

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: P652550

Luminaire Tested: **GALN-SA8B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652550
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-SA8B-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 32752.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

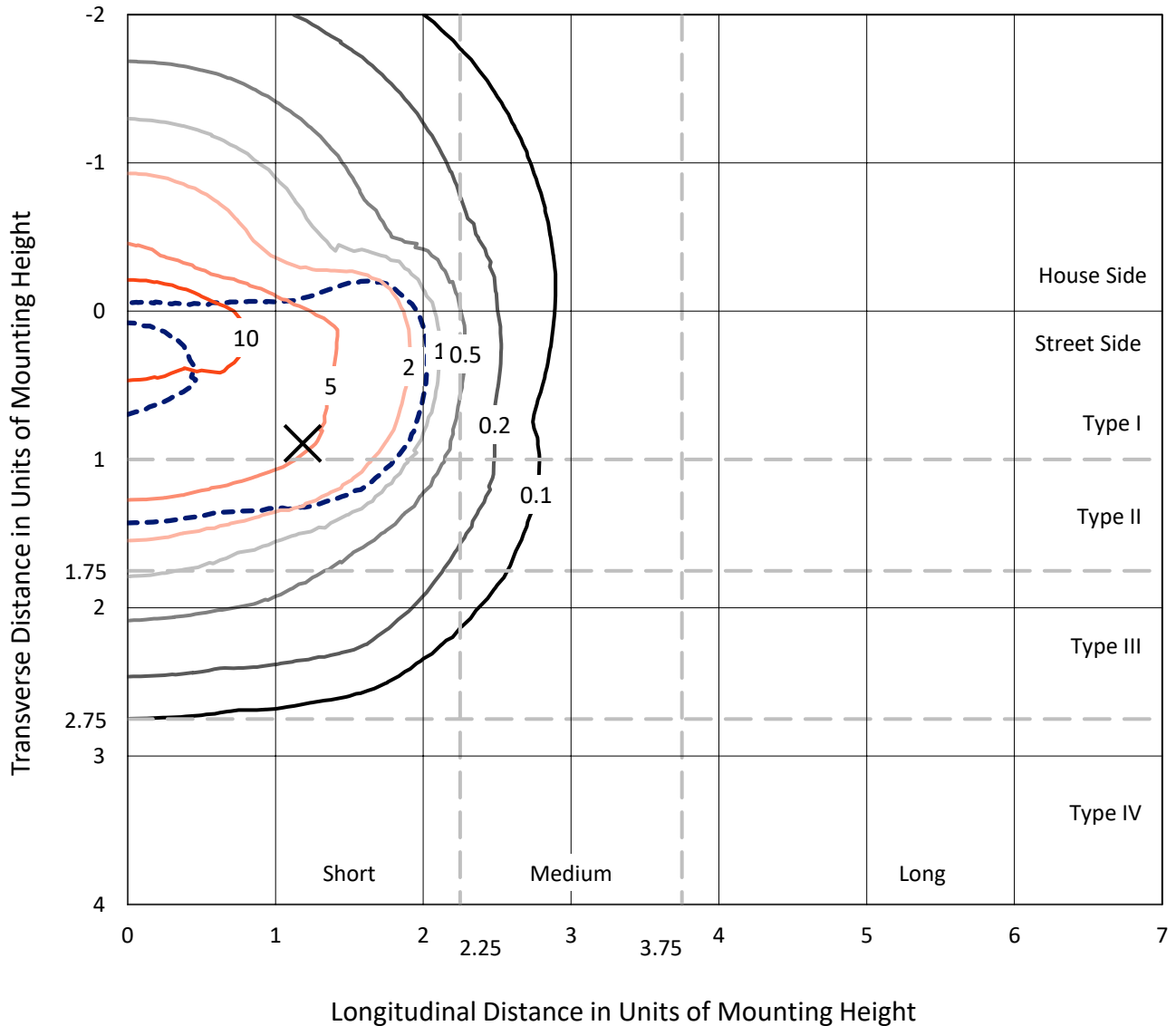
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

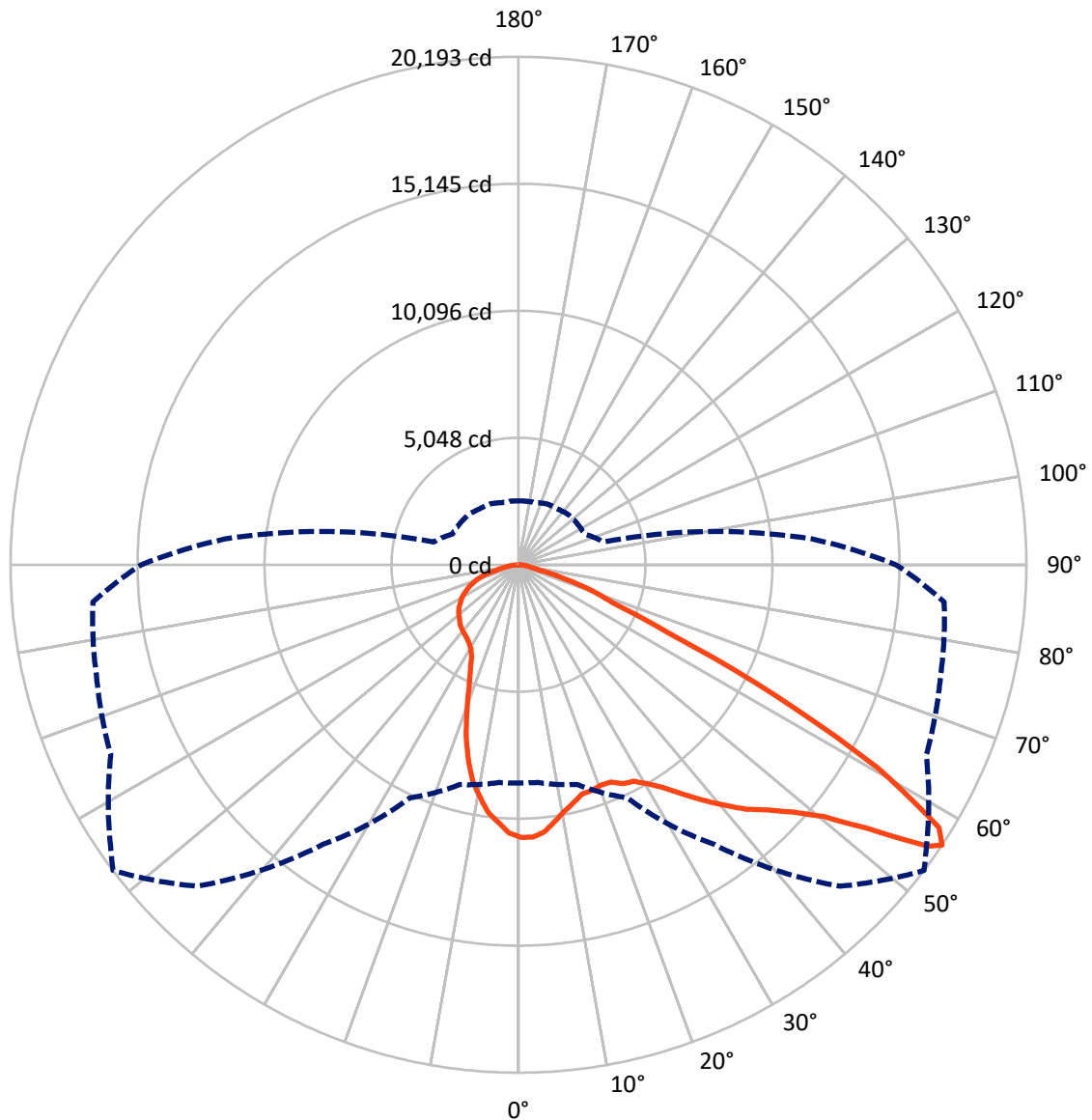
✕ Max cd
 - - - 1/2 Max cd



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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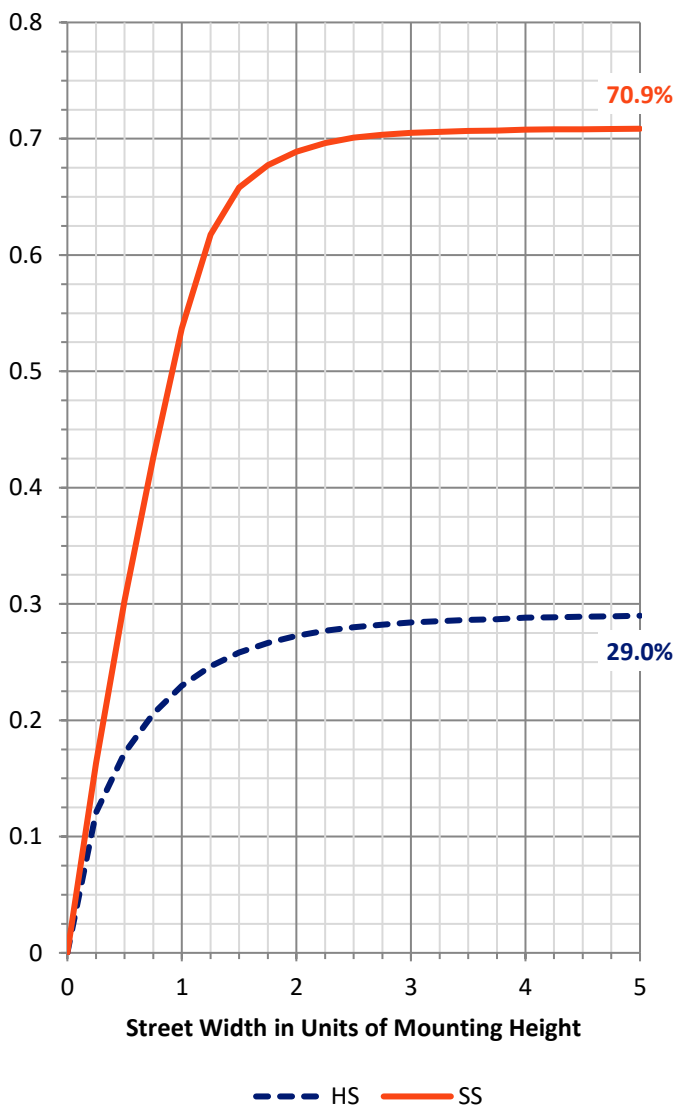
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9558.0	0.0	9558.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23194.8	0.0	23194.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	32752.7	0.0	32752.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.3	2.9
10°-20°	2395.9	7.3
20°-30°	3532.9	10.8
30°-40°	5047.9	15.4
40°-50°	6947.7	21.2
50°-60°	8210.3	25.1
60°-70°	4375.6	13.4
70°-80°	1110.1	3.4
80°-90°	173.1	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°	32752.7	100.0
0°-180°	32752.7	100.0

Coefficient of Utilization



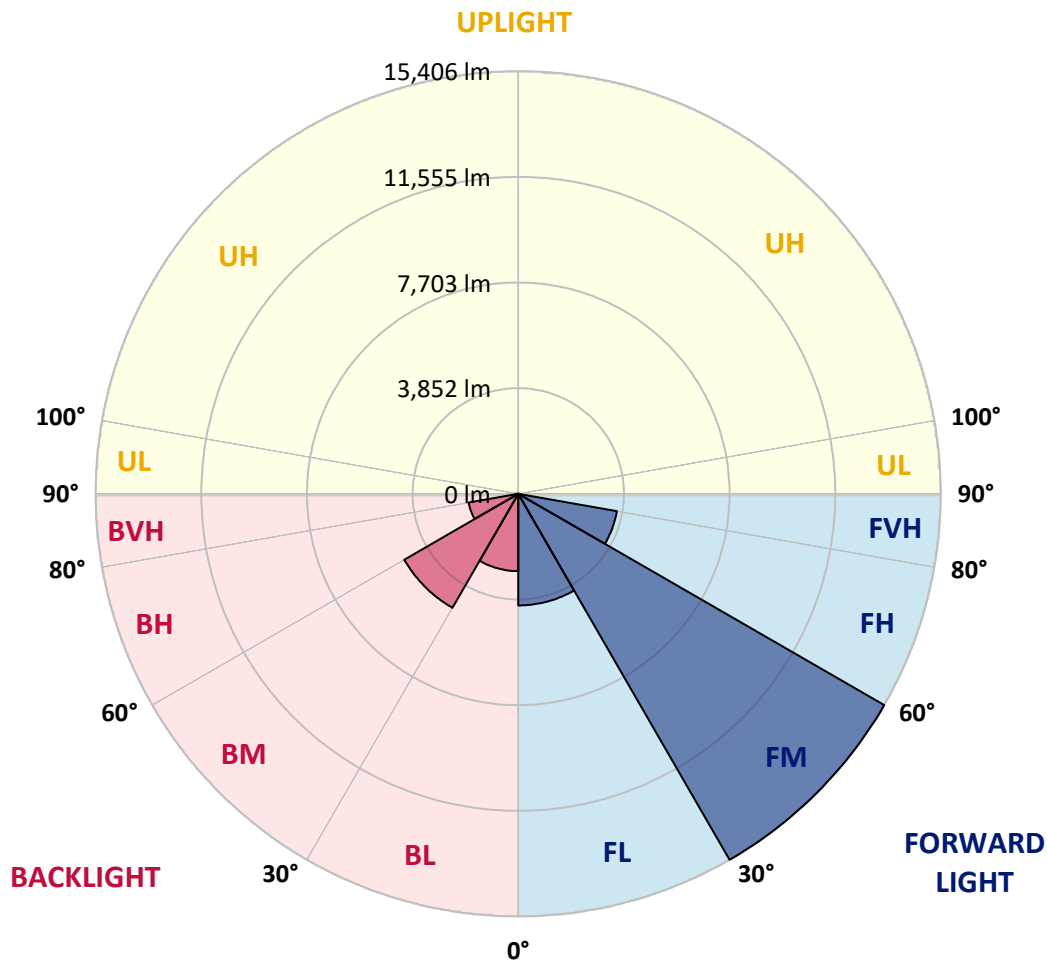
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4069.1	12.4			
