

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: P652606

Luminaire Tested: **GALN-SA9B-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652606
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-SA9B-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA 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: 35505.4 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

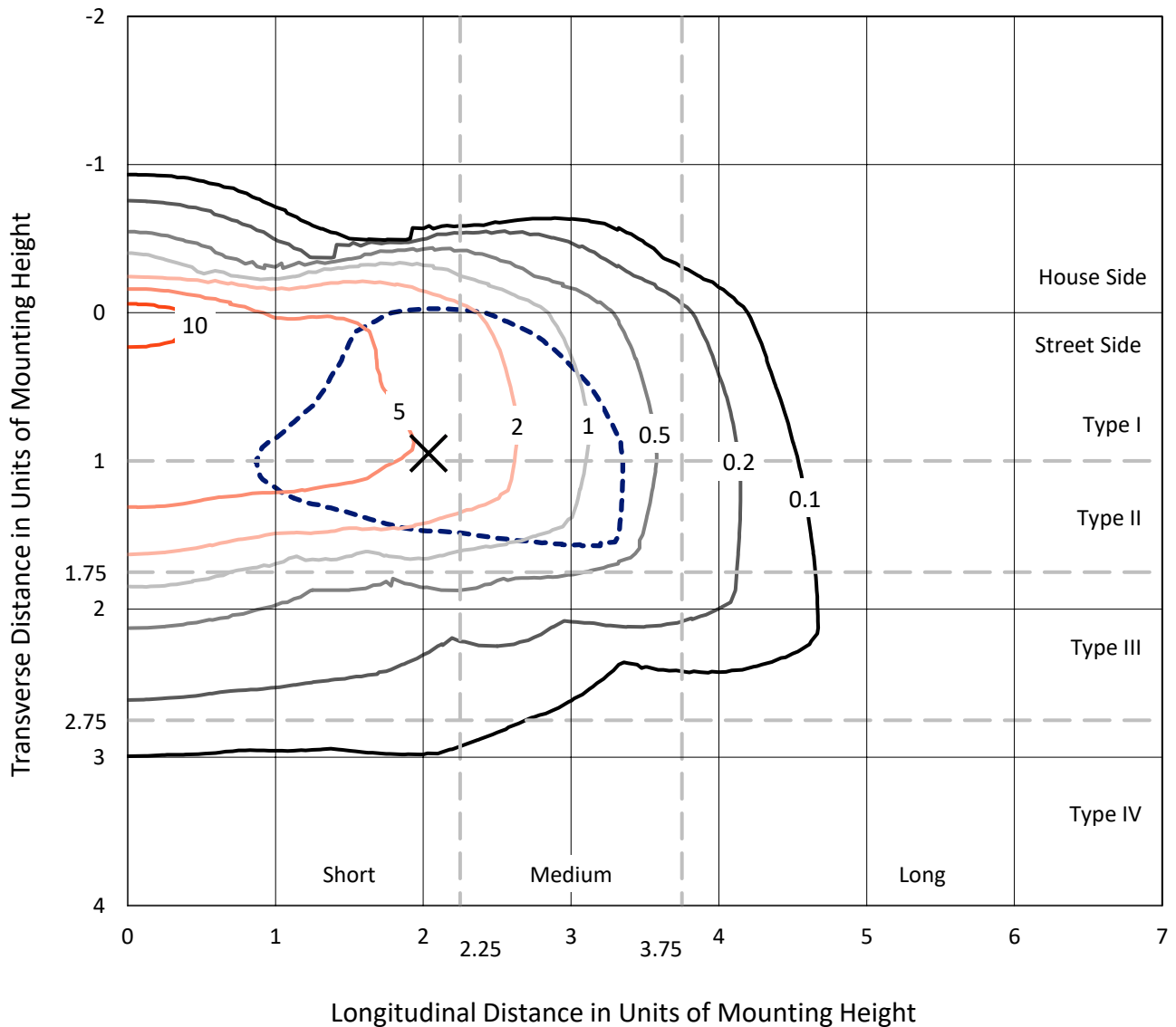
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

