

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: P650956

Luminaire Tested: **GALN-SA6C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28694.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

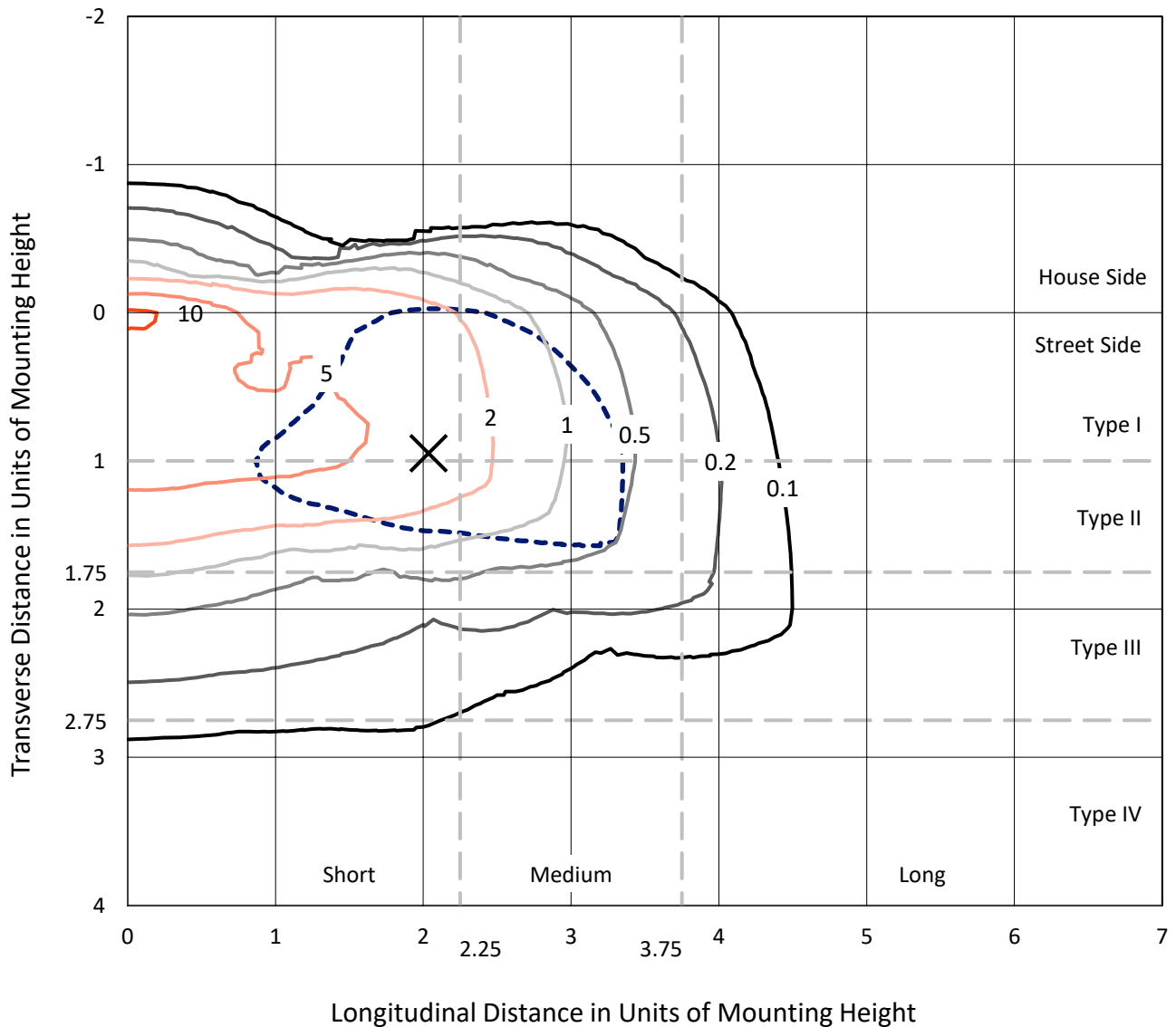
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

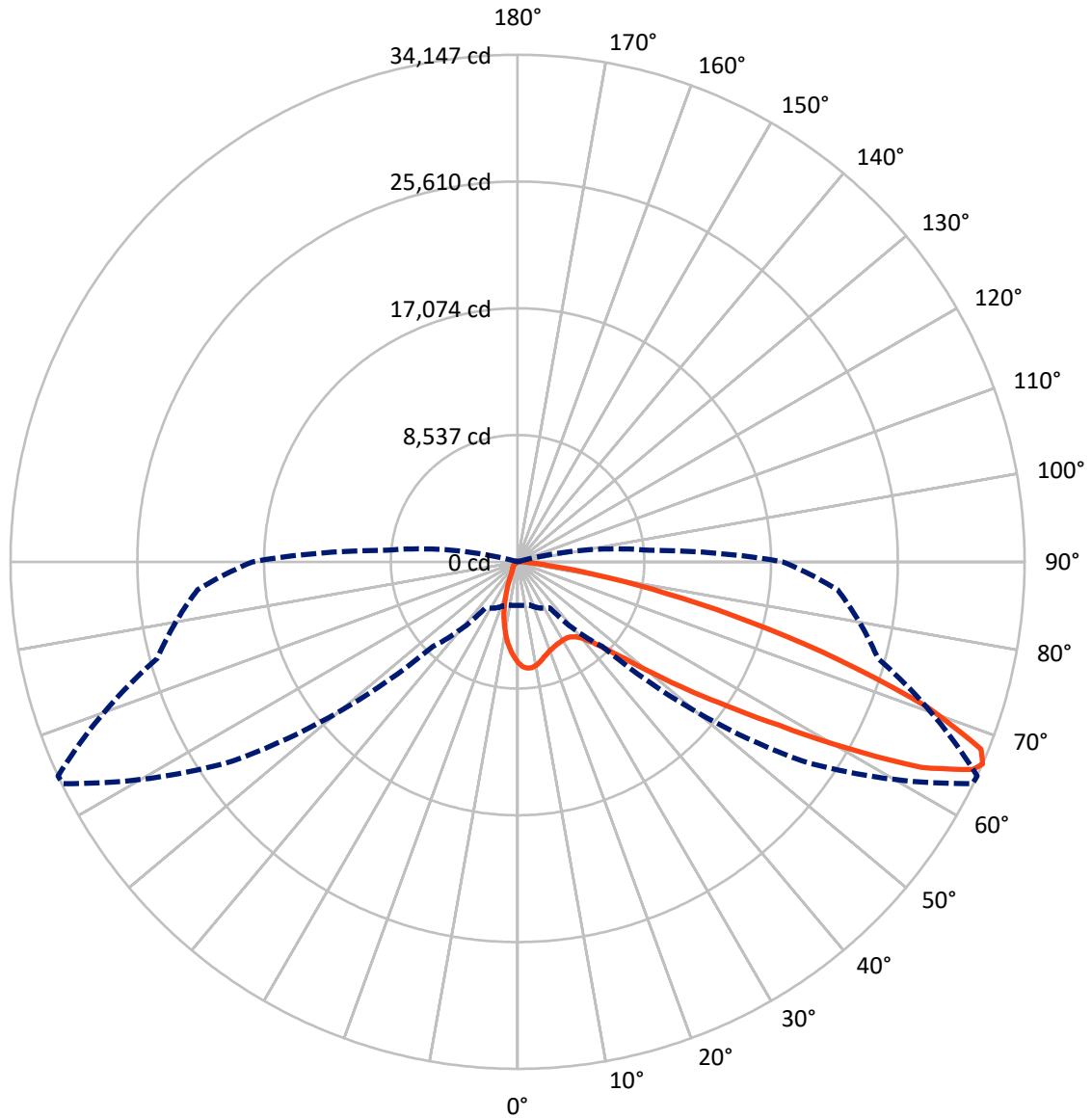
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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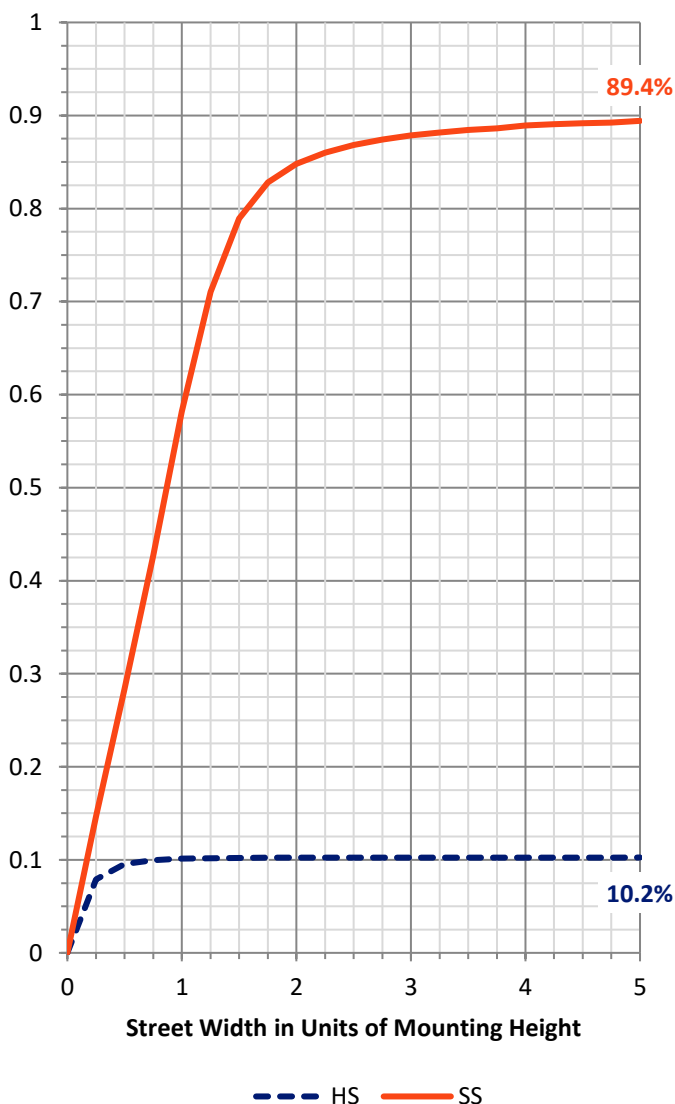
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2967.4	0.0	2967.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25727.5	0.0	25727.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	28694.9	0.0	28694.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	1.9
10°-20°	1212.6	4.2
20°-30°	1737.0	6.1
30°-40°	2537.0	8.8
40°-50°	4254.2	14.8
50°-60°	7099.5	24.7
60°-70°	7535.9	26.3
70°-80°	3413.0	11.9
80°-90°	349.2	1.2
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°	28694.9	100.0
0°-180°	28694.9	100.0

Coefficient of Utilization

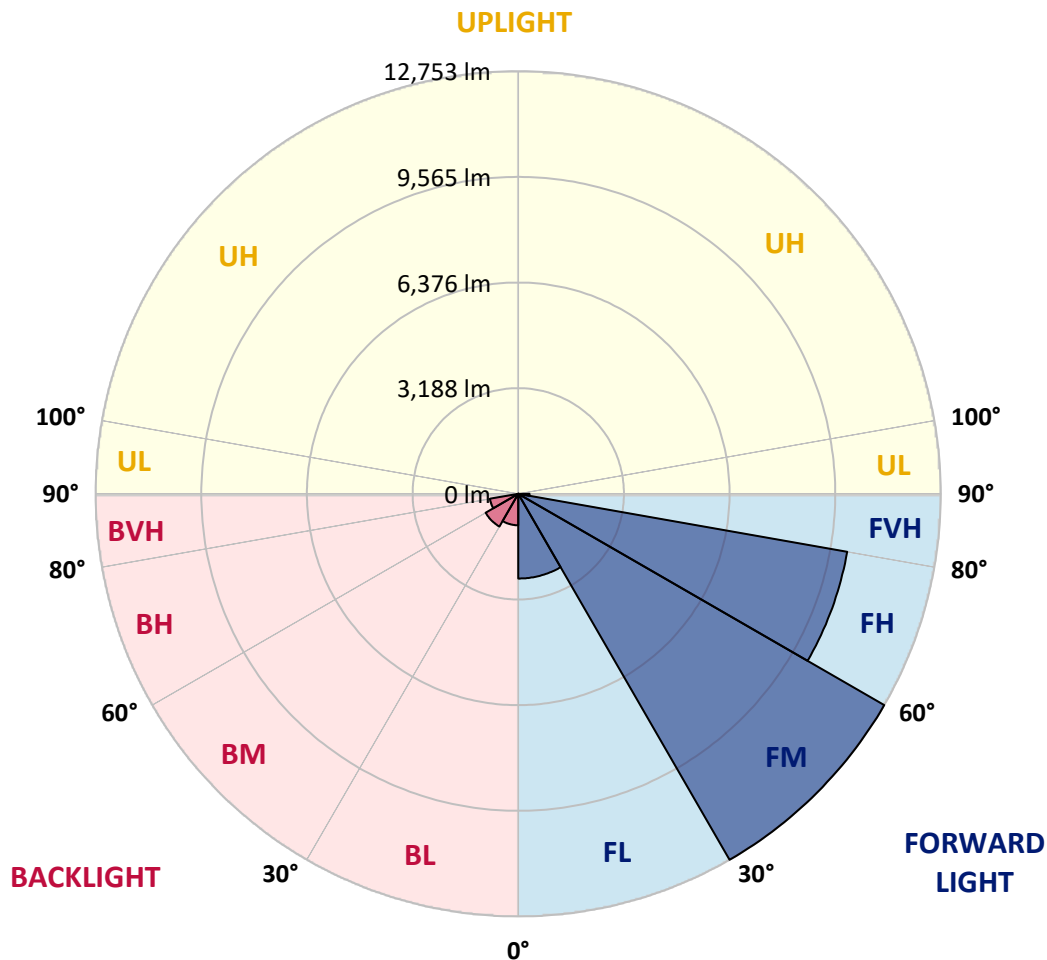


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.8	8.9			
FM (30°-60°)	12752.7	44.4			
FH (60°-80°)	10079.9	35.1			G4/12000
