

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: P651450

Luminaire Tested: **GALN-SA6D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651450
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-SA6D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 32699.8 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

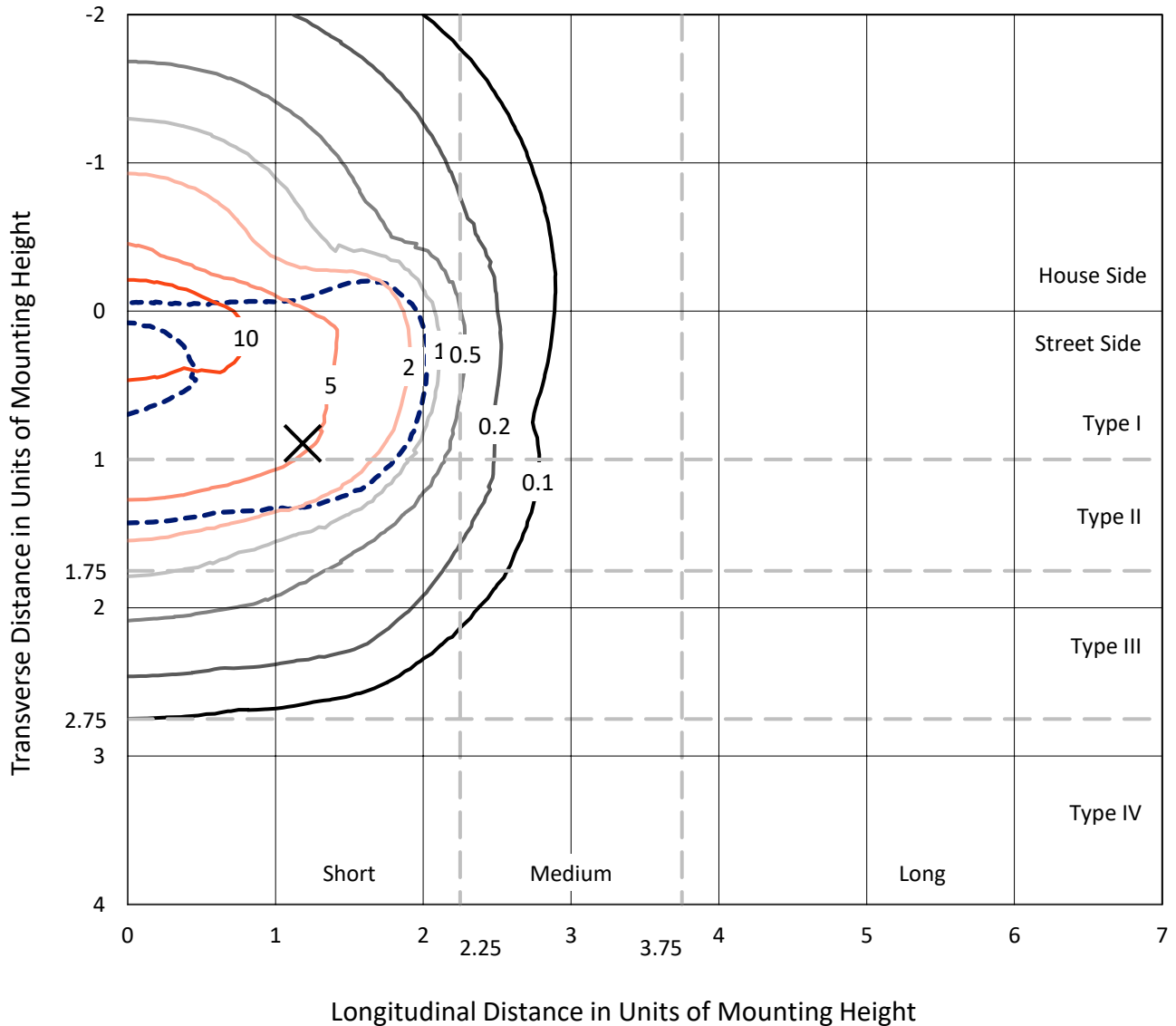
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

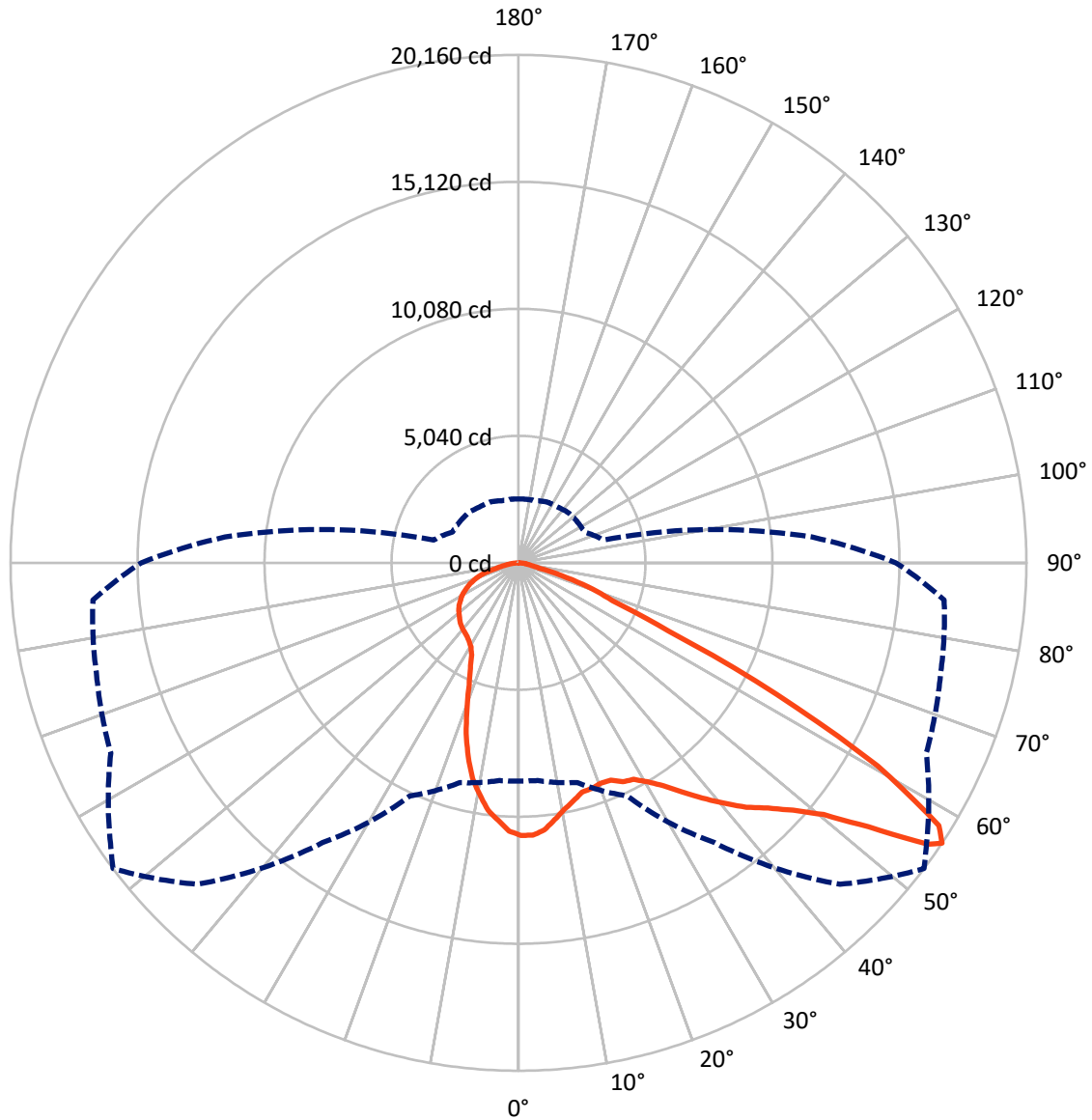
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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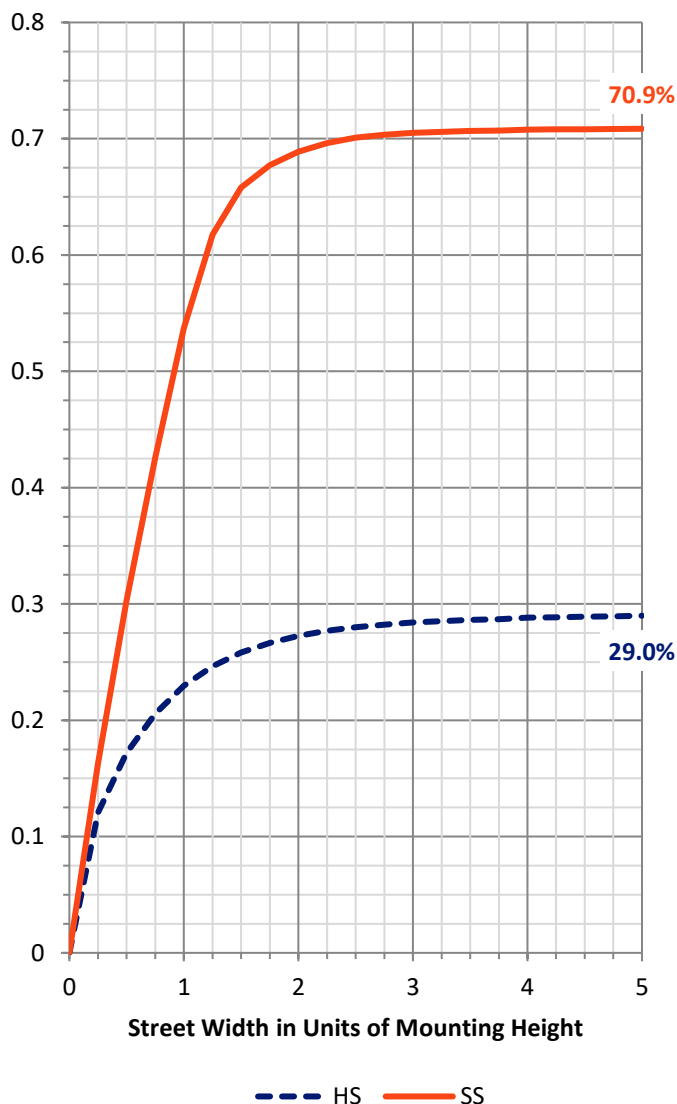
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9542.5	0.0	9542.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23157.3	0.0	23157.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	32699.8	0.0	32699.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.7	2.9
10°-20°	2392.0	7.3
20°-30°	3527.2	10.8
30°-40°	5039.7	15.4
40°-50°	6936.5	21.2
50°-60°	8197.1	25.1
60°-70°	4368.5	13.4
70°-80°	1108.3	3.4
80°-90°	172.8	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°	32699.8	100.0
0°-180°	32699.8	100.0

Coefficient of Utilization

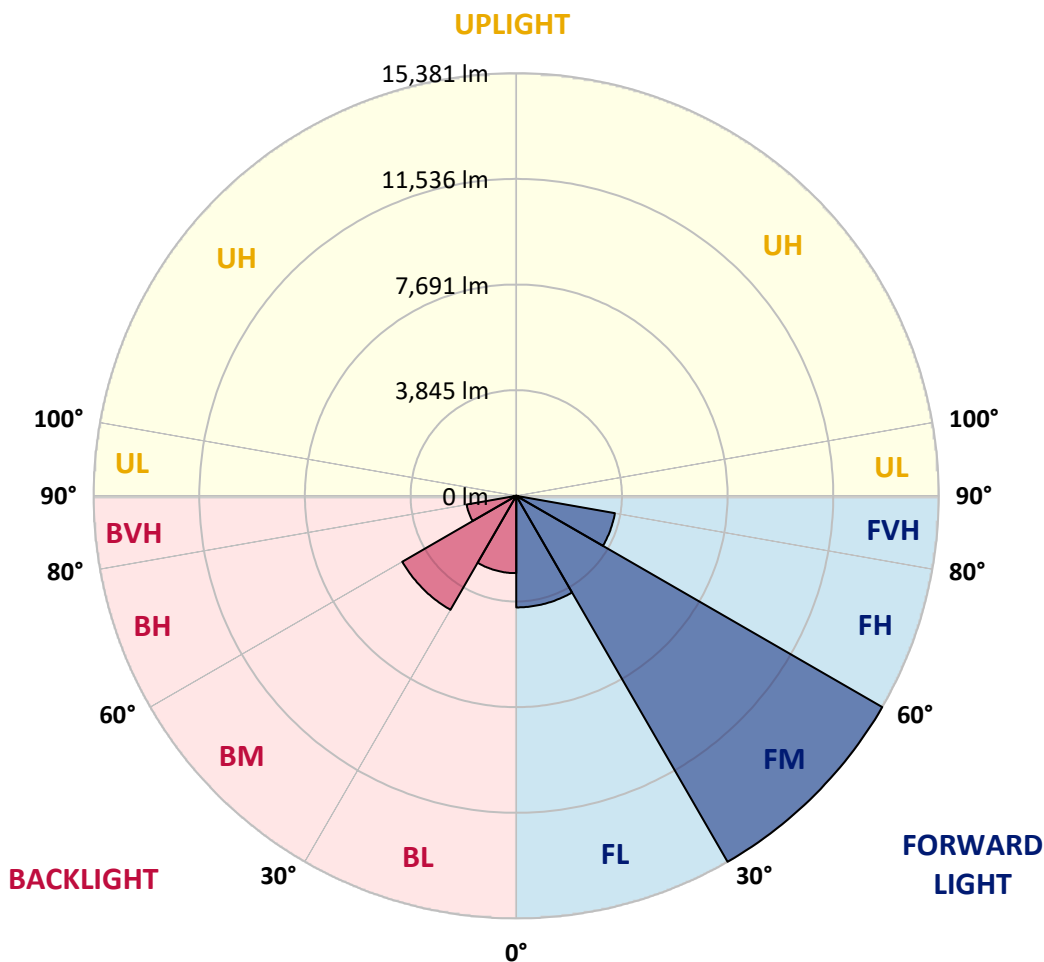


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4062.5	12.4			
FM (30°-60°)	15381.3	47.0			
