

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: P529254

Luminaire Tested: **GALN-SA4B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13880 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

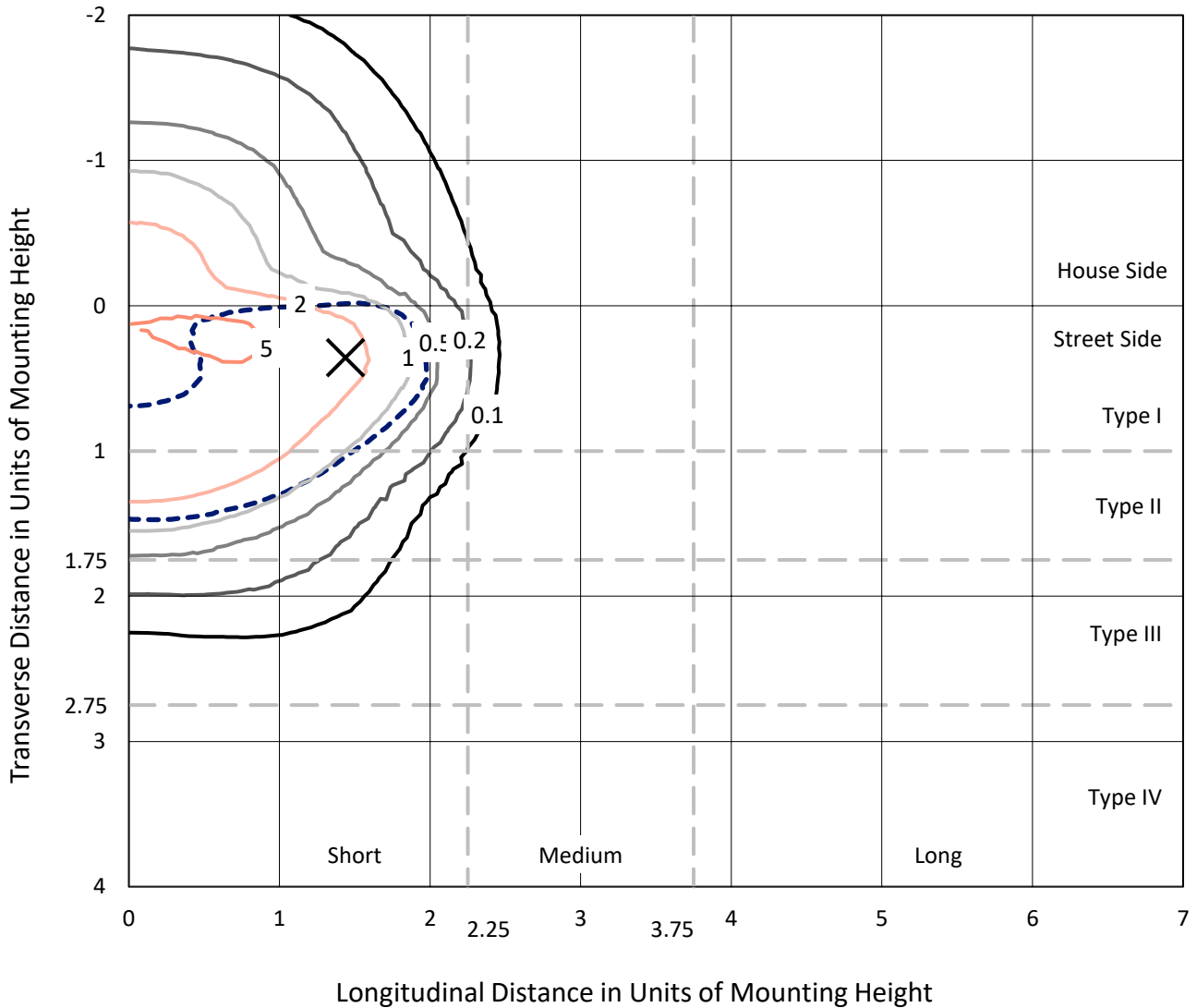
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

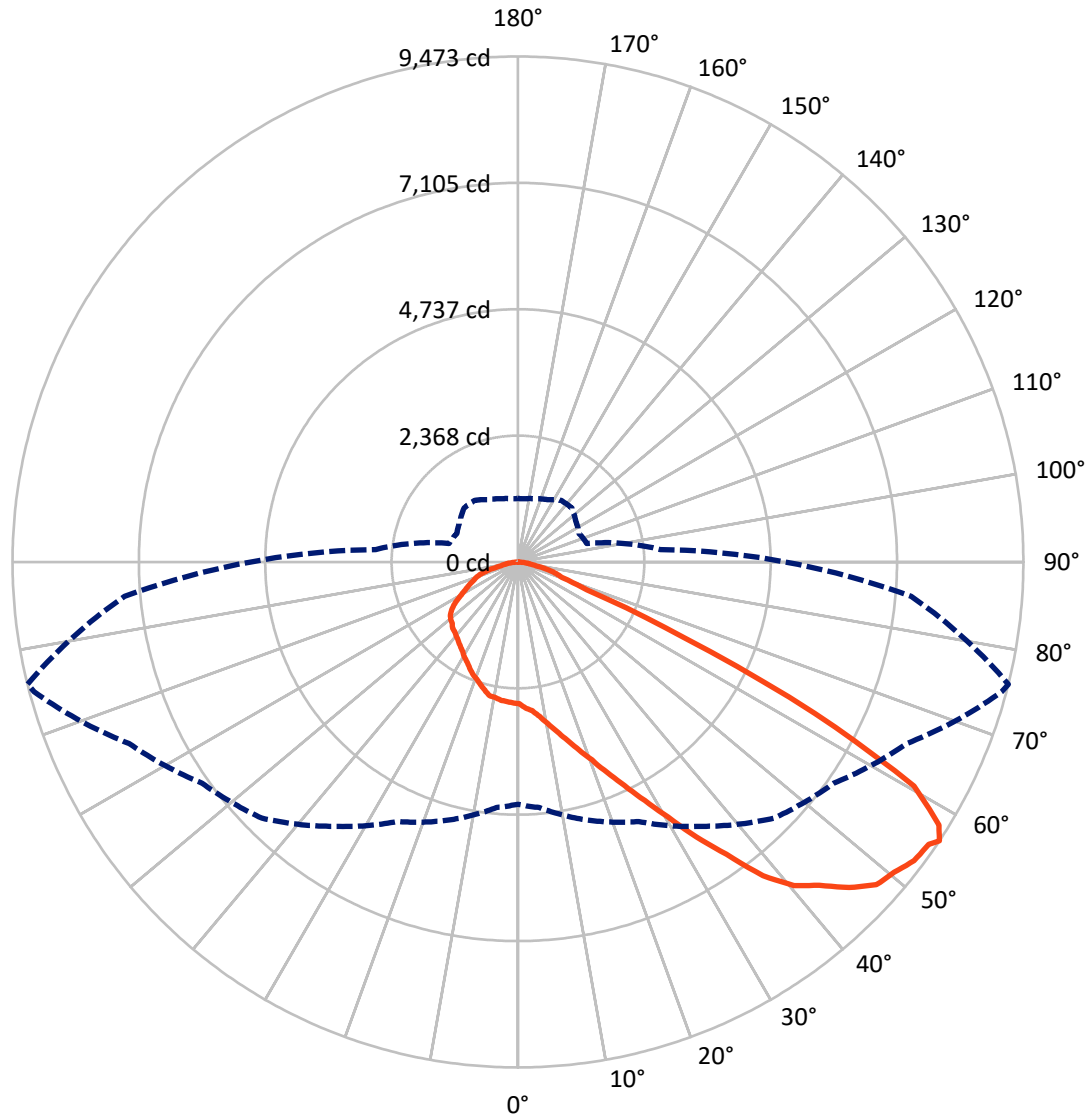
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3731.9	0.0	3731.9
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10148.1	0.0	10148.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	13880.0	0.0	13880.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.4	1.9
10°-20°	827.3	6.0
20°-30°	1446.9	10.4
30°-40°	2265.4	16.3
40°-50°	3295.5	23.7
50°-60°	3622.0	26.1
60°-70°	1616.7	11.6
70°-80°	467.0	3.4
80°-90°	75.8	0.5
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°	13880.0	100.0
0°-180°	13880.0	100.0

**Coefficient of Utilization**



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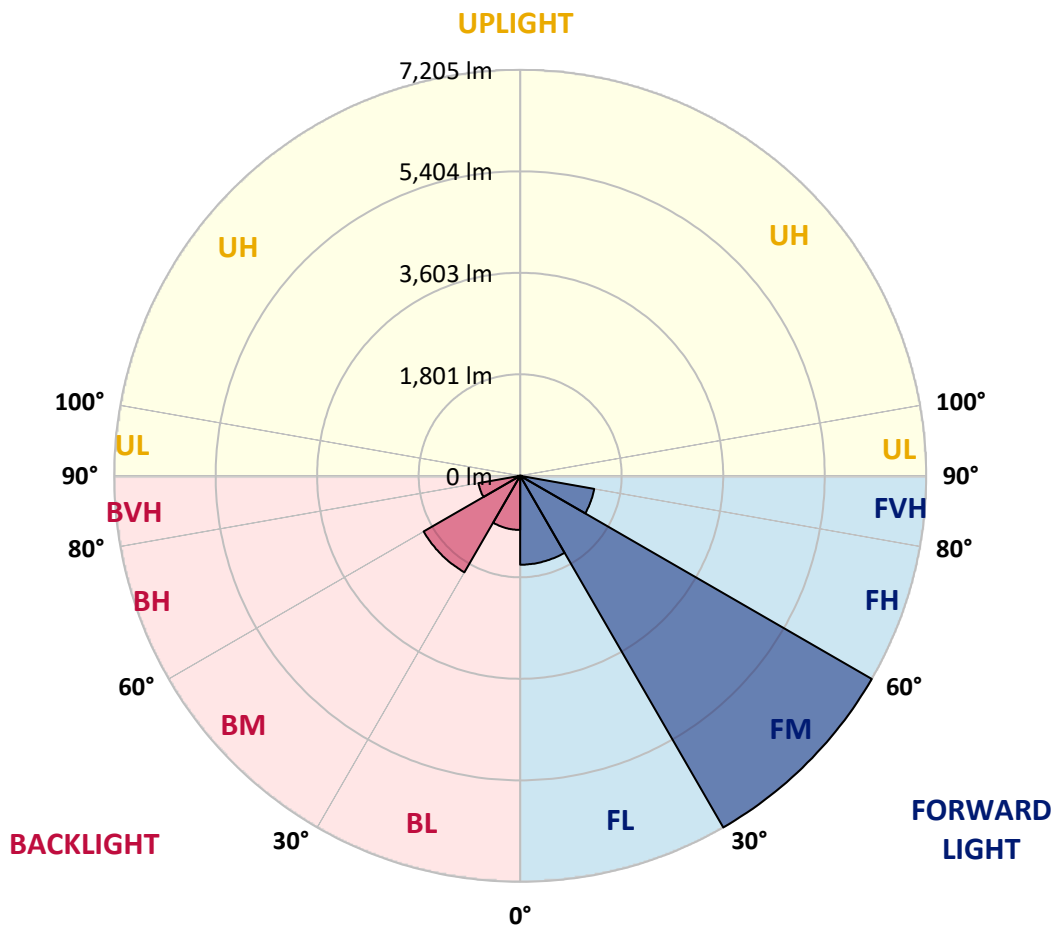
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.3	11.4			
FM (30°-60°)	7205.4	51.9			
FH (60°-80°)	1332.8	9.6			G1/1800
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	960.3	6.9	B2/1000		
BM (30°-60°)	1977.6	14.2	B2/2500		
BH (60°-80°)	750.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	43.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	2925.7	2878.9	2875.3	2862.7	2869.9	2837.5	2803.3	2758.3	2711.5	2740.3	2672.0
