

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: P529414

Luminaire Tested: **GALN-SA4C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23712 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

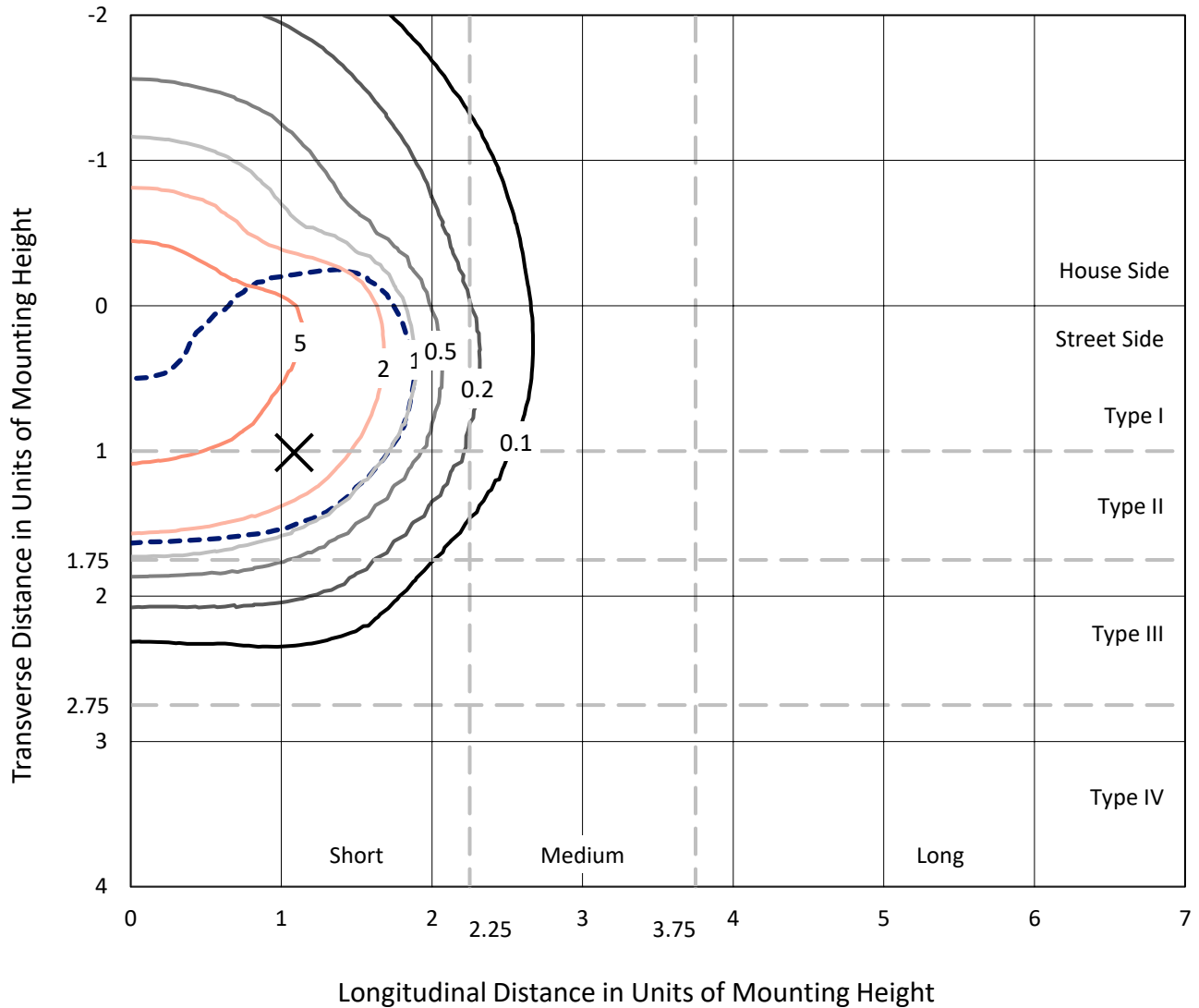
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

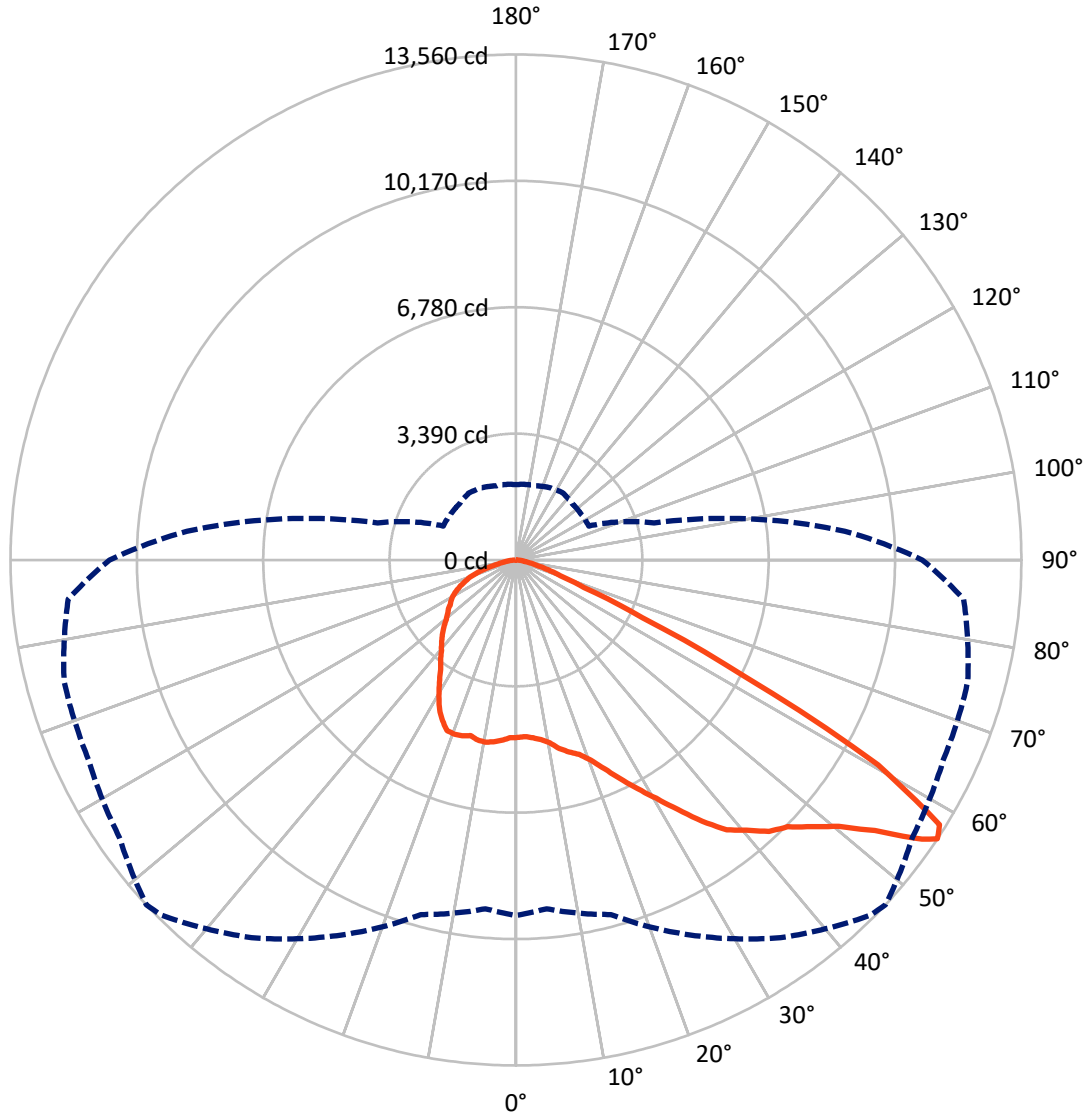
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7514.1	0.0	7514.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16197.9	0.0	16197.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	23712.0	0.0	23712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.1	2.0
10°-20°	1464.0	6.2
20°-30°	2588.0	10.9
30°-40°	3887.0	16.4
40°-50°	5334.6	22.5
50°-60°	6355.4	26.8
60°-70°	2719.7	11.5
70°-80°	769.7	3.2
80°-90°	129.5	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°	23712.0	100.0
0°-180°	23712.0	100.0

Coefficient of Utilization



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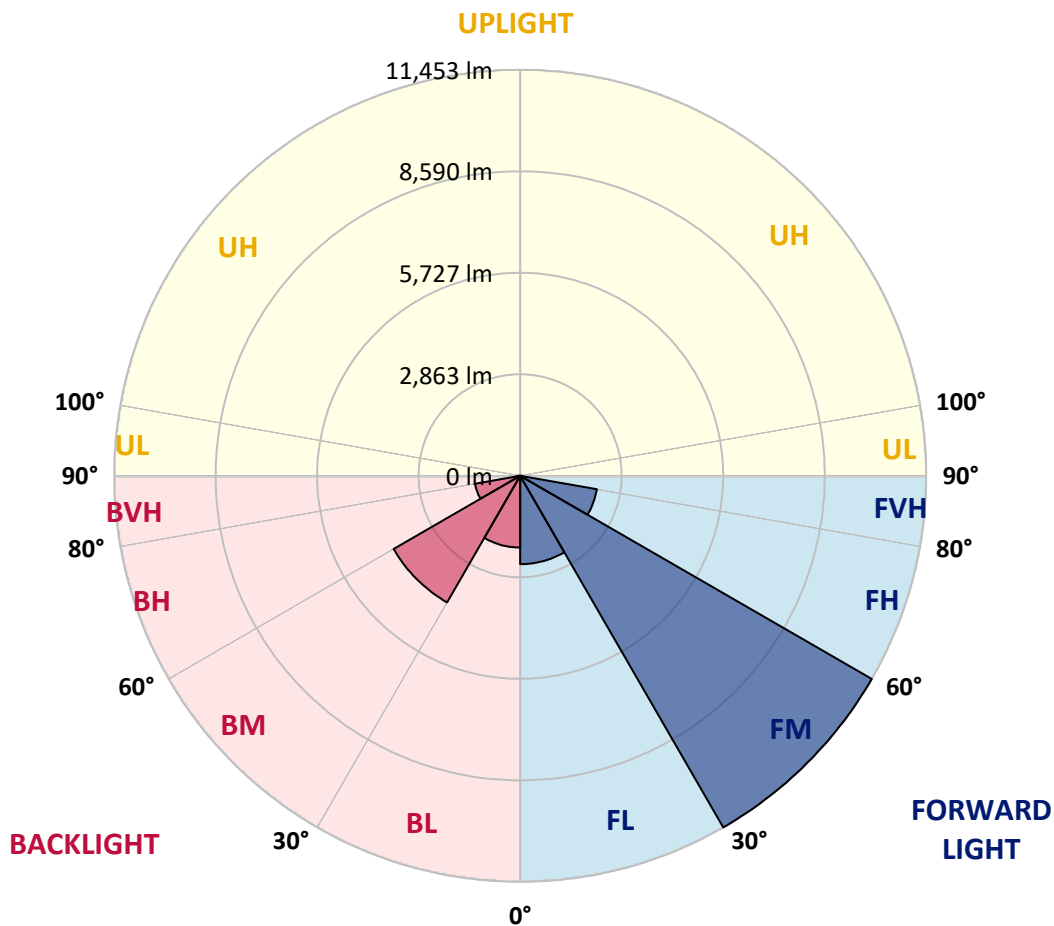
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.9	10.5			
FM (30°-60°)	11453.4	48.3			
FH (60°-80°)	2196.6	9.3			G2/5000
FVH (80°-90°)	55.0	0.2			G1/100
BL (0°-30°)	2023.1	8.5	B3/2500		
BM (30°-60°)	4123.6	17.4	B3/5000		
BH (60°-80°)	1292.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	74.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0
2.5°	4744.9	4735.8	4729.8	4778.1	4760.0	4763.0	4744.9	4763.0	4775.1	4747.9	4787.2
