

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: P651146

Luminaire Tested: **GALN-SA9C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32008.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

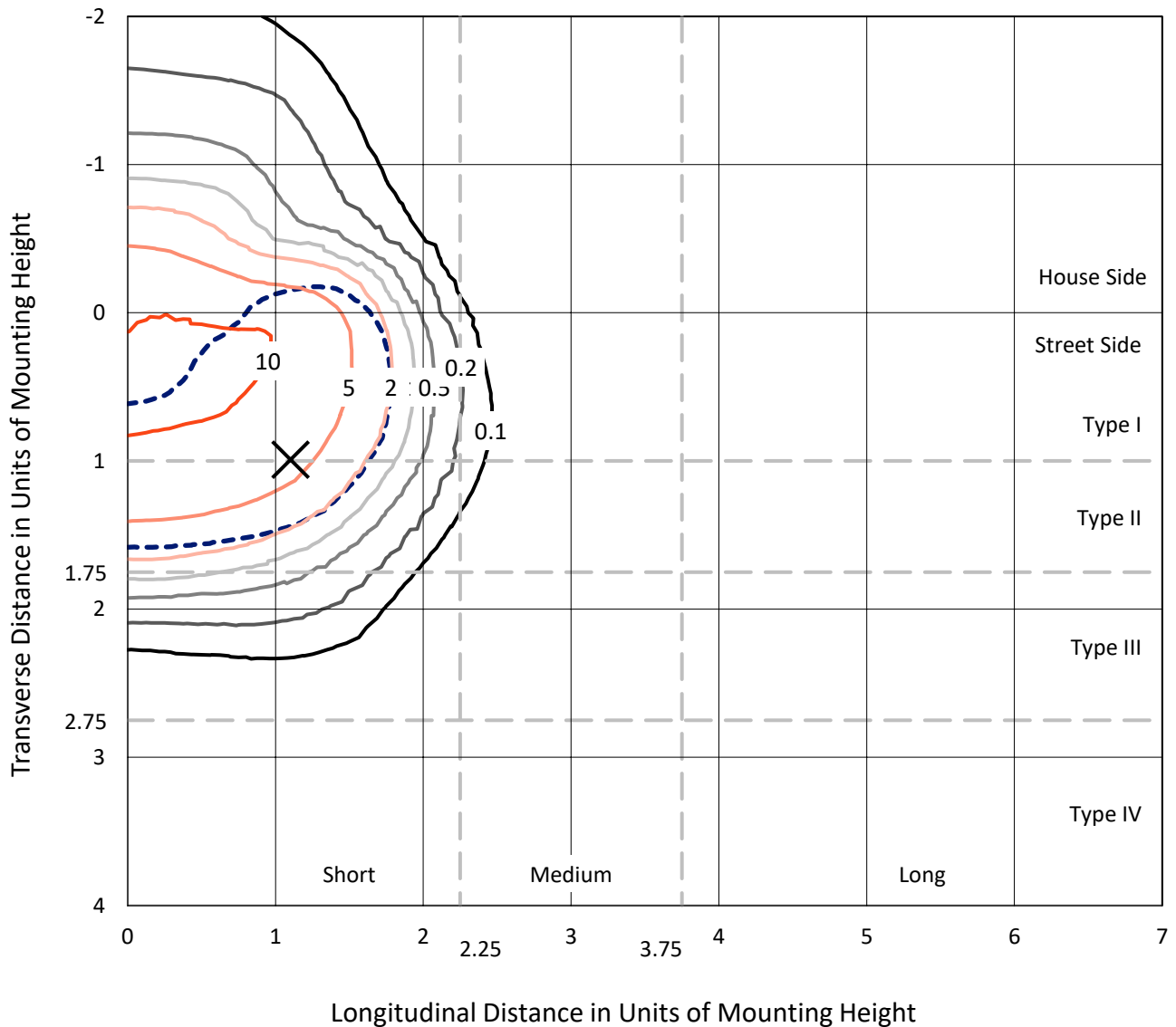
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

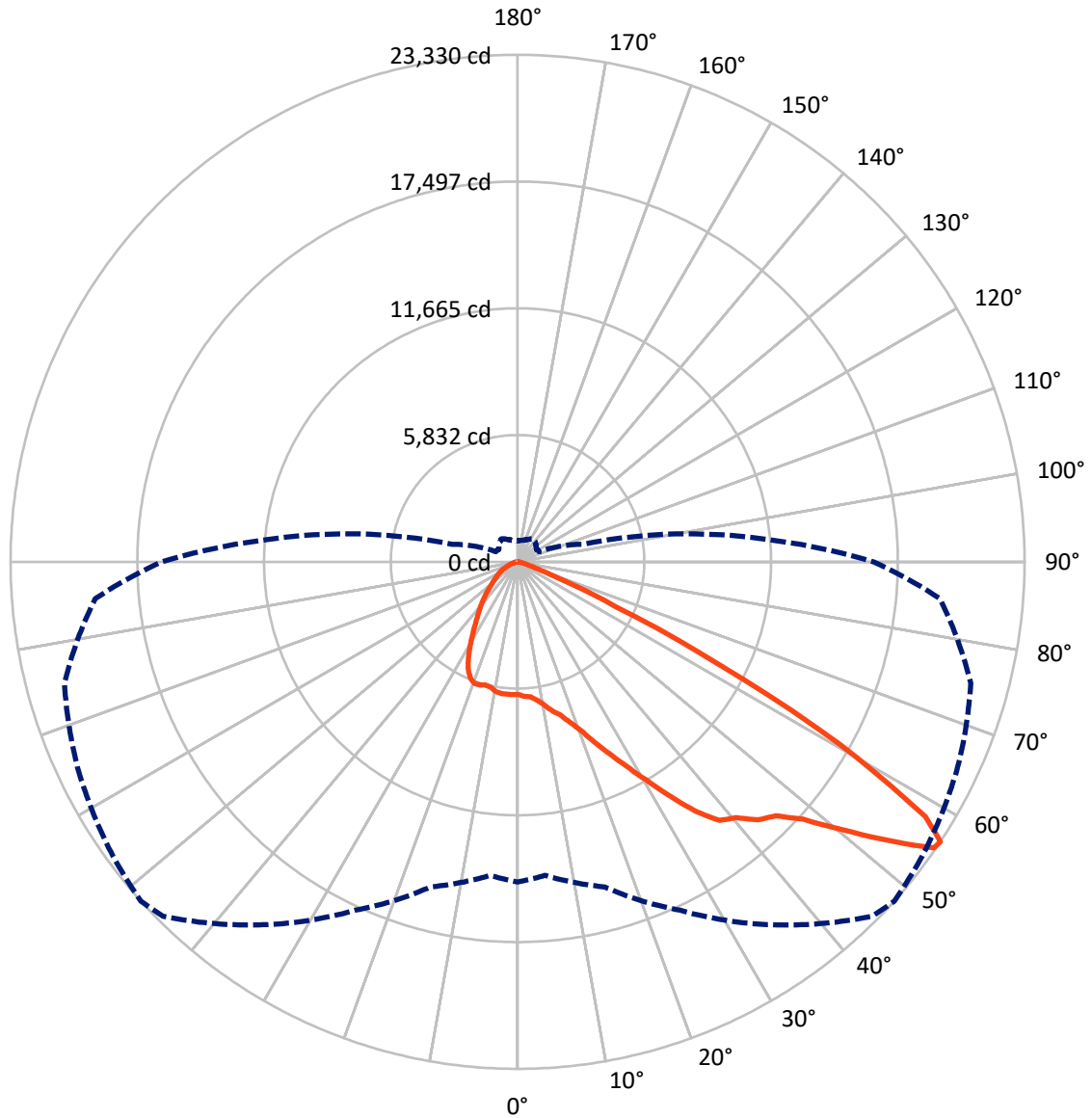
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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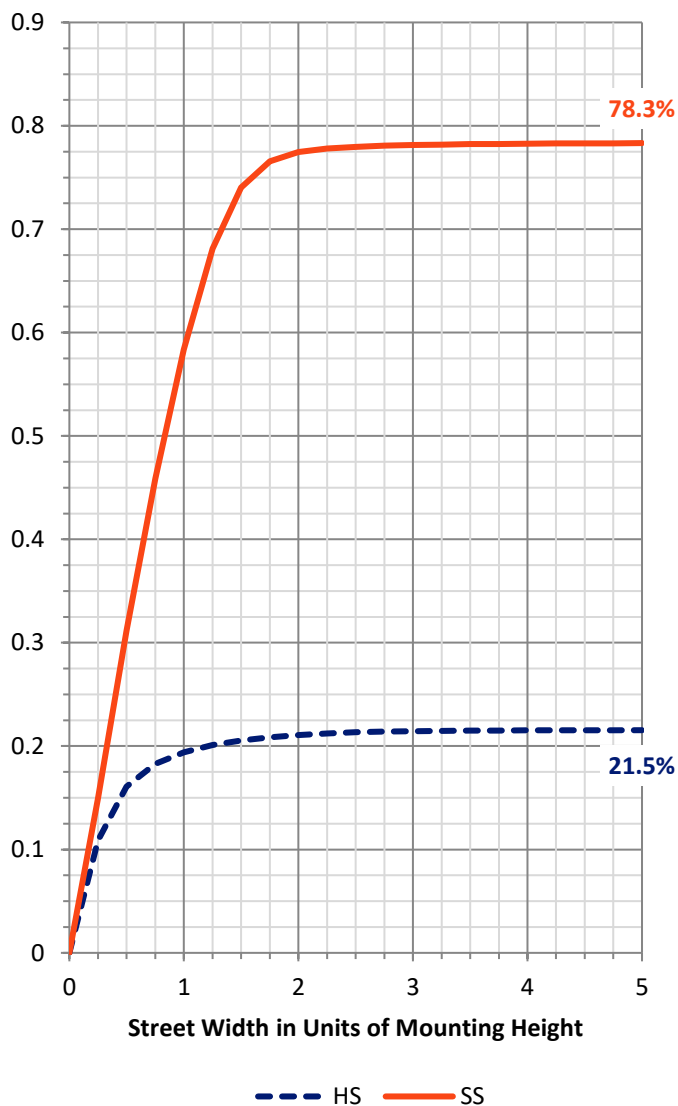
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6961.2	0.0	6961.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	25047.2	0.0	25047.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	32008.4	0.0	32008.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.5	1.9
10°-20°	1903.2	5.9
20°-30°	3452.1	10.8
30°-40°	5422.5	16.9
40°-50°	7910.5	24.7
50°-60°	9530.6	29.8
60°-70°	2790.5	8.7
70°-80°	354.0	1.1
80°-90°	49.6	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°	32008.4	100.0
0°-180°	32008.4	100.0

Coefficient of Utilization

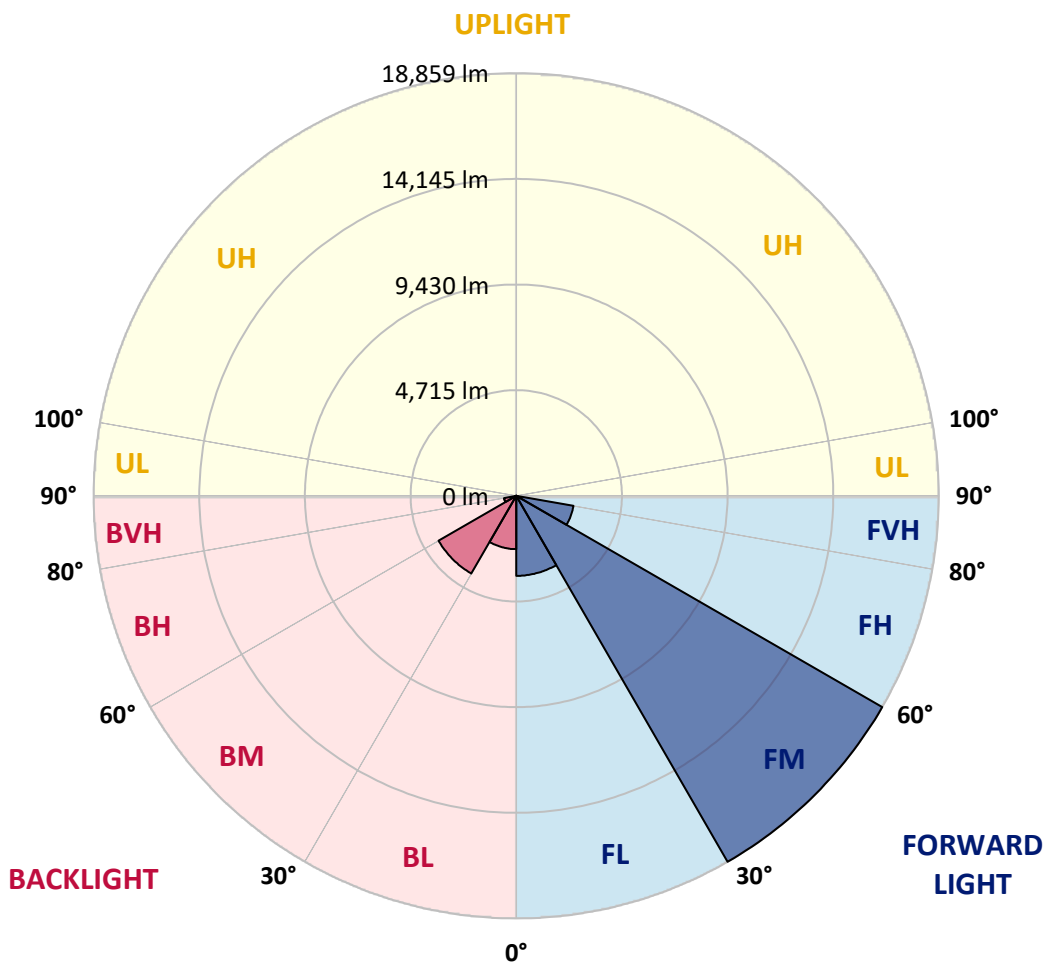


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	11.2			
FM (30°-60°)	18859.5	58.9			
FH (60°-80°)	2591.3	8.1			G2/5000
FVH (80°-90°)	24.9	0.1			G1/100
