

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: P529494

Luminaire Tested: **GALN-SA4C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17847 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

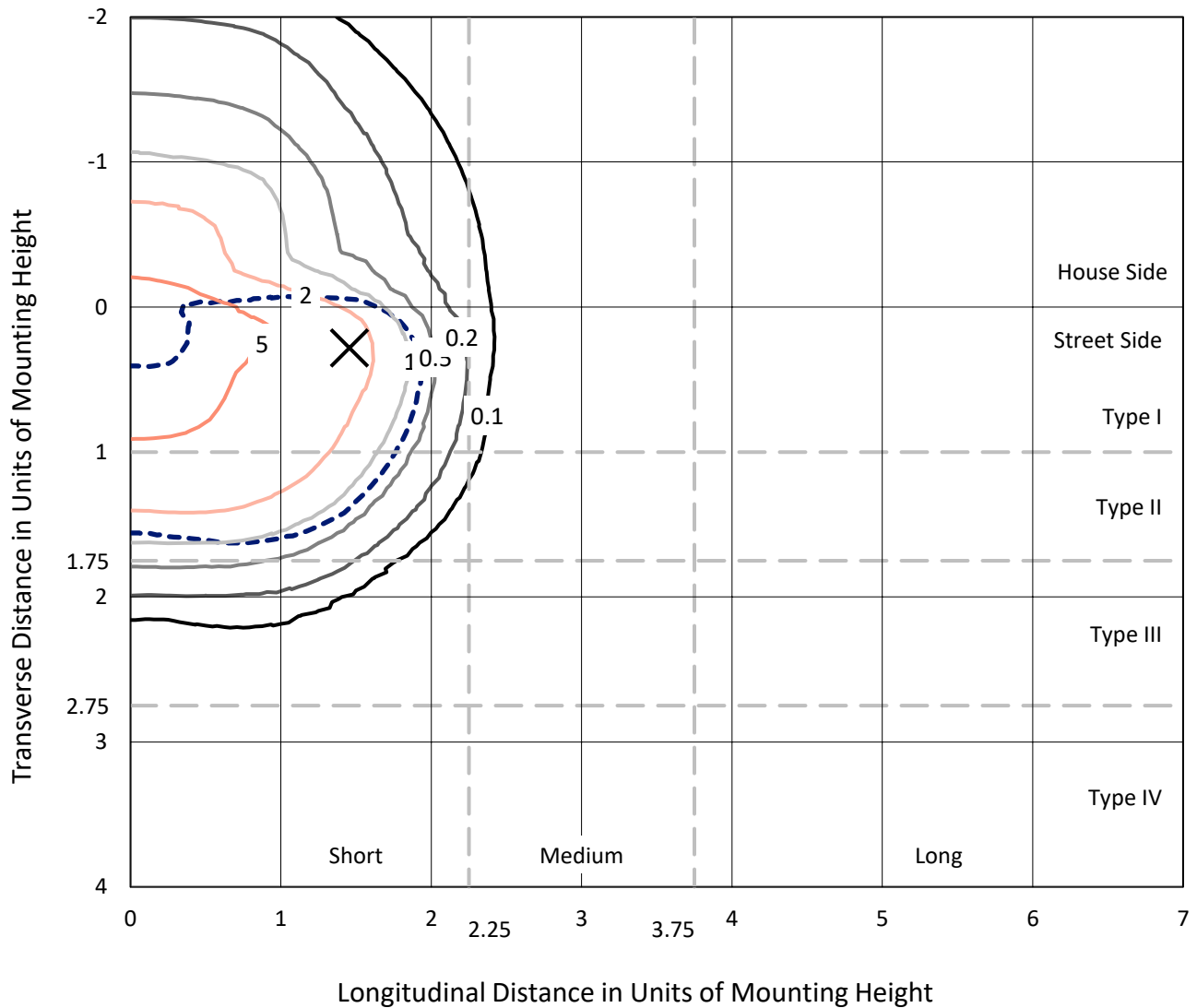
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

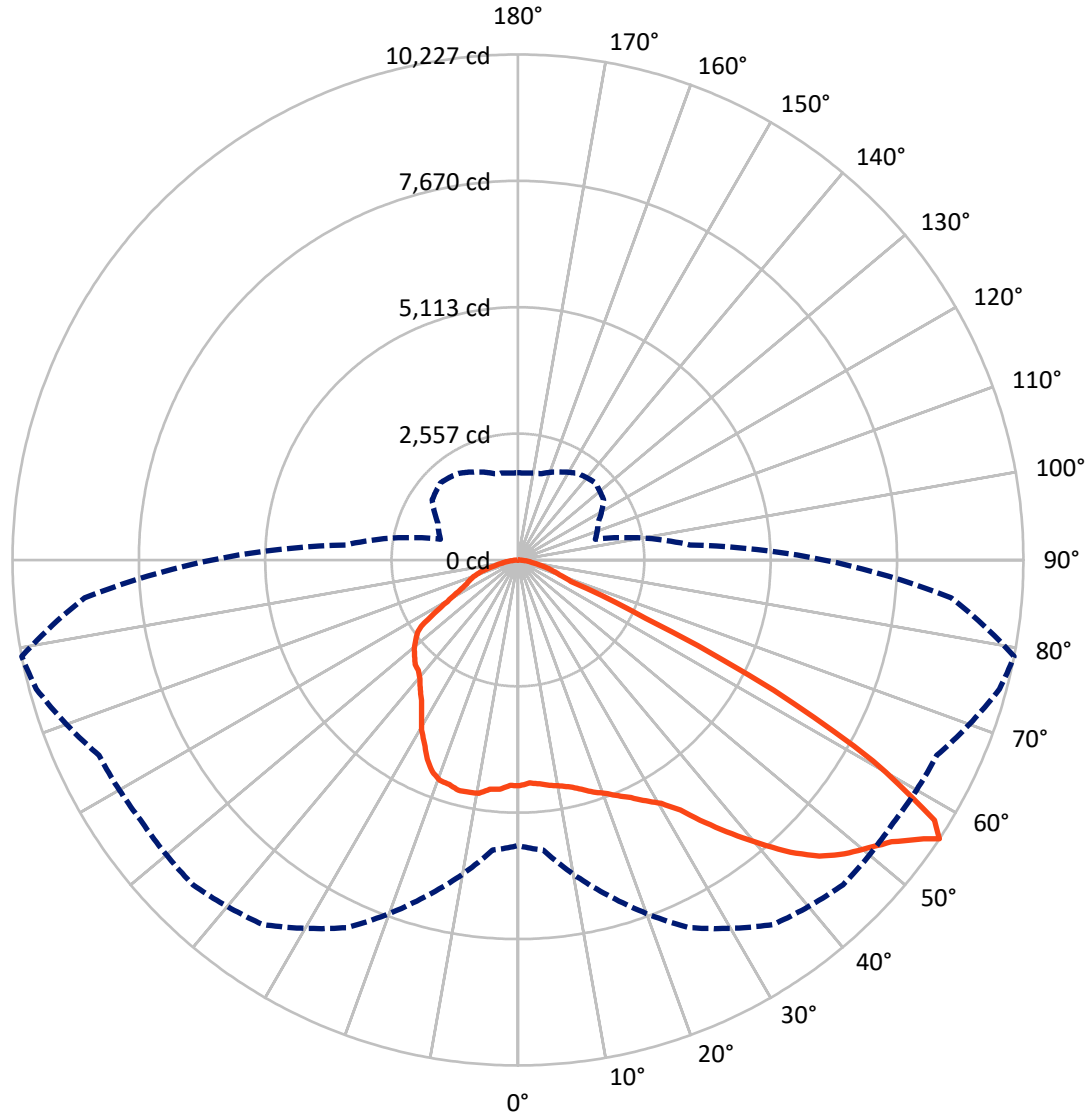
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5270.6	0.0	5270.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12576.4	0.0	12576.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	17847.0	0.0	17847.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.2	2.3
10°-20°	1136.2	6.4
20°-30°	1943.8	10.9
30°-40°	2979.1	16.7
40°-50°	4026.3	22.6
50°-60°	4624.3	25.9
60°-70°	2107.9	11.8
70°-80°	519.7	2.9
80°-90°	94.5	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°	17847.0	100.0
0°-180°	17847.0	100.0

**Coefficient of Utilization**



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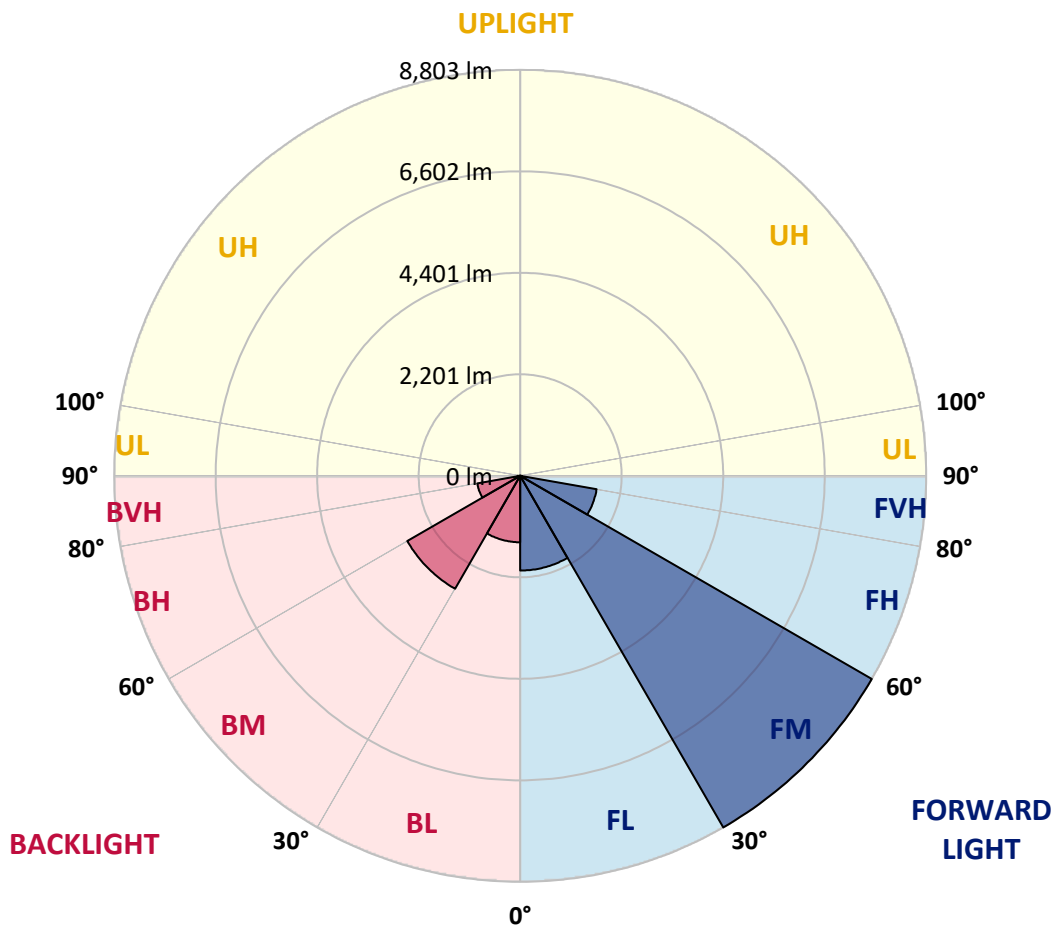
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.4	11.5			
FM (30°-60°)	8802.7	49.3			
FH (60°-80°)	1682.6	9.4			G1/1800
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	1441.7	8.1	B3/2500		
BM (30°-60°)	2827.1	15.8	B3/5000		
BH (60°-80°)	945.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3
2.5°	4344.0	4332.9	4359.6	4379.6	4404.1	4435.2	4450.7	4459.6	4537.4	4517.4	4577.5
5°	4250.7	4221.8	4241.8	4257.3	4299.6	4337.4	4379.6	4446.3	4517.4	4548.6	4621.9