5°	4735.8	4763.0	4738.8	4753.9	4793.3	4781.2	4793.3	4829.6	4820.5	4811.4	4799.3
7.5°	4820.5	4823.5	4841.6	4847.7	4859.8	4847.7	4865.8	4899.1	4890.0	4838.6	4844.7
10°	4941.4	4947.5	4950.5	4983.8	5005.0	5008.0	4986.8	4956.6	4953.5	5023.1	4974.7
12.5°	5080.6	5065.4	5101.7	5113.8	5138.0	5165.2	5192.4	5128.9	5168.3	5171.3	5113.8
15°	5283.2	5298.3	5256.0	5256.0	5265.0	5268.1	5343.7	5313.4	5307.4	5274.1	5298.3
17.5°	5585.6	5482.8	5479.7	5437.4	5431.4	5455.5	5482.8	5507.0	5588.6	5522.1	5392.0
20°	5806.3	5830.5	5742.8	5691.4	5700.5	5754.9	5727.7	5836.6	5894.0	5785.2	5658.2
22.5°	6196.5	6114.8	6136.0	6021.1	6030.1	6087.6	6084.6	6196.5	6229.7	6057.4	5872.9
25°	6459.6	6438.4	6456.5	6365.8	6377.9	6423.3	6495.9	6680.3	6625.9	6435.4	6009.0
27.5°	6843.6	6801.3	6786.2	6752.9	6740.8	6861.8	6946.4	7143.0	7103.7	6825.5	6250.9
30°	7236.8	7209.5	7224.7	7088.6	7137.0	7394.0	7418.2	7687.4	7669.2	7179.3	6520.0
32.5°	7508.9	7524.1	7551.3	7475.7	7690.4	7896.0	7977.7	8283.1	8298.2	7787.2	7040.2
35°	7947.4	7896.0	7911.2	7998.9	8098.6	8473.6	8606.7	8809.3	8936.3	8425.3	7539.2
37.5°	8222.6	8277.1	8213.6	8352.7	8612.8	9063.3	9184.3	9393.0	9526.0	9054.3	8219.6
40°	8652.1	8564.4	8609.7	8709.5	8975.6	9562.3	9529.1	9743.8	9786.1	9589.5	8854.7
42.5°	9114.8	9072.4	9008.9	9235.7	9459.5	9885.9	9952.4	9852.6	10067.4	10112.7	9761.9
45°	9668.2	9719.6	9728.7	9734.7	9931.3	10303.2	10212.5	10124.8	10372.8	10702.4	10324.4
47.5°	10182.3	10019.0	10136.9	10300.2	10578.4	10581.5	10687.3	10478.6	10741.7	11035.1	10832.5
