

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: P647109

Luminaire Tested: **GALN-SA8C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37605.9 lumens
Efficiency: N/A
Efficacy: 87.7 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

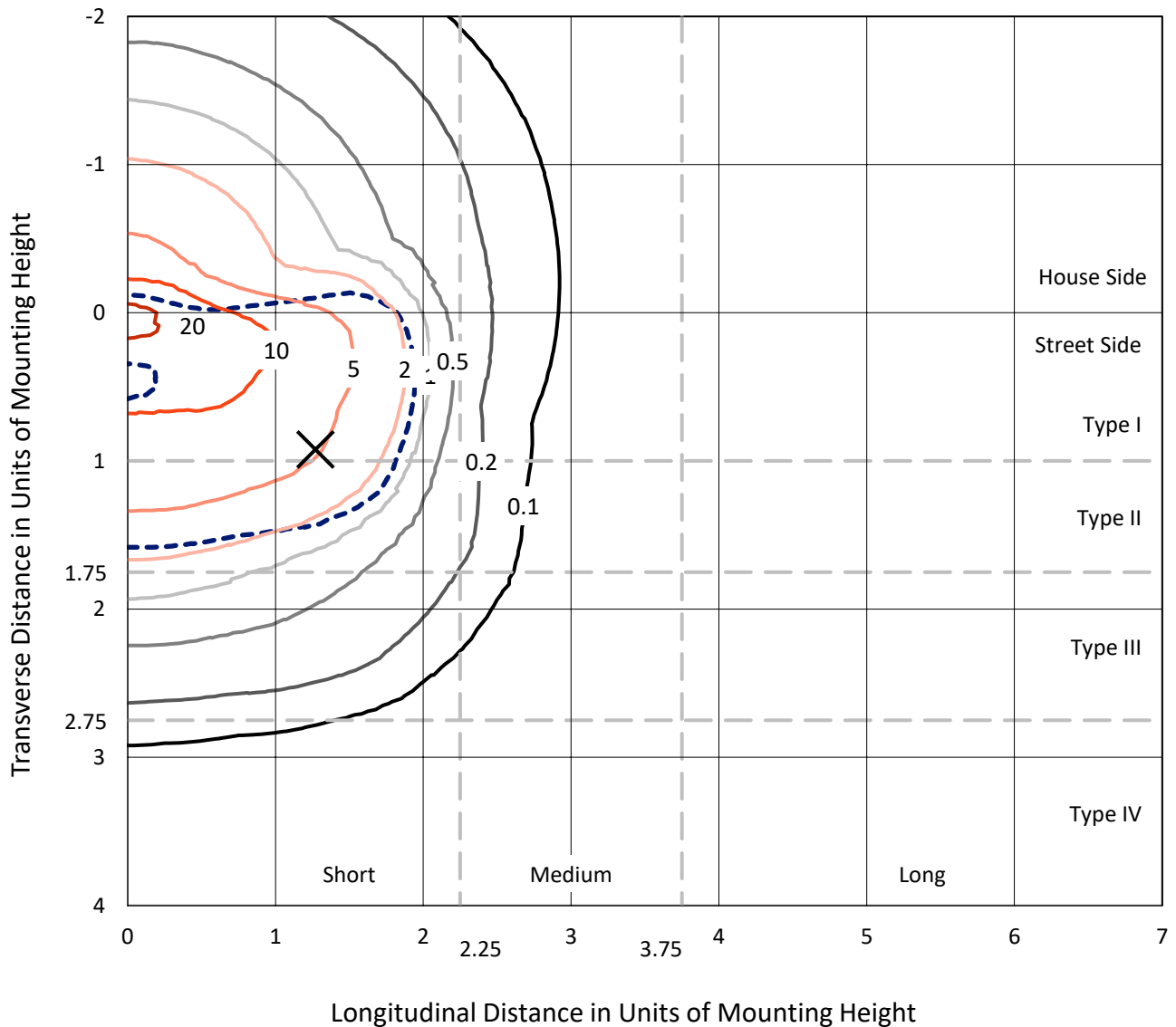
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

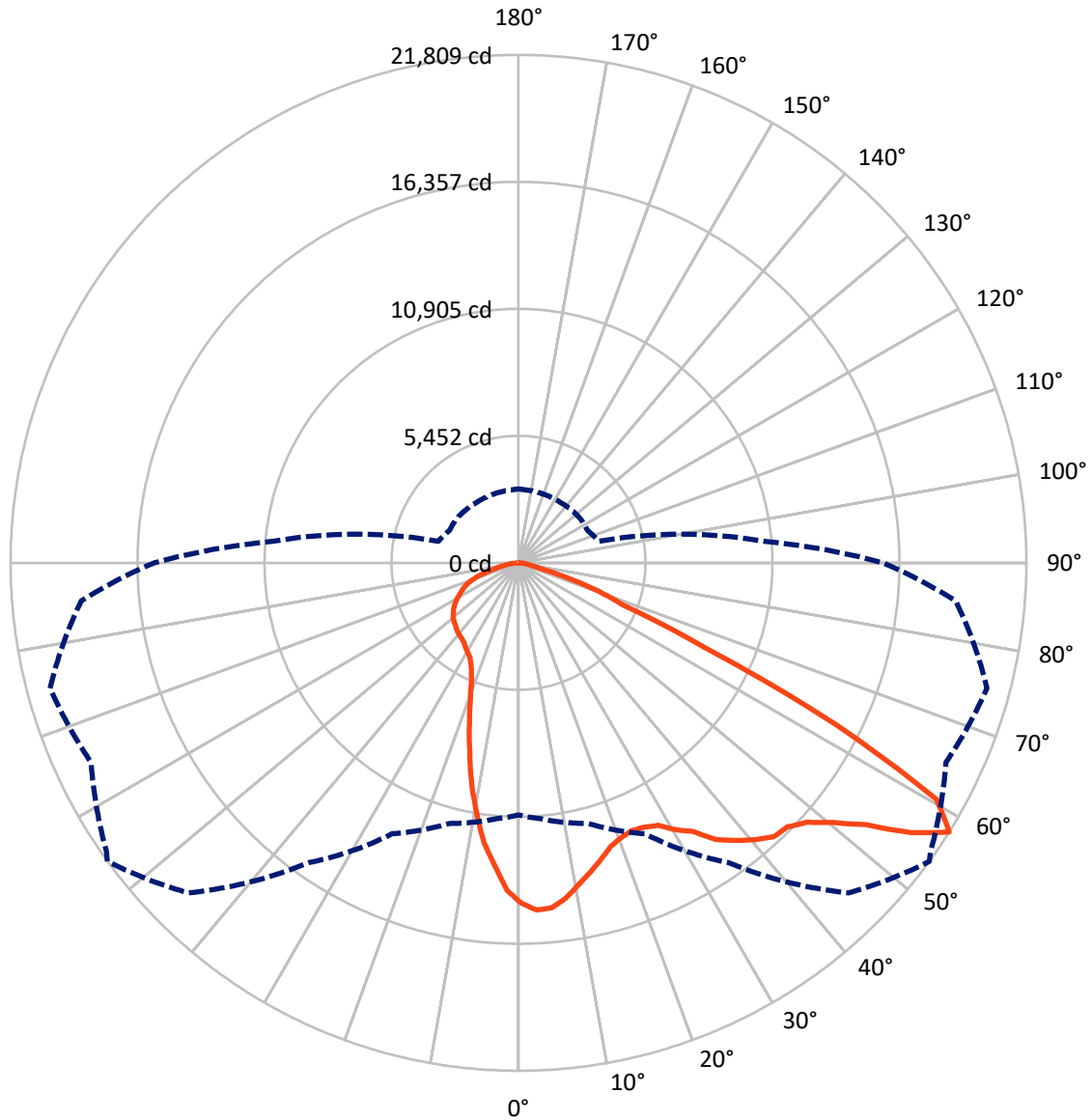
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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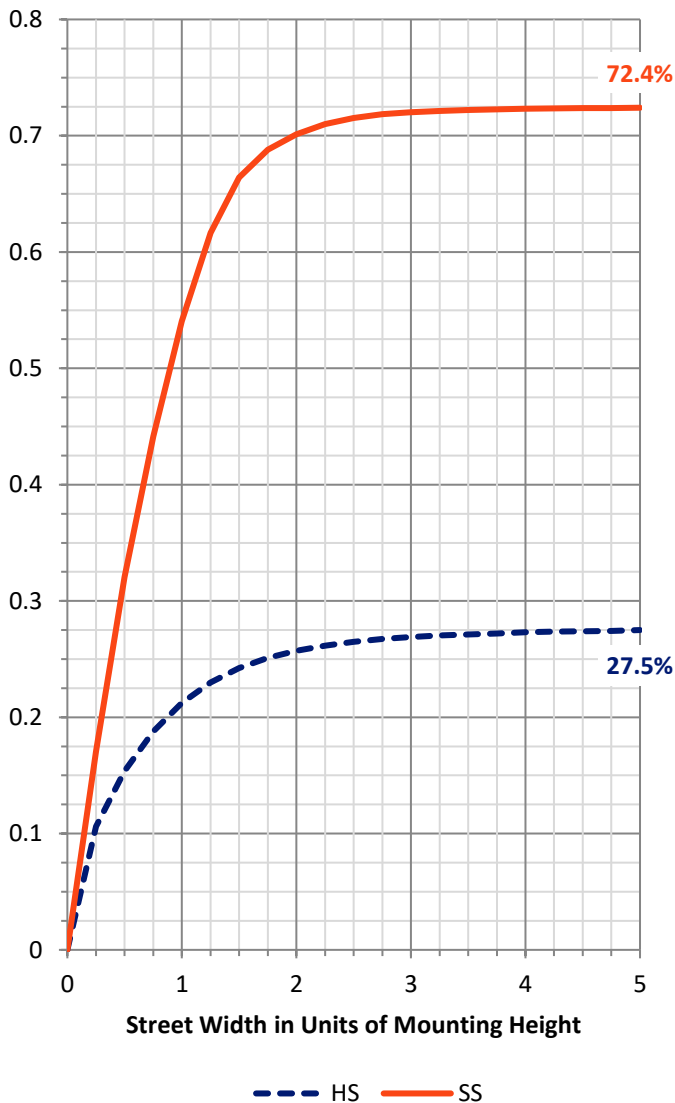
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10403.9	0.0	10403.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	27202.0	0.0	27202.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	37605.9	0.0	37605.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1260.6	3.4
10°-20°	2918.7	7.8
20°-30°	4100.8	10.9
30°-40°	5733.0	15.2
40°-50°	7761.3	20.6
50°-60°	9453.6	25.1
60°-70°	4923.9	13.1
70°-80°	1261.7	3.4
80°-90°	192.5	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°	37605.9	100.0
0°-180°	37605.9	100.0



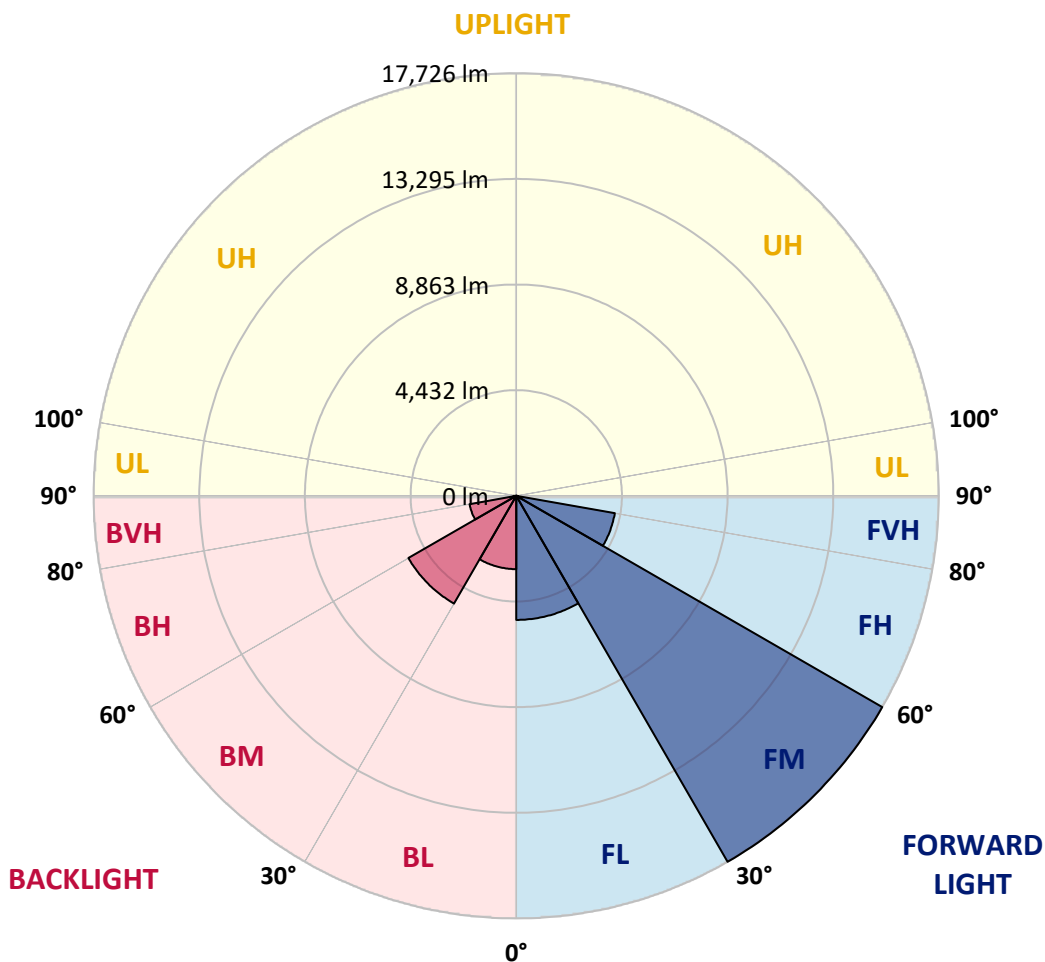
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5205.2	13.8			
FM (30°-60°)	17726.3	47.1			
FH (60°-80°)	4197.9	11.2			G2/5000
FVH (80°-90°)	72.7	0.2			G1/100