FVH (80°-90°)	338.1	1.2			G3/500
BL (0°-30°)	949.3	3.3	B2/1000		
BM (30°-60°)	1138.0	4.0	B2/2500		
BH (60°-80°)	869.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.1	0.0			G1/100
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°	64°	65°	75°	85°
0°	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6
2.5°	7171.0	7178.7	7188.4	7201.9	7211.7	7182.6	7141.9	7095.3	7085.7	6986.8	6866.7
5°	6787.2	6798.8	6884.1	6930.6	7035.2	7130.3	7190.3	7198.0	7194.2	7101.2	6909.3
7.5°	6240.6	6273.6	6357.0	6438.4	6634.1	6814.3	7027.5	7176.8	7186.4	7161.2	6922.9
10°	5796.8	5818.1	5860.8	6021.6	6184.5	6459.6	6758.1	7039.2	7062.4	7163.1	6911.3
12.5°	5449.9	5480.9	5533.3	5657.2	5853.0	6112.7	6451.9	6829.8	6878.3	7126.4	6878.3
15°	5207.6	5223.1	5275.5	5397.5	5587.5	5827.8	6170.8	6610.8	6653.5	7077.9	6872.5
17.5°	5093.3	5110.8	5147.6	5244.5	5401.5	5624.4	5959.6	6434.5	6488.7	7046.9	6893.8
20°	5124.3	5139.8	5141.7	5192.2	5298.7	5486.7	5804.6	6269.7	6339.5	7027.5	6928.7
22.5°	5300.7	5302.6	5279.4	5256.1	5292.9	5428.6	5709.6	6165.0	6236.8	7023.6	6969.4
25°	5564.2	5570.0	5531.3	5449.9	5376.3	5446.1	5688.3	6097.2	6161.2	7013.9	6994.6
27.5°	5928.6	5926.7	5915.0	5779.4	5570.0	5523.5	5705.8	6060.4	6114.7	6986.8	7004.3
