

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: P646989

Luminaire Tested: **GALN-SA6C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26745 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

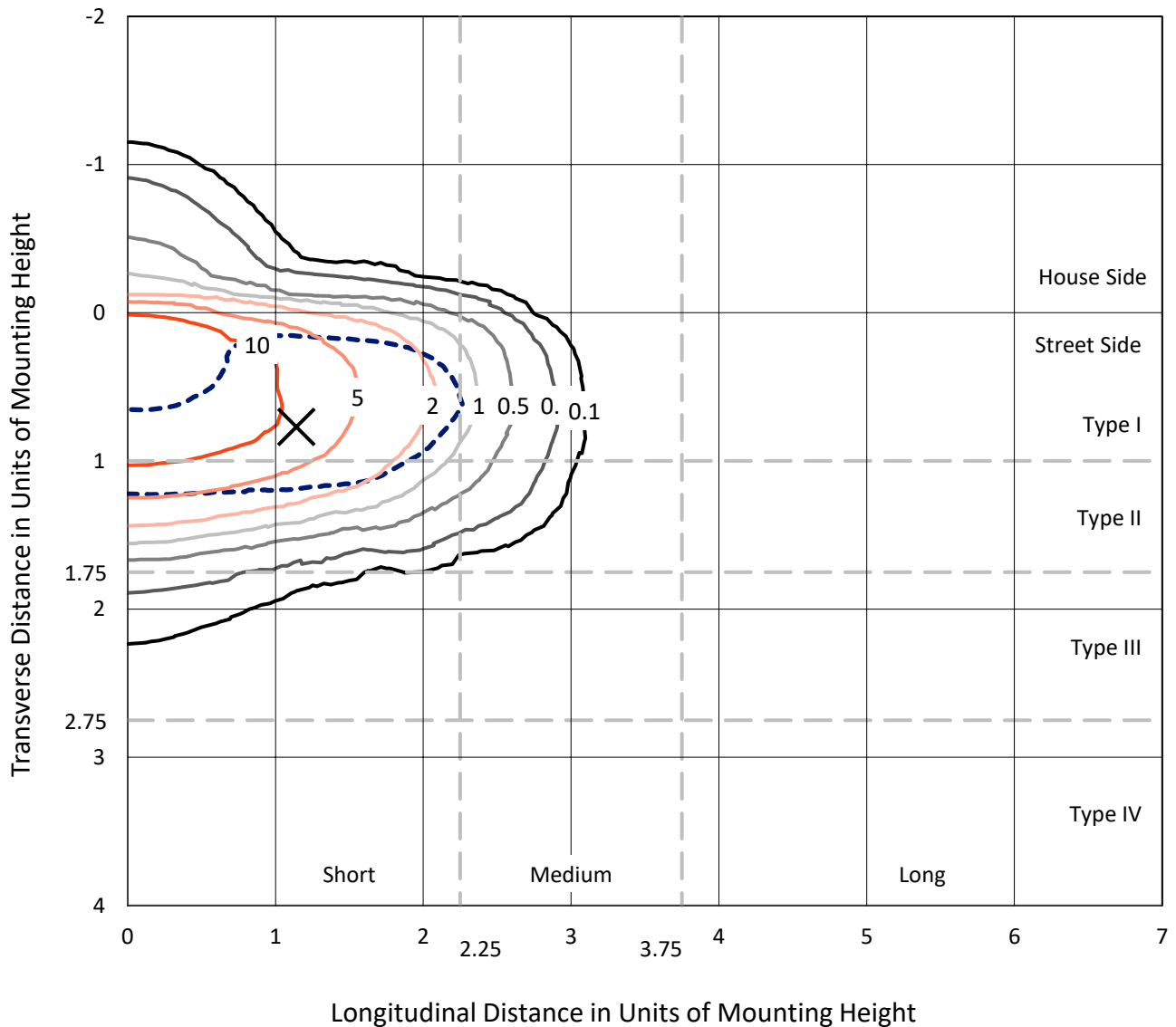
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

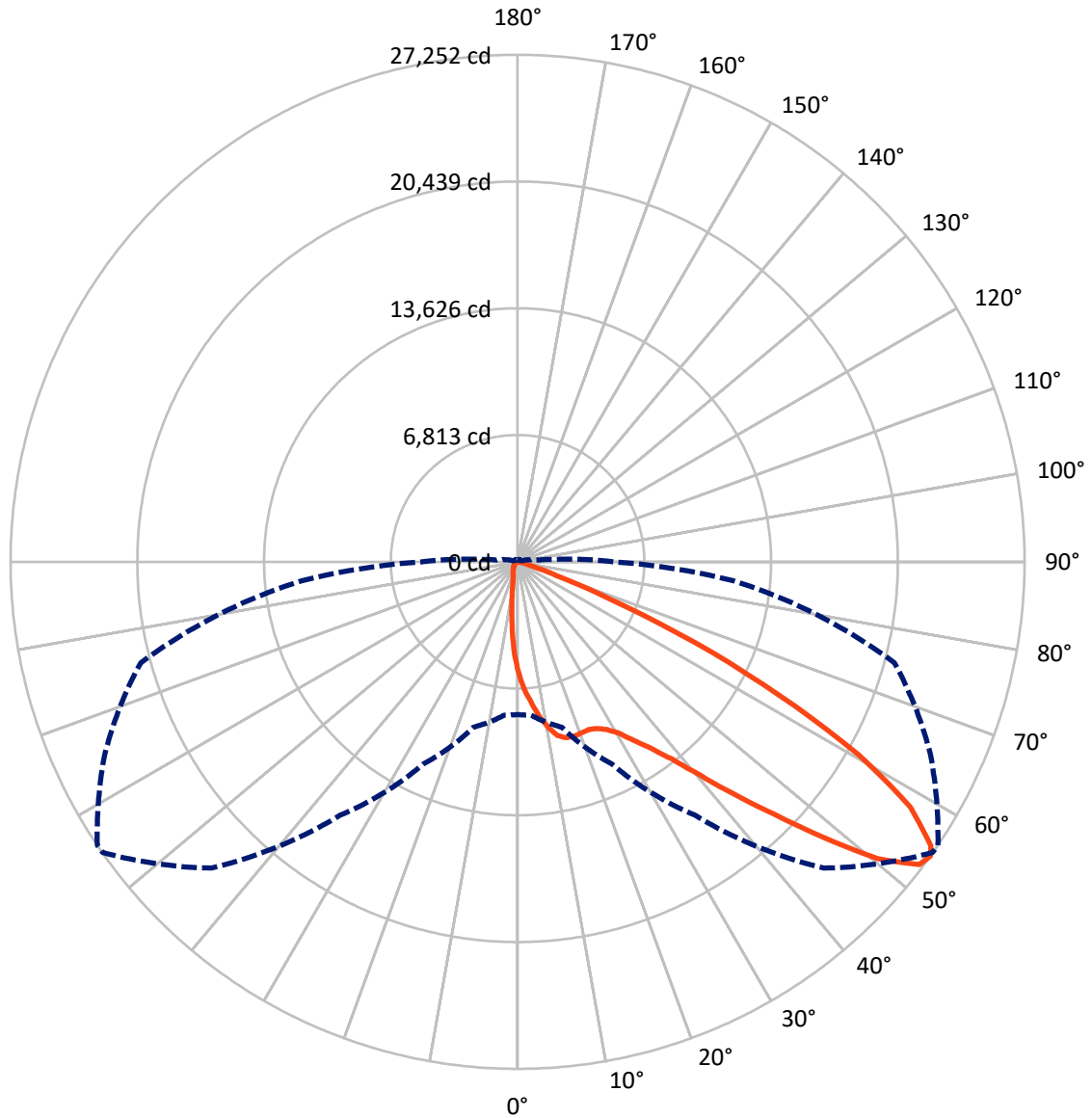
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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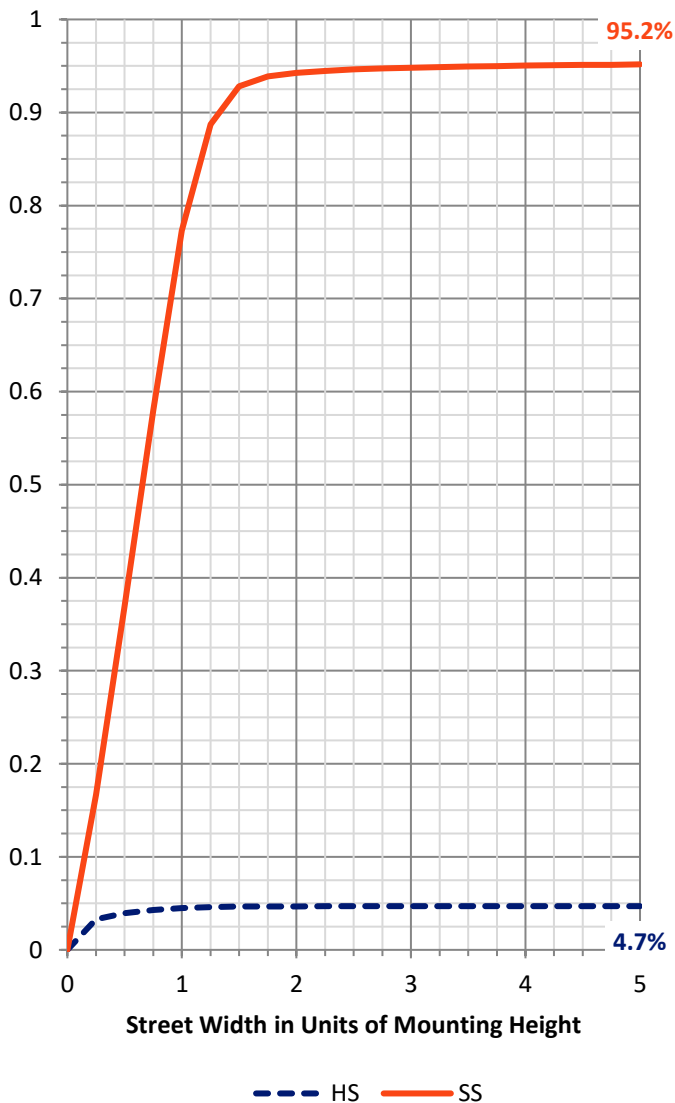
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.7	0.0	1264.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25480.2	0.0	25480.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	26745.0	0.0	26745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.1	2.0
10°-20°	1419.4	5.3
20°-30°	2458.3	9.2
30°-40°	4243.5	15.9
40°-50°	7222.5	27.0
50°-60°	7147.6	26.7
60°-70°	3262.3	12.2
70°-80°	419.0	1.6
80°-90°	47.2	0.2
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°	26745.0	100.0
0°-180°	26745.0	100.0

Coefficient of Utilization

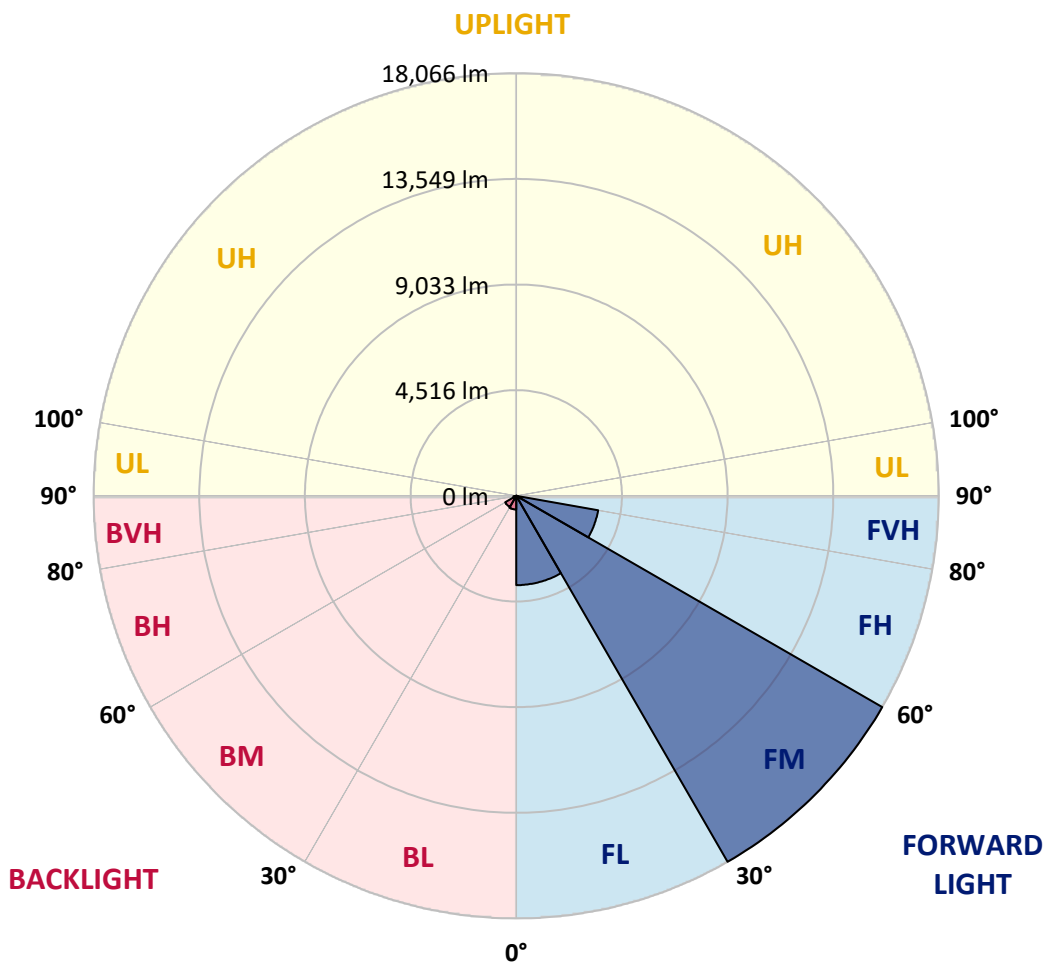


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3817.9	14.3			
FM (30°-60°)	18065.5	67.5			
