

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: P647676

Luminaire Tested: **GALN-SA9D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36317.1 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

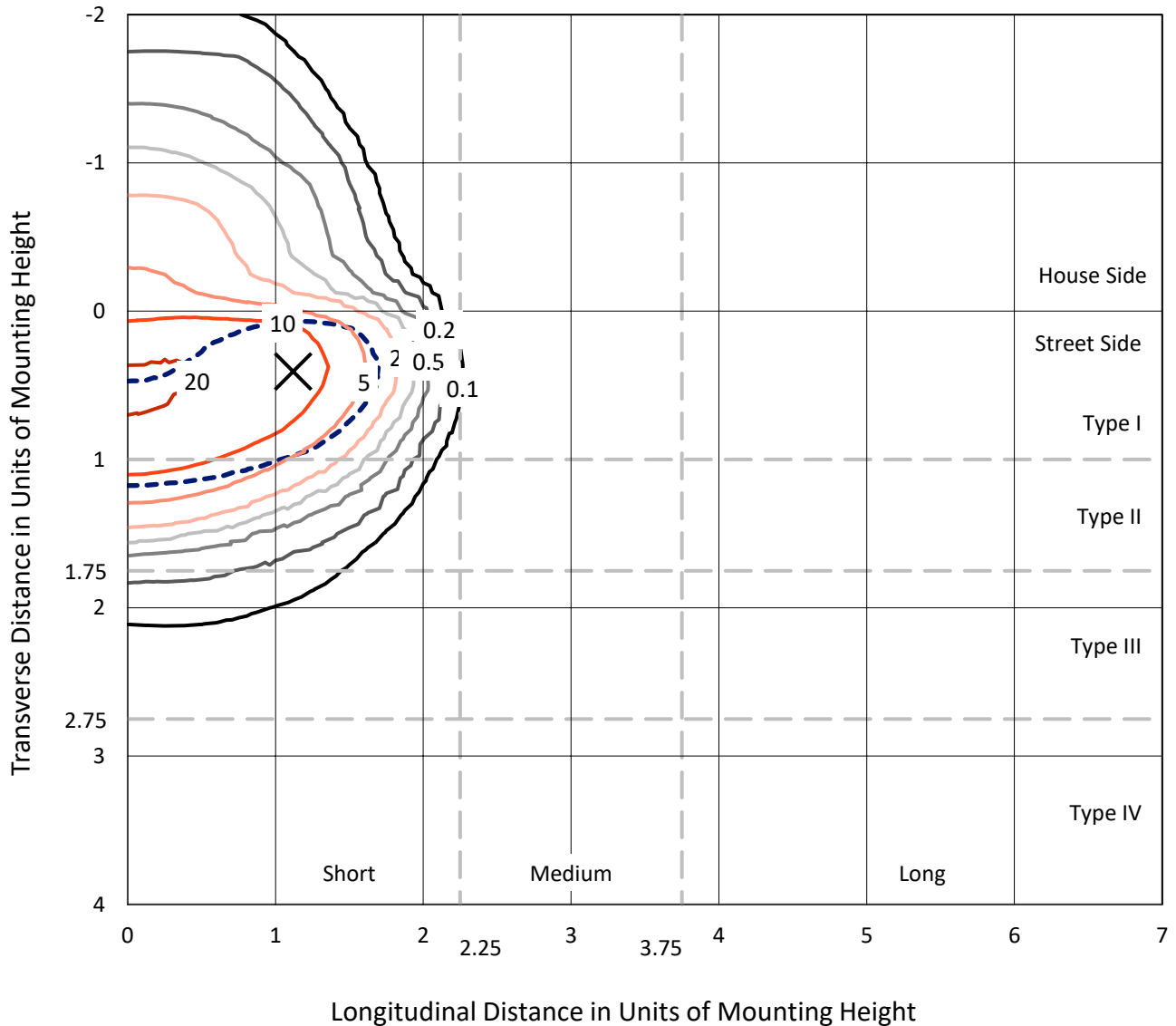
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

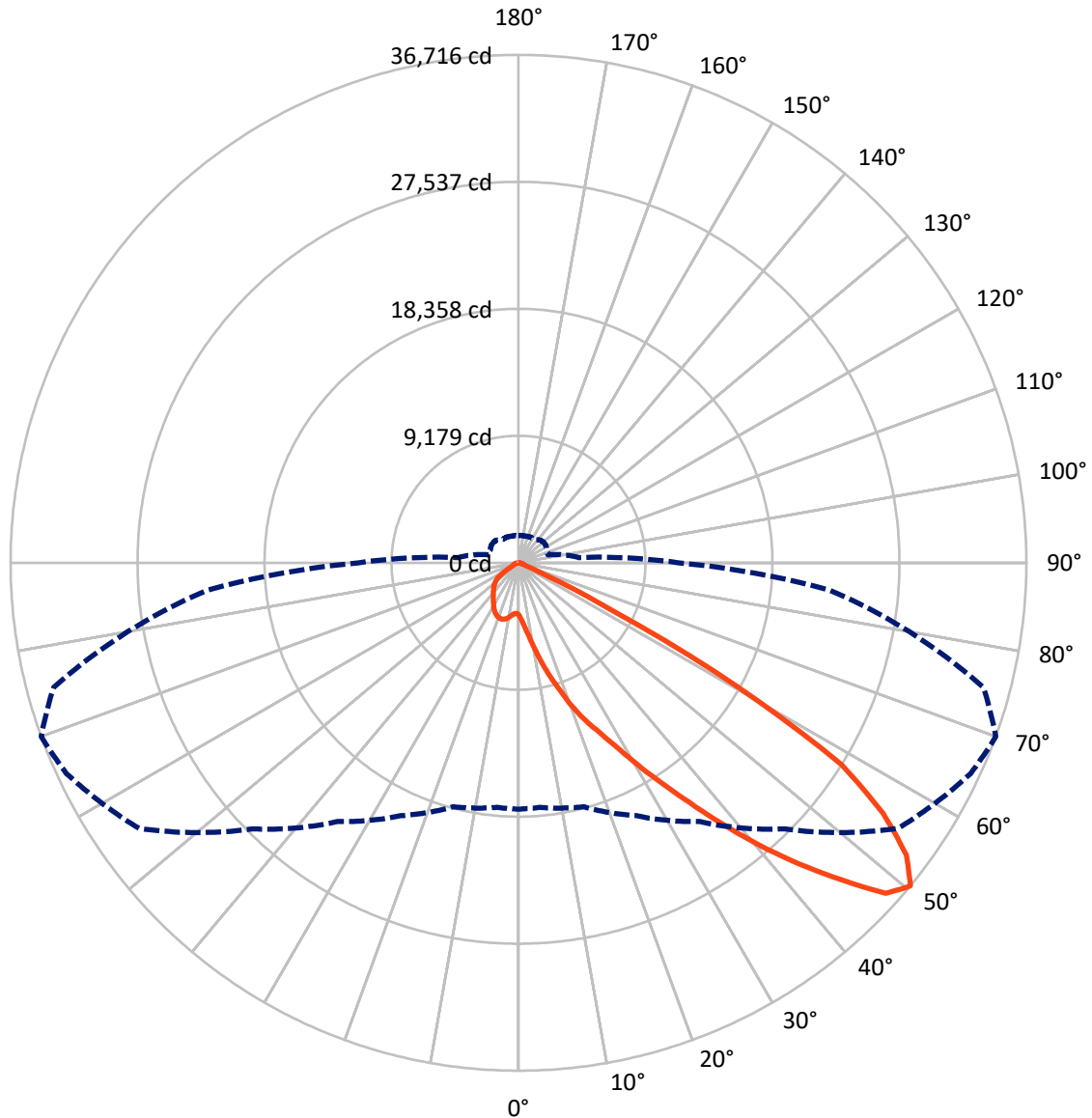
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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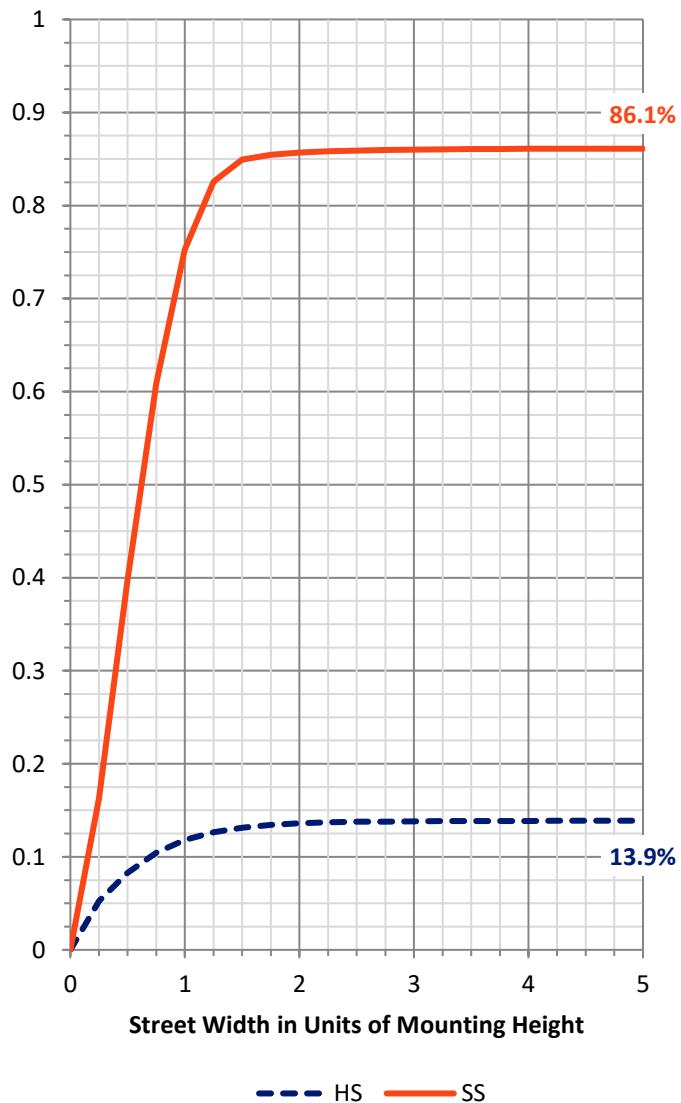
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5071.9	0.0	5071.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	31245.2	0.0	31245.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	36317.1	0.0	36317.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.2	1.3
10°-20°	2115.9	5.8
20°-30°	4438.9	12.2
30°-40°	7651.2	21.1
40°-50°	11182.1	30.8
50°-60°	8709.0	24.0
60°-70°	1475.6	4.1
70°-80°	202.7	0.6
80°-90°	52.5	0.1
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°	36317.1	100.0
0°-180°	36317.1	100.0

Coefficient of Utilization

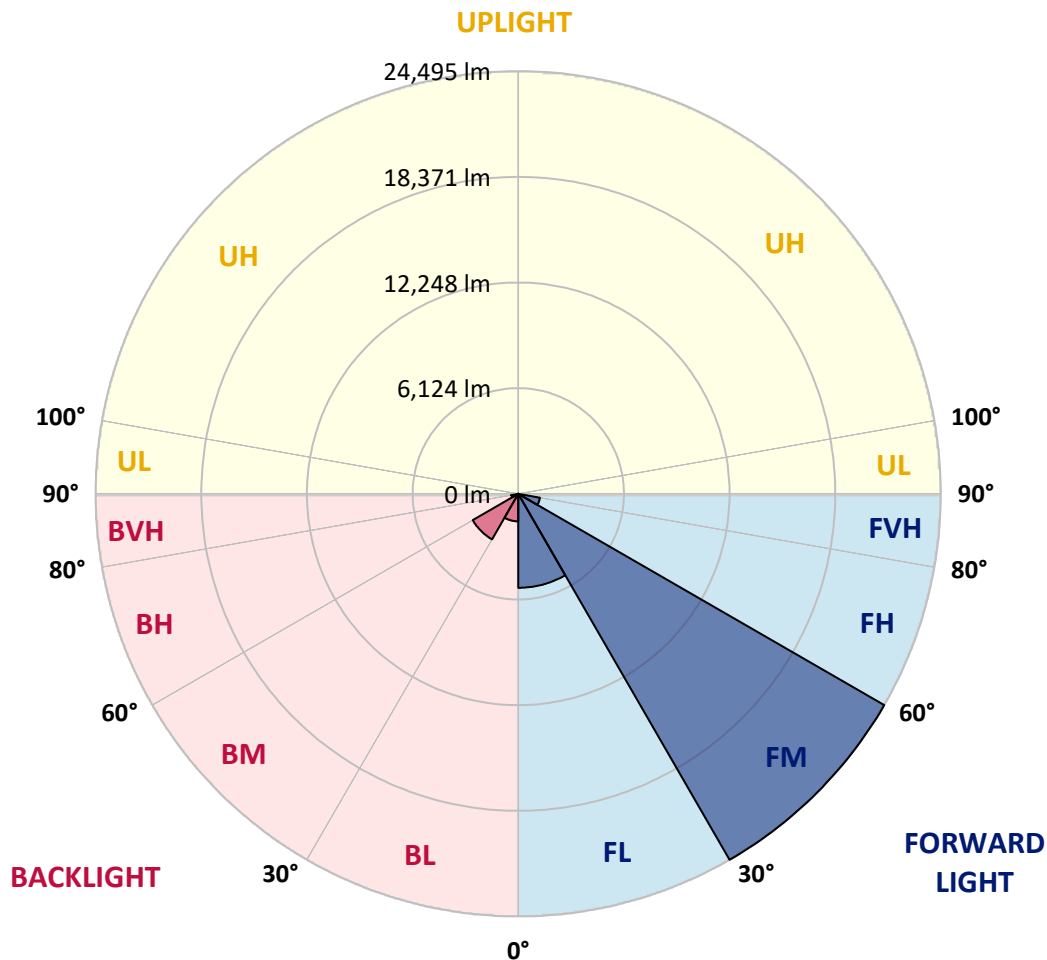


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5448.0	15.0			
FM (30°-60°)	24495.3	67.4			
