

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: P651143

Luminaire Tested: **GALN-SA9C-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42914.5 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

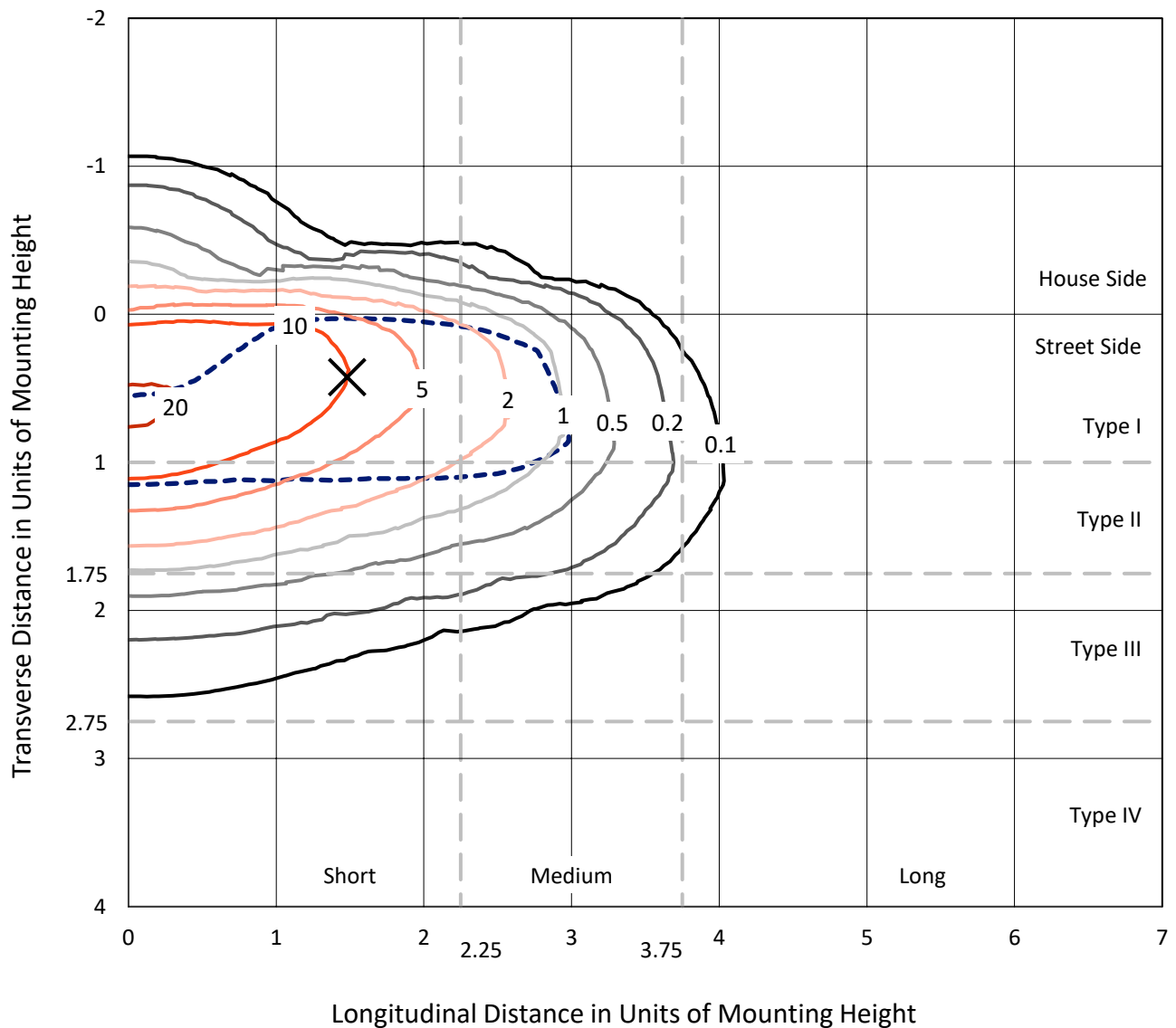
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

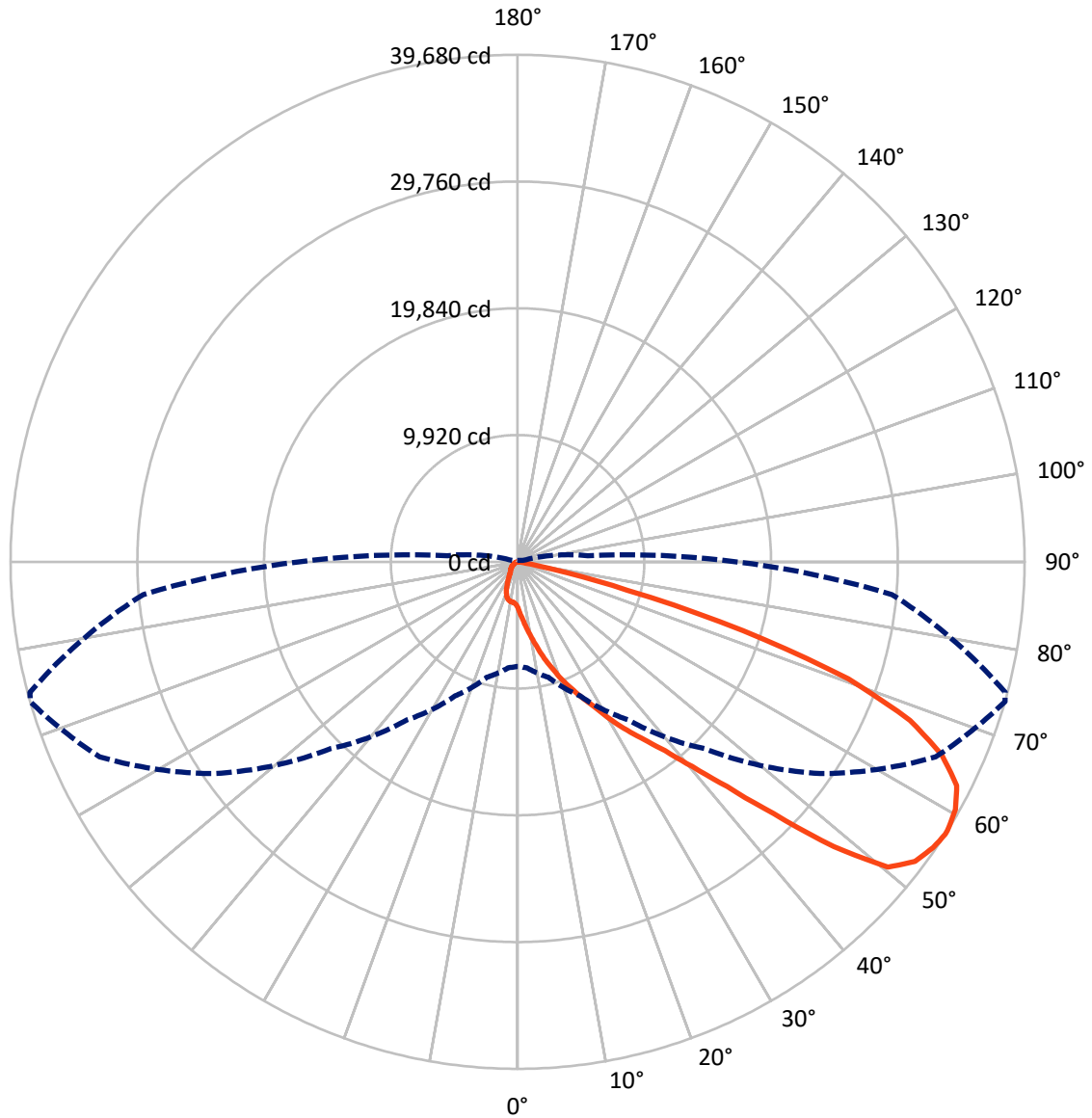
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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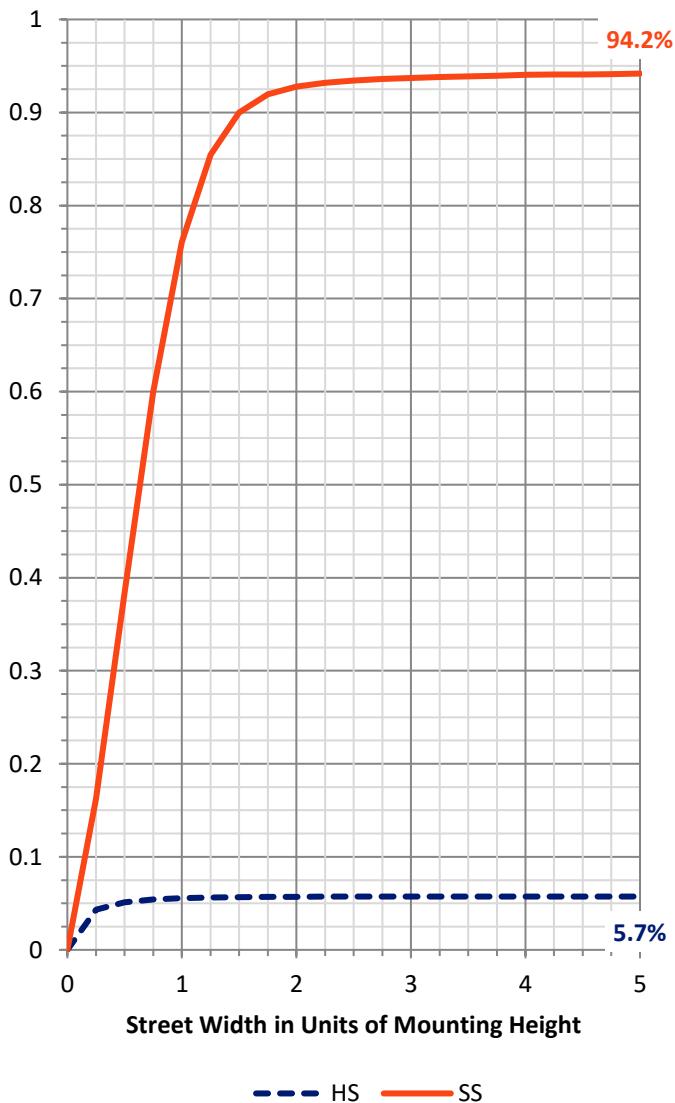
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2475.2	0.0	2475.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	40439.4	0.0	40439.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	42914.5	0.0	42914.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.8	1.0
10°-20°	1709.9	4.0
20°-30°	3658.8	8.5
30°-40°	6724.8	15.7
40°-50°	10309.2	24.0
50°-60°	10905.7	25.4
60°-70°	7121.7	16.6
70°-80°	1945.9	4.5
80°-90°	104.8	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°	42914.5	100.0
0°-180°	42914.5	100.0

Coefficient of Utilization

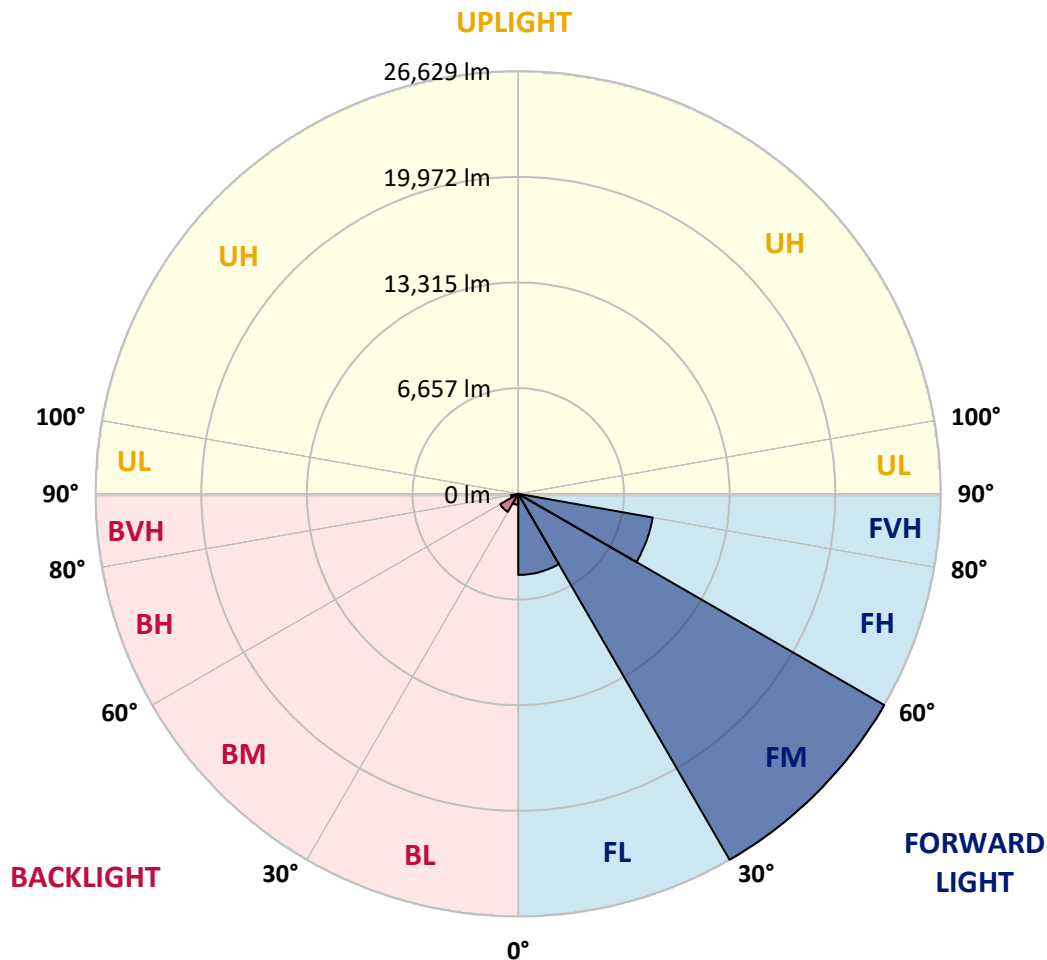


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5111.1	11.9			
FM (30°-60°)	26629.3	62.1			
