

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: P529402

Luminaire Tested: **GALN-SA4C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529402
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-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 23573 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

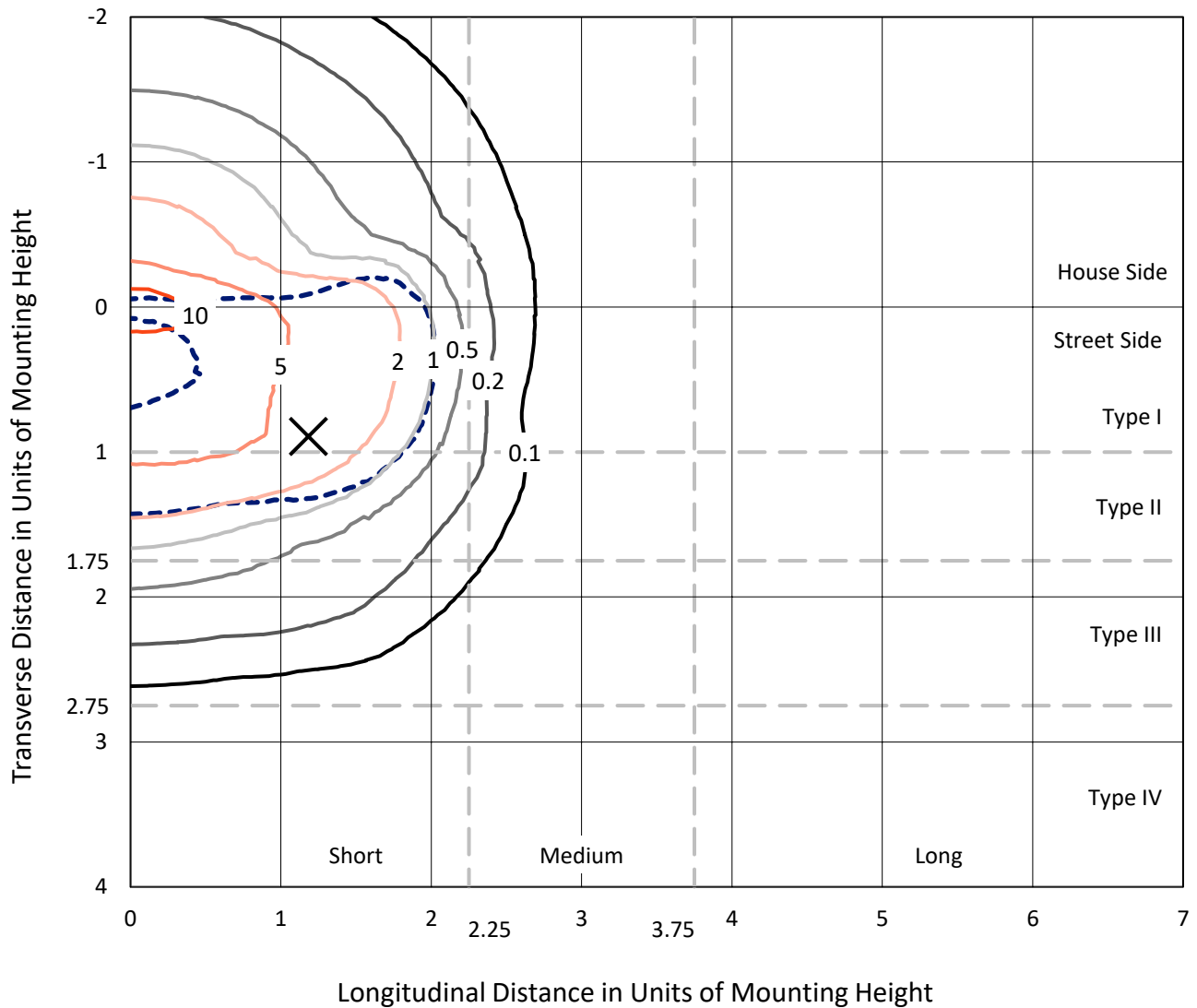
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

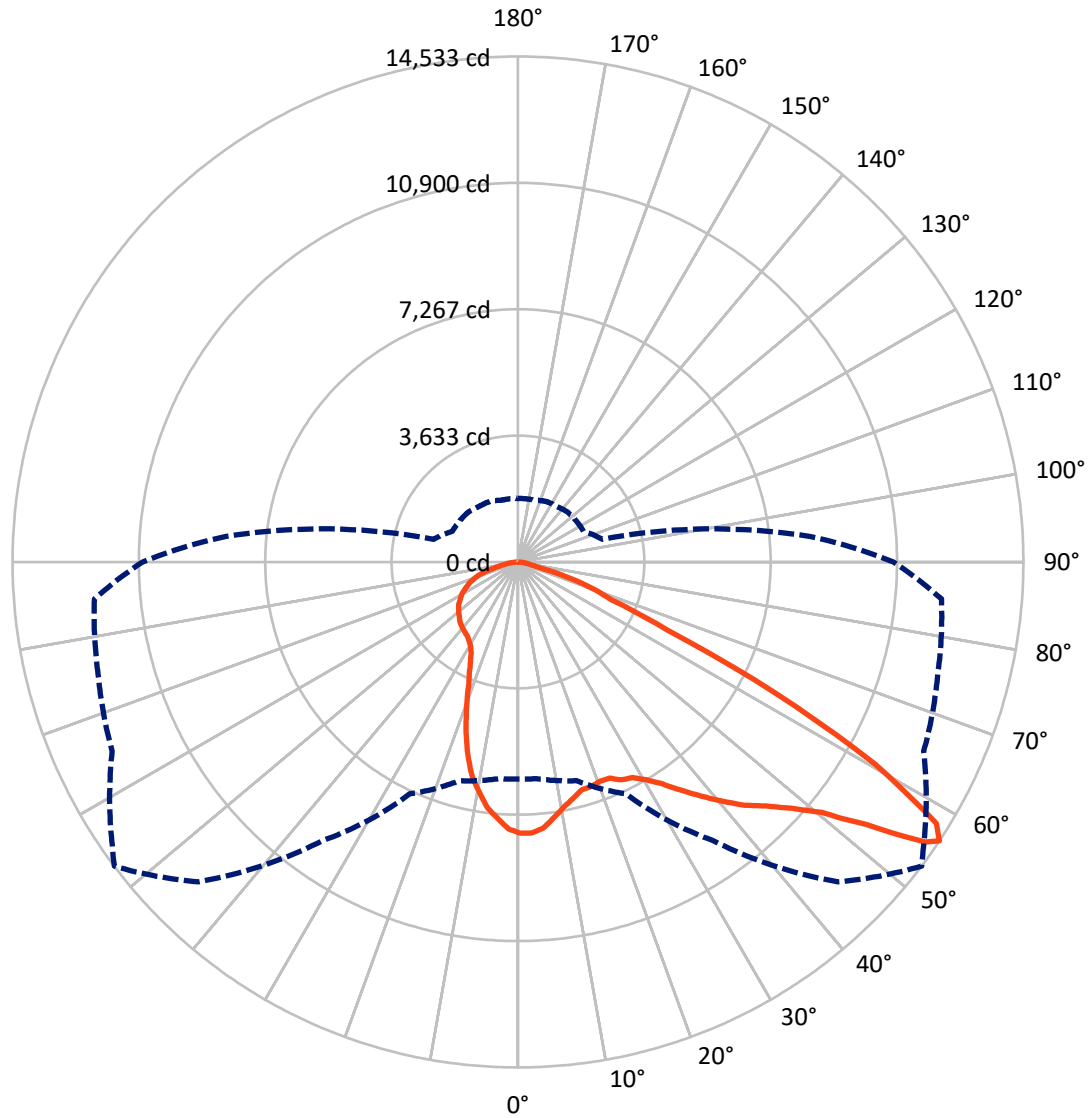
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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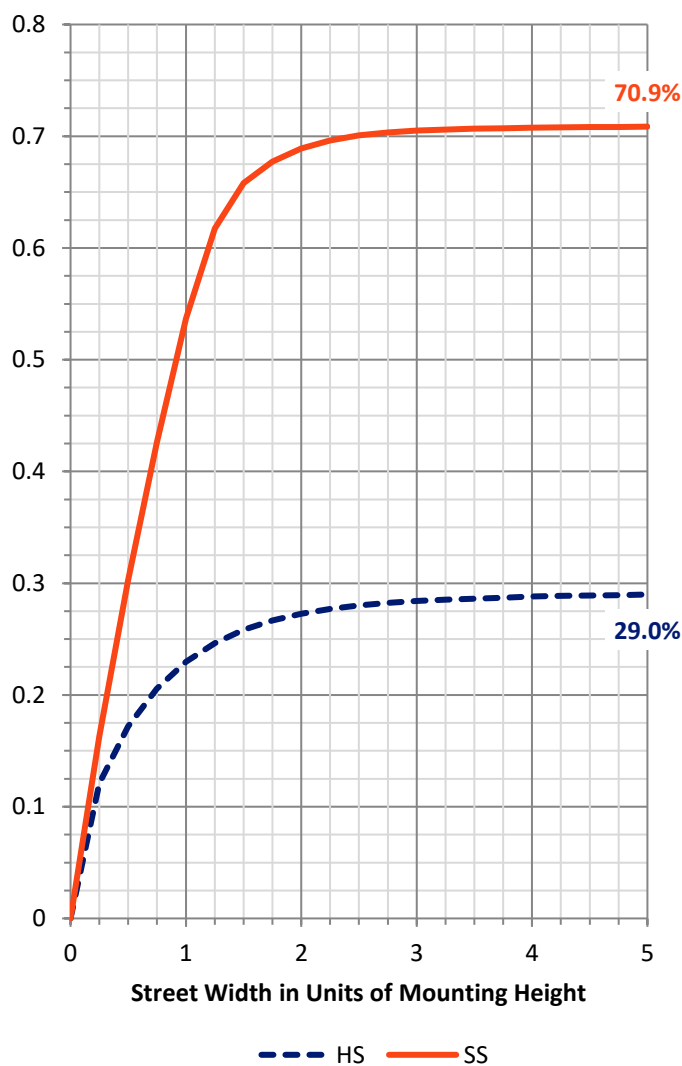
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6879.1	0.0	6879.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16693.9	0.0	16693.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	23573.0	0.0	23573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.4	2.9
10°-20°	1724.4	7.3
20°-30°	2542.7	10.8
30°-40°	3633.1	15.4
40°-50°	5000.5	21.2
50°-60°	5909.2	25.1
60°-70°	3149.2	13.4
70°-80°	798.9	3.4
80°-90°	124.6	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°	23573.0	100.0
0°-180°	23573.0	100.0

Coefficient of Utilization



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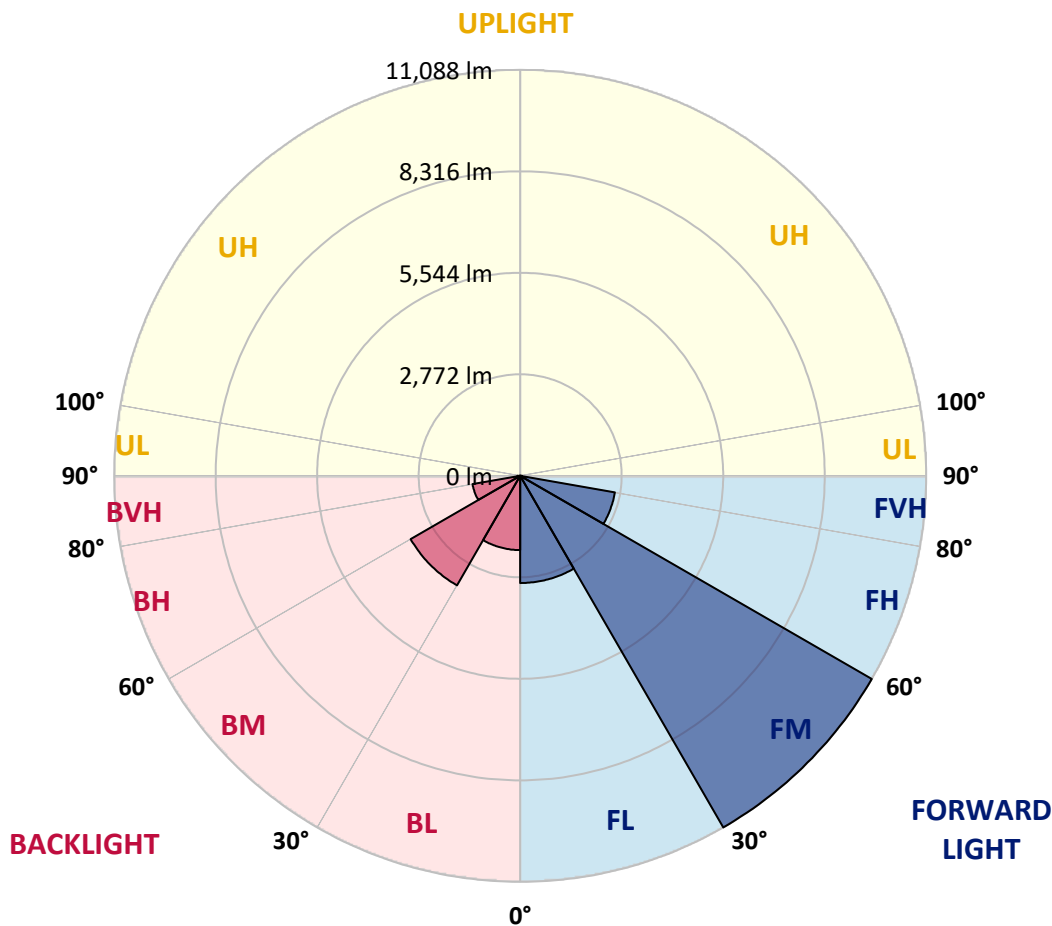