FH (60°-80°)	1277.6	3.5			G1/1800
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	1596.0	4.4	B3/2500		
BM (30°-60°)	3047.0	8.4	B3/5000		
BH (60°-80°)	400.6	1.1	B1/500		G1/500
BVH (80°-90°)	28.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	4926.1	4890.2	4812.6	4669.3	4609.6	4466.3	4382.7	4221.5	4120.0	4006.5	3881.2
5°	6938.3	6753.2	6639.8	6478.5	6006.9	5714.3	5230.6	4818.6	4627.5	4418.5	4132.0
7.5°	9016.2	8896.8	8741.6	8395.2	8072.8	7463.8	6633.8	5726.2	5338.1	4979.8	4412.6
10°	10735.9	10401.5	10383.6	10126.9	9774.6	9046.1	8048.9	6920.4	6227.7	5702.4	4812.6
12.5°	11936.1	11631.5	11768.9	11739.0	11410.6	10741.8	9589.5	8096.7	7374.2	6556.1	5224.6
15°	13028.7	12903.4	12861.6	12825.7	12694.4	12198.7	11165.8	9529.7	8484.8	7499.6	5690.4
17.5°	14097.5	13775.1	13930.4	13960.2	13948.3	13500.5	12533.2	10891.1	9661.1	8496.7	6180.0
20°	15046.9	15076.8	14867.8	14826.0	14790.2	14772.3	13828.9	12240.6	11106.1	9541.6	6818.9
22.5°	16265.0	16056.0	16241.1	16121.7	15888.9	15745.6	15023.0	13434.8	12360.0	10801.6	7469.7
25°	17704.0	17871.3	17435.4	17387.6	17130.9	16635.2	15984.4	14772.3	13566.1	11971.9	8174.3
27.5°	19477.4	19184.8	19071.4	18808.7	18342.9	18134.0	17369.7	16151.6	15023.0	13201.9	8855.0