FM (30°-60°)	15406.3	47.0			
FH (60°-80°)	3649.9	11.1			G2/5000
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	2819.0	8.6	B4/5000		
BM (30°-60°)	4799.7	14.7	B3/5000		
BH (60°-80°)	1835.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	103.5	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°	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9
2.5°	10701.5	10609.0	10663.6	10642.6	10814.9	10865.3	10840.1	10861.1	10957.7	10911.6	10814.9
5°	9999.7	10130.0	10155.2	10218.2	10319.1	10516.5	10672.0	10714.1	10760.3	10974.5	10953.5
7.5°	9361.2	9449.4	9403.1	9588.0	9806.5	10125.8	10314.9	10348.5	10772.9	10890.5	10978.8
10°	8957.8	8869.5	9079.6	9130.1	9377.9	9743.5	9970.4	10109.0	10495.6	10961.9	11016.6
12.5°	8583.8	8554.4	8680.5	8823.4	9100.6	9478.8	9709.8	9764.5	10361.1	10852.7	11109.0
15°	8306.6	8272.9	8399.0	8504.0	8827.6	9163.7	9457.8	9613.2	10214.0	10789.7	11029.2
17.5°	8088.1	8083.9	8155.3	8344.3	8676.3	8957.8	9432.6	9441.0	10138.4	10886.3	11096.4
20°	8075.5	8071.2	8083.9	8293.9	8596.4	8941.0	9352.8	9428.4	10138.4	10819.1	11100.6
22.5°	8180.5	8113.3	8188.9	8323.4	8541.9	8970.4	9382.1	9550.2	10382.1	11151.0	11289.7
25°	8348.5	8365.3	8407.4	8453.6	8579.6	9037.6	9642.7	9781.3	10667.8	11436.8	11550.2
27.5°	8655.2	8646.9	8663.6	8688.9	8798.1	9100.6	9747.7	10104.8	11264.4	11945.1	11831.7