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2928.6	12.4			
FM (30°-60°)	11088.3	47.0			
FH (60°-80°)	2626.9	11.1			G2/5000
FVH (80°-90°)	50.1	0.2			G1/100
BL (0°-30°)	2028.9	8.6	B3/2500		
BM (30°-60°)	3454.5	14.7	B3/5000		
BH (60°-80°)	1321.2	5.6	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°	53°	55°	65°	75°	85°
0°	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9
2.5°	7702.1	7635.6	7674.9	7659.8	7783.8	7820.0	7801.9	7817.0	7886.6	7853.3	7783.8
5°	7197.1	7290.8	7309.0	7354.4	7426.9	7569.1	7680.9	7711.2	7744.4	7898.7	7883.5
7.5°	6737.5	6801.0	6767.7	6900.8	7058.0	7287.8	7423.9	7448.1	7753.5	7838.2	7901.7
10°	6447.2	6383.6	6534.8	6571.1	6749.6	7012.6	7175.9	7275.7	7553.9	7889.6	7928.9
12.5°	6178.0	6156.8	6247.6	6350.4	6550.0	6822.1	6988.4	7027.8	7457.2	7811.0	7995.4
15°	5978.4	5954.2	6045.0	6120.6	6353.4	6595.3	6807.0	6918.9	7351.3	7765.6	7938.0
17.5°	5821.2	5818.2	5869.6	6005.6	6244.5	6447.2	6788.9	6794.9	7296.9	7835.2	7986.4
20°	5812.1	5809.1	5818.2	5969.4	6187.1	6435.1	6731.4	6785.8	7296.9	7786.8	7989.4
22.5°	5887.7	5839.3	5893.8	5990.5	6147.8	6456.2	6752.6	6873.5	7472.3	8025.7	8125.5
25°	6008.7	6020.8	6051.0	6084.3	6175.0	6504.6	6940.1	7039.9	7677.9	8231.3	8313.0
27.5°	6229.4	6223.4	6235.5	6253.6	6332.2	6550.0	7015.7	7272.7	8107.3	8597.2	8515.6