FH (60°-80°)	8602.9	20.0			G4/12000
FVH (80°-90°)	96.1	0.2			G1/100
BL (0°-30°)	691.4	1.6	B2/1000		
BM (30°-60°)	1310.4	3.1	B2/2500		
BH (60°-80°)	464.7	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	5259.2	5211.8	5117.0	5084.4	4945.2	4728.9	4539.2	4284.4	4082.9	4062.2	3819.2
5°	7042.9	6936.2	6891.7	6678.5	6343.7	6029.5	5490.3	5081.4	4610.4	4574.8	4085.9
7.5°	8761.4	8613.3	8568.8	8367.4	7976.2	7481.4	6782.2	6038.5	5291.8	5223.6	4444.4
10°	10005.8	10026.6	9946.6	9813.2	9496.2	8992.5	8130.3	7114.0	6050.3	5964.4	4847.4
12.5°	10897.7	10894.7	10909.5	10906.6	10737.6	10355.5	9448.8	8278.5	6885.9	6717.0	5309.6
15°	11478.4	11487.3	11531.7	11685.8	11703.6	11466.5	10711.0	9392.5	7854.8	7644.4	5810.3
17.5°	12065.1	12127.3	12198.4	12343.6	12474.0	12379.1	11845.8	10554.0	8731.8	8574.8	6346.6
20°	13033.9	13119.9	13078.4	13167.3	13235.4	13244.3	12832.5	11626.6	9795.5	9531.7	6959.9
22.5°	14583.5	14580.6	14473.9	14313.9	14180.6	14174.6	13801.3	12728.8	10761.4	10506.5	7576.2
25°	16542.0	16551.0	16343.6	15887.2	15555.4	15149.4	14719.9	13694.7	11795.4	11481.3	8225.1
27.5°	18787.9	18731.7	18417.6	17789.4	17131.7	16438.4	15819.1	14817.7	12891.7	12631.0	8968.8
30°	20805.8	20785.0	20417.5	19650.1	18785.0	18088.7	17191.0	16225.0	14311.0	13991.0	9801.4
