

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: P648070

Luminaire Tested: **GALN-SA7A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648070
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-SA7A-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 21772.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

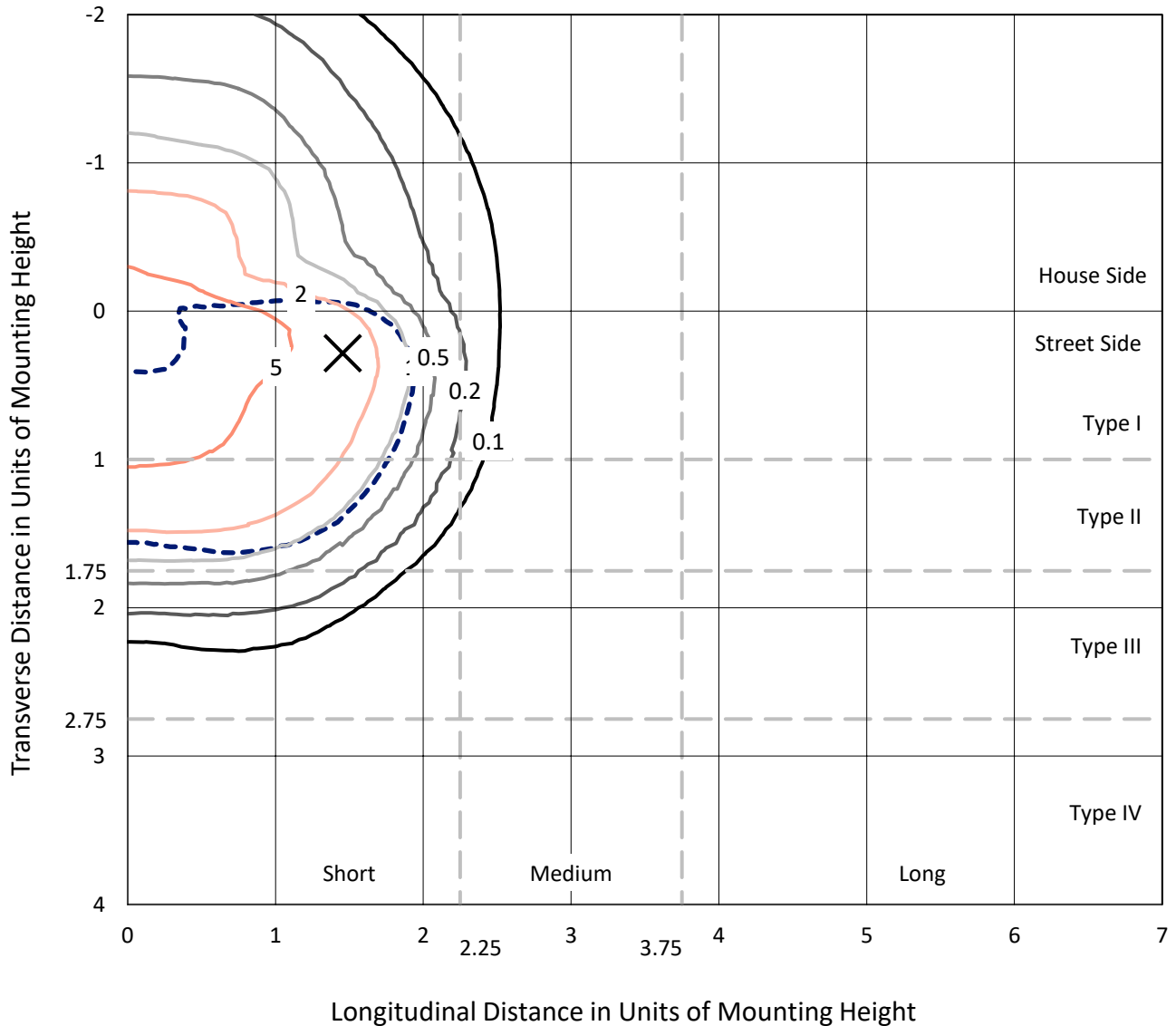
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

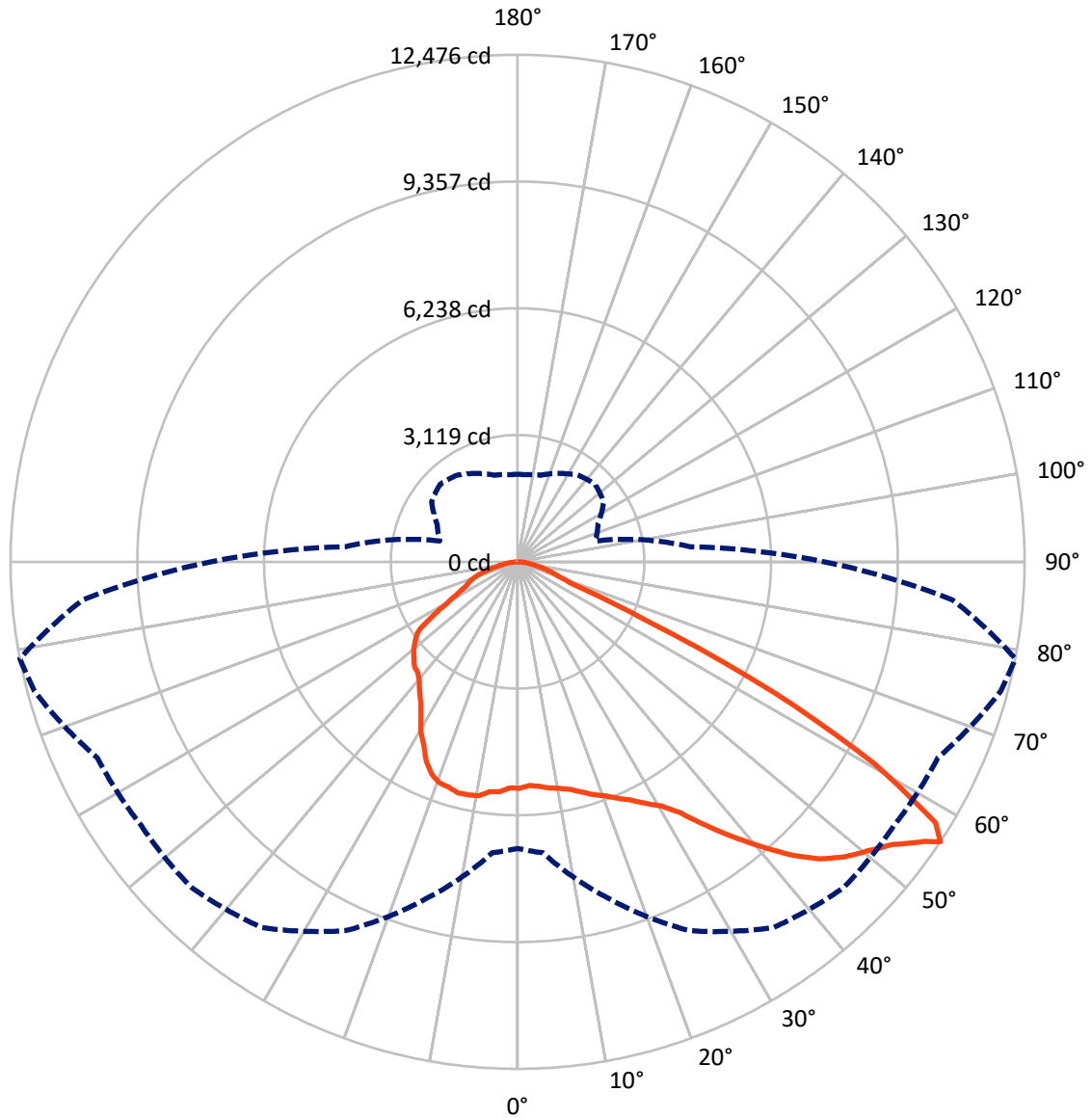
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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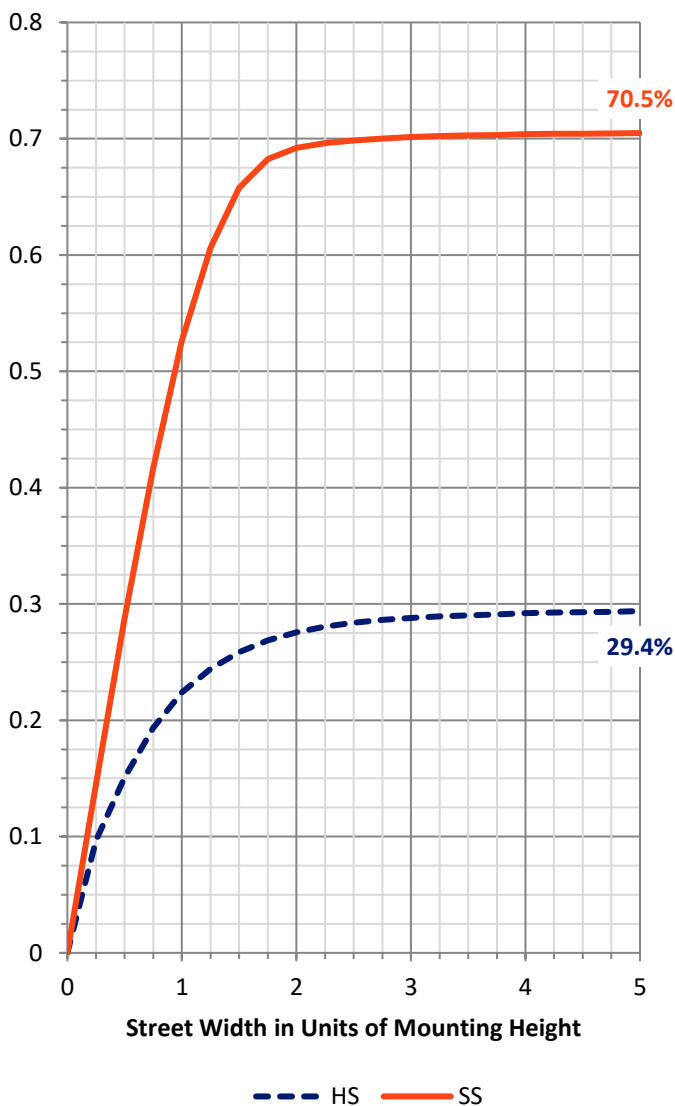
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6429.8	0.0	6429.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15342.3	0.0	15342.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	21772.1	0.0	21772.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	2.3
10°-20°	1386.1	6.4
20°-30°	2371.3	10.9
30°-40°	3634.3	16.7
40°-50°	4911.8	22.6
50°-60°	5641.4	25.9
60°-70°	2571.5	11.8
70°-80°	634.0	2.9
80°-90°	115.2	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°	21772.1	100.0
0°-180°	21772.1	100.0



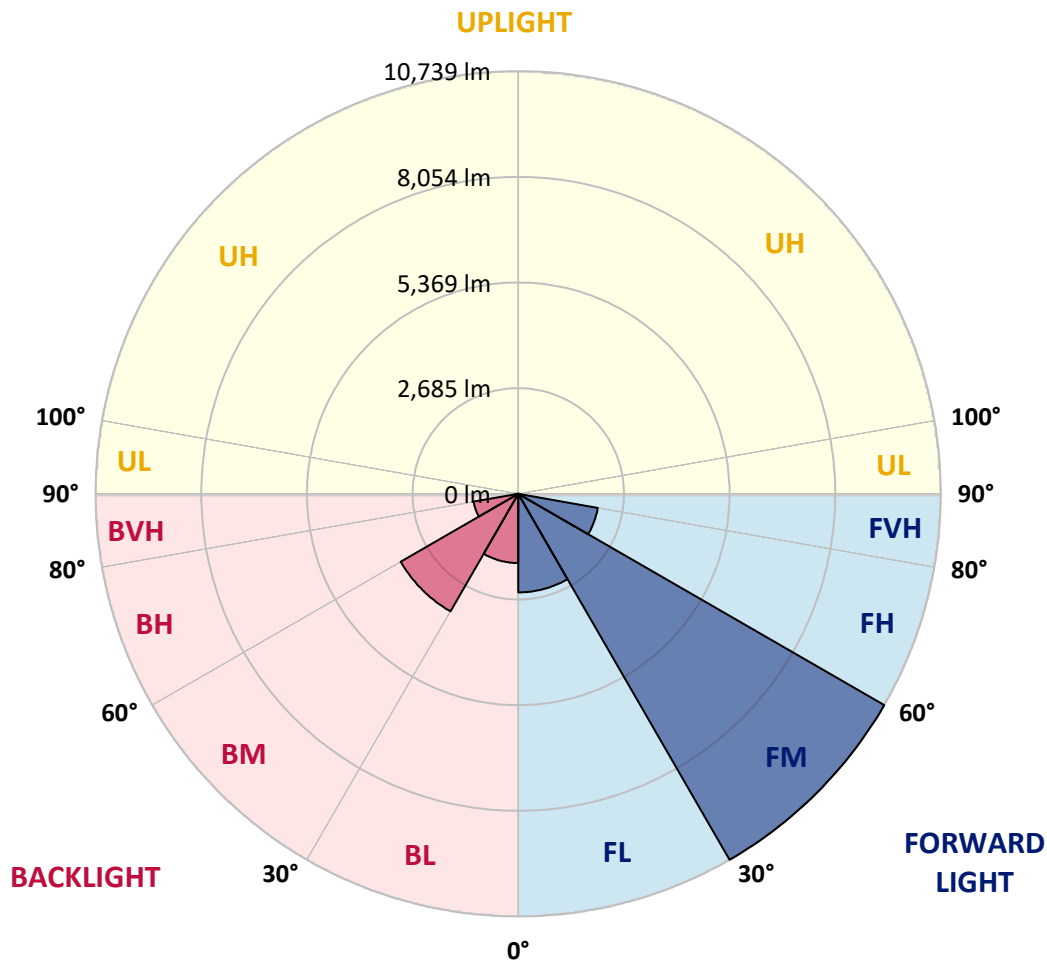
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2505.1	11.5			
FM (30°-60°)	10738.6	49.3			