7.5°	4168.4	4152.8	4148.4	4159.5	4217.3	4266.2	4339.6	4437.4	4553.0	4604.1	4646.4
10°	4032.8	4010.6	4043.9	4117.3	4132.8	4235.1	4319.6	4459.6	4559.7	4648.6	4773.1
12.5°	3972.8	3950.5	3957.2	3999.4	4108.4	4206.2	4306.2	4464.1	4675.3	4710.8	4877.6
15°	4068.4	4046.1	4052.8	4041.7	4146.2	4197.3	4355.1	4553.0	4755.3	4815.3	4993.2
17.5°	4286.2	4288.4	4259.5	4235.1	4210.6	4319.6	4428.5	4606.4	4786.4	4937.6	5071.0
20°	4702.0	4628.6	4570.8	4433.0	4395.2	4441.8	4579.7	4750.9	4913.2	5037.6	5188.8
22.5°	5022.1	5028.8	4946.5	4719.7	4637.5	4657.5	4775.3	4915.4	5093.2	5182.2	5355.6
25°	5486.7	5440.0	5351.1	5171.0	4986.5	5002.1	5088.8	5215.5	5264.4	5326.7	5515.6
27.5°	5911.3	5924.7	5749.1	5580.1	5351.1	5306.6	5462.3	5484.5	5402.2	5520.1	5584.5
30°	6342.6	6331.5	6215.9	6018.1	5793.5	5802.4	5871.3	5762.4	5649.0	5713.5	5757.9
32.5°	6789.5	6662.8	6658.3	6480.5	6309.3	6227.0	6142.6	6195.9	6020.3	6033.6	5991.4
35°	7147.4	7165.2	7062.9	6936.2	6851.7	6707.2	6476.0	6571.6	6538.3	6522.7	6340.4
37.5°	7407.5	7338.6	7389.7	7347.5	7267.5	7087.4	6847.3	6938.4	6954.0	7029.6	6818.4
40°	7620.9	7592.0	7727.7	7749.9	7694.3	7305.3	6874.0	7145.2	7378.6	7543.1	7291.9
42.5°	7723.2	7785.5	7927.7	8098.9	7974.4	7558.7	7011.8	7303.0	7823.2	8083.4	7741.0
45°	7861.0	7781.0	7992.2	8305.7	8307.9	7772.1	7145.2	7516.5	8170.1	8548.0	8047.8
47.5°	7721.0	7761.0	7978.9	8376.8	8479.1	7996.7	7505.3	7818.8	8552.4	8888.1	8332.3