30°	9104.8	9075.4	9142.7	9230.9	9130.1	9302.3	10096.5	10365.3	11819.1	12457.7	12146.8
32.5°	9512.4	9621.6	9747.7	9785.5	9663.7	9697.2	10558.6	10831.7	12281.2	13088.0	12533.3
35°	10020.8	10109.0	10277.1	10394.8	10373.7	10272.9	11188.8	11550.2	12949.3	13550.1	12940.9
37.5°	10516.5	10621.6	10898.9	11247.6	11054.4	11008.2	11861.1	12159.4	13155.2	13798.0	13239.2
40°	11314.9	11310.7	11789.6	11970.3	12142.6	12062.8	12558.6	12659.4	13264.4	13743.4	13247.6
42.5°	12251.9	12193.0	12680.4	12961.9	13184.6	13193.0	13285.4	13251.8	13314.8	13466.1	13159.4
45°	13142.6	13268.6	13760.2	14264.4	14487.1	14512.3	13898.9	13835.8	13403.1	13386.3	12991.3
47.5°	14230.8	14260.2	14663.5	15327.4	15844.2	15667.7	14692.9	14554.3	13789.6	13919.9	13272.8
50°	14293.8	14512.3	14873.6	15655.1	17243.4	17197.1	15722.3	15461.9	14411.5	14676.1	14058.5
52.5°	12974.5	12924.1	13352.6	14630.0	17138.3	18718.1	17428.2	16806.4	15747.6	15545.9	15331.6
55°	9886.4	10003.9	10382.1	11672.0	14882.0	18739.1	19751.6	19243.3	17176.1	16831.6	16583.7
56°	8672.1	8688.9	9046.0	10222.4	13579.5	18071.1	20192.8	19781.1	17886.1	17360.9	16982.8
57.5°	7189.0	7092.3	7277.2	7920.0	11461.9	16659.3	19709.7	20113.0	18718.1	17932.4	17407.2
60°	5659.5	5638.6	5562.9	5680.5	7243.5	12550.2	16407.2	17314.8	18634.0	17394.6	16671.9