FH (60°-80°)	3554.6	13.3			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	584.9	2.2	B2/1000		
BM (30°-60°)	548.1	2.0	B1/1000		
BH (60°-80°)	126.6	0.5	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0
2.5°	7551.5	7499.2	7427.0	7371.1	7239.3	7049.9	6849.6	6849.6	6656.5	6387.6	6113.4
5°	8709.9	8675.6	8605.2	8460.9	8313.0	8047.7	7645.3	7575.0	7230.3	6743.1	6230.6
7.5°	9180.9	9197.1	9200.7	9162.8	9092.5	8830.8	8432.0	8383.3	7833.0	7179.8	6384.0
10°	8729.7	8809.1	8886.7	9043.7	9265.7	9328.8	9103.3	9052.8	8511.4	7621.9	6550.0
12.5°	8058.6	8101.9	8145.2	8392.4	8838.0	9348.7	9585.1	9583.3	9124.9	8062.2	6761.1
15°	7746.4	7784.3	7787.9	7898.0	8284.1	9027.5	9790.8	9817.9	9724.0	8605.2	6988.5
17.5°	7811.4	7842.0	7816.8	7843.8	8045.9	8673.8	9767.3	9857.6	10209.4	9126.7	7194.2
20°	8235.4	8294.9	8197.5	8121.7	8183.1	8580.0	9687.9	9814.3	10552.3	9635.6	7381.9
22.5°	8996.8	9029.3	8906.6	8699.1	8590.8	8776.7	9666.3	9790.8	10844.6	10052.4	7490.2
25°	9843.1	9832.3	9697.0	9464.2	9236.8	9173.7	9808.8	9920.7	11086.3	10427.8	7522.6
27.5°	10689.4	10721.9	10494.5	10205.8	9933.3	9769.1	10128.2	10211.2	11358.8	10855.4	7562.3
