

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: P529376

Luminaire Tested: **GALN-SA4C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21959 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

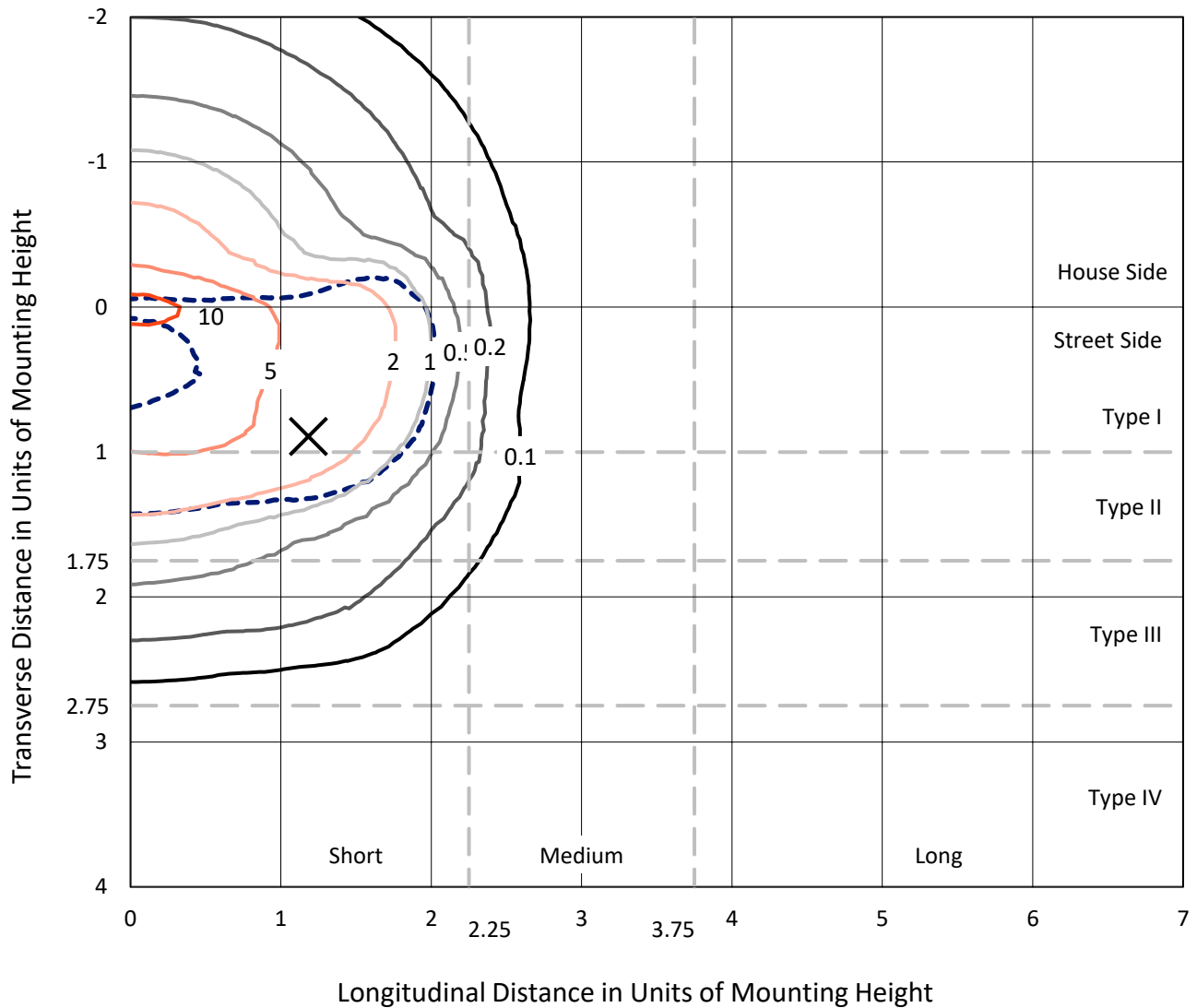
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

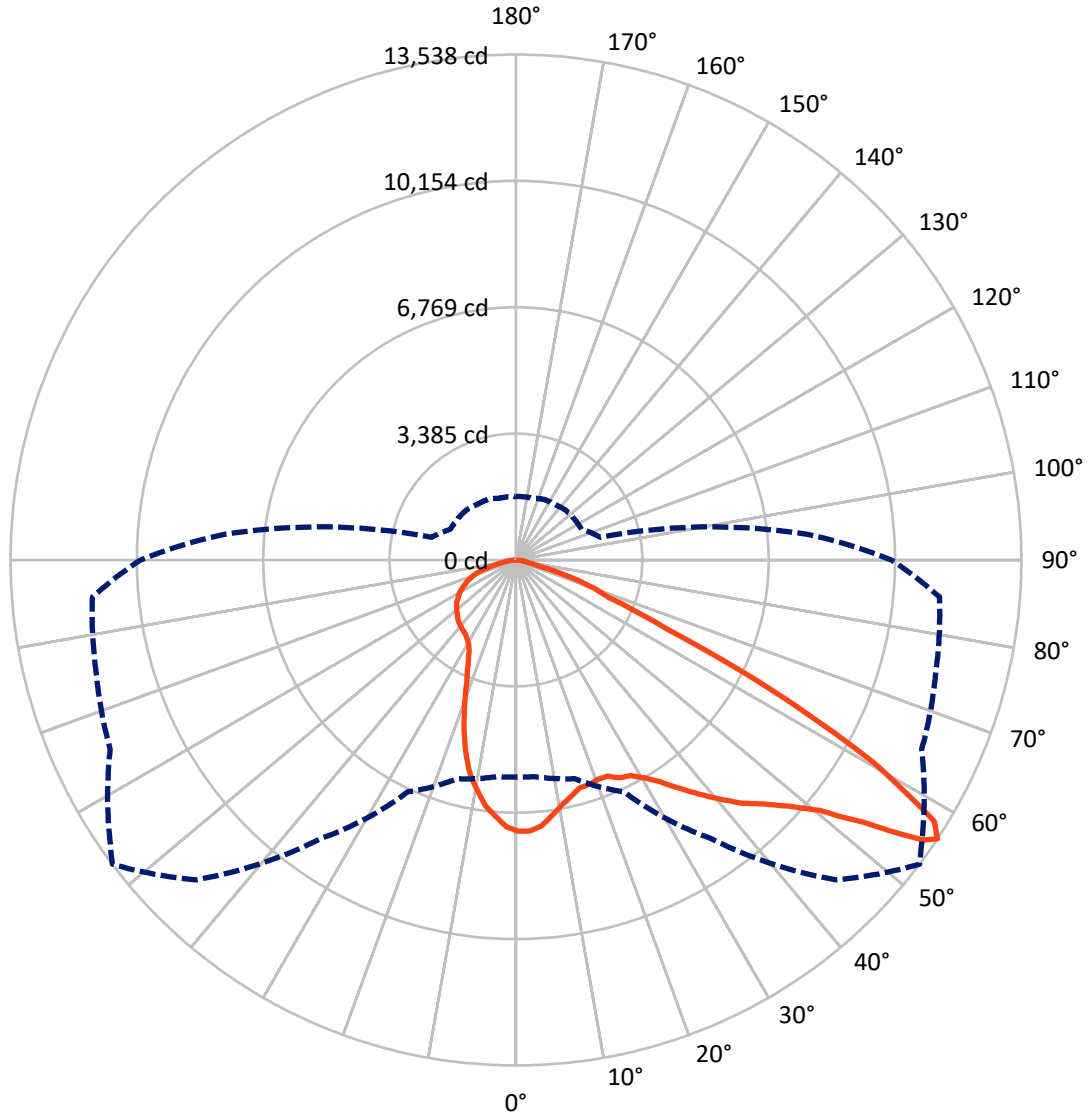
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6408.1	0.0	6408.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15550.9	0.0	15550.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	21959.0	0.0	21959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.1	2.9
10°-20°	1606.3	7.3
20°-30°	2368.6	10.8
30°-40°	3384.3	15.4
40°-50°	4658.1	21.2
50°-60°	5504.6	25.1
60°-70°	2933.6	13.4
70°-80°	744.2	3.4
80°-90°	116.1	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°	21959.0	100.0
0°-180°	21959.0	100.0

Coefficient of Utilization

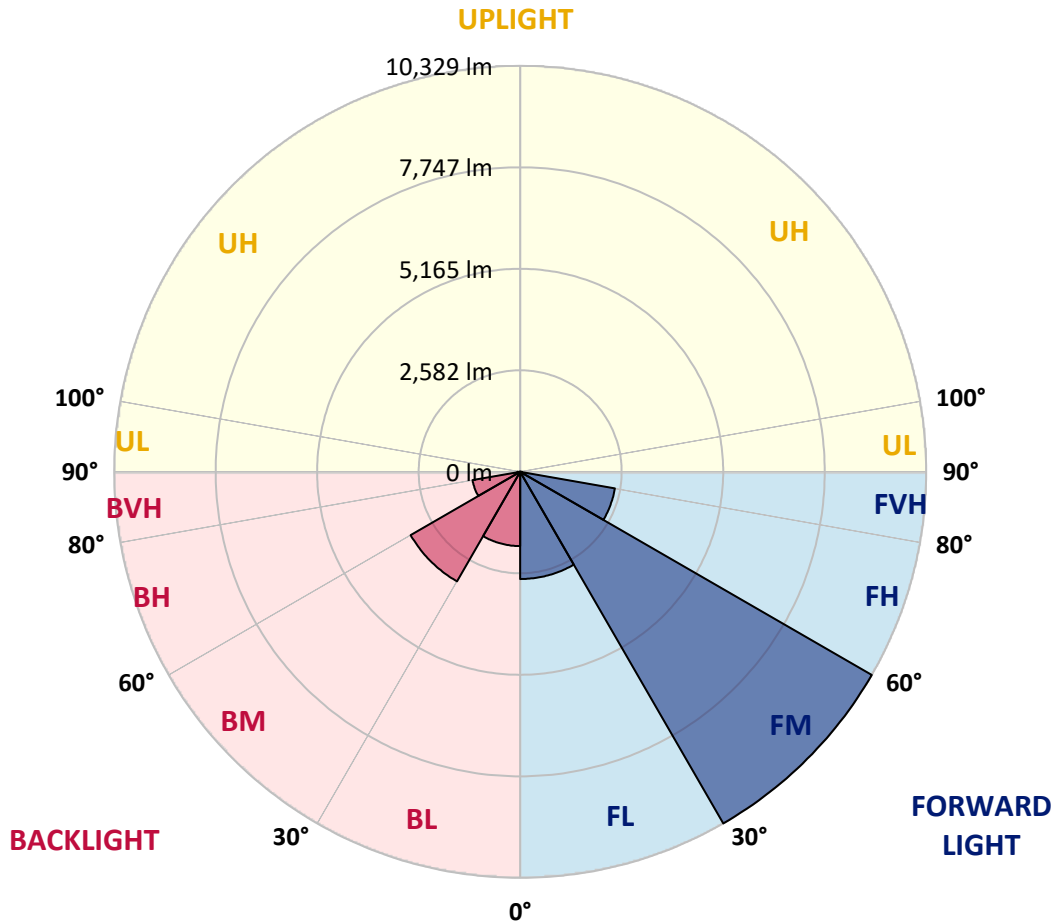


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.1	12.4			
FM (30°-60°)	10329.1	47.0			
FH (60°-80°)	2447.1	11.1			G2/5000
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	1890.0	8.6	B3/2500		
BM (30°-60°)	3217.9	14.7	B3/5000		
BH (60°-80°)	1230.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	69.4	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°	53°	55°	65°	75°	85°
0°	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9
2.5°	7174.8	7112.8	7149.4	7135.3	7250.8	7284.6	7267.7	7281.8	7346.6	7315.6	7250.8