FH (60°-80°)	3644.0	11.1			G2/5000
FVH (80°-90°)	69.5	0.2			G1/100
BL (0°-30°)	2814.5	8.6	B4/5000		
BM (30°-60°)	4791.9	14.7	B3/5000		
BH (60°-80°)	1832.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	103.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4
2.5°	10684.1	10591.9	10646.4	10625.4	10797.4	10847.7	10822.6	10843.5	10940.0	10893.9	10797.4
5°	9983.6	10113.6	10138.8	10201.8	10302.4	10499.5	10654.8	10696.7	10742.8	10956.8	10935.9
7.5°	9346.0	9434.1	9387.9	9572.5	9790.7	10109.4	10298.2	10331.8	10755.5	10872.9	10961.0
10°	8943.3	8855.2	9065.0	9115.3	9362.8	9727.8	9954.2	10092.7	10478.6	10944.2	10998.8
12.5°	8570.0	8540.6	8666.4	8809.1	9085.9	9463.4	9694.2	9748.7	10344.4	10835.1	11091.0
15°	8293.1	8259.5	8385.4	8490.2	8813.3	9148.8	9442.5	9597.7	10197.5	10772.2	11011.3
17.5°	8074.9	8070.7	8142.1	8330.9	8662.2	8943.3	9417.3	9425.7	10122.0	10868.7	11078.4
20°	8062.4	8058.2	8070.7	8280.5	8582.6	8926.5	9337.6	9413.1	10122.0	10801.6	11082.6
22.5°	8167.3	8100.2	8175.6	8309.9	8528.0	8955.9	9367.0	9534.8	10365.3	11133.0	11271.4
25°	8335.1	8351.8	8393.8	8439.9	8565.8	9023.0	9627.0	9765.4	10650.6	11418.3	11531.5
27.5°	8641.3	8632.9	8649.7	8674.8	8783.9	9085.9	9731.9	10088.5	11246.3	11925.8	11812.5
30°	9090.1	9060.8	9127.9	9215.9	9115.3	9287.2	10080.1	10348.6	11800.0	12437.5	12127.1