BL (0°-30°)	2379.3	7.4	B3/2500		
BM (30°-60°)	4004.1	12.5	B3/5000		
BH (60°-80°)	553.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	24.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6
2.5°	6224.3	6195.2	6195.2	6148.6	6201.0	6177.7	6195.2	6136.9	6195.2	6107.8	6177.7
5°	6253.5	6259.3	6236.0	6265.2	6265.2	6300.1	6241.8	6294.3	6323.5	6259.3	6230.2
7.5°	6405.1	6416.7	6410.9	6387.6	6434.2	6428.4	6422.5	6381.8	6393.4	6370.1	6335.1
10°	6702.3	6696.5	6725.6	6667.3	6632.3	6673.1	6684.8	6620.7	6574.0	6556.5	6445.8
12.5°	7133.5	7063.6	7022.8	6964.5	6982.0	6923.7	7028.7	6917.9	6894.6	6789.6	6679.0
15°	7483.2	7471.5	7477.4	7384.1	7279.3	7302.6	7302.6	7244.3	7209.3	7081.1	6923.7
17.5°	8200.1	7955.3	8007.7	7891.2	7803.8	7797.9	7745.5	7757.1	7663.9	7395.8	7156.8
20°	8759.6	8654.6	8573.1	8374.9	8240.9	8281.7	8258.4	8200.1	8170.9	7821.2	7483.2
22.5°	9260.8	9295.7	9161.7	9109.3	8922.8	8940.3	8986.8	8934.4	8712.9	8351.6	7850.4
25°	9965.9	9925.1	9744.5	9680.4	9505.6	9569.7	9750.3	9709.5	9569.7	8917.0	8136.0
27.5°	10799.4	10659.5	10694.5	10403.1	10234.0	10414.8	10630.4	10834.4	10438.1	9581.3	8474.0
30°	11388.0	11242.3	11230.6	11219.0	11178.2	11388.0	11638.6	11825.1	11504.5	10245.7	9033.5