30°	11672.8	11620.5	11396.7	11066.5	10754.3	10525.2	10642.5	10665.9	11734.1	11422.0	7667.0
32.5°	12952.2	12807.8	12557.0	11979.5	11755.8	11367.8	11396.7	11425.6	12190.7	11983.2	7793.3
35°	14688.0	14680.8	14190.0	13412.2	12867.4	12385.6	12259.2	12282.7	12881.8	12816.8	8073.0
37.5°	16777.5	16806.4	16247.0	15463.9	14460.6	13695.5	13435.7	13439.3	13931.9	13968.0	8498.8
40°	18479.0	18554.8	18221.0	17692.4	16701.7	15505.4	15068.7	15029.0	15408.0	15362.9	9106.9
42.5°	19211.7	19282.0	19406.5	19590.6	19045.6	18058.6	17028.3	17082.5	17197.9	16882.2	9789.0
45°	18852.6	18964.4	19453.5	20590.2	21102.7	20770.6	19541.9	19352.4	18863.4	18533.2	10474.7
47.5°	17356.7	17629.2	18446.6	20339.4	22133.0	23255.3	22378.5	22127.6	20530.7	19738.6	10911.3
50°	14897.3	14913.6	16052.1	18471.8	21598.9	24823.4	25274.5	25086.9	22084.3	20415.2	11131.4
52.5°	10799.4	11154.9	12197.9	15000.2	19285.6	24585.3	27120.5	27042.9	23686.6	20761.6	11449.0
54°	8210.1	8278.7	9206.1	11986.8	16627.7	23277.0	27234.1	27252.2	24482.4	20970.9	11636.7
55°	6730.5	6566.3	7540.7	10211.2	14814.3	22120.4	26862.4	26949.0	24839.7	21079.2	11775.6
57.5°	3190.2	3192.1	3937.2	5386.2	9278.3	17176.3	24590.7	24897.4	24879.4	21265.1	12203.3
