

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: P647604

Luminaire Tested: **GALN-SA8D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647604
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-SA8D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA 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: 41380 lumens
Efficiency: N/A
Efficacy: 83.9 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

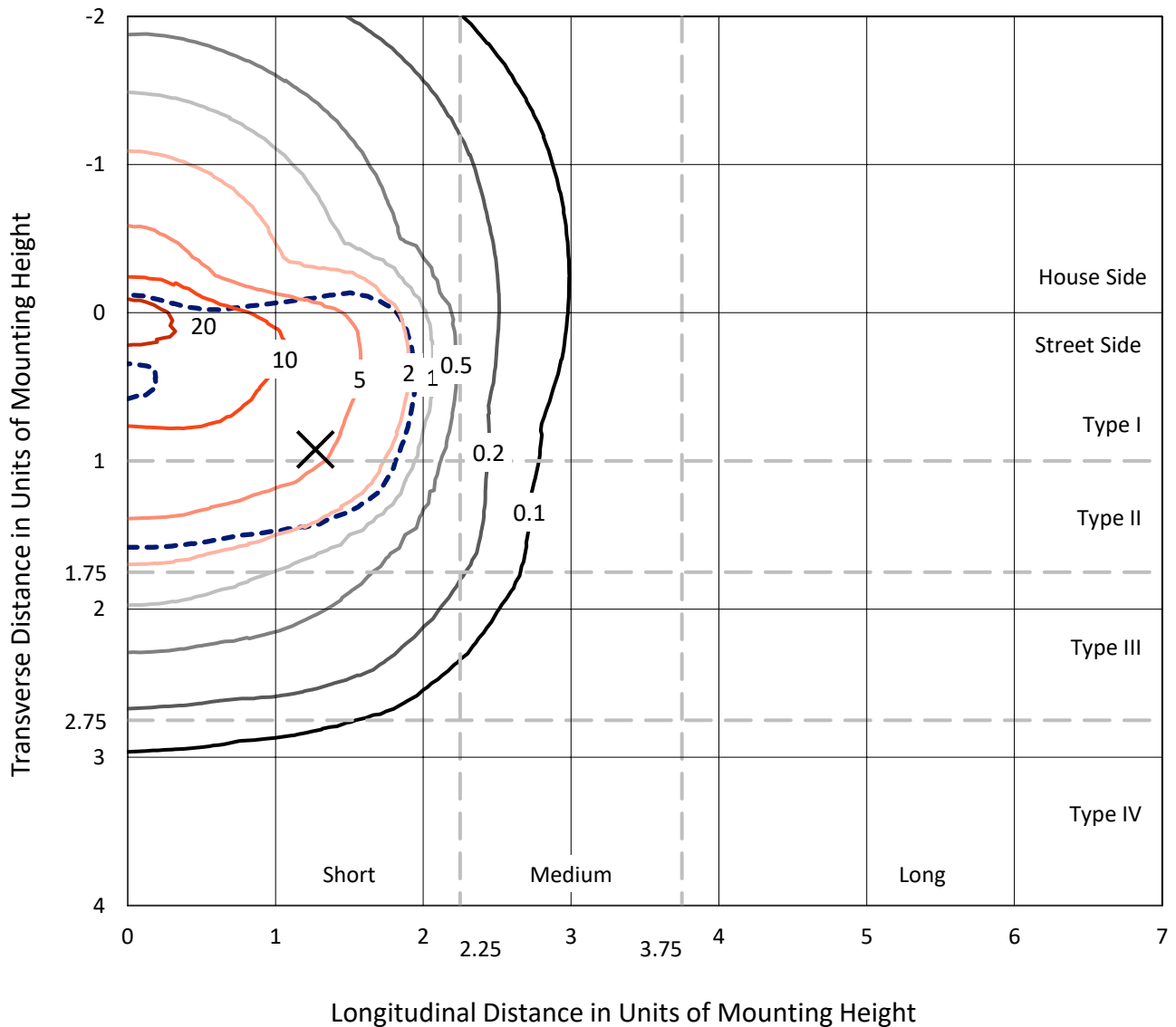
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

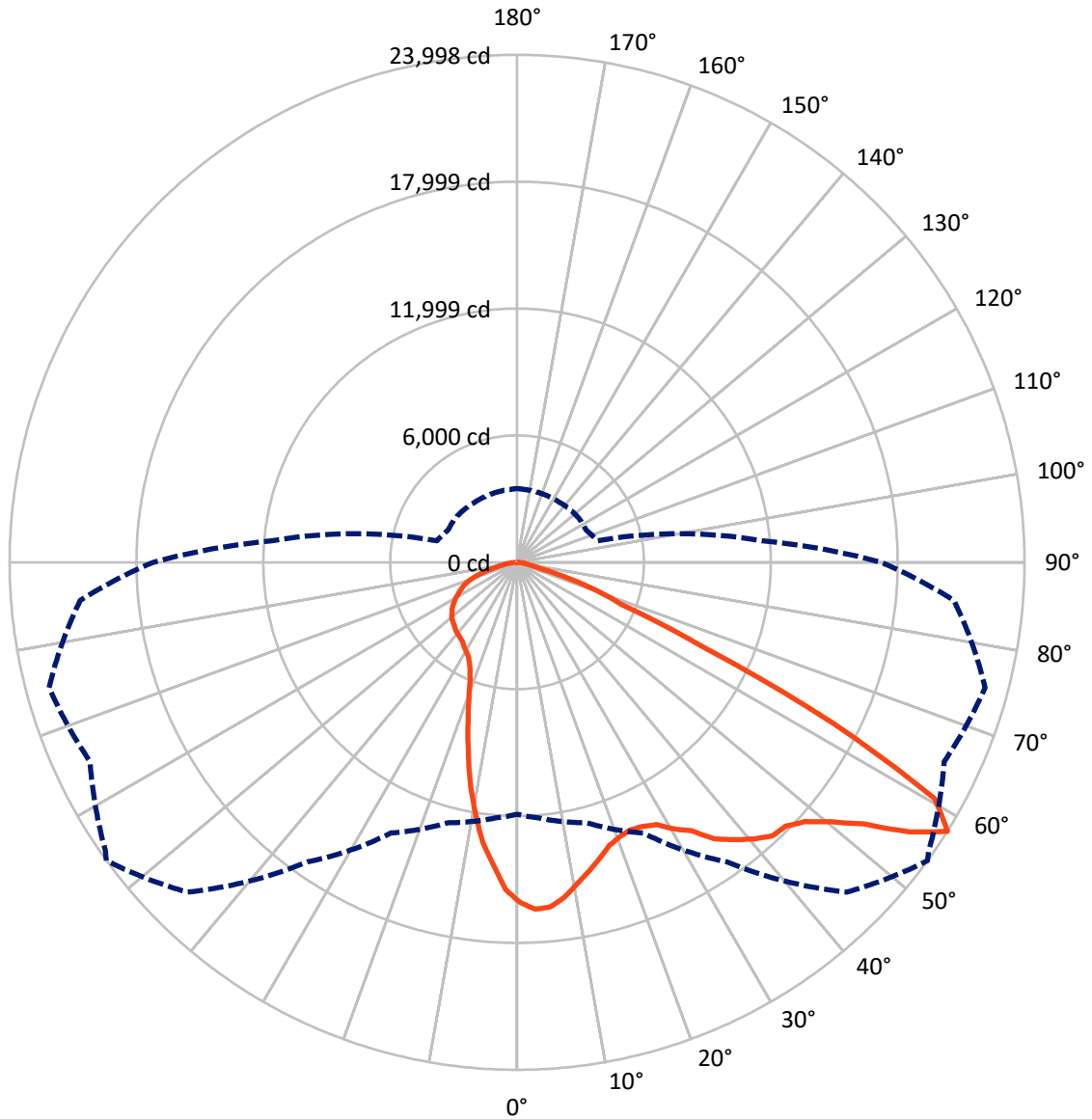
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 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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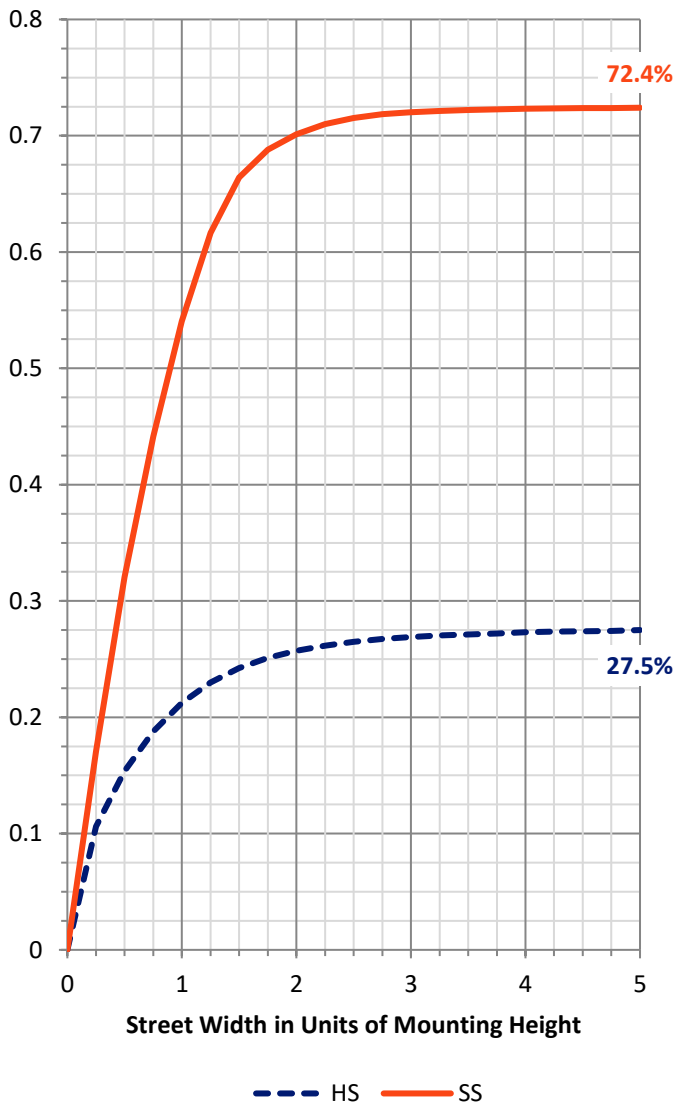
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11448.0	0.0	11448.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	29932.0	0.0	29932.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	41380.0	0.0	41380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1387.1	3.4
10°-20°	3211.6	7.8
20°-30°	4512.3	10.9
30°-40°	6308.3	15.2
40°-50°	8540.2	20.6
50°-60°	10402.4	25.1
60°-70°	5418.0	13.1
70°-80°	1388.3	3.4
80°-90°	211.8	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°	41380.0	100.0
0°-180°	41380.0	100.0



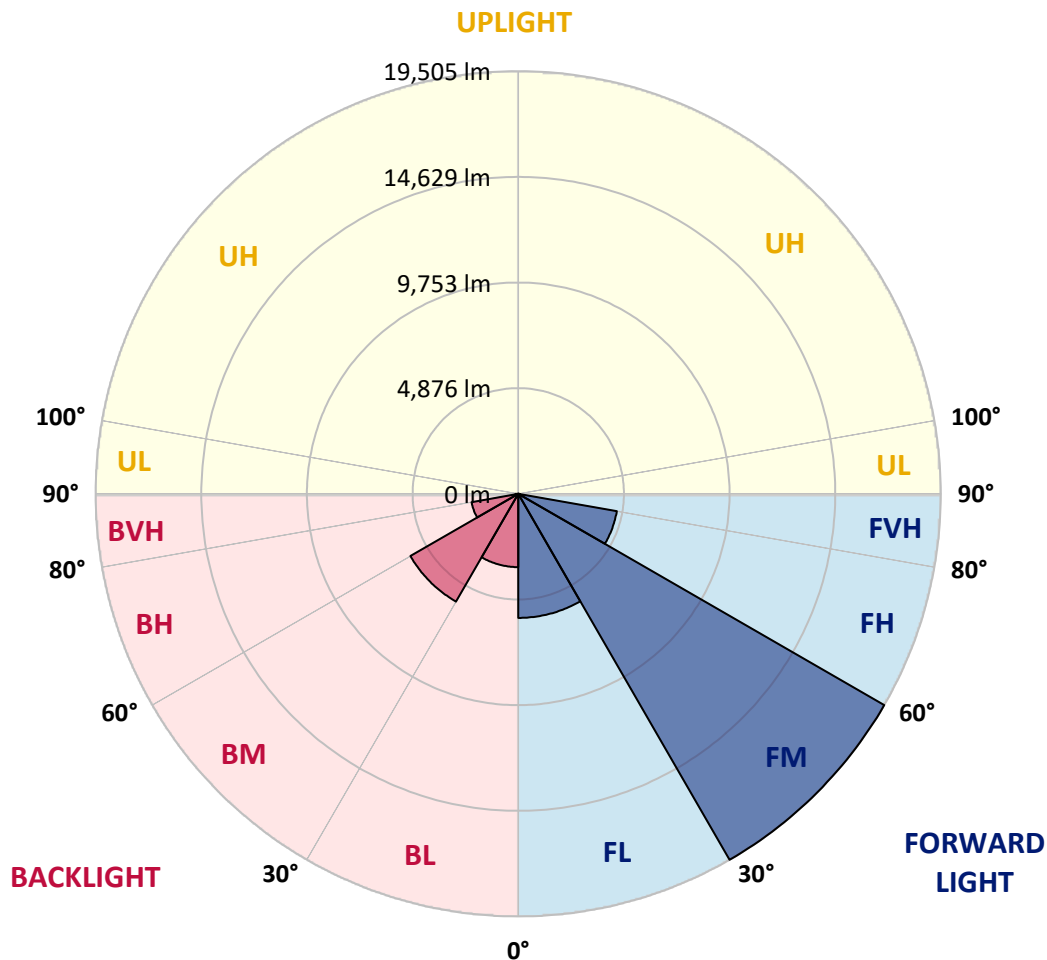