30°	21000.1	20922.4	20355.2	20044.7	19638.7	19632.7	18563.9	18020.5	16921.9	15130.5	9792.4
32.5°	22242.1	21901.7	21692.7	21477.7	21149.3	21238.9	20337.3	20050.7	18946.0	16921.9	10897.1
35°	23072.0	22827.2	22701.8	22373.4	22277.8	22677.9	22301.7	22182.3	21274.7	19441.6	12192.8
37.5°	23334.7	23412.3	23388.4	22976.4	23179.5	24260.2	24743.9	24433.4	23955.7	22098.7	13596.0
40°	23567.6	23621.3	23501.9	23985.6	24564.7	25794.8	27544.3	27030.8	26851.7	24791.7	15548.5
42.5°	23698.9	23657.2	23657.2	24493.1	25370.8	27842.9	30249.2	29908.8	29771.5	27657.8	17805.6
45°	23131.7	22725.6	23161.5	24296.0	26063.5	28851.9	32410.6	32882.3	32685.3	31067.2	20444.8
47.5°	21012.0	21262.8	21507.6	23024.2	25221.5	28541.4	33736.2	35342.4	35706.7	33933.3	22176.4
50°	17805.6	17751.8	18259.3	20170.1	22839.1	27203.9	33479.4	36053.0	36715.7	34793.1	22540.5
52.5°	12951.1	13345.2	13894.6	15793.3	18958.0	23740.7	30165.5	34219.8	35103.6	33736.2	22301.7
55°	7541.4	7105.5	8341.5	9947.7	12933.2	17907.1	25502.2	30332.7	31968.8	31813.5	21095.6
57.5°	3021.4	2925.8	3349.8	4514.1	6747.3	11100.1	18546.0	24923.0	27544.3	29138.6	18540.0
60°	1325.5	1295.7	1522.6	1839.1	2758.6	5117.1	10144.8	15500.7	18235.4	20361.1	12760.1