FH (60°-80°)	2052.6	9.4			G2/5000
FVH (80°-90°)	46.0	0.2			G1/100
BL (0°-30°)	1758.8	8.1	B3/2500		
BM (30°-60°)	3448.8	15.8	B3/5000		
BH (60°-80°)	1152.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.2	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°	55°	65°	75°	79°	85°
0°	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7
2.5°	5299.4	5285.9	5318.4	5342.8	5372.6	5410.6	5429.6	5440.4	5535.3	5511.0	5584.2
5°	5185.5	5150.3	5174.7	5193.6	5245.2	5291.3	5342.8	5424.2	5511.0	5548.9	5638.4
7.5°	5085.2	5066.2	5060.8	5074.3	5144.9	5204.5	5294.0	5413.3	5554.4	5616.7	5668.2
10°	4919.7	4892.6	4933.3	5022.8	5041.7	5166.5	5269.6	5440.4	5562.5	5671.0	5822.9
12.5°	4846.5	4819.4	4827.5	4879.0	5011.9	5131.2	5253.3	5445.8	5703.5	5746.9	5950.3
15°	4963.1	4936.0	4944.1	4930.6	5058.0	5120.4	5313.0	5554.4	5801.2	5874.4	6091.3
17.5°	5228.9	5231.6	5196.4	5166.5	5136.7	5269.6	5402.5	5619.4	5839.1	6023.5	6186.2
20°	5736.0	5646.5	5576.1	5407.9	5361.7	5418.8	5586.9	5795.7	5993.7	6145.6	6330.0
22.5°	6126.6	6134.7	6034.3	5757.8	5657.4	5681.8	5825.5	5996.4	6213.4	6321.9	6533.4
25°	6693.4	6636.5	6527.9	6308.3	6083.2	6102.2	6207.9	6362.6	6422.2	6498.1	6728.7
27.5°	7211.4	7227.7	7013.4	6807.3	6527.9	6473.8	6663.6	6690.7	6590.4	6734.1	6812.7