BL (0°-30°)	3074.9	8.2	B4/5000		
BM (30°-60°)	5221.6	13.9	B4/8500		
BH (60°-80°)	1987.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	119.7	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°	54°	55°	65°	75°	85°
0°	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0
2.5°	15032.7	14974.7	14984.3	15061.7	14965.0	14926.3	14926.3	14737.9	14752.3	14621.8	14588.0
5°	14684.7	14549.3	14641.2	14757.2	14776.5	14815.1	14878.0	14829.7	14694.3	14554.2	14326.9
7.5°	13775.9	13896.8	13930.6	14012.8	14186.8	14346.3	14544.5	14409.2	14404.3	14264.1	14128.8
10°	12978.4	12905.9	13089.6	13210.4	13500.4	13766.2	14070.8	14056.3	14128.8	13969.3	13737.3
12.5°	12185.7	12127.7	12214.6	12490.2	12896.2	13282.9	13645.4	13510.1	13896.8	13867.8	13369.9
15°	11344.6	11388.1	11513.8	11770.0	12301.6	12765.7	13224.9	13229.7	13572.9	13689.0	13021.9
17.5°	10754.9	10706.6	10866.1	11248.0	11721.7	12277.5	12799.5	12905.9	13432.8	13500.4	12915.5
20°	10315.0	10382.7	10590.5	10783.9	11330.1	12002.0	12591.7	12630.3	13403.7	13587.4	12746.4
22.5°	10208.7	10170.0	10237.7	10551.9	11001.4	11731.3	12480.6	12625.6	13398.9	13558.4	12427.3
25°	10097.5	10223.2	10218.4	10532.5	10861.2	11513.8	12572.3	12731.9	13655.1	13708.3	12470.8
27.5°	10348.8	10334.3	10469.7	10493.8	10899.9	11571.8	12765.7	12886.5	14080.5	14036.9	12504.7