62.5°	955.3	943.4	1056.9	1170.4	1456.9	2227.2	4263.3	6245.7	7786.2	9404.4	5714.3
65°	770.2	800.1	877.7	937.5	1074.7	1236.0	1504.7	1737.6	2131.6	2209.3	1259.8
67.5°	626.9	650.8	722.5	788.2	812.0	668.8	692.6	609.0	609.0	543.3	435.9
70°	459.8	465.7	549.4	626.9	501.6	268.7	471.7	471.7	423.9	406.1	370.2
72.5°	340.4	346.3	412.0	388.1	197.1	167.2	346.3	382.2	346.3	328.4	298.6
75°	250.8	256.7	214.9	89.6	83.6	107.5	203.0	262.7	250.8	244.8	226.9
77.5°	47.8	35.9	29.8	41.8	59.7	89.6	131.4	161.2	167.2	179.2	167.2
80°	6.0	6.0	17.9	35.9	65.7	95.5	137.3	155.3	161.2	167.2	155.3
82.5°	0.0	6.0	17.9	35.9	65.7	89.6	119.4	137.3	149.2	155.3	149.2
85°	0.0	6.0	12.0	29.8	53.7	65.7	59.7	41.8	35.9	41.8	29.8
87.5°	0.0	0.0	6.0	6.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	3809.5	3785.6	3702.0	3612.4	3534.9	3570.6	3534.9	3505.0	3516.9	3505.0	3493.0
5°	4018.5	3911.0	3731.9	3654.3	3588.6	3582.6	3564.7	3558.7	3564.7	3564.7	3511.0
7.5°	4215.5	4042.4	3851.3	3767.7	3690.1	3696.1	3654.3	3654.3	3648.3	3618.4	3606.5
10°	4514.1	4281.2	4036.4	3887.1	3791.6	3773.7	3731.9	3690.1	3690.1	3690.1	3630.4
12.5°	4842.5	4549.9	4215.5	4042.4	3928.9	3839.4	3773.7	3761.8	3696.1	3684.1	3654.3