30°	6438.4	6422.8	6397.7	6244.5	5924.8	5711.6	5779.4	6037.1	6087.5	6948.0	6979.0
32.5°	6940.3	6998.5	6994.6	6849.2	6450.0	6046.8	5932.5	6068.2	6105.0	6922.9	6942.2
35°	7525.6	7523.7	7672.9	7618.6	7151.5	6475.1	6194.1	6170.8	6199.9	6940.3	6924.8
37.5°	8068.2	8118.7	8351.2	8407.4	7981.0	7079.8	6564.3	6391.9	6401.5	7058.5	6967.4
40°	8744.6	8841.5	9188.4	9376.5	9000.5	7977.1	7110.8	6796.9	6798.8	7349.2	7128.3
42.5°	9616.8	9769.9	10093.6	10407.5	10206.0	9039.2	7930.6	7438.4	7434.5	7860.9	7496.5
45°	10676.9	10783.6	11151.7	11649.9	11522.0	10521.8	9124.5	8432.6	8382.2	8700.1	8149.6
47.5°	11591.7	11737.1	12111.1	12679.0	13260.4	12332.1	10550.9	9799.0	9766.0	10035.4	9269.8
50°	11991.0	12118.9	12512.3	13308.8	14717.8	14708.2	12675.1	11793.3	11737.1	11882.4	11002.6
52.5°	11552.9	11673.1	12070.4	13062.7	15403.9	17603.6	15752.8	14295.3	14227.5	14041.4	13072.4
55°	10052.9	10151.7	10739.0	11878.5	15140.4	19534.0	19993.3	17386.6	17123.0	16400.1	15415.5
57.5°	8004.3	7953.9	8318.2	9642.0	13593.8	20181.3	24346.3	21237.5	20766.6	18438.9	17398.2
60°	5546.8	5701.8	5849.2	6721.3	10221.4	19059.2	27053.8	26078.9	25458.8	20444.9	19297.5
62.5°	4077.8	4180.4	4277.3	4680.5	6426.7	15217.9	27532.5	31052.0	30501.6	22574.9	21109.6