32.5°	11679.4	11714.4	11813.4	11778.5	12134.0	12565.3	12827.5	13095.6	12693.5	11329.7	9773.7
35°	12454.5	12233.1	12454.5	12477.8	12845.0	13760.0	14092.2	14733.3	14634.2	12862.5	10677.0
37.5°	12909.2	12891.7	12920.8	13142.2	13497.8	14628.4	15100.5	15595.8	15409.4	13783.3	11801.8
40°	13661.0	13707.6	13701.7	13870.8	14261.3	15281.1	15473.5	15875.6	15893.1	15059.7	13457.0
42.5°	14867.4	14680.8	14558.5	14733.3	15281.1	15846.5	16231.1	16149.6	16726.5	16609.9	15584.2
45°	15951.4	16062.1	15881.4	16172.9	16371.0	16674.1	16662.4	16837.2	17571.6	18125.2	17186.9
47.5°	16965.5	17035.4	17122.8	17321.0	17752.2	17798.8	17699.8	17624.1	18638.2	19209.3	18428.3
50°	17571.6	17635.7	18043.7	18399.1	19203.5	19308.4	19366.6	19174.3	19862.0	19926.1	19599.8
52.5°	17408.4	17478.3	18049.5	19220.9	20503.1	21464.8	21289.9	20963.5	20922.7	21173.4	20683.8
55°	15963.0	15898.9	16685.7	18509.9	20911.0	23219.0	23242.3	22898.4	22239.8	22070.9	20520.6
56°	14733.3	14482.7	15485.2	17688.2	20386.5	23067.5	23329.7	22962.5	22344.8	21587.1	19512.3
57.5°	12069.9	12308.9	13305.5	15129.6	18574.0	21977.6	22129.1	22041.7	21575.4	20304.9	17169.4
60°	6655.7	7075.2	7955.3	10187.5	13223.9	16866.4	16988.8	17699.8	17787.2	15549.2	11813.4