30°	10600.3	10527.7	10609.9	10895.1	11083.6	11905.3	13297.4	13287.7	14631.5	14602.5	12611.0
32.5°	10909.5	10875.7	10928.9	11180.2	11499.3	12350.0	13746.9	14032.1	15192.2	15375.8	12978.4
35°	10967.6	11107.7	11233.5	11571.8	12026.2	13070.2	14592.8	14829.7	15839.9	16415.1	13679.2
37.5°	11334.9	11388.1	11683.0	12282.3	12698.0	14032.1	15129.4	15279.2	16429.6	17082.2	14418.8
40°	11726.4	11789.3	12234.0	12862.3	13432.8	14660.5	15632.0	15680.4	16618.2	17594.6	14902.2
42.5°	12258.2	12316.2	12756.0	13543.9	14307.6	15197.0	16076.8	16130.0	16603.6	18184.2	15670.7
45°	12809.2	12949.4	13466.6	14360.8	15047.2	15825.4	16178.3	16395.8	16739.0	18711.1	16294.3
47.5°	13582.6	13713.1	14138.5	15013.3	15815.7	16376.4	16647.1	16859.8	17062.8	19170.3	16695.4
50°	14404.3	14428.5	14945.7	15738.4	16328.1	16999.9	17522.1	17594.6	17488.1	19702.0	17377.0
52.5°	15008.5	15085.8	15487.0	16260.4	17140.2	17966.7	18682.1	18759.4	18551.6	19900.2	17609.0
55°	14007.9	13964.4	14617.0	15646.5	17686.4	19407.1	20446.4	20504.4	19325.0	20514.1	18367.9
57.5°	10827.4	11035.2	11591.1	12833.4	15714.3	20045.2	21809.4	21601.6	20253.1	20823.4	18851.3
60°	7869.2	7820.8	8193.1	9024.5	11842.5	17275.5	20620.4	20833.0	19494.2	18769.1	15545.1
62.5°	6409.4	6341.8	6370.8	6399.8	7642.0	11465.5	15264.7	15259.9	15013.3	13490.8	10484.2