32.5°	22684.2	22713.8	22204.3	21410.2	20574.6	19771.7	18823.5	17570.2	15703.6	15250.2	10708.0
35°	24150.8	24180.5	23653.1	22992.4	22133.1	21466.4	20562.8	19004.2	17078.4	16696.1	11751.0
37.5°	24933.0	24971.6	24666.4	24168.7	23632.4	23297.6	22456.0	20850.2	18749.4	18518.3	12983.6
40°	25081.2	25125.6	24992.3	24859.0	24829.3	25069.4	24823.5	23025.0	21066.5	20705.0	14820.6
42.5°	24636.8	24696.0	24755.3	25051.6	25656.1	26536.0	27392.3	25976.1	24050.2	23564.2	17066.5
45°	23469.4	23463.5	23697.5	24464.9	25819.0	27697.5	30076.8	29670.8	28115.3	27537.5	20239.8
47.5°	21472.4	21442.7	21949.4	23042.7	25152.4	27910.9	32266.3	34156.7	33303.3	32770.1	23650.1
50°	18429.4	18574.7	19371.7	20897.6	23496.0	27264.9	32941.9	37098.9	37561.1	36995.2	26405.6
52.5°	14865.0	14859.1	16109.4	18180.6	21042.7	25842.7	32470.8	37632.2	38944.8	38512.2	27762.7
55°	11001.4	11078.4	12379.1	14468.0	17857.6	23247.2	30933.0	37084.1	39472.2	39167.0	28657.5
57°	8183.6	8319.9	9362.9	11573.3	15084.3	20678.3	28885.7	36103.4	39679.6	39513.7	29401.2
57.5°	7638.5	7644.4	8660.6	10669.5	14272.4	19691.7	28299.0	35694.5	39673.7	39581.8	29522.6
60°	4702.2	4850.3	5552.5	7211.7	10447.3	15368.8	24367.1	33344.8	39365.5	39498.8	30041.2