62.5°	2826.6	2780.0	3695.0	5338.5	7529.8	10181.7	10408.9	11137.4	11271.4	8963.5	5927.1
65°	1148.1	1212.2	1672.7	2686.7	3980.5	4639.1	4959.7	5198.6	5641.6	3700.8	2185.5
67.5°	757.7	751.9	985.0	1532.8	2144.7	2068.9	2068.9	2185.5	2022.4	1509.4	944.1
70°	542.0	559.5	705.2	1060.7	1334.6	990.8	950.0	909.2	1031.6	996.6	763.5
72.5°	355.5	378.8	472.1	635.3	693.6	542.0	542.0	652.8	850.9	804.2	623.6
75°	233.1	238.9	291.4	367.2	343.9	279.7	308.9	437.1	617.8	594.5	443.0
77.5°	157.4	163.2	198.1	238.9	192.3	157.4	169.0	221.4	303.1	303.1	233.1
80°	58.3	64.1	81.6	75.8	87.4	110.8	122.4	151.5	180.6	180.6	157.4
82.5°	0.0	5.8	17.5	40.8	64.1	87.4	99.1	116.6	134.1	151.5	145.7
85°	0.0	5.8	17.5	29.1	46.6	52.5	58.3	40.8	35.0	35.0	29.1
87.5°	0.0	0.0	5.8	5.8	5.8	5.8	5.8	5.8	11.7	5.8	5.8
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°	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6	6113.6
2.5°	6113.6	6107.8	6107.8	6090.4	6125.3	6107.8	6119.5	6113.6	6037.9	6096.2	6055.4
5°	6177.7	6218.5	6154.4	6142.7	6096.2	6113.6	6113.6	6055.4	6107.8	6102.0	6090.4
7.5°	6340.9	6271.0	6201.0	6131.1	6119.5	6102.0	6037.9	6014.6	6055.4	6008.7	6078.7
10°	6410.9	6422.5	6317.6	6224.3	6136.9	6014.6	5927.1	5874.7	5810.6	5880.5	5921.3
12.5°	6731.4	6614.8	6434.2	6288.5	5991.2	5868.8	5781.5	5758.2	5868.8	5892.1	5851.3