5°	6704.3	6791.7	6808.6	6850.8	6918.4	7050.8	7155.0	7183.2	7214.2	7357.9	7343.8
7.5°	6276.2	6335.3	6304.3	6428.3	6574.8	6788.8	6915.6	6938.1	7222.6	7301.5	7360.7
10°	6005.7	5946.6	6087.4	6121.2	6287.4	6532.5	6684.6	6777.6	7036.7	7349.4	7386.0
12.5°	5755.0	5735.3	5819.8	5915.6	6101.5	6355.0	6510.0	6546.6	6946.6	7276.2	7448.0
15°	5569.1	5546.6	5631.1	5701.5	5918.4	6143.8	6340.9	6445.2	6848.0	7233.9	7394.5
17.5°	5422.6	5419.8	5467.7	5594.5	5817.0	6005.7	6324.0	6329.7	6797.3	7298.7	7439.6
20°	5414.2	5411.4	5419.8	5560.7	5763.5	5994.5	6270.5	6321.2	6797.3	7253.6	7442.4
22.5°	5484.6	5439.5	5490.2	5580.4	5726.9	6014.2	6290.2	6402.9	6960.7	7476.2	7569.1
25°	5597.3	5608.5	5636.7	5667.7	5752.2	6059.2	6464.9	6557.8	7152.2	7667.7	7743.8
27.5°	5802.9	5797.3	5808.5	5825.4	5898.7	6101.5	6535.3	6774.8	7552.2	8008.6	7932.5
30°	6104.3	6084.6	6129.7	6188.8	6121.2	6236.7	6769.1	6949.4	7924.1	8352.2	8143.8
32.5°	6377.6	6450.8	6535.3	6560.7	6479.0	6501.5	7079.0	7262.1	8233.9	8774.8	8402.9
35°	6718.4	6777.6	6890.2	6969.1	6955.0	6887.4	7501.5	7743.8	8681.8	9084.6	8676.2
37.5°	7050.8	7121.2	7307.2	7541.0	7411.4	7380.4	7952.2	8152.2	8819.9	9250.8	8876.2
40°	7586.0	7583.2	7904.3	8025.5	8141.0	8087.5	8419.9	8487.5	8893.1	9214.2	8881.8
42.5°	8214.2	8174.8	8501.5	8690.3	8839.6	8845.2	8907.2	8884.6	8926.9	9028.3	8822.7
45°	8811.4	8895.9	9225.5	9563.5	9712.8	9729.7	9318.5	9276.2	8986.1	8974.8	8710.0
47.5°	9541.0	9560.7	9831.1	10276.2	10622.7	10504.4	9850.9	9757.9	9245.2	9332.5	8898.7