62.5°	2814.8	2877.0	3333.3	4346.6	6734.7	11217.7	19940.5	30337.5	38562.5	38968.5	30005.6
65°	1810.3	1825.1	2032.6	2631.1	4210.3	7582.1	15365.7	26364.2	36485.5	37232.2	28832.3
67.5°	1398.5	1422.2	1505.1	1727.4	2441.4	4722.9	10868.1	22124.2	33125.6	34088.5	25987.9
70°	1241.5	1253.3	1282.9	1354.1	1614.8	2666.6	6761.4	17282.8	27469.3	27741.9	20337.6
72.5°	1013.3	1046.0	1137.8	1161.5	1280.0	1665.2	3762.9	11599.9	18456.1	18524.3	11377.6
75°	785.2	791.1	927.4	995.6	1078.5	1146.6	1680.0	5848.8	8865.1	8391.0	4385.1
77.5°	586.7	613.3	675.6	761.4	880.0	820.7	752.6	2204.4	2752.6	2702.2	1274.0
80°	376.3	391.1	471.1	571.9	684.4	536.3	423.7	645.9	604.4	622.3	305.2
82.5°	189.6	192.6	302.3	465.2	435.6	269.6	266.7	263.7	225.2	222.2	142.2
85°	20.8	44.4	195.5	266.7	195.5	88.9	124.5	121.4	118.5	121.4	82.9
87.5°	2.9	2.9	32.6	38.5	26.7	29.6	35.6	38.5	47.4	44.4	35.6
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°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3700.7	3582.2	3362.9	3152.6	2995.6	2894.8	2764.5	2717.0	2648.9	2640.0	2607.4
5°	3860.7	3635.6	3253.3	2951.1	2708.1	2524.4	2364.4	2231.1	2124.5	2100.7	2112.6