15°	5129.1	4758.9	4334.9	4096.1	3952.8	3833.4	3731.9	3666.2	3636.3	3618.4	3594.5
17.5°	5409.7	4938.0	4400.6	4096.1	3940.8	3803.5	3696.1	3636.3	3564.7	3576.7	3528.9
20°	5785.9	5129.1	4418.5	4018.5	3827.4	3696.1	3552.8	3522.9	3481.1	3445.3	3457.2
22.5°	6150.2	5266.5	4364.8	3923.0	3648.3	3493.0	3421.4	3385.5	3367.7	3337.8	3296.0
25°	6478.5	5415.7	4281.2	3749.8	3457.2	3343.8	3278.1	3272.1	3230.3	3230.3	3152.7
27.5°	6813.0	5469.4	4137.9	3546.8	3290.0	3224.3	3194.5	3182.6	3164.7	3122.8	3069.1
30°	7195.1	5487.3	3928.9	3337.8	3140.8	3069.1	3110.9	3140.8	3063.1	2985.5	3009.4
32.5°	7511.6	5445.5	3678.1	3140.8	3033.3	2997.5	3081.0	3110.9	3021.4	2937.7	2895.9
35°	7893.7	5344.1	3433.3	2985.5	2925.8	2997.5	3069.1	3069.1	2890.0	2788.5	2764.6
37.5°	8472.8	5230.6	3206.5	2854.1	2812.4	2961.6	3057.1	2991.5	2710.8	2585.5	2555.6
40°	9093.8	5159.0	2985.5	2722.8	2752.6	2901.9	2955.7	2752.6	2466.1	2388.4	2364.5
42.5°	9995.5	5015.7	2788.5	2609.3	2698.9	2818.3	2818.3	2454.1	2346.6	2304.8	2298.8
45°	11118.1	4914.1	2615.3	2513.8	2621.2	2651.2	2555.6	2298.8	2221.2	2209.3	2215.3
47.5°	11667.3	4717.1	2436.1	2400.4	2478.0	2483.9	2233.2	2173.5	2107.8	2089.8	2077.9