5°	3130.8	3067.8	3093.0	3049.8	3055.2	3012.0	2941.8	2889.7	2832.1	2797.9	2749.3
7.5°	3202.7	3208.1	3226.1	3218.9	3183.0	3183.0	3136.2	3044.4	2943.6	2923.9	2842.9
10°	3299.9	3301.7	3281.9	3287.3	3337.7	3314.3	3272.9	3233.3	3103.8	3080.4	2936.4
12.5°	3334.1	3301.7	3334.1	3362.9	3422.3	3454.6	3445.7	3416.9	3278.3	3262.1	3051.6
15°	3339.5	3319.7	3346.7	3411.5	3463.6	3600.4	3668.8	3649.0	3465.4	3467.2	3181.2
17.5°	3314.3	3341.3	3352.1	3407.9	3528.4	3656.2	3854.1	3881.1	3729.9	3706.5	3344.9
20°	3348.5	3328.7	3343.1	3393.5	3553.6	3753.3	4012.4	4190.6	3978.2	3962.0	3514.0
22.5°	3479.8	3452.8	3449.2	3481.6	3596.8	3803.7	4179.8	4500.0	4280.5	4289.5	3724.5
25°	3582.4	3596.8	3584.2	3582.4	3654.4	3879.3	4401.1	4868.9	4690.8	4638.6	3972.8
27.5°	3758.7	3792.9	3767.7	3801.9	3785.7	3992.6	4559.4	5277.3	5133.4	5063.2	4197.8
30°	4003.4	4021.4	3998.0	3998.0	3949.5	4151.0	4703.4	5703.8	5644.4	5549.0	4462.3
32.5°	4325.5	4352.5	4305.7	4278.7	4271.5	4386.7	4962.5	6124.8	6225.6	6144.6	4813.1
35°	4751.9	4735.7	4680.0	4654.8	4557.6	4748.3	5347.5	6608.8	6873.3	6729.4	5237.7
37.5°	5128.0	5102.8	5099.2	4958.9	4982.2	5138.8	5675.0	6975.9	7501.3	7459.9	5685.8
40°	5478.9	5502.2	5540.0	5460.9	5424.9	5597.6	6056.4	7256.6	7988.9	7972.7	6031.2
42.5°	5854.9	5833.3	5899.9	5833.3	5779.3	6024.0	6470.3	7450.9	8417.1	8284.0	6392.9
45°	6400.1	6331.7	6355.1	6360.5	6320.9	6410.9	6641.2	7591.2	8717.6	8703.2	6657.4