7.5°	4088.9	3754.1	3220.7	2808.9	2471.1	2157.0	1902.2	1745.2	1632.5	1591.1	1597.1
10°	4346.6	3911.1	3214.8	2657.7	2142.2	1757.0	1478.5	1339.2	1274.0	1250.4	1223.7
12.5°	4651.8	4091.8	3200.0	2423.7	1780.7	1401.4	1203.0	1120.0	1057.7	1040.0	1040.0
15°	4995.5	4284.4	3128.9	2133.3	1445.9	1158.5	1025.2	960.0	939.2	921.5	921.5
17.5°	5354.1	4474.0	2980.7	1774.8	1200.0	992.5	909.6	871.1	841.5	820.7	820.7
20°	5762.9	4660.7	2743.7	1457.8	1013.3	885.9	820.7	776.3	752.6	734.8	728.9
22.5°	6151.1	4811.8	2441.4	1197.0	883.0	797.0	737.8	690.4	666.7	657.7	657.7
25°	6554.0	4903.6	2077.0	989.6	805.9	722.9	657.7	619.2	598.5	592.6	589.6
27.5°	6945.1	4957.0	1757.0	865.1	734.8	654.8	592.6	563.0	542.2	536.3	539.2
30°	7419.2	4965.9	1445.9	776.3	672.5	589.6	533.4	506.7	494.8	488.9	485.9
32.5°	7899.2	4954.0	1214.8	722.9	613.3	533.4	485.9	465.2	456.3	447.4	447.4
35°	8438.4	4891.8	1034.1	669.6	557.0	485.9	444.5	426.6	414.8	406.0	402.9
37.5°	9108.0	4859.2	930.4	610.4	506.7	441.4	402.9	385.2	376.3	364.4	361.5
40°	10162.9	5004.4	897.8	557.0	456.3	400.0	364.4	343.7	331.9	320.0	317.1
42.5°	11478.4	5259.2	844.4	503.7	411.8	361.5	325.9	302.3	281.5	266.7	260.7
45°	13182.1	5594.0	761.4	447.4	373.3	320.0	287.4	257.8	231.1	219.2	216.3