50°	7407.5	7487.6	7885.5	8299.0	8608.0	8234.5	7918.8	8145.6	8905.9	9161.6	8379.0
52.5°	7080.7	7125.2	7747.7	8359.0	8665.8	8541.3	8472.4	8596.9	9337.2	9470.6	8436.8
55°	6191.5	6402.7	7291.9	8332.3	8948.2	9094.9	9041.5	9223.8	9826.3	9959.7	8752.5
56°	5780.2	5891.3	7018.5	8207.9	9003.7	9297.2	9270.5	9352.8	10086.4	10226.5	8801.4
57.5°	5019.9	5028.8	5984.7	7656.5	8794.8	9357.2	9330.5	9395.0	10035.3	9939.7	8372.4
60°	3141.3	3279.1	4072.8	5889.1	7478.7	8681.4	8832.6	8314.6	8461.3	8259.0	6513.8
62.5°	1627.3	1607.3	2134.2	3443.7	4964.3	6215.9	6356.0	6331.5	6104.8	5809.1	4255.1
65°	811.4	815.9	1116.0	1705.2	2543.3	3254.7	3646.0	3688.2	3085.7	2839.0	2018.6
67.5°	589.1	611.4	802.6	1042.7	1198.3	1340.6	1642.9	1611.8	1220.5	1160.5	1076.0
70°	458.0	478.0	651.4	795.9	722.5	722.5	787.0	813.7	869.2	893.7	922.6
72.5°	333.5	349.0	498.0	549.1	473.5	509.1	589.1	651.4	709.2	718.1	751.4
75°	229.0	242.3	326.8	302.3	284.6	351.3	431.3	489.1	531.3	553.6	573.6
77.5°	149.0	153.4	186.7	157.8	182.3	226.8	280.1	329.0	371.3	389.1	393.5
80°	66.7	73.4	80.0	100.0	126.7	162.3	200.1	240.1	266.8	273.4	286.8
82.5°	37.8	37.8	48.9	71.1	93.4	117.8	144.5	173.4	204.5	211.2	209.0
85°	20.0	20.0	28.9	42.2	57.8	68.9	66.7	68.9	73.4	84.5	82.3
87.5°	6.7	6.7	8.9	8.9	11.1	13.3	11.1	15.6	20.0	20.0	20.0
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°	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3	4566.3
2.5°	4559.7	4579.7	4553.0	4610.8	4610.8	4599.7	4544.1	4561.9	4575.2	4575.2	4586.3