32.5°	9497.0	9606.1	9731.9	9769.6	9648.0	9681.6	10541.5	10814.2	12261.4	13066.8	12513.1
35°	10004.6	10092.7	10260.5	10377.9	10356.9	10256.2	11170.8	11531.5	12928.4	13528.2	12919.9
37.5°	10499.5	10604.4	10881.3	11229.5	11036.5	10990.4	11841.9	12139.8	13133.9	13775.7	13217.8
40°	11296.6	11292.4	11770.6	11950.9	12122.9	12043.3	12538.2	12638.9	13243.0	13721.2	13226.2
42.5°	12232.0	12173.3	12659.9	12941.0	13163.2	13171.7	13263.9	13230.4	13293.3	13444.3	13138.1
45°	13121.3	13247.2	13738.0	14241.3	14463.7	14488.8	13876.3	13813.4	13381.4	13364.6	12970.3
47.5°	14207.8	14237.1	14639.8	15302.6	15818.5	15642.3	14669.2	14530.8	13767.3	13897.4	13251.4
50°	14270.7	14488.8	14849.5	15629.8	17215.4	17169.3	15696.9	15436.8	14388.2	14652.4	14035.8
52.5°	12953.5	12903.2	13331.0	14606.2	17110.6	18687.8	17400.0	16779.2	15722.1	15520.7	15306.8
55°	9870.3	9987.8	10365.3	11653.1	14857.9	18708.8	19719.7	19212.1	17148.3	16804.4	16556.9
56°	8658.0	8674.8	9031.4	10206.0	13557.6	18041.8	20160.2	19749.1	17857.2	17332.8	16955.3
57.5°	7177.3	7080.8	7265.4	7907.2	11443.4	16632.4	19677.8	20080.5	18687.8	17903.4	17379.0
60°	5650.4	5629.4	5553.9	5671.4	7231.8	12529.8	16380.7	17286.8	18603.9	17366.5	16644.9
62.5°	4614.2	4509.4	4660.4	4828.2	5025.4	7772.9	11510.5	12043.3	14769.9	13863.8	12504.7
