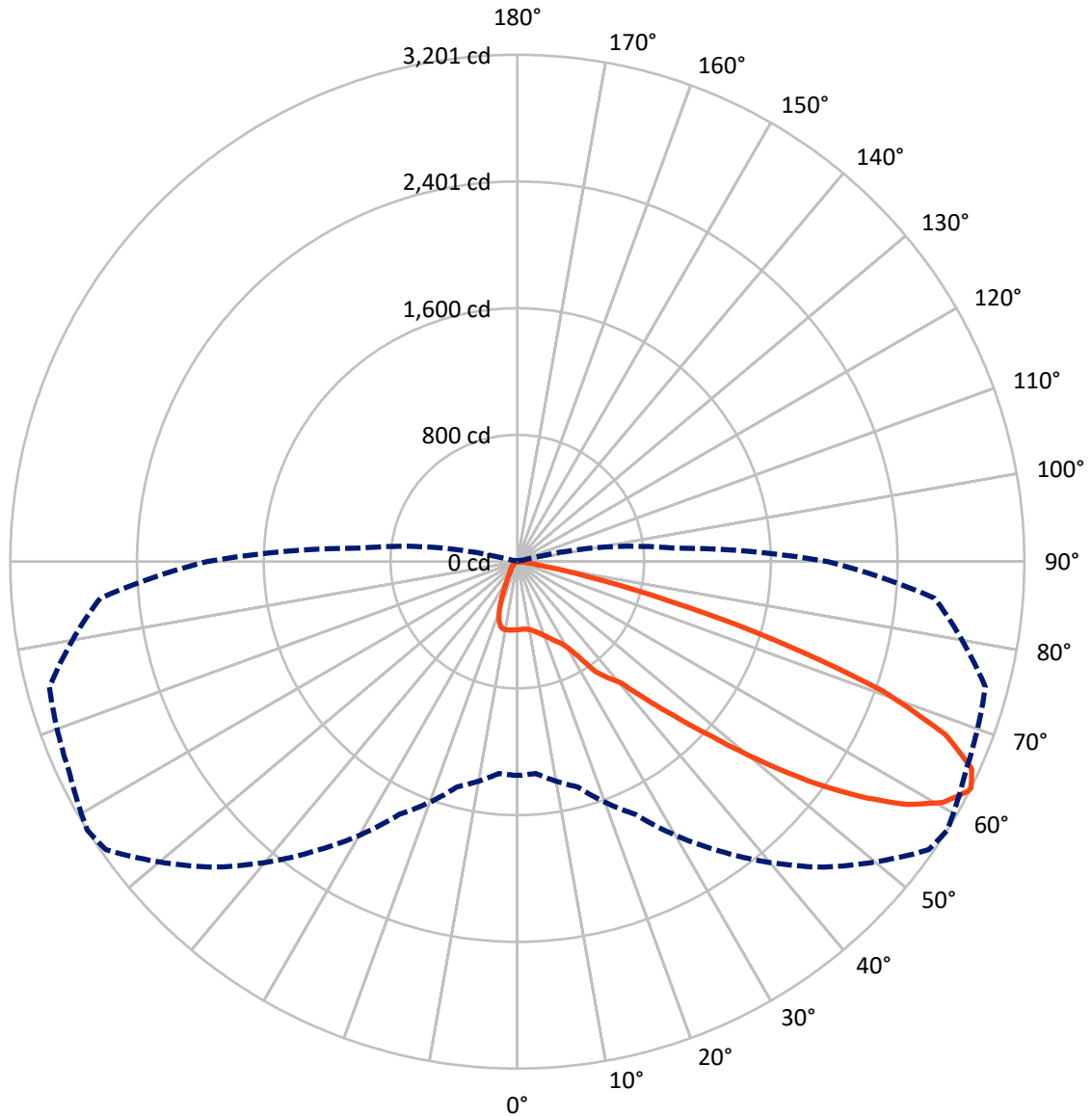
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	397.5	0.0	397.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	3441.5	0.0	3441.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	3839.0	0.0	3839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	109.6	2.9
20°-30°	190.2	5.0
30°-40°	349.5	9.1
40°-50°	657.9	17.1
50°-60°	1125.3	29.3
60°-70°	1077.5	28.1
70°-80°	274.8	7.2
80°-90°	14.0	0.4
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°	3839.0	100.0
0°-180°	3839.0	100.0

**Coefficient of Utilization**



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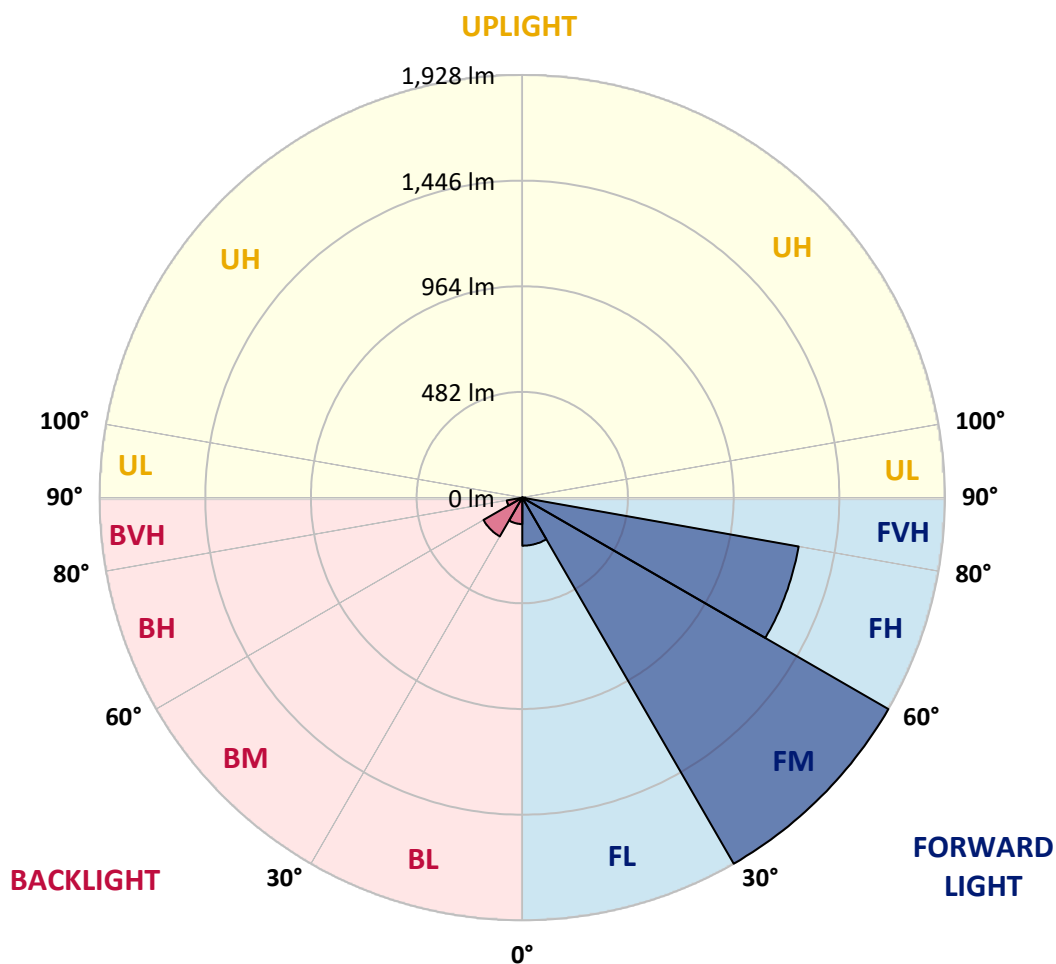
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.5	5.7			
FM	(30°-60°)	1928.3	50.2			
FH	(60°-80°)	1280.3	33.3			G1/1800
FVH	(80°-90°)	13.5	0.4			G1/100
BL	(0°-30°)	120.6	3.1	B1/500		
BM	(30°-60°)	204.5	5.3	B0/220		
BH	(60°-80°)	72.0	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: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8
2.5°	419.1	420.5	422.0	422.6	424.6	426.6	428.1	427.8	430.1	431.2	431.2
5°	402.3	402.3	406.1	409.6	415.3	421.1	426.6	427.8	432.1	436.1	437.6
7.5°	388.2	389.0	391.9	398.3	406.1	416.2	427.2	429.8	437.3	446.3	450.0
10°	381.5	382.1	385.9	392.5	402.3	416.2	431.5	436.4	448.0	462.2	467.4
12.5°	380.1	380.9	384.7	392.2	403.5	420.3	441.1	446.3	463.0	481.2	489.0
15°	382.7	383.3	387.0	395.1	407.5	427.5	453.8	461.0	480.9	502.0	512.2
17.5°	391.9	391.3	394.0	400.6	414.5	436.4	469.1	477.8	501.2	530.1	536.7