30°	6553.0	6531.8	6580.2	6643.7	6571.1	6695.1	7266.7	7460.2	8506.5	8966.1	8742.4
32.5°	6846.3	6924.9	7015.7	7042.9	6955.2	6979.4	7599.3	7795.9	8839.1	9419.7	9020.6
35°	7212.2	7275.7	7396.7	7481.4	7466.2	7393.7	8052.9	8313.0	9319.9	9752.4	9313.9
37.5°	7569.1	7644.7	7844.2	8095.2	7956.1	7922.9	8536.7	8751.4	9468.1	9930.8	9528.6
40°	8143.6	8140.6	8485.3	8615.4	8739.3	8681.9	9038.7	9111.3	9546.7	9891.5	9534.6
42.5°	8818.0	8775.6	9126.4	9329.0	9489.3	9495.3	9561.9	9537.7	9583.0	9691.9	9471.1
45°	9459.0	9549.8	9903.6	10266.5	10426.7	10444.9	10003.4	9958.0	9646.5	9634.4	9350.2
47.5°	10242.3	10263.4	10553.7	11031.5	11403.5	11276.5	10574.9	10475.1	9924.7	10018.5	9552.8
50°	10287.6	10444.9	10704.9	11267.4	12410.5	12377.2	11315.8	11128.3	10372.3	10562.8	10118.3
52.5°	9338.1	9301.8	9610.2	10529.5	12334.9	13471.9	12543.5	12096.0	11333.9	11188.8	11034.5
55°	7115.5	7200.1	7472.3	8400.7	10711.0	13487.0	14215.8	13849.9	12362.1	12114.1	11935.7
56°	6241.5	6253.6	6510.7	7357.4	9773.5	13006.2	14533.3	14237.0	12873.1	12495.1	12223.0
57.5°	5174.1	5104.5	5237.6	5700.2	8249.5	11990.1	14185.6	14475.9	13471.9	12906.4	12528.4
60°	4073.3	4058.2	4003.8	4088.4	5213.4	9032.7	11808.7	12461.9	13411.4	12519.3	11999.2