65°	3578.1	3527.8	3716.5	4261.9	4379.3	4937.3	6556.4	6967.5	8721.0	8565.8	7542.3
67.5°	2462.4	2470.8	2634.3	3464.9	4060.6	4010.2	4014.4	4228.4	4551.3	3381.0	2944.8
70°	1560.5	1556.3	1644.3	2231.6	3267.7	3301.3	3133.5	3070.6	2911.2	1761.8	1866.7
72.5°	1002.6	973.2	1019.4	1233.2	1690.5	1954.7	2013.5	2051.3	1686.3	1384.3	1501.8
75°	566.3	536.9	520.2	574.7	667.0	771.9	847.3	872.5	977.4	1048.7	1111.6
77.5°	172.0	155.2	188.8	251.7	331.4	444.6	541.1	557.9	658.6	742.5	805.4
80°	75.5	83.9	117.5	167.8	234.9	314.6	381.7	406.9	474.0	536.9	553.7
82.5°	46.2	50.4	79.7	113.3	163.6	222.4	272.7	281.1	348.2	398.5	411.1
85°	16.8	20.9	42.0	67.1	104.9	142.6	142.6	155.2	142.6	142.6	155.2
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	16.8	16.8	20.9	25.1	29.4
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°	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4	10818.4
2.5°	10847.7	10826.8	10793.2	10671.5	10659.0	10621.2	10411.5	10377.9	10411.5	10310.8	10319.2
5°	10826.8	10889.7	10638.0	10516.4	10289.8	10126.2	9937.4	9841.0	9669.0	9559.9	9681.6
7.5°	10919.0	10893.9	10579.3	10315.0	9975.2	9559.9	9228.5	9039.7	8737.7	8653.9	8716.8
10°	10885.5	10751.3	10382.1	10034.0	9392.1	9027.2	8490.2	7970.1	7684.9	7538.1	7517.1
12.5°	10839.3	10801.6	10184.9	9585.1	8909.7	8142.1	7387.0	6896.2	6430.6	6229.3	6258.6