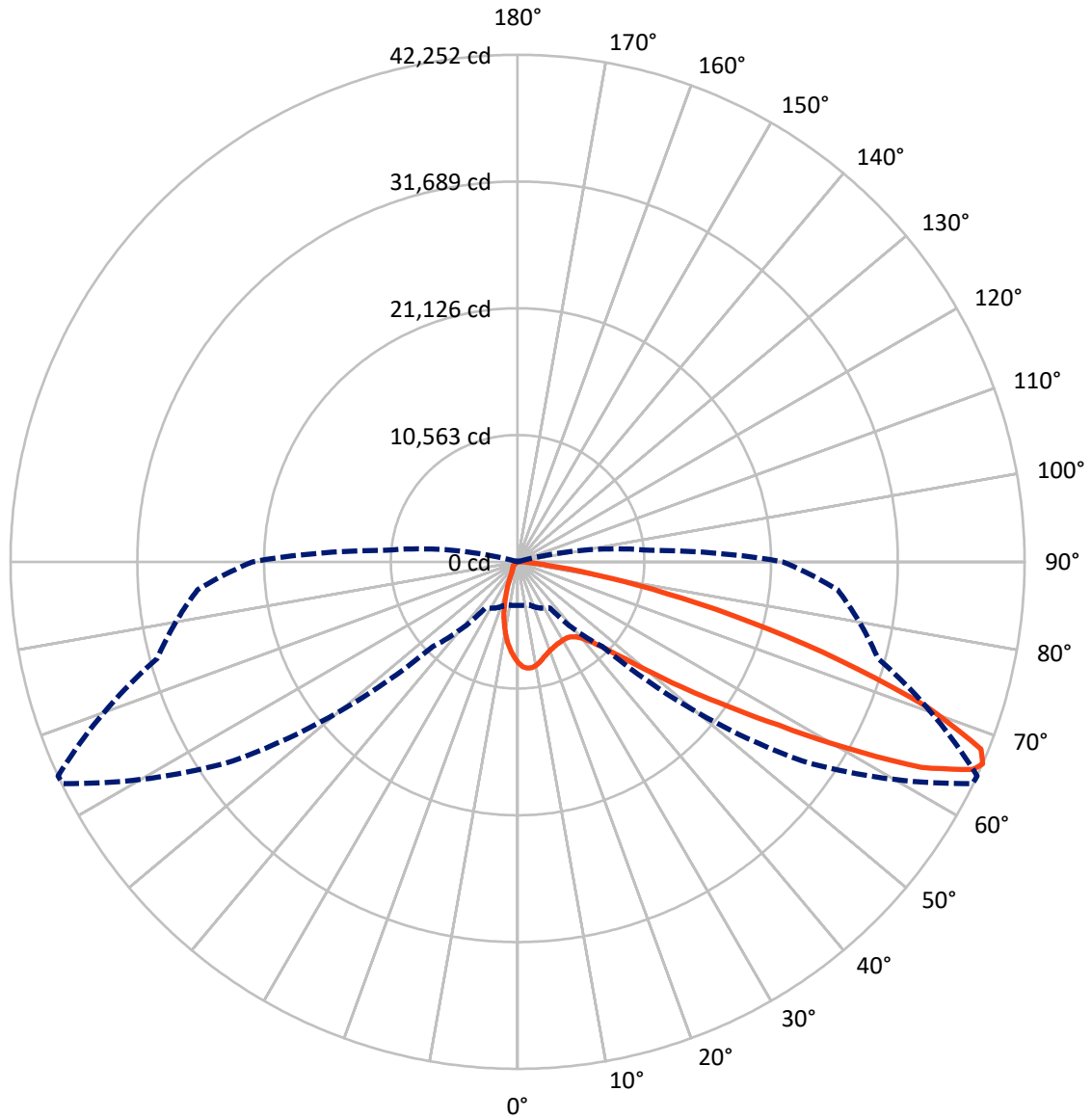
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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