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5727.6	13.8			
FM (30°-60°)	19505.2	47.1			
FH (60°-80°)	4619.2	11.2			G2/5000
FVH (80°-90°)	80.0	0.2			G1/100
BL (0°-30°)	3383.5	8.2	B4/5000		
BM (30°-60°)	5745.6	13.9	B4/8500		
BH (60°-80°)	2187.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	131.7	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°	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9
2.5°	16541.3	16477.5	16488.2	16573.2	16466.9	16424.4	16424.4	16216.9	16232.8	16089.2	16052.0
5°	16158.4	16009.5	16110.5	16238.2	16259.5	16302.0	16371.1	16318.0	16169.0	16014.8	15764.8
7.5°	15158.5	15291.4	15328.6	15419.1	15610.6	15786.1	16004.1	15855.2	15849.9	15695.6	15546.7
10°	14280.9	14201.1	14403.2	14536.2	14855.3	15147.8	15482.9	15466.9	15546.7	15371.2	15115.9
12.5°	13408.6	13344.7	13440.5	13743.7	14190.5	14615.9	15014.9	14866.0	15291.4	15259.5	14711.7
15°	12483.1	12531.0	12669.3	12951.2	13536.3	14046.9	14552.1	14557.5	14935.1	15062.7	14328.7
17.5°	11834.3	11781.0	11956.6	12376.7	12898.0	13509.6	14084.1	14201.1	14780.8	14855.3	14211.7
20°	11350.2	11424.7	11653.4	11866.1	12467.2	13206.5	13855.3	13897.9	14748.9	14951.0	14025.6
22.5°	11233.2	11190.6	11265.1	11610.9	12105.5	12908.6	13733.0	13892.6	14743.6	14919.1	13674.5