20°	431.2	427.5	425.2	419.4	424.9	449.2	487.6	500.3	529.2	558.7	563.3
22.5°	515.9	507.5	491.1	468.5	451.2	466.5	509.9	524.6	561.9	590.8	590.8
25°	623.7	613.0	596.6	547.4	504.9	495.1	535.0	553.5	597.4	626.6	617.1
27.5°	758.7	750.3	718.2	661.0	596.0	545.1	564.2	581.2	628.9	664.2	644.3
30°	868.5	864.5	838.2	787.0	715.4	641.1	618.5	629.8	670.8	711.6	691.1
32.5°	961.3	961.3	934.4	886.8	819.7	753.8	710.7	718.8	758.1	805.2	767.1
35°	1063.3	1059.9	1038.2	992.8	917.7	859.6	842.0	852.9	888.5	923.5	829.5
37.5°	1170.6	1169.4	1146.9	1102.9	1041.7	968.5	927.2	930.1	948.3	969.7	902.6
40°	1287.1	1288.8	1259.3	1232.1	1174.3	1099.5	1020.3	1002.1	1019.1	1079.5	1037.6
42.5°	1424.6	1420.6	1407.9	1370.9	1324.3	1279.5	1184.5	1177.8	1192.8	1257.6	1212.2
45°	1584.5	1590.3	1568.3	1547.8	1516.6	1479.3	1399.8	1388.2	1404.7	1505.3	1440.8
47.5°	1744.6	1739.1	1753.3	1749.5	1766.3	1738.5	1668.3	1644.6	1684.2	1779.6	1684.8
50°	1866.6	1872.6	1902.1	1945.2	2017.2	2032.8	1965.4	1957.3	1975.0	2036.2	1903.0
52.5°	1945.8	1966.0	2012.2	2122.9	2252.7	2353.6	2302.4	2298.1	2290.9	2307.3	2111.7
55°	1997.5	2018.0	2078.4	2241.4	2464.9	2628.7	2631.3	2612.9	2565.2	2553.3	2306.8
57.5°	1965.7	1969.8	2055.9	2273.8	2582.5	2825.0	2910.0	2891.5	2803.3	2758.5	2479.0
60°	1766.9	1775.2	1895.2	2151.3	2531.3	2889.2	3094.7	3086.3	2989.7	2939.2	2613.1
62.5°	1414.5	1438.8	1562.2	1847.8	2293.5	2781.1	3169.5	3193.2	3118.1	3048.4	2655.3
63°	1349.8	1342.0	1472.3	1759.3	2230.5	2727.6	3170.7	3200.7	3123.9	3058.8	2643.8
65°	999.2	1022.6	1107.3	1387.4	1856.2	2478.7	3099.3	3152.5	3102.5	3012.9	2515.7