50°	11583.8	4364.8	2203.3	2251.0	2358.6	2298.8	2036.1	2048.1	1988.4	1982.4	1952.5
52.5°	10998.6	3809.5	1970.4	2083.9	2203.3	2030.2	1874.9	1863.0	1863.0	1785.3	1755.5
55°	9750.7	3069.1	1689.8	1833.1	1976.4	1707.7	1665.9	1654.0	1624.1	1552.5	1534.5
57.5°	7720.5	2251.0	1271.8	1427.1	1677.9	1451.0	1444.9	1391.2	1313.6	1259.8	1259.8
60°	4591.7	1295.7	800.1	871.8	1110.6	1176.3	1307.7	1283.7	1152.4	1068.8	1044.9
62.5°	2095.9	668.8	507.5	519.4	597.1	764.3	1027.0	1188.2	1003.1	859.8	847.9
65°	704.5	495.6	418.0	400.0	412.0	459.8	615.0	841.9	800.1	662.8	638.9
67.5°	429.9	441.8	394.1	364.3	364.3	358.2	352.3	382.2	471.7	459.8	465.7
70°	370.2	406.1	364.3	328.4	316.5	298.6	250.8	209.0	179.2	209.0	221.0
72.5°	298.6	322.4	310.5	280.6	250.8	226.9	179.2	137.3	101.5	89.6	89.6
75°	221.0	238.8	250.8	214.9	191.1	161.2	131.4	89.6	53.7	35.9	35.9
77.5°	161.2	179.2	185.1	167.2	143.3	113.5	83.6	59.7	29.8	12.0	12.0
80°	137.3	161.2	179.2	167.2	149.2	107.5	77.6	41.8	23.9	6.0	6.0
82.5°	131.4	161.2	179.2	161.2	143.3	101.5	77.6	47.8	17.9	6.0	6.0
85°	29.8	41.8	53.7	65.7	77.6	77.6	59.7	35.9	17.9	6.0	6.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	6.0	6.0	0.0
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)