62.5°	4621.7	4516.7	4668.0	4836.0	5033.5	7785.6	11529.2	12062.8	14793.8	13886.3	12524.9
65°	3583.9	3533.5	3722.6	4268.8	4386.5	4945.2	6567.1	6978.9	8735.1	8579.6	7554.5
67.5°	2466.3	2474.7	2638.6	3470.6	4067.2	4016.7	4020.9	4235.2	4558.7	3386.5	2949.6
70°	1563.0	1558.8	1647.0	2235.2	3273.0	3306.6	3138.6	3075.5	2915.9	1764.7	1869.7
72.5°	1004.2	974.8	1021.0	1235.3	1693.3	1957.9	2016.8	2054.6	1689.1	1386.6	1504.1
75°	567.3	537.8	521.0	575.6	668.1	773.1	848.7	874.0	979.0	1050.4	1113.4
77.5°	172.2	155.4	189.1	252.1	331.9	445.4	542.0	558.8	659.7	743.7	806.7
80°	75.6	84.0	117.7	168.0	235.3	315.1	382.3	407.5	474.7	537.8	554.6
82.5°	46.3	50.5	79.8	113.5	163.8	222.7	273.1	281.5	348.8	399.1	411.8
85°	16.8	21.0	42.0	67.2	105.0	142.9	142.9	155.4	142.9	142.9	155.4
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	16.8	16.8	21.0	25.2	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°	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9	10835.9
2.5°	10865.3	10844.3	10810.7	10688.9	10676.2	10638.4	10428.3	10394.8	10428.3	10327.5	10335.9
5°	10844.3	10907.3	10655.2	10533.4	10306.5	10142.6	9953.6	9856.9	9684.7	9575.5	9697.2
7.5°	10936.7	10911.6	10596.4	10331.7	9991.4	9575.5	9243.5	9054.5	8752.0	8667.9	8730.9
10°	10903.1	10768.7	10399.0	10050.2	9407.3	9041.8	8504.0	7983.0	7697.3	7550.2	7529.2