30°	7737.6	7724.0	7583.0	7341.6	7067.7	7078.6	7162.6	7029.7	6891.4	6970.0	7024.3
32.5°	8282.7	8128.1	8122.7	7905.7	7696.9	7596.5	7493.5	7558.6	7344.3	7360.6	7309.1
35°	8719.3	8741.0	8616.3	8461.7	8358.6	8182.4	7900.3	8016.9	7976.3	7957.2	7734.9
37.5°	9036.7	8952.6	9015.0	8963.5	8865.8	8646.1	8353.2	8464.4	8483.4	8575.6	8318.0
40°	9297.0	9261.8	9427.2	9454.3	9386.5	8911.9	8385.8	8716.7	9001.4	9202.1	8895.7
42.5°	9421.8	9497.7	9671.3	9880.1	9728.2	9221.1	8553.9	8909.2	9543.8	9861.1	9443.4
45°	9589.9	9492.3	9749.9	10132.3	10135.1	9481.4	8716.7	9169.6	9966.9	10428.0	9817.7
47.5°	9419.1	9467.9	9733.6	10219.1	10343.9	9755.4	9156.0	9538.4	10433.4	10842.9	10164.9
50°	9036.7	9134.3	9619.8	10124.2	10501.2	10045.6	9660.4	9937.1	10864.6	11176.5	10221.8
52.5°	8638.0	8692.2	9451.6	10197.4	10571.7	10419.9	10335.8	10487.7	11390.8	11553.5	10292.4
55°	7553.1	7810.8	8895.7	10164.9	10916.1	11095.1	11030.0	11252.4	11987.4	12150.1	10677.5
56°	7051.4	7187.0	8562.0	10013.0	10983.9	11341.9	11309.4	11409.7	12304.7	12475.6	10737.1
57.5°	6123.9	6134.7	7300.9	9340.4	10729.0	11415.1	11382.6	11461.2	12242.4	12125.7	10213.7
60°	3832.2	4000.3	4968.5	7184.3	9123.4	10590.7	10775.1	10143.2	10322.2	10075.4	7946.4
62.5°	1985.2	1960.9	2603.6	4201.0	6056.1	7583.0	7753.8	7724.0	7447.3	7086.7	5190.9