15°	10893.9	10575.1	9815.8	9056.6	8158.9	7152.1	6338.4	5704.9	5381.9	5251.9	5251.9
17.5°	10868.7	10466.0	9639.6	8465.1	7328.3	6136.9	5243.5	4861.7	4727.5	4727.5	4765.3
20°	10881.3	10537.3	9283.0	7873.6	6346.7	5167.9	4517.8	4379.3	4438.1	4459.1	4480.0
22.5°	10952.6	10302.4	8934.9	7223.4	5436.5	4421.3	4102.5	4106.7	4211.6	4324.8	4303.8
25°	11040.7	10210.2	8511.3	6577.5	4740.1	4056.4	3955.7	3943.1	4022.8	4081.5	4090.0
27.5°	10965.2	10050.7	8079.2	5772.0	4169.6	3813.1	3792.1	3800.5	3825.6	3943.1	3905.4
30°	11212.7	10096.9	7538.1	5096.7	3855.0	3733.4	3708.2	3695.6	3733.4	3766.9	3737.6
32.5°	11518.9	9933.3	7135.4	4446.5	3699.8	3674.7	3624.3	3607.6	3628.5	3594.9	3611.7
35°	11653.1	9903.9	6611.0	3980.9	3578.1	3557.2	3527.8	3523.6	3527.8	3498.5	3473.3
37.5°	11728.7	10042.3	6011.1	3766.9	3502.7	3523.6	3456.5	3448.1	3372.6	3389.4	3402.0
40°	11858.7	9828.4	5524.5	3561.4	3456.5	3414.5	3355.8	3343.2	3292.9	3263.6	3292.9
42.5°	11669.9	9765.4	5046.3	3473.3	3389.4	3343.2	3301.3	3230.0	3213.2	3188.1	3171.2
45°	11518.9	9404.7	4618.4	3364.3	3309.7	3284.5	3204.8	3129.3	3066.4	3091.6	3053.8
47.5°	11632.1	9278.9	4194.8	3271.9	3200.6	3171.2	3091.6	3032.8	2969.9	2940.6	2932.1
50°	12085.2	9513.8	3838.2	3204.8	3108.3	3091.6	2986.7	2919.6	2860.8	2839.9	2848.3