25°	11110.8	11249.2	11243.9	11589.6	11951.2	12669.3	13834.1	14009.6	15025.5	15084.0	13722.4
27.5°	11387.5	11371.5	11520.4	11547.1	11993.8	12733.1	14046.9	14179.8	15493.5	15445.7	13759.7
30°	11664.0	11584.3	11674.7	11988.5	12195.9	13100.1	14631.9	14621.3	16099.9	16067.9	13876.6
32.5°	12004.4	11967.2	12025.7	12302.3	12653.4	13589.4	15126.5	15440.4	16716.9	16919.0	14280.9
35°	12068.3	12222.5	12360.8	12733.1	13233.1	14381.9	16057.3	16318.0	17429.6	18062.5	15052.1
37.5°	12472.5	12531.0	12855.5	13515.0	13972.4	15440.4	16647.7	16812.6	18078.5	18796.5	15865.9
40°	12903.3	12972.4	13461.8	14153.2	14780.8	16131.8	17200.9	17254.0	18285.9	19360.3	16397.7
42.5°	13488.3	13552.2	14036.2	14903.2	15743.5	16722.1	17690.2	17748.7	18270.0	20009.2	17243.4
45°	14094.7	14249.0	14818.0	15802.0	16557.3	17413.6	17801.9	18041.3	18418.8	20588.9	17929.5
47.5°	14945.7	15089.3	15557.3	16520.0	17403.0	18020.0	18317.8	18551.9	18775.2	21094.2	18371.0
50°	15849.9	15876.5	16445.6	17317.8	17966.8	18706.1	19280.5	19360.3	19243.2	21679.2	19120.9
52.5°	16514.7	16599.8	17041.3	17892.3	18860.4	19769.8	20557.0	20642.1	20413.4	21897.3	19376.3
55°	15413.7	15365.9	16083.9	17216.8	19461.3	21354.8	22498.3	22562.1	21264.4	22572.8	20211.3
57.5°	11914.0	12142.8	12754.4	14121.3	17291.3	22056.9	23998.2	23769.5	22285.6	22913.2	20743.2
60°	8659.0	8605.7	9015.3	9930.1	13030.9	19009.2	22689.9	22923.8	21450.5	20652.7	17105.1