5°	4646.4	4639.7	4657.5	4588.6	4546.3	4530.8	4439.6	4395.2	4357.4	4355.1	4321.8
7.5°	4695.3	4677.5	4670.8	4619.7	4433.0	4319.6	4123.9	4010.6	3986.1	3899.4	3932.7
10°	4773.1	4806.4	4773.1	4495.2	4235.1	3975.0	3783.8	3608.2	3539.2	3483.7	3450.3
12.5°	4933.2	4917.6	4724.2	4348.5	3983.9	3674.9	3390.3	3205.8	3136.9	3087.9	3083.5
15°	5068.8	4991.0	4695.3	4117.3	3592.6	3263.6	3030.1	2899.0	2867.9	2872.3	2892.3
17.5°	5115.5	5062.1	4544.1	3877.2	3301.4	2914.5	2805.6	2785.6	2814.5	2847.8	2856.7
20°	5188.8	5104.3	4481.9	3550.4	2941.2	2696.7	2690.0	2761.1	2814.5	2863.4	2870.1
22.5°	5342.2	5128.8	4279.6	3241.3	2694.5	2632.2	2696.7	2756.7	2839.0	2879.0	2843.4
25°	5386.7	5075.4	3995.0	2870.1	2538.8	2592.2	2661.1	2743.4	2801.2	2823.4	2839.0
27.5°	5424.5	4993.2	3610.4	2623.3	2489.9	2590.0	2661.1	2730.0	2761.1	2781.2	2798.9
30°	5531.2	4968.7	3276.9	2458.8	2458.8	2545.5	2636.7	2654.4	2696.7	2721.1	2752.3
32.5°	5584.5	4799.8	2934.6	2354.3	2427.7	2567.7	2574.4	2607.7	2610.0	2630.0	2596.6
35°	5724.6	4679.7	2616.6	2278.7	2441.0	2545.5	2578.8	2558.8	2449.9	2396.6	2407.7
37.5°	5826.9	4619.7	2387.7	2269.8	2443.2	2570.0	2587.7	2436.6	2323.2	2234.3	2256.5
40°	6102.5	4470.7	2214.3	2254.3	2463.2	2596.6	2547.7	2383.2	2178.7	2087.5	2072.0
42.5°	6313.7	4364.0	2105.3	2236.5	2478.8	2634.4	2527.7	2276.5	2067.5	1983.0	2005.3
45°	6558.3	4339.6	2047.5	2240.9	2505.5	2654.4	2503.3	2194.2	1971.9	1938.6	1931.9