65°	3225.0	3232.7	3271.5	3668.8	4234.7	9895.9	25231.9	33856.5	33714.9	24625.3	21844.2
66°	2938.1	2940.1	3000.2	3426.6	3800.6	8058.5	23388.8	34069.7	34147.1	25117.6	21629.1
67.5°	2568.0	2560.2	2647.5	3079.7	3461.4	5810.4	20090.2	33205.3	33664.6	25495.5	20855.8
70°	1990.4	1980.7	2087.3	2583.5	3188.1	3876.2	13353.4	28511.2	29251.6	24722.2	18452.5
72.5°	1325.7	1333.4	1515.6	2038.8	3042.8	3412.9	8033.4	21689.1	22735.7	20415.8	14516.2
75°	773.3	786.8	994.2	1515.6	2641.6	3254.1	4546.8	15465.9	16134.6	14097.7	9043.1
77.5°	405.0	410.9	556.2	1000.0	2025.3	3021.5	3029.2	9880.4	10194.3	6851.1	3579.6
80°	215.1	209.3	298.5	602.7	1393.5	2653.3	2457.5	5230.9	5438.2	2035.0	905.1
82.5°	81.4	89.1	158.9	395.4	823.7	1905.1	2116.4	2312.2	2240.4	447.7	379.9
85°	15.5	19.3	67.9	234.5	414.8	796.6	1560.1	1133.8	1050.4	168.6	219.0
87.5°	1.9	3.9	19.3	56.2	60.0	269.4	461.3	313.9	271.3	62.0	91.1
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°	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6	6804.6
2.5°	6808.5	6756.2	6581.8	6409.3	6232.9	6074.0	5965.5	5789.1	5744.5	5680.5	5643.7
5°	6794.9	6672.8	6337.5	5971.3	5630.2	5261.9	4980.9	4709.5	4564.2	4490.5	4463.4