15°	6842.1	6824.6	6591.5	6265.2	5956.3	5810.6	5828.0	5781.5	5793.1	5734.8	5746.5
17.5°	7069.4	6871.3	6597.4	6189.4	5950.4	5915.5	5810.6	5624.1	5519.1	5472.6	5513.3
20°	7320.1	7127.7	6731.4	6218.5	6002.9	5909.6	5565.8	5338.5	5122.9	5006.3	5012.1
22.5°	7541.5	7302.6	6673.1	6230.2	6049.5	5664.9	5251.0	4802.3	4534.3	4353.5	4359.4
25°	7809.6	7471.5	6696.5	6253.5	5927.1	5274.4	4679.9	4242.8	3922.3	3799.9	3840.7
27.5°	7961.2	7576.5	6824.6	6306.0	5606.6	4720.7	4079.6	3671.6	3485.2	3426.9	3421.1
30°	8415.7	7809.6	6982.0	6201.0	5070.4	4126.3	3531.8	3281.2	3100.5	3048.0	3059.7
32.5°	9091.8	8235.1	7186.0	5927.1	4522.6	3595.9	3176.3	2989.8	2820.8	2721.7	2710.0
35°	9657.1	8963.5	7401.6	5501.7	3887.4	3188.0	2925.7	2692.5	2436.1	2325.4	2296.3
37.5°	10735.3	9785.3	7355.0	4860.6	3281.2	2884.9	2657.6	2372.0	2150.5	1999.1	1981.6
40°	12169.0	10747.0	7127.7	4079.6	2832.4	2616.8	2372.0	2098.1	1824.2	1696.0	1684.3
42.5°	13911.6	11924.2	6714.0	3287.0	2383.6	2348.7	2127.2	1812.5	1567.7	1474.5	1480.3
45°	15327.8	12932.5	6294.3	2640.1	2051.5	2086.4	1894.1	1596.9	1427.8	1352.1	1352.1
47.5°	16586.6	13614.4	5839.7	2179.7	1742.6	1824.2	1655.2	1480.3	1334.6	1276.4	1264.7