62.5°	3326.4	3250.8	3359.7	3480.6	3622.7	5603.5	8297.8	8681.9	10647.5	9994.3	9014.5
65°	2579.5	2543.2	2679.3	3072.4	3157.0	3559.2	4726.5	5022.9	6286.9	6175.0	5437.1
67.5°	1775.1	1781.1	1899.1	2497.8	2927.2	2890.9	2894.0	3048.2	3281.0	2437.3	2122.8
70°	1124.9	1121.9	1185.4	1608.8	2355.7	2379.9	2258.9	2213.6	2098.7	1270.1	1345.7
72.5°	722.7	701.6	734.8	889.1	1218.7	1409.2	1451.5	1478.7	1215.6	997.9	1082.6
75°	408.2	387.1	375.0	414.3	480.8	556.4	610.8	629.0	704.6	756.0	801.4
77.5°	124.0	111.9	136.1	181.4	238.9	320.5	390.1	402.2	474.8	535.2	580.6
80°	54.4	60.5	84.7	121.0	169.3	226.8	275.2	293.3	341.7	387.1	399.2
82.5°	33.3	36.3	57.5	81.6	117.9	160.3	196.6	202.6	251.0	287.3	296.4
85°	12.1	15.1	30.2	48.4	75.6	102.8	102.8	111.9	102.8	102.8	111.9
87.5°	0.0	0.0	3.0	6.0	6.0	9.1	12.1	12.1	15.1	18.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9	7798.9
2.5°	7820.0	7804.9	7780.7	7693.0	7684.0	7656.7	7505.6	7481.4	7505.6	7433.0	7439.0
5°	7804.9	7850.3	7668.8	7581.1	7417.9	7299.9	7163.8	7094.3	6970.3	6891.7	6979.4
7.5°	7871.5	7853.3	7626.5	7436.0	7191.1	6891.7	6652.8	6516.7	6299.0	6238.5	6283.9
10°	7847.3	7750.5	7484.4	7233.4	6770.7	6507.6	6120.6	5745.6	5540.0	5434.1	5419.0
12.5°	7814.0	7786.8	7342.3	6909.8	6423.0	5869.6	5325.3	4971.4	4635.8	4490.6	4511.8