50°	9583.2	9729.7	9972.0	10495.9	11560.7	11529.8	10541.0	10366.4	9662.1	9839.6	9425.5
52.5°	8698.7	8664.9	8952.3	9808.6	11490.3	12549.5	11684.7	11267.8	10557.9	10422.7	10279.0
55°	6628.3	6707.1	6960.7	7825.5	9977.6	12563.6	13242.5	12901.6	11515.7	11284.7	11118.5
56°	5814.2	5825.4	6064.9	6853.6	9104.4	12115.7	13538.2	13262.2	11991.7	11639.6	11386.1
57.5°	4819.8	4755.0	4878.9	5309.9	7684.6	11169.2	13214.3	13484.7	12549.5	12022.7	11670.6
60°	3794.4	3780.3	3729.6	3808.5	4856.4	8414.2	11000.2	11608.6	12493.2	11662.2	11177.6
62.5°	3098.6	3028.2	3129.6	3242.3	3374.7	5219.8	7729.7	8087.5	9918.5	9310.0	8397.3
65°	2402.9	2369.1	2495.8	2862.0	2940.9	3315.5	4402.9	4678.9	5856.4	5752.2	5064.9
67.5°	1653.5	1659.2	1769.0	2326.8	2726.8	2693.0	2695.8	2839.5	3056.4	2270.5	1977.5
70°	1047.9	1045.1	1104.2	1498.6	2194.4	2216.9	2104.3	2062.0	1955.0	1183.1	1253.5
72.5°	673.2	653.5	684.5	828.2	1135.2	1312.7	1352.1	1377.5	1132.4	929.6	1008.5
75°	380.3	360.6	349.3	385.9	447.9	518.3	569.0	585.9	656.3	704.2	746.5
77.5°	115.5	104.2	126.8	169.0	222.5	298.6	363.4	374.7	442.3	498.6	540.9
80°	50.7	56.3	78.9	112.7	157.7	211.3	256.3	273.2	318.3	360.6	371.8
82.5°	31.0	33.8	53.5	76.1	109.9	149.3	183.1	188.7	233.8	267.6	276.1
85°	11.3	14.1	28.2	45.1	70.4	95.8	95.8	104.2	95.8	95.8	104.2
87.5°	0.0	0.0	2.8	5.6	5.6	8.5	11.3	11.3	14.1	16.9	19.7
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°	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9