60°	1614.9	1625.8	1790.0	2486.5	4583.2	11418.3	20332.2	21063.0	22964.8	21292.1	12344.1
62.5°	1129.6	1116.9	1089.9	1196.3	1928.9	5803.0	15137.3	15772.4	19511.2	20261.8	11896.5
65°	967.2	940.1	864.4	848.1	974.4	2311.5	9428.1	10463.9	14897.3	17544.4	10622.6
67.5°	826.5	815.6	747.1	705.6	689.3	1006.9	4864.7	5409.7	10182.4	12611.1	8045.9
70°	701.9	696.5	655.0	602.7	557.6	602.7	1804.4	2235.7	5674.9	6790.0	3796.5
72.5°	570.2	575.6	582.9	516.1	469.2	427.7	770.5	896.8	2374.6	2426.9	1328.0
75°	499.8	494.4	494.4	449.3	391.6	317.6	424.1	456.5	727.2	674.9	308.6
77.5°	351.9	339.2	397.0	369.9	326.6	225.6	241.8	256.2	301.4	258.0	144.4
80°	243.6	243.6	254.4	332.0	294.1	164.2	148.0	158.8	178.6	153.4	83.0
82.5°	137.1	140.8	166.0	176.8	171.4	110.1	97.4	99.2	119.1	104.7	52.3
85°	16.2	27.1	95.6	93.8	70.4	48.7	54.1	55.9	74.0	65.0	30.7
87.5°	1.8	3.6	19.8	25.3	18.0	19.8	19.8	19.8	25.3	28.9	21.7
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°	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0	5942.0
2.5°	5965.4	5828.3	5501.7	5122.8	4881.0	4487.6	4155.6	3915.6	3856.0	3740.5	3774.8
5°	5958.2	5673.1	5007.3	4303.5	3552.9	2993.6	2576.7	2248.3	2103.9	2008.3	1941.5