67.5°	561.0	559.9	653.5	907.9	1299.2	1944.3	2802.5	2914.9	2904.5	2703.6	2085.4
70°	274.6	278.9	317.4	470.5	753.5	1341.4	2328.7	2450.1	2453.9	2123.5	1442.0
72.5°	124.3	126.3	153.8	229.2	387.3	714.2	1604.7	1720.6	1699.2	1353.2	796.3
75°	65.6	69.9	84.7	115.3	186.7	294.5	872.9	985.0	940.2	618.2	293.1
77.5°	48.6	50.0	57.5	73.4	100.0	114.7	376.6	448.0	419.7	223.7	97.1
80°	35.6	36.7	42.8	52.0	63.0	58.4	141.9	162.7	146.0	76.0	29.8
82.5°	21.7	22.0	31.2	38.7	39.6	32.7	46.8	50.3	52.6	42.8	16.2
85°	7.8	9.8	21.1	28.0	23.4	16.5	19.7	21.7	23.7	27.2	9.5
87.5°	0.9	1.2	10.1	13.6	6.6	6.1	7.2	8.1	8.7	10.1	4.6
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°	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8
2.5°	432.4	433.5	432.7	431.2	430.9	430.1	428.3	428.3	428.3	428.9	428.3
5°	438.8	439.6	437.6	434.7	431.5	427.5	423.1	420.5	420.3	419.7	418.2
7.5°	450.9	452.0	447.4	440.5	431.8	422.0	412.7	404.1	400.0	396.8	396.8
10°	468.5	469.7	460.4	448.0	430.7	410.7	388.7	368.8	353.2	346.0	344.2
12.5°	489.6	490.2	474.9	453.2	424.6	386.1	339.3	295.7	265.3	251.5	250.0
15°	512.7	508.7	488.5	455.2	407.2	335.6	254.6	201.2	169.7	160.4	163.9
17.5°	536.2	528.6	498.9	452.0	368.2	254.6	171.1	137.3	127.5	124.9	124.9
20°	558.1	547.7	506.4	438.2	300.6	175.4	126.9	118.8	117.1	115.3	115.6
22.5°	580.1	564.2	513.0	407.2	224.0	125.4	113.6	111.0	108.7	106.4	106.1
25°	601.5	579.5	515.6	350.0	152.6	107.8	103.8	100.3	95.7	93.1	92.5
27.5°	623.7	598.0	513.9	277.8	111.3	96.5	92.5	87.6	82.1	77.5	77.5
30°	666.5	633.3	507.8	199.7	93.6	85.0	79.8	72.0	65.9	61.3	61.0