65°	989.9	995.3	1361.5	2080.2	3102.6	3970.5	4447.8	4499.4	3764.4	3463.4	2462.5
67.5°	718.7	745.8	979.1	1272.0	1461.8	1635.4	2004.2	1966.3	1489.0	1415.7	1312.6
70°	558.7	583.1	794.7	970.9	881.4	881.4	960.1	992.6	1060.4	1090.2	1125.5
72.5°	406.8	425.8	607.5	669.9	577.7	621.1	718.7	794.7	865.1	876.0	916.7
75°	279.4	295.6	398.7	368.9	347.2	428.5	526.2	596.6	648.2	675.3	699.7
77.5°	181.7	187.1	227.9	192.5	222.4	276.6	341.7	401.4	452.9	474.6	480.1
80°	81.4	89.5	97.6	122.1	154.6	198.0	244.1	292.9	325.4	333.6	349.8
82.5°	46.1	46.1	59.7	86.8	113.9	143.8	176.3	211.6	249.5	257.7	254.9
85°	24.4	24.4	35.2	51.5	70.5	84.1	81.4	84.1	89.5	103.0	100.4
87.5°	8.1	8.1	10.9	10.9	13.5	16.3	13.5	18.9	24.4	24.4	24.4
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°	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7	5570.7
2.5°	5562.5	5586.9	5554.4	5624.8	5624.8	5611.3	5543.5	5565.2	5581.5	5581.5	5595.0
5°	5668.2	5660.2	5681.8	5597.7	5546.2	5527.2	5416.0	5361.7	5315.7	5313.0	5272.3
7.5°	5727.9	5706.2	5698.0	5635.7	5407.9	5269.6	5030.9	4892.6	4862.7	4757.0	4797.7
10°	5822.9	5863.5	5822.9	5483.8	5166.5	4849.2	4615.9	4401.7	4317.6	4249.8	4209.2
12.5°	6018.1	5999.1	5763.2	5304.8	4860.1	4483.1	4136.0	3910.9	3826.8	3767.1	3761.7