47.5°	14968.7	5916.9	687.4	402.9	331.9	284.4	248.9	216.3	192.6	183.7	180.7
50°	16065.0	5982.2	640.0	352.5	290.4	245.9	210.3	180.7	165.9	157.0	157.0
52.5°	16565.8	5878.4	574.8	308.1	251.9	216.3	180.7	157.0	148.2	142.2	139.3
55°	16915.4	5718.5	488.9	266.7	216.3	183.7	160.0	142.2	130.4	124.5	121.4
57°	17119.8	5502.2	423.7	234.1	186.7	160.0	142.2	127.4	115.6	103.7	103.7
57.5°	17128.7	5419.2	406.0	231.1	177.8	154.1	139.3	124.5	109.7	97.8	94.8
60°	16865.0	4850.3	325.9	195.5	142.2	130.4	115.6	97.8	77.0	65.2	62.2
62.5°	16017.6	4127.4	269.6	165.9	115.6	100.8	82.9	74.1	53.3	38.5	38.5
65°	14734.7	3348.1	231.1	133.3	94.8	74.1	56.3	53.3	32.6	17.7	14.8
67.5°	12879.8	2607.4	195.5	109.7	80.0	53.3	38.5	35.6	17.7	5.9	0.0
70°	9813.2	1777.8	163.0	88.9	59.3	38.5	26.7	20.8	11.9	2.9	0.0
72.5°	5656.2	977.7	136.3	68.1	44.4	29.6	20.8	11.9	11.9	0.0	0.0
75°	2020.8	420.8	103.7	50.4	35.6	23.7	14.8	5.9	8.9	2.9	0.0
77.5°	642.9	225.2	68.1	38.5	29.6	17.7	11.9	5.9	5.9	2.9	0.0
80°	189.6	118.5	41.5	32.6	20.8	14.8	8.9	2.9	5.9	2.9	0.0
82.5°	103.7	59.3	32.6	23.7	20.8	11.9	8.9	2.9	2.9	2.9	0.0
85°	53.3	35.6	26.7	23.7	20.8	11.9	8.9	2.9	0.0	2.9	2.9
87.5°	29.6	26.7	26.7	23.7	20.8	14.8	8.9	2.9	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)