50°	10354.7	10276.0	10433.3	10741.7	11171.2	11216.5	11228.6	10932.3	11068.4	11301.2	11007.9
52.5°	10288.1	10260.9	10663.1	11140.9	11770.0	11999.8	12060.3	11694.3	11770.0	11664.1	11395.0
55°	9970.6	10052.2	10457.5	11431.2	12395.9	13106.6	13221.5	12758.8	12278.0	12359.7	12063.3
56°	9535.1	9393.0	9846.6	11101.6	12368.7	13466.5	13560.2	12982.6	12656.0	12550.2	12057.2
57.5°	8089.6	7905.1	8500.9	9988.7	11682.3	13330.4	13400.0	13076.4	12592.5	12377.8	11177.2
60°	4735.8	4826.5	5582.6	6889.0	9011.9	10929.2	11162.1	11398.0	11074.4	10112.7	8319.4
62.5°	2286.2	2228.8	2770.1	3949.5	5491.8	6976.7	6907.1	7569.4	7932.3	7185.4	5252.9
65°	1197.6	1191.5	1512.1	2156.2	3018.1	3665.3	3728.8	4085.6	4584.6	3701.5	2667.3
67.5°	880.0	904.2	1064.5	1515.1	1941.5	1980.8	1971.7	2150.2	2198.5	1859.8	1639.1
70°	689.5	701.6	819.5	1152.2	1445.5	1294.3	1267.1	1288.3	1430.4	1490.9	1418.3
72.5°	499.0	511.1	610.9	777.2	904.2	883.0	901.2	1019.1	1194.5	1258.0	1182.4
75°	332.7	341.7	396.2	474.8	535.3	577.6	610.9	747.0	910.3	946.6	910.3
77.5°	229.8	238.9	275.2	335.7	341.7	368.9	381.0	444.5	544.3	589.7	565.5
80°	130.0	130.0	148.2	172.4	211.7	248.0	254.0	305.4	350.8	381.0	387.1
82.5°	60.5	63.5	78.6	105.8	139.1	172.4	178.4	211.7	245.0	275.2	284.3
85°	30.2	33.3	45.4	63.5	84.7	102.8	99.8	102.8	108.9	102.8	105.8
87.5°	9.1	9.1	12.1	15.1	12.1	15.1	15.1	18.1	21.2	24.2	27.2
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°	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0