47.5°	6855.3	6857.1	6817.5	6786.9	6666.4	6756.4	6831.9	7679.4	9063.1	9039.7	6760.0
50°	7024.4	7001.1	7116.2	7182.8	7190.0	7006.5	6981.3	7728.0	9244.8	9142.2	6862.5
52.5°	6416.3	6437.9	6619.6	7015.5	7244.0	7263.8	7155.8	7828.7	9318.6	9297.0	6945.3
55°	5164.0	5268.3	5567.0	6024.0	6565.6	7161.2	7344.7	7933.1	9358.1	9340.1	7312.3
56°	4539.6	4620.6	5009.2	5367.3	6047.4	6788.7	7226.0	8044.6	9388.7	9473.3	7398.7
57.5°	3654.4	3747.9	4026.8	4433.5	5235.9	6079.8	6898.5	7907.9	9270.0	9302.4	7461.7
60°	2285.1	2294.1	2628.8	2896.9	3461.8	4285.9	5264.7	6880.5	8579.0	8532.3	6702.4
62.5°	1498.8	1500.6	1804.7	2024.2	2281.5	2470.4	3098.4	4563.0	6329.9	6247.2	4771.7
65°	1052.6	1076.0	1311.7	1605.0	1709.3	1610.4	1590.6	2405.7	3535.6	3416.9	2564.0
67.5°	770.1	771.9	980.6	1295.5	1446.6	1225.3	995.0	1174.9	1399.9	1396.3	1187.5
70°	509.2	530.8	690.9	968.0	1140.8	984.2	813.3	840.3	890.7	890.7	883.5
72.5°	296.9	316.7	422.8	613.6	640.5	615.4	644.1	719.7	752.1	750.3	741.3
75°	169.1	178.1	201.5	255.5	318.5	376.1	473.2	545.2	577.6	597.4	574.0
77.5°	99.0	104.4	118.8	145.7	165.5	203.3	257.3	307.7	350.9	345.5	349.1
80°	52.2	52.2	66.6	86.4	115.2	143.9	170.9	199.7	223.1	228.5	233.9
82.5°	30.6	32.4	43.2	63.0	82.8	102.6	131.3	151.1	172.7	174.5	178.1
85°	16.2	18.0	27.0	41.4	55.8	63.0	64.8	61.2	66.6	63.0	72.0
87.5°	5.4	5.4	9.0	7.2	7.2	9.0	10.8	10.8	14.4	14.4	14.4
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°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	2670.2	2670.2	2639.6	2582.0	2573.0	2549.6	2528.0	2526.2	2510.0	2495.6	2488.4