7.5°	6756.2	6562.3	6039.1	5465.4	4918.8	4368.4	3889.7	3525.4	3290.8	3130.0	3021.5
10°	6678.6	6411.2	5692.1	4903.4	4077.8	3351.0	2744.4	2283.1	1926.5	1814.0	1817.9
12.5°	6599.2	6242.6	5304.5	4279.3	3256.0	2339.2	1695.8	1331.5	1160.9	1104.7	1093.0
15°	6525.6	6081.7	4924.6	3674.6	2424.5	1515.6	1093.0	965.1	918.6	909.0	907.0
17.5°	6486.8	5932.5	4519.6	2982.7	1691.9	1029.1	876.0	841.2	827.5	817.9	814.0
20°	6453.8	5802.6	4132.0	2335.4	1157.0	843.1	784.9	751.9	728.7	719.1	713.3
22.5°	6430.5	5668.9	3730.8	1808.2	885.7	748.1	695.8	653.1	620.2	608.5	600.8
25°	6395.7	5521.6	3325.7	1321.8	746.1	664.7	604.7	554.3	511.7	490.3	486.4
27.5°	6345.3	5354.9	2881.9	978.8	666.7	591.1	517.5	455.5	412.8	389.6	391.5
30°	6263.9	5180.5	2438.1	777.2	602.7	515.5	436.1	376.0	335.3	317.8	315.9
32.5°	6167.0	4969.2	2031.1	666.7	544.6	447.7	364.3	312.0	281.1	267.4	265.5
35°	6075.9	4756.1	1616.4	598.9	484.5	385.7	306.2	261.6	238.4	226.7	228.7
37.5°	6025.5	4566.1	1259.7	544.6	436.1	331.4	263.6	224.8	203.5	193.9	191.8
40°	6058.5	4411.0	1002.0	496.2	381.8	284.9	226.7	193.9	172.5	158.9	158.9
42.5°	6213.5	4343.3	808.2	449.6	331.4	246.2	197.7	166.7	143.4	129.9	131.8
45°	6686.4	4415.0	676.4	407.0	284.9	213.2	170.6	137.6	116.3	106.6	104.6