12.5°	10856.9	10819.1	10201.5	9600.6	8924.2	8155.3	7399.0	6907.4	6441.1	6239.4	6268.7
15°	10911.6	10592.2	9831.7	9071.2	8172.1	7163.7	6348.6	5714.2	5390.6	5260.4	5260.4
17.5°	10886.3	10483.0	9655.3	8478.8	7340.2	6147.0	5252.0	4869.6	4735.2	4735.2	4773.0
20°	10898.9	10554.4	9298.1	7886.4	6357.0	5176.4	4525.1	4386.5	4445.3	4466.3	4487.3
22.5°	10970.3	10319.1	8949.4	7235.1	5445.2	4428.5	4109.1	4113.3	4218.4	4331.8	4310.8
25°	11058.6	10226.6	8525.0	6588.1	4747.8	4063.0	3962.1	3949.5	4029.3	4088.2	4096.5
27.5°	10983.0	10067.0	8092.3	5781.4	4176.4	3819.2	3798.2	3806.6	3831.8	3949.5	3911.7
30°	11230.9	10113.2	7550.2	5105.0	3861.3	3739.4	3714.2	3701.6	3739.4	3773.1	3743.6
32.5°	11537.6	9949.4	7146.9	4453.7	3705.8	3680.6	3630.2	3613.4	3634.4	3600.7	3617.6
35°	11672.0	9919.9	6621.7	3987.3	3583.9	3563.0	3533.5	3529.3	3533.5	3504.1	3478.9
37.5°	11747.7	10058.6	6020.9	3773.1	3508.3	3529.3	3462.1	3453.7	3378.0	3394.9	3407.5
40°	11877.9	9844.3	5533.5	3567.2	3462.1	3420.1	3361.3	3348.7	3298.2	3268.8	3298.2
42.5°	11688.8	9781.3	5054.5	3478.9	3394.9	3348.7	3306.6	3235.2	3218.4	3193.2	3176.4
45°	11537.6	9420.0	4625.9	3369.6	3315.1	3289.8	3210.0	3134.4	3071.3	3096.6	3058.7
47.5°	11651.0	9293.9	4201.6	3277.2	3205.8	3176.4	3096.6	3037.8	2974.7	2945.4	2936.9
50°	12104.8	9529.2	3844.5	3210.0	3113.4	3096.6	2991.5	2924.3	2865.5	2844.5	2852.8