2.5°	4790.2	4799.3	4738.8	4796.3	4775.1	4772.1	4814.4	4808.4	4823.5	4817.5	4781.2
5°	4793.3	4772.1	4835.6	4778.1	4805.4	4862.8	4823.5	4914.2	4868.9	4899.1	4832.6
7.5°	4887.0	4893.1	4881.0	4905.2	4893.1	4920.3	4899.1	4920.3	4884.0	4887.0	4947.5
10°	4968.7	4950.5	4971.7	4941.4	4962.6	4953.5	4905.2	4890.0	4902.1	4887.0	4926.3
12.5°	5119.9	5086.6	5071.5	5035.2	5011.0	4920.3	4844.7	4802.3	4859.8	4868.9	4850.7
15°	5274.1	5277.1	5207.6	5125.9	4974.7	4838.6	4856.8	4871.9	4871.9	4896.1	4850.7
17.5°	5370.9	5370.9	5307.4	5144.1	4989.8	4911.2	4893.1	4844.7	4802.3	4796.3	4793.3
20°	5540.2	5488.8	5343.7	5141.0	4983.8	4947.5	4811.4	4696.5	4608.8	4578.5	4575.5
22.5°	5733.8	5603.7	5401.1	5147.1	4974.7	4923.3	4669.3	4496.9	4339.6	4273.1	4282.2
25°	5912.2	5703.5	5434.4	5119.9	4941.4	4693.5	4409.2	4170.3	4007.0	3952.6	3925.3
27.5°	6036.2	5809.4	5434.4	5144.1	4817.5	4436.4	4146.1	3840.7	3698.5	3662.2	3668.3
30°	6202.5	5942.4	5528.1	5092.7	4569.5	4103.8	3756.0	3556.4	3471.7	3441.5	3462.6
32.5°	6592.6	6290.2	5658.2	4968.7	4276.1	3771.1	3489.9	3378.0	3254.0	3193.5	3172.3
35°	7016.0	6619.8	5785.2	4760.0	3946.5	3468.7	3293.3	3190.5	3042.3	2975.8	2987.9
37.5°	7614.8	7043.2	5794.3	4415.2	3589.7	3299.3	3139.1	2978.8	2857.8	2755.0	2724.8
40°	8422.2	7620.8	5773.1	4052.3	3302.4	3099.7	2981.8	2782.2	2646.1	2573.5	2588.7
42.5°	9132.9	8298.2	5685.4	3641.1	3042.3	2963.7	2830.6	2634.0	2501.0	2425.4	2419.3
45°	9731.7	8797.2	5519.1	3290.3	2824.5	2812.5	2658.2	2507.0	2401.2	2331.6	2361.9