65°	5123.7	5283.2	5297.7	5515.2	5674.7	6849.3	8845.6	9319.3	8115.7	6656.0	4828.8
67.5°	3862.1	3804.1	3997.4	4770.8	5070.5	4944.8	4828.8	4882.0	3470.6	2503.8	2358.9
70°	2276.7	2252.5	2484.5	3325.6	4176.3	3929.8	3639.8	3644.6	2383.0	1749.8	1947.9
72.5°	1247.1	1242.2	1290.6	1687.0	2373.4	2465.2	2184.8	2252.5	1421.1	1416.3	1522.6
75°	696.0	681.5	667.0	744.4	855.6	903.9	923.2	932.9	976.4	1092.4	1135.9
77.5°	256.2	246.5	246.5	285.2	362.5	454.4	575.2	584.9	691.2	792.7	836.2
80°	87.0	96.7	130.5	178.8	241.7	323.8	391.5	401.2	488.2	555.9	570.3
82.5°	53.2	58.0	87.0	125.7	174.0	227.1	290.0	294.9	362.5	406.1	425.3
85°	24.2	29.0	48.3	77.4	111.2	149.9	154.6	154.6	149.9	154.6	145.0
87.5°	0.0	0.0	9.6	9.6	9.6	14.5	19.3	14.5	24.2	29.0	29.0
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°	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0	14617.0
2.5°	14486.5	14433.3	14269.0	14124.0	14080.5	13887.1	13601.9	13635.8	13427.9	13524.6	13423.0
5°	14288.3	14109.4	13689.0	13510.1	13041.3	12828.5	12683.5	12321.0	12151.8	12118.0	11973.0
7.5°	13780.8	13669.6	13142.7	12659.4	12161.5	11736.2	11189.9	10817.8	10551.9	10479.4	10266.7
10°	13379.6	13133.0	12403.2	11668.4	10957.9	10218.4	9507.8	8952.0	8681.3	8367.1	8260.7