62.5°	7052.6	6978.2	7010.1	7042.1	8409.0	12616.1	16796.6	16791.4	16520.0	14844.7	11536.4
65°	5637.9	5813.4	5829.4	6068.7	6244.2	7536.7	9733.3	10254.6	8930.2	7323.9	5313.4
67.5°	4249.7	4185.8	4398.6	5249.6	5579.3	5441.1	5313.4	5371.9	3818.8	2755.1	2595.6
70°	2505.1	2478.5	2733.8	3659.3	4595.4	4324.1	4005.0	4010.4	2622.1	1925.4	2143.5
72.5°	1372.2	1366.9	1420.1	1856.3	2611.5	2712.5	2404.0	2478.5	1563.7	1558.4	1675.4
75°	765.9	750.0	734.0	819.1	941.4	994.6	1015.9	1026.5	1074.4	1202.1	1249.9
77.5°	281.9	271.2	271.2	313.8	398.9	499.9	632.9	643.5	760.6	872.3	920.2
80°	95.8	106.4	143.6	196.8	265.9	356.3	430.8	441.5	537.2	611.7	627.6
82.5°	58.5	63.8	95.8	138.3	191.4	250.0	319.2	324.5	398.9	446.8	468.1
85°	26.6	31.9	53.2	85.1	122.3	164.9	170.2	170.2	164.9	170.2	159.6
87.5°	0.0	0.0	10.6	10.6	10.6	16.0	21.3	16.0	26.6	31.9	31.9
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°	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9	16083.9
2.5°	15940.3	15881.8	15701.0	15541.4	15493.5	15280.8	14967.0	15004.2	14775.5	14881.9	14770.2
5°	15722.2	15525.5	15062.7	14866.0	14350.0	14116.0	13956.4	13557.5	13371.4	13334.1	13174.6
7.5°	15163.8	15041.4	14461.7	13929.8	13382.0	12913.9	12312.9	11903.4	11610.9	11531.1	11297.0
10°	14722.4	14451.0	13647.9	12839.5	12057.7	11243.9	10462.0	9850.4	9552.5	9206.7	9089.8