52.5°	13188.8	10172.1	3600.7	3071.3	3025.2	2949.6	2890.7	2806.7	2768.8	2701.6	2743.7
55°	14562.7	11218.3	3537.8	2941.1	2915.9	2848.7	2768.8	2705.8	2634.4	2579.8	2567.2
56°	15003.9	11718.2	3487.3	2890.7	2848.7	2810.9	2705.8	2668.0	2554.5	2541.9	2533.6
57.5°	15361.0	12159.4	3495.7	2794.1	2752.0	2718.4	2655.4	2562.9	2487.3	2441.1	2462.1
60°	14554.3	11382.1	3336.1	2647.0	2638.6	2575.6	2487.3	2445.3	2352.9	2298.3	2285.7
62.5°	10819.1	7726.7	2705.8	2457.9	2453.7	2386.5	2285.7	2239.4	2222.7	2147.0	2147.0
65°	6231.0	4844.4	2340.3	2302.5	2268.8	2201.7	2100.8	2063.0	2020.9	1995.8	1974.8
67.5°	2659.6	2512.6	2126.0	2121.8	2084.0	2000.0	1899.1	1840.3	1785.7	1735.2	1760.5
70°	1928.5	1957.9	1920.1	1899.1	1852.9	1747.9	1659.6	1588.2	1504.1	1470.6	1495.8
72.5°	1529.4	1592.4	1647.0	1651.2	1596.6	1474.8	1378.1	1281.5	1189.1	1142.8	1163.9
75°	1159.7	1201.6	1256.3	1268.9	1189.1	1105.0	1012.6	911.7	840.3	785.7	794.1
77.5°	836.1	827.7	878.2	869.8	831.9	773.1	689.0	596.6	516.8	466.3	470.5
80°	571.4	584.0	613.4	609.2	563.0	525.2	462.2	386.5	327.7	285.7	277.3
82.5°	399.1	420.2	445.4	424.4	386.5	348.8	302.5	247.9	201.7	168.0	159.6
85°	142.9	163.8	189.1	201.7	214.3	205.9	172.2	138.7	100.8	84.0	79.8
87.5°	29.4	33.6	37.8	37.8	37.8	33.6	29.4	29.4	25.2	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)