15°	6183.6	6088.6	5727.9	5022.8	4382.8	3981.3	3696.5	3536.6	3498.6	3504.0	3528.4
17.5°	6240.5	6175.4	5543.5	4729.9	4027.4	3555.5	3422.6	3398.2	3433.5	3474.2	3485.1
20°	6330.0	6227.0	5467.5	4331.2	3588.1	3289.8	3281.6	3368.4	3433.5	3493.2	3501.3
22.5°	6517.1	6256.8	5220.7	3954.2	3287.0	3211.1	3289.8	3363.0	3463.4	3512.1	3468.8
25°	6571.4	6191.7	4873.6	3501.3	3097.2	3162.3	3246.4	3346.7	3417.2	3444.3	3463.4
27.5°	6617.4	6091.3	4404.5	3200.3	3037.6	3159.6	3246.4	3330.4	3368.4	3392.8	3414.5
30°	6747.7	6061.5	3997.6	2999.6	2999.6	3105.3	3216.6	3238.3	3289.8	3319.6	3357.6
32.5°	6812.7	5855.4	3580.0	2872.1	2961.6	3132.5	3140.6	3181.3	3184.0	3208.4	3167.7
35°	6983.6	5708.9	3192.1	2779.9	2977.9	3105.3	3146.0	3121.6	2988.7	2923.6	2937.2
37.5°	7108.4	5635.7	2912.8	2769.0	2980.6	3135.1	3156.9	2972.4	2834.1	2725.6	2752.8
40°	7444.7	5454.0	2701.3	2750.1	3005.0	3167.7	3108.0	2907.4	2657.8	2546.6	2527.7
42.5°	7702.3	5323.9	2568.3	2728.4	3023.9	3213.8	3083.6	2777.1	2522.2	2419.2	2446.3
45°	8000.6	5294.0	2497.8	2733.8	3056.5	3238.3	3053.8	2676.8	2405.6	2365.0	2356.8
47.5°	8106.4	5079.7	2421.9	2687.6	3048.4	3230.1	2953.5	2600.9	2362.2	2367.6	2389.3
50°	7930.1	4860.1	2365.0	2592.7	2994.1	3156.9	2796.2	2500.5	2337.8	2405.6	2443.6