52.5°	13167.5	10155.6	3594.9	3066.4	3020.3	2944.8	2886.0	2802.1	2764.4	2697.3	2739.2
55°	14539.1	11200.1	3532.0	2936.4	2911.2	2844.1	2764.4	2701.5	2630.1	2575.6	2563.0
56°	14979.6	11699.2	3481.7	2886.0	2844.1	2806.3	2701.5	2663.7	2550.4	2537.9	2529.5
57.5°	15336.1	12139.8	3490.1	2789.5	2747.6	2714.0	2651.1	2558.8	2483.3	2437.1	2458.2
60°	14530.8	11363.7	3330.7	2642.8	2634.3	2571.4	2483.3	2441.3	2349.1	2294.6	2282.0
62.5°	10801.6	7714.2	2701.5	2454.0	2449.7	2382.6	2282.0	2235.8	2219.1	2143.5	2143.5
65°	6220.9	4836.6	2336.5	2298.7	2265.1	2198.0	2097.4	2059.6	2017.7	1992.5	1971.6
67.5°	2655.3	2508.5	2122.6	2118.4	2080.6	1996.7	1896.0	1837.3	1782.8	1732.5	1757.6
70°	1925.4	1954.7	1917.1	1896.0	1849.9	1745.1	1656.9	1585.6	1501.8	1468.2	1493.4
72.5°	1526.9	1589.8	1644.3	1648.5	1594.0	1472.3	1375.9	1279.4	1187.2	1141.0	1161.9
75°	1157.8	1199.7	1254.3	1266.8	1187.2	1103.2	1011.0	910.3	839.0	784.4	792.8
77.5°	834.8	826.4	876.7	868.3	830.6	771.9	687.9	595.7	516.0	465.7	469.8
80°	570.5	583.1	612.4	608.2	562.1	524.4	461.5	385.9	327.2	285.3	276.9
82.5°	398.5	419.5	444.6	423.7	385.9	348.2	302.0	247.5	201.3	167.8	159.4
85°	142.6	163.6	188.8	201.3	214.0	205.5	172.0	138.4	100.7	83.9	79.7
87.5°	29.4	33.6	37.8	37.8	37.8	33.6	29.4	29.4	25.1	12.6	12.6
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)