47.5°	10285.1	9199.4	5268.1	2939.5	2625.0	2649.1	2501.0	2407.2	2340.7	2277.2	2274.2
50°	10484.7	9193.4	5047.3	2649.1	2464.7	2452.6	2446.5	2346.7	2277.2	2222.7	2246.9
52.5°	10817.3	9296.2	4808.4	2449.6	2319.5	2322.5	2343.7	2271.1	2192.5	2159.2	2189.5
55°	11295.2	9311.3	4282.2	2216.7	2198.5	2219.7	2219.7	2171.3	2104.8	2077.6	2062.5
56°	10905.0	8860.7	3840.7	2156.2	2138.1	2138.1	2195.5	2141.1	2059.4	2038.3	2020.1
57.5°	10058.3	7763.0	3214.7	2083.6	2056.4	2098.8	2129.0	2071.5	1995.9	1965.7	1983.8
60°	6937.4	5252.9	2416.3	1926.4	1926.4	1995.9	2020.1	1935.4	1902.2	1899.2	1875.0
62.5°	4049.3	3060.4	1890.1	1784.2	1790.3	1847.7	1865.9	1817.5	1775.2	1826.6	1850.8
65°	2147.1	1826.6	1620.9	1633.0	1636.1	1681.4	1760.0	1757.0	1754.0	1769.1	1772.1
67.5°	1554.4	1518.1	1472.8	1460.7	1466.7	1500.0	1578.6	1639.1	1636.1	1599.8	1572.6
70°	1385.1	1333.6	1306.4	1309.5	1285.3	1324.6	1388.1	1427.4	1357.8	1315.5	1297.4
72.5°	1152.2	1137.1	1118.9	1122.0	1073.6	1064.5	991.9	991.9	973.8	961.7	982.8
75°	880.0	874.0	883.0	867.9	816.5	762.1	719.7	680.4	619.9	595.8	583.7
77.5°	556.4	574.6	595.8	562.5	541.3	502.0	459.7	420.4	372.0	344.8	344.8
80°	378.0	393.1	408.3	402.2	378.0	341.7	308.5	266.1	232.9	211.7	208.7
82.5°	287.3	299.4	320.6	296.4	272.2	241.9	214.7	184.5	154.2	130.0	130.0
85°	102.8	117.9	130.0	142.1	151.2	154.2	133.1	108.9	87.7	69.6	66.5
87.5°	27.2	30.2	33.3	30.2	30.2	30.2	33.3	30.2	27.2	21.2	21.2
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)