47.5°	7471.4	4684.4	585.3	362.4	244.2	182.2	143.4	114.4	93.0	85.3	83.3
50°	8843.5	5240.6	517.5	317.8	207.4	155.1	118.2	91.1	73.7	65.9	65.9
52.5°	10731.2	6453.8	469.0	267.4	174.4	131.8	96.9	73.7	58.1	52.3	50.4
55°	12704.1	7733.0	443.8	224.8	145.3	108.6	77.5	58.1	44.6	38.8	36.8
57.5°	14601.5	8736.9	414.8	182.2	116.3	83.3	60.0	44.6	31.0	27.2	25.2
60°	16421.5	9549.0	352.7	145.3	91.1	60.0	44.6	31.0	21.3	17.4	17.4
62.5°	18049.4	10021.9	277.1	116.3	69.8	42.6	29.1	23.3	15.5	11.6	11.6
65°	18239.4	9407.5	209.3	89.1	50.4	27.2	17.4	17.4	11.6	7.7	7.7
66°	17857.5	8886.1	184.1	81.4	44.6	23.3	15.5	13.5	9.7	5.8	5.8
67.5°	17004.8	7996.6	158.9	69.8	36.8	17.4	11.6	11.6	7.7	3.9	3.9
70°	14692.6	6531.4	126.0	52.3	27.2	13.5	7.7	7.7	5.8	3.9	3.9
72.5°	11198.3	4876.2	102.7	38.8	19.3	9.7	5.8	5.8	5.8	3.9	3.9
75°	6754.2	2626.1	79.5	29.1	17.4	7.7	3.9	5.8	7.7	5.8	3.9
77.5°	2488.5	893.5	62.0	23.3	13.5	7.7	3.9	3.9	7.7	5.8	5.8
80°	610.5	232.5	44.6	19.3	13.5	7.7	3.9	3.9	7.7	7.7	7.7
82.5°	283.0	98.8	31.0	17.4	13.5	7.7	3.9	3.9	5.8	7.7	7.7
85°	162.8	46.5	25.2	19.3	13.5	7.7	3.9	3.9	5.8	7.7	7.7
87.5°	65.9	23.3	23.3	19.3	15.5	9.7	3.9	3.9	3.9	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

(END OF REPORT)