52.5°	7705.0	4635.0	2248.3	2465.3	2882.9	3043.0	2723.0	2495.1	2313.4	2291.7	2299.8
55°	7772.8	4450.5	2085.6	2291.7	2703.9	2831.4	2641.6	2443.6	2253.7	2172.4	2199.5
56°	7553.1	4260.7	1979.8	2183.2	2581.9	2695.8	2600.9	2397.5	2204.9	2150.7	2150.7
57.5°	6932.1	3623.3	1841.5	2009.6	2324.3	2459.9	2522.2	2370.4	2150.7	2055.8	2058.5
60°	5112.3	2576.5	1651.7	1771.0	1925.6	2034.1	2324.3	2294.4	2015.1	1950.0	1925.6
62.5°	3151.4	1882.2	1516.0	1562.2	1640.8	1730.3	2028.7	2077.5	1871.4	1800.8	1784.5
65°	1765.6	1440.1	1413.0	1432.0	1469.9	1516.0	1684.2	1792.7	1651.7	1543.1	1537.7
67.5°	1290.9	1288.3	1310.0	1326.2	1342.5	1342.5	1383.2	1426.5	1407.6	1320.8	1312.6
70°	1147.2	1155.3	1171.6	1174.3	1179.7	1160.8	1128.2	1114.7	1136.4	1082.1	1071.3
72.5°	946.5	973.7	992.6	995.3	965.5	941.1	897.7	851.6	835.3	824.5	821.8
75°	726.9	745.8	754.0	751.2	740.4	705.2	653.6	607.5	577.7	545.1	561.4
77.5°	490.9	518.0	531.6	531.6	515.3	461.0	436.7	401.4	371.5	336.3	341.7
80°	344.4	363.4	385.1	382.4	355.2	328.2	292.9	260.3	235.9	208.8	206.1
82.5°	257.7	268.5	279.4	273.9	254.9	227.9	203.4	173.6	146.4	127.5	127.5
85°	92.2	100.4	122.1	127.5	138.3	138.3	116.6	97.6	78.6	65.1	65.1
87.5°	27.1	27.1	29.8	29.8	27.1	29.8	24.4	27.1	29.8	18.9	18.9
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)