15°	7853.3	7623.5	7076.1	6528.8	5881.7	5155.9	4569.3	4112.6	3879.8	3786.0	3786.0
17.5°	7835.2	7544.9	6949.1	6102.4	5282.9	4424.1	3780.0	3504.8	3408.0	3408.0	3435.3
20°	7844.2	7596.3	6692.1	5676.0	4575.3	3725.6	3256.8	3157.0	3199.4	3214.5	3229.6
22.5°	7895.6	7426.9	6441.1	5207.3	3919.1	3187.3	2957.5	2960.5	3036.1	3117.7	3102.6
25°	7959.1	7360.4	6135.7	4741.6	3417.1	2924.2	2851.6	2842.6	2900.0	2942.3	2948.4
27.5°	7904.7	7245.5	5824.2	4161.0	3005.8	2748.8	2733.7	2739.7	2757.9	2842.6	2815.3
30°	8083.1	7278.8	5434.1	3674.2	2779.0	2691.4	2673.2	2664.1	2691.4	2715.5	2694.4
32.5°	8303.9	7160.8	5143.8	3205.4	2667.2	2649.0	2612.7	2600.6	2615.8	2591.6	2603.7
35°	8400.7	7139.6	4765.8	2869.8	2579.5	2564.3	2543.2	2540.2	2543.2	2522.0	2503.9
37.5°	8455.1	7239.4	4333.4	2715.5	2525.0	2540.2	2491.8	2485.7	2431.3	2443.4	2452.5
40°	8548.8	7085.2	3982.6	2567.4	2491.8	2461.5	2419.2	2410.1	2373.8	2352.7	2373.8
42.5°	8412.7	7039.9	3637.9	2503.9	2443.4	2410.1	2379.9	2328.5	2316.4	2298.2	2286.1
45°	8303.9	6779.8	3329.4	2425.2	2385.9	2367.8	2310.3	2255.9	2210.5	2228.7	2201.5
47.5°	8385.5	6689.1	3024.0	2358.7	2307.3	2286.1	2228.7	2186.3	2141.0	2119.8	2113.8
50°	8712.1	6858.4	2767.0	2310.3	2240.8	2228.7	2153.1	2104.7	2062.4	2047.2	2053.3