50°	17798.8	14307.8	5385.1	1765.9	1486.1	1567.7	1550.3	1410.4	1293.8	1223.9	1229.7
52.5°	18556.5	14418.6	4808.2	1445.3	1299.7	1392.9	1451.1	1323.0	1194.7	1153.9	1142.3
55°	17629.9	12990.8	3729.9	1188.9	1101.5	1223.9	1334.6	1188.9	1089.9	1019.9	1014.1
56°	16382.7	11615.3	3118.0	1095.7	1043.3	1177.2	1293.8	1136.4	1025.8	985.0	955.8
57.5°	13870.8	9505.6	2302.1	973.3	967.5	1095.7	1229.7	1084.0	955.8	920.8	920.8
60°	8648.8	5350.2	1392.9	815.9	839.2	973.3	1107.3	967.5	850.9	850.9	868.4
62.5°	3939.7	2226.3	845.0	693.6	722.7	839.2	985.0	874.2	810.1	874.2	885.8
65°	1340.5	961.6	611.9	553.6	571.1	693.6	845.0	885.8	880.0	920.8	944.1
67.5°	751.9	617.8	512.8	460.4	448.8	512.8	693.6	885.8	850.9	833.4	845.0
70°	635.3	524.5	454.6	408.0	390.5	413.8	536.2	670.2	600.3	582.8	571.1
72.5°	512.8	437.1	396.3	367.2	314.7	268.1	244.8	256.4	285.6	303.1	332.2
75°	361.4	332.2	332.2	297.2	227.3	169.0	134.1	110.8	75.8	52.5	58.3
77.5°	203.9	203.9	209.8	180.6	145.7	110.8	81.6	58.3	29.1	11.7	5.8
80°	139.9	151.5	163.2	145.7	122.4	99.1	70.0	40.8	17.5	0.0	0.0
82.5°	139.9	157.4	169.0	145.7	122.4	93.3	70.0	40.8	17.5	5.8	0.0
85°	29.1	35.0	40.8	46.6	70.0	70.0	52.5	35.0	17.5	5.8	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	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)