2.5°	7284.6	7270.5	7248.0	7166.3	7157.9	7132.5	6991.7	6969.1	6991.7	6924.1	6929.7
5°	7270.5	7312.8	7143.8	7062.1	6910.0	6800.1	6673.3	6608.6	6493.1	6419.8	6501.5
7.5°	7332.5	7315.6	7104.3	6926.9	6698.7	6419.8	6197.3	6070.5	5867.7	5811.4	5853.6
10°	7310.0	7219.8	6971.9	6738.1	6307.1	6062.1	5701.5	5352.2	5160.6	5062.1	5048.0
12.5°	7279.0	7253.6	6839.5	6436.7	5983.2	5467.7	4960.6	4631.1	4318.4	4183.2	4202.9
15°	7315.6	7101.5	6591.7	6081.8	5479.0	4802.9	4256.4	3831.0	3614.1	3526.8	3526.8
17.5°	7298.7	7028.3	6473.3	5684.6	4921.2	4121.2	3521.2	3264.8	3174.7	3174.7	3200.1
20°	7307.2	7076.2	6233.9	5287.4	4262.0	3470.5	3033.9	2940.9	2980.3	2994.4	3008.5
22.5°	7355.0	6918.4	6000.1	4850.8	3650.8	2969.1	2755.0	2757.8	2828.2	2904.3	2890.2
25°	7414.2	6856.4	5715.6	4417.0	3183.1	2724.0	2656.4	2647.9	2701.5	2740.9	2746.5
27.5°	7363.5	6749.4	5425.4	3876.1	2800.0	2560.6	2546.5	2552.2	2569.1	2647.9	2622.6
30°	7529.7	6780.4	5062.1	3422.6	2588.8	2507.1	2490.2	2481.7	2507.1	2529.6	2509.9
32.5°	7735.3	6670.5	4791.6	2986.0	2484.5	2467.6	2433.8	2422.6	2436.7	2414.1	2425.4
35°	7825.5	6650.8	4439.5	2673.3	2402.9	2388.8	2369.1	2366.2	2369.1	2349.3	2332.4
37.5°	7876.2	6743.8	4036.7	2529.6	2352.1	2366.2	2321.2	2315.5	2264.8	2276.1	2284.5
40°	7963.5	6600.1	3709.9	2391.6	2321.2	2293.0	2253.6	2245.1	2211.3	2191.6	2211.3
42.5°	7836.7	6557.8	3388.8	2332.4	2276.1	2245.1	2216.9	2169.0	2157.8	2140.9	2129.6
45°	7735.3	6315.6	3101.5	2259.2	2222.6	2205.7	2152.1	2101.4	2059.2	2076.1	2050.7