47.5°	6645.0	4164.0	1985.3	2203.1	2498.8	2647.8	2421.0	2132.0	1936.4	1940.8	1958.6
50°	6500.5	3983.9	1938.6	2125.3	2454.4	2587.7	2292.1	2049.7	1916.4	1971.9	2003.1
52.5°	6316.0	3799.4	1843.0	2020.8	2363.2	2494.4	2232.0	2045.3	1896.3	1878.6	1885.2
55°	6371.5	3648.2	1709.6	1878.6	2216.5	2321.0	2165.3	2003.1	1847.4	1780.7	1803.0
56°	6191.5	3492.6	1622.9	1789.6	2116.4	2209.8	2132.0	1965.3	1807.4	1763.0	1763.0
57.5°	5682.4	2970.1	1509.5	1647.4	1905.2	2016.4	2067.5	1943.0	1763.0	1685.1	1687.4
60°	4190.6	2112.0	1353.9	1451.7	1578.4	1667.4	1905.2	1880.8	1651.8	1598.4	1578.4
62.5°	2583.3	1542.9	1242.7	1280.5	1345.0	1418.4	1662.9	1702.9	1534.0	1476.2	1462.8
65°	1447.3	1180.5	1158.3	1173.8	1204.9	1242.7	1380.6	1469.5	1353.9	1265.0	1260.5
67.5°	1058.2	1056.0	1073.8	1087.1	1100.5	1100.5	1133.8	1169.4	1153.8	1082.7	1076.0
70°	940.4	947.1	960.4	962.6	967.1	951.5	924.8	913.7	931.5	887.0	878.1
72.5°	775.9	798.1	813.7	815.9	791.4	771.4	735.9	698.1	684.7	675.8	673.6
75°	595.8	611.4	618.0	615.8	606.9	578.0	535.8	498.0	473.5	446.9	460.2
77.5°	402.4	424.6	435.7	435.7	422.4	377.9	357.9	329.0	304.6	275.7	280.1
80°	282.3	297.9	315.7	313.5	291.2	269.0	240.1	213.4	193.4	171.2	169.0
82.5°	211.2	220.1	229.0	224.5	209.0	186.7	166.7	142.3	120.0	104.5	104.5
85°	75.6	82.3	100.0	104.5	113.4	113.4	95.6	80.0	64.5	53.4	53.4
87.5°	22.2	22.2	24.5	24.5	22.2	24.5	20.0	22.2	24.5	15.6	15.6
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)