12.5°	14286.1	13876.6	12791.6	11754.5	10743.9	9717.3	8770.6	8026.0	7377.1	7222.9	7169.7
15°	14014.9	13302.2	12025.7	10775.8	9339.7	7999.4	7052.6	6563.3	6164.4	5999.6	6116.6
17.5°	13658.6	12828.8	11291.7	9627.0	8047.3	6813.4	6020.8	5717.7	5574.0	5590.0	5542.2
20°	13211.8	12382.0	10329.0	8584.5	6893.1	5909.1	5457.0	5345.4	5366.6	5403.9	5387.9
22.5°	12892.6	11839.6	9632.3	7520.7	5957.0	5409.2	5223.0	5143.2	5212.4	5244.3	5217.7
25°	12648.0	11376.8	8786.6	6579.3	5414.5	5127.3	5042.2	5036.9	5143.2	5185.8	5159.2
27.5°	12424.6	10946.0	7946.2	5861.3	5052.9	4909.2	4882.6	4946.4	5015.6	5058.1	5095.4
30°	12291.6	10616.2	7159.0	5260.3	4872.0	4802.8	4755.0	4813.5	4850.7	4893.3	4872.0
32.5°	12419.3	10382.2	6398.4	4919.8	4723.1	4653.9	4717.7	4680.5	4744.4	4781.5	4723.1
35°	12818.2	10174.8	5856.0	4739.0	4552.8	4579.5	4590.1	4574.1	4600.8	4568.8	4637.9
37.5°	13211.8	10100.3	5356.0	4584.8	4473.0	4473.0	4462.5	4430.5	4483.7	4473.0	4505.0
40°	13711.7	10148.2	4930.5	4419.9	4398.6	4388.0	4345.4	4340.1	4318.8	4324.1	4334.8
42.5°	14147.9	10254.6	4685.9	4313.5	4329.4	4350.7	4271.0	4207.1	4233.8	4180.5	4180.5
45°	14610.6	10350.3	4467.7	4239.1	4223.1	4217.8	4154.0	4116.7	4095.5	4100.7	4148.6
47.5°	15339.3	10488.6	4302.9	4138.0	4148.6	4068.9	4052.9	4005.0	4026.3	4058.2	4063.5