7.5°	5961.8	5516.1	4447.9	3327.4	2430.6	1882.0	1495.8	1295.6	1162.1	1106.1	1113.3
10°	5972.6	5339.3	3798.3	2464.8	1640.2	1216.2	979.8	884.2	839.1	831.9	830.1
12.5°	5997.9	5146.2	3177.6	1829.7	1147.6	884.2	794.0	761.5	747.1	747.1	741.6
15°	6025.0	4933.3	2661.5	1360.5	884.2	759.7	718.2	701.9	692.9	692.9	691.1
17.5°	6025.0	4687.9	2179.7	1055.6	761.5	698.3	665.9	644.2	637.0	637.0	635.2
20°	5987.1	4402.8	1752.1	849.9	691.1	640.6	608.1	584.7	575.6	572.0	570.2
22.5°	5855.4	4022.0	1394.8	730.8	633.4	590.1	548.6	521.5	514.3	510.7	512.5
25°	5620.8	3592.6	1104.3	642.4	581.0	528.7	492.6	472.8	465.6	465.6	467.4
27.5°	5379.0	3143.3	875.2	575.6	517.9	471.0	442.1	429.5	427.7	433.1	434.9
30°	5155.2	2692.2	709.2	521.5	462.0	422.3	402.4	398.8	398.8	400.6	402.4
32.5°	4906.2	2297.0	593.7	474.6	416.8	382.6	371.7	371.7	375.3	375.3	378.9
35°	4749.2	1957.8	521.5	429.5	382.6	353.7	346.5	348.3	353.7	360.9	364.5
37.5°	4664.4	1687.1	474.6	393.4	350.1	330.2	323.0	326.6	339.2	351.9	353.7
40°	4671.6	1483.2	436.7	362.7	324.8	303.2	297.7	308.6	321.2	333.8	335.6
42.5°	4751.0	1331.6	400.6	326.6	303.2	272.5	270.7	281.5	286.9	299.5	301.4
45°	4844.9	1221.6	362.7	288.7	263.5	236.4	238.2	247.2	254.4	274.3	277.9