12.5°	12983.2	12611.0	11625.0	10682.4	9764.0	8831.1	7970.7	7294.0	6704.3	6564.1	6515.8
15°	12736.7	12089.0	10928.9	9793.0	8487.9	7269.8	6409.4	5964.7	5602.2	5452.3	5558.7
17.5°	12412.8	11658.8	10261.8	8748.9	7313.3	6191.9	5471.7	5196.2	5065.7	5080.2	5036.6
20°	12006.8	11252.7	9387.0	7801.5	6264.4	5370.2	4959.4	4857.8	4877.2	4911.0	4896.5
22.5°	11716.8	10759.8	8753.8	6834.8	5413.7	4915.8	4746.6	4674.1	4737.0	4766.0	4741.8
25°	11494.4	10339.2	7985.2	5979.2	4920.7	4659.6	4582.3	4577.5	4674.1	4712.8	4688.7
27.5°	11291.4	9947.7	7221.5	5326.7	4592.0	4461.5	4437.3	4495.3	4558.2	4596.8	4630.7
30°	11170.6	9648.0	6506.1	4780.5	4427.6	4364.8	4321.3	4374.5	4408.3	4447.0	4427.6
32.5°	11286.6	9435.3	5814.9	4471.2	4292.3	4229.5	4287.5	4253.6	4311.6	4345.5	4292.3
35°	11649.2	9246.8	5321.9	4306.8	4137.6	4161.8	4171.4	4156.9	4181.1	4152.1	4215.0
37.5°	12006.8	9179.1	4867.5	4166.6	4065.1	4065.1	4055.5	4026.4	4074.8	4065.1	4094.1
40°	12461.2	9222.6	4480.8	4016.8	3997.4	3987.7	3949.1	3944.3	3924.9	3929.8	3939.4
42.5°	12857.6	9319.3	4258.4	3920.1	3934.6	3953.9	3881.4	3823.4	3847.6	3799.3	3799.3
45°	13278.0	9406.3	4060.2	3852.4	3838.0	3833.1	3775.1	3741.3	3721.9	3726.8	3770.2
47.5°	13940.3	9532.0	3910.5	3760.6	3770.2	3697.7	3683.2	3639.8	3659.1	3688.1	3692.9