5°	2720.5	2664.8	2619.8	2567.6	2506.4	2477.6	2445.2	2409.3	2394.9	2409.3	2407.5
7.5°	2778.1	2731.3	2596.4	2499.2	2429.0	2400.3	2364.3	2326.5	2330.1	2330.1	2304.9
10°	2833.9	2770.9	2555.0	2430.8	2328.3	2306.7	2286.9	2301.3	2319.3	2322.9	2306.7
12.5°	2927.5	2785.3	2535.2	2362.5	2297.7	2250.9	2263.5	2303.1	2340.9	2330.1	2342.7
15°	2997.6	2797.9	2445.2	2292.3	2211.3	2232.9	2277.9	2304.9	2367.9	2360.7	2373.3
17.5°	3066.0	2805.1	2357.1	2198.7	2164.6	2223.9	2258.1	2335.5	2355.3	2398.5	2414.7
20°	3206.3	2819.5	2267.1	2141.2	2130.4	2198.7	2258.1	2294.1	2337.3	2375.1	2375.1
22.5°	3278.3	2812.3	2207.7	2065.6	2099.8	2143.0	2196.9	2258.1	2258.1	2294.1	2295.9
25°	3368.3	2783.5	2114.2	2029.6	2054.8	2096.2	2157.4	2135.8	2159.2	2159.2	2187.9
27.5°	3470.8	2722.3	2033.2	1964.8	2015.2	2060.2	2069.2	2054.8	2027.8	2024.2	2013.4
30°	3553.6	2646.8	1973.8	1943.2	1984.6	2009.8	1981.0	1950.4	1903.7	1900.1	1874.9
32.5°	3667.0	2553.2	1900.1	1889.3	1936.0	1937.8	1928.8	1882.1	1813.7	1784.9	1756.1
35°	3857.7	2499.2	1844.3	1860.5	1874.9	1869.5	1853.3	1802.9	1734.5	1721.9	1711.1
37.5°	3998.0	2459.6	1786.7	1806.5	1819.1	1826.3	1777.7	1721.9	1723.7	1698.5	1691.3
40°	4156.4	2434.4	1739.9	1748.9	1750.7	1774.1	1714.7	1687.7	1700.3	1684.1	1694.9
42.5°	4359.7	2441.6	1691.3	1684.1	1718.3	1709.3	1680.5	1644.6	1651.8	1603.2	1610.4
45°	4467.7	2490.2	1662.5	1630.2	1667.9	1666.1	1628.4	1594.2	1551.0	1457.4	1461.0