47.5°	4873.7	1145.8	319.4	245.4	216.5	207.5	209.3	214.7	229.2	247.2	249.0
50°	4906.2	1098.9	277.9	207.5	184.1	182.3	184.1	187.7	196.7	203.9	202.1
52.5°	5045.2	1097.1	243.6	180.4	157.0	160.6	162.4	160.6	153.4	142.6	138.9
54°	5175.1	1102.5	227.4	167.8	144.4	149.8	148.0	138.9	120.9	110.1	104.7
55°	5279.8	1107.9	218.3	158.8	137.1	138.9	140.8	122.7	99.2	88.4	84.8
57.5°	5485.5	1095.3	196.7	138.9	120.9	113.7	111.9	81.2	54.1	46.9	43.3
60°	5382.6	988.9	178.6	119.1	102.9	92.0	75.8	45.1	27.1	19.8	19.8
62.5°	4978.4	839.1	158.8	97.4	84.8	70.4	39.7	25.3	12.6	7.2	5.4
65°	4453.3	705.6	142.6	77.6	66.8	45.1	21.7	16.2	5.4	0.0	0.0
67.5°	3311.1	523.3	120.9	61.4	50.5	28.9	14.4	9.0	1.8	0.0	0.0
70°	1533.7	319.4	102.9	46.9	36.1	21.7	10.8	5.4	0.0	0.0	0.0
72.5°	440.3	200.3	84.8	34.3	25.3	18.0	9.0	3.6	1.8	0.0	0.0
75°	153.4	160.6	63.2	25.3	19.8	12.6	7.2	3.6	1.8	0.0	0.0
77.5°	92.0	129.9	39.7	21.7	16.2	10.8	7.2	3.6	1.8	1.8	0.0
80°	52.3	86.6	25.3	18.0	14.4	9.0	5.4	3.6	1.8	1.8	0.0
82.5°	28.9	41.5	19.8	16.2	12.6	9.0	5.4	3.6	1.8	1.8	1.8
85°	23.5	21.7	16.2	14.4	10.8	7.2	5.4	1.8	0.0	0.0	0.0
87.5°	18.0	14.4	14.4	14.4	10.8	7.2	5.4	1.8	0.0	0.0	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)