50°	15855.2	10781.1	4175.2	4021.0	4058.2	4005.0	3909.3	3888.0	3888.0	3941.2	3930.6
52.5°	16216.9	11190.6	4052.9	3893.3	3909.3	3866.8	3834.8	3787.0	3755.0	3829.5	3866.8
55°	17323.2	11871.5	4021.0	3787.0	3781.7	3739.1	3680.6	3632.7	3616.8	3627.4	3701.9
57.5°	17216.8	11658.7	3919.9	3600.8	3590.1	3531.6	3473.2	3457.2	3451.9	3462.5	3483.8
60°	13977.7	8611.0	3499.8	3388.0	3372.1	3361.4	3302.9	3239.1	3207.2	3239.1	3212.5
62.5°	9249.3	5765.5	3084.9	3132.8	3143.4	3116.8	3021.0	2957.2	2967.9	3005.1	2946.6
65°	4542.2	3388.0	2797.7	2925.3	2935.9	2861.5	2771.0	2696.6	2659.4	2691.3	2664.7
67.5°	2595.6	2590.2	2563.6	2696.6	2691.3	2616.9	2473.2	2409.4	2345.6	2356.2	2340.2
70°	2202.0	2244.5	2297.7	2377.5	2372.2	2287.1	2116.8	2069.0	1978.6	1967.9	1941.4
72.5°	1734.0	1808.4	1925.4	1983.9	1936.0	1829.6	1718.0	1638.2	1558.4	1510.6	1526.5
75°	1287.2	1393.5	1457.3	1494.6	1420.1	1361.6	1271.2	1175.4	1079.7	1037.2	1021.2
77.5°	936.1	968.0	1026.5	1053.1	1005.2	946.7	893.6	797.8	707.4	648.9	632.9
80°	654.2	675.5	718.0	718.0	718.0	691.5	622.3	526.6	468.1	414.8	404.3
82.5°	457.4	478.7	521.2	499.9	494.6	462.8	420.2	345.7	281.9	244.7	234.0
85°	159.6	175.5	212.7	255.3	271.2	265.9	239.4	191.4	148.9	122.3	111.7
87.5°	37.2	37.2	42.5	37.2	37.2	42.5	37.2	37.2	37.2	26.6	21.3
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)