32.5°	724.9	679.2	487.0	140.5	83.2	74.9	67.1	58.4	52.0	48.6	48.6
35°	776.9	725.5	448.0	103.5	74.9	65.0	55.5	47.1	42.2	39.9	39.0
37.5°	856.1	793.1	394.2	84.1	66.8	56.4	46.5	38.7	34.7	32.9	32.9
40°	974.9	875.8	328.3	73.7	59.0	48.0	38.7	32.7	29.5	27.5	27.5
42.5°	1122.3	976.9	261.6	66.2	51.7	41.3	32.4	27.7	24.9	23.4	23.1
45°	1307.9	1083.6	201.5	59.3	46.0	35.3	27.5	23.4	20.5	19.7	19.9
47.5°	1501.5	1177.5	156.1	53.2	39.9	29.8	23.4	20.2	18.2	17.1	17.1
50°	1666.8	1242.3	118.5	46.2	35.3	25.1	20.5	18.2	16.5	15.9	15.6
52.5°	1805.0	1261.0	90.8	40.2	30.9	21.7	18.2	16.5	15.0	14.2	14.2
55°	1922.6	1244.6	71.1	33.8	26.0	18.8	16.2	14.7	13.0	12.1	11.9
57.5°	1991.4	1191.7	54.3	28.0	21.1	15.6	14.2	12.4	10.4	9.0	9.0
60°	2026.1	1114.8	41.6	23.1	16.2	12.4	11.6	9.2	7.2	6.1	5.8
62.5°	1984.5	1012.8	31.5	18.2	12.1	9.2	7.8	6.6	4.6	3.5	3.5
63°	1958.8	983.3	30.3	17.3	11.3	8.7	7.2	6.1	4.0	3.2	2.9
65°	1785.6	854.7	24.9	13.9	9.0	6.1	4.9	4.3	2.9	1.4	1.2
67.5°	1418.0	653.8	19.7	10.4	6.4	4.3	2.9	2.6	0.9	0.0	0.0
70°	958.7	422.3	15.3	7.5	4.3	2.6	1.4	1.2	0.3	0.0	0.0
72.5°	500.0	216.5	11.9	5.5	2.6	1.7	0.9	0.3	0.0	0.0	0.0
75°	176.9	73.7	8.7	3.5	1.7	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	53.5	27.5	5.5	2.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	18.8	10.1	3.2	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	4.9	2.0	1.4	0.9	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.2	3.2	1.7	1.4	0.9	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.3	1.7	1.4	1.2	0.6	0.3	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)