50°	14409.2	9797.8	3794.4	3654.3	3688.1	3639.8	3552.7	3533.4	3533.4	3581.8	3572.0
52.5°	14737.9	10170.0	3683.2	3538.2	3552.7	3514.1	3485.1	3441.6	3412.5	3480.2	3514.1
55°	15743.2	10788.7	3654.3	3441.6	3436.7	3398.1	3344.9	3301.4	3286.9	3296.6	3364.2
57.5°	15646.5	10595.4	3562.4	3272.4	3262.7	3209.5	3156.4	3141.9	3137.0	3146.7	3166.1
60°	12702.8	7825.7	3180.5	3079.1	3064.5	3054.9	3001.7	2943.7	2914.7	2943.7	2919.5
62.5°	8405.7	5239.7	2803.5	2847.0	2856.7	2832.5	2745.5	2687.5	2697.2	2731.0	2677.9
65°	4128.0	3079.1	2542.5	2658.5	2668.2	2600.5	2518.4	2450.6	2416.8	2445.9	2421.7
67.5°	2358.9	2354.0	2329.8	2450.6	2445.9	2378.1	2247.7	2189.7	2131.6	2141.3	2126.8
70°	2001.1	2039.8	2088.1	2160.6	2155.8	2078.5	1923.8	1880.3	1798.2	1788.5	1764.3
72.5°	1575.8	1643.4	1749.8	1802.9	1759.5	1662.8	1561.3	1488.8	1416.3	1372.8	1387.2
75°	1169.7	1266.4	1324.4	1358.3	1290.6	1237.5	1155.2	1068.2	981.3	942.6	928.1
77.5°	850.7	879.7	932.9	957.1	913.5	860.4	812.0	725.1	642.8	589.7	575.2
80°	594.5	613.9	652.6	652.6	652.6	628.4	565.6	478.6	425.3	377.0	367.4
82.5°	415.7	435.0	473.7	454.4	449.5	420.5	381.9	314.2	256.2	222.4	212.7
85°	145.0	159.5	193.3	232.0	246.5	241.7	217.5	174.0	135.4	111.2	101.5
87.5°	33.8	33.8	38.7	33.8	33.8	38.7	33.8	33.8	33.8	24.2	19.3
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)