47.5°	7811.4	6231.1	2816.9	2197.2	2149.3	2129.6	2076.1	2036.7	1994.4	1974.7	1969.0
50°	8115.6	6388.8	2577.5	2152.1	2087.4	2076.1	2005.7	1960.6	1921.2	1907.1	1912.7
52.5°	8842.4	6819.8	2414.1	2059.2	2028.2	1977.5	1938.1	1881.7	1856.4	1811.3	1839.5
55°	9763.5	7521.2	2371.9	1971.9	1955.0	1909.9	1856.4	1814.1	1766.2	1729.6	1721.2
56°	10059.3	7856.5	2338.1	1938.1	1909.9	1884.5	1814.1	1788.8	1712.7	1704.3	1698.6
57.5°	10298.8	8152.2	2343.7	1873.3	1845.1	1822.6	1780.3	1718.3	1667.6	1636.6	1650.7
60°	9757.9	7631.1	2236.7	1774.7	1769.0	1726.8	1667.6	1639.5	1577.5	1540.9	1532.4
62.5°	7253.6	5180.4	1814.1	1647.9	1645.1	1600.0	1532.4	1501.4	1490.2	1439.5	1439.5
65°	4177.5	3247.9	1569.0	1543.7	1521.2	1476.1	1408.5	1383.1	1355.0	1338.0	1324.0
67.5°	1783.1	1684.5	1425.4	1422.6	1397.2	1340.9	1273.3	1233.8	1197.2	1163.4	1180.3
70°	1293.0	1312.7	1287.3	1273.3	1242.3	1171.8	1112.7	1064.8	1008.5	985.9	1002.8
72.5°	1025.4	1067.6	1104.2	1107.1	1070.4	988.7	924.0	859.2	797.2	766.2	780.3
75°	777.5	805.6	842.3	850.7	797.2	740.9	678.9	611.3	563.4	526.8	532.4
77.5°	560.6	554.9	588.7	583.1	557.8	518.3	462.0	400.0	346.5	312.7	315.5
80°	383.1	391.6	411.3	408.5	377.5	352.1	309.9	259.2	219.7	191.6	185.9
82.5°	267.6	281.7	298.6	284.5	259.2	233.8	202.8	166.2	135.2	112.7	107.0
85°	95.8	109.9	126.8	135.2	143.7	138.0	115.5	93.0	67.6	56.3	53.5
87.5°	19.7	22.5	25.4	25.4	25.4	22.5	19.7	19.7	16.9	8.5	8.5
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)