47.5°	4539.6	2502.8	1594.2	1572.6	1612.2	1635.6	1592.4	1513.2	1452.0	1385.5	1369.3
50°	4613.4	2526.2	1561.8	1516.8	1533.0	1588.8	1534.8	1459.2	1399.9	1340.5	1349.5
52.5°	4678.2	2571.2	1498.8	1432.2	1461.0	1522.2	1493.4	1401.7	1336.9	1288.3	1273.9
55°	4966.1	2672.0	1392.7	1306.3	1374.7	1452.0	1435.8	1324.3	1254.1	1228.9	1225.3
56°	5011.0	2675.6	1336.9	1263.1	1326.1	1428.6	1408.8	1290.1	1227.1	1187.5	1189.3
57.5°	5018.2	2632.4	1257.7	1223.5	1277.5	1394.5	1369.3	1263.1	1176.7	1140.8	1130.0
60°	4415.5	2054.8	1158.7	1137.2	1200.1	1290.1	1281.1	1189.3	1092.2	1050.8	1070.6
62.5°	3010.2	1506.0	1081.4	1077.8	1110.2	1198.3	1174.9	1092.2	1011.2	984.2	971.6
65°	1752.5	1142.6	1005.8	991.4	1018.4	1065.2	1081.4	995.0	910.4	892.5	887.1
67.5°	1034.6	944.6	908.6	885.3	876.3	905.0	917.6	867.3	782.7	757.5	779.1
70°	865.5	840.3	842.1	802.5	780.9	761.1	750.3	705.3	635.2	602.8	593.8
72.5°	746.7	735.9	728.7	692.7	672.9	628.0	581.2	536.2	484.0	457.0	458.8
75°	570.4	566.8	570.4	552.4	518.2	482.2	439.0	381.5	341.9	307.7	314.9
77.5°	340.1	350.9	356.3	349.1	334.7	302.3	275.3	237.5	199.7	172.7	169.1
80°	233.9	242.9	251.9	242.9	228.5	205.1	176.3	147.5	120.6	106.2	102.6
82.5°	178.1	187.1	192.5	183.5	165.5	140.3	120.6	100.8	79.2	64.8	61.2
85°	64.8	73.8	72.0	86.4	93.6	90.0	77.4	59.4	45.0	32.4	30.6
87.5°	18.0	16.2	18.0	18.0	18.0	16.2	14.4	14.4	14.4	9.0	7.2
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)