52.5°	9492.3	7321.1	2591.6	2210.5	2177.3	2122.8	2080.5	2020.0	1992.8	1944.4	1974.7
55°	10481.2	8074.1	2546.2	2116.8	2098.7	2050.3	1992.8	1947.5	1896.0	1856.7	1847.7
56°	10798.7	8433.9	2509.9	2080.5	2050.3	2023.1	1947.5	1920.2	1838.6	1829.5	1823.5
57.5°	11055.7	8751.4	2516.0	2011.0	1980.7	1956.5	1911.2	1844.6	1790.2	1756.9	1772.1
60°	10475.1	8192.0	2401.1	1905.1	1899.1	1853.7	1790.2	1760.0	1693.4	1654.1	1645.1
62.5°	7786.8	5561.1	1947.5	1769.0	1766.0	1717.6	1645.1	1611.8	1599.7	1545.3	1545.3
65°	4484.6	3486.7	1684.4	1657.1	1633.0	1584.6	1512.0	1484.8	1454.5	1436.4	1421.3
67.5°	1914.2	1808.3	1530.1	1527.1	1499.9	1439.4	1366.8	1324.5	1285.2	1248.9	1267.1
70°	1388.0	1409.2	1382.0	1366.8	1333.6	1258.0	1194.5	1143.1	1082.6	1058.4	1076.5
72.5°	1100.7	1146.1	1185.4	1188.4	1149.1	1061.4	991.9	922.3	855.8	822.5	837.6
75°	834.6	864.9	904.2	913.2	855.8	795.3	728.8	656.2	604.8	565.5	571.5
77.5°	601.8	595.7	632.0	626.0	598.8	556.4	495.9	429.4	372.0	335.7	338.7
80°	411.3	420.3	441.5	438.5	405.2	378.0	332.6	278.2	235.9	205.6	199.6
82.5°	287.3	302.4	320.5	305.4	278.2	251.0	217.7	178.4	145.2	121.0	114.9
85°	102.8	117.9	136.1	145.2	154.2	148.2	124.0	99.8	72.6	60.5	57.5
87.5°	21.2	24.2	27.2	27.2	27.2	24.2	21.2	21.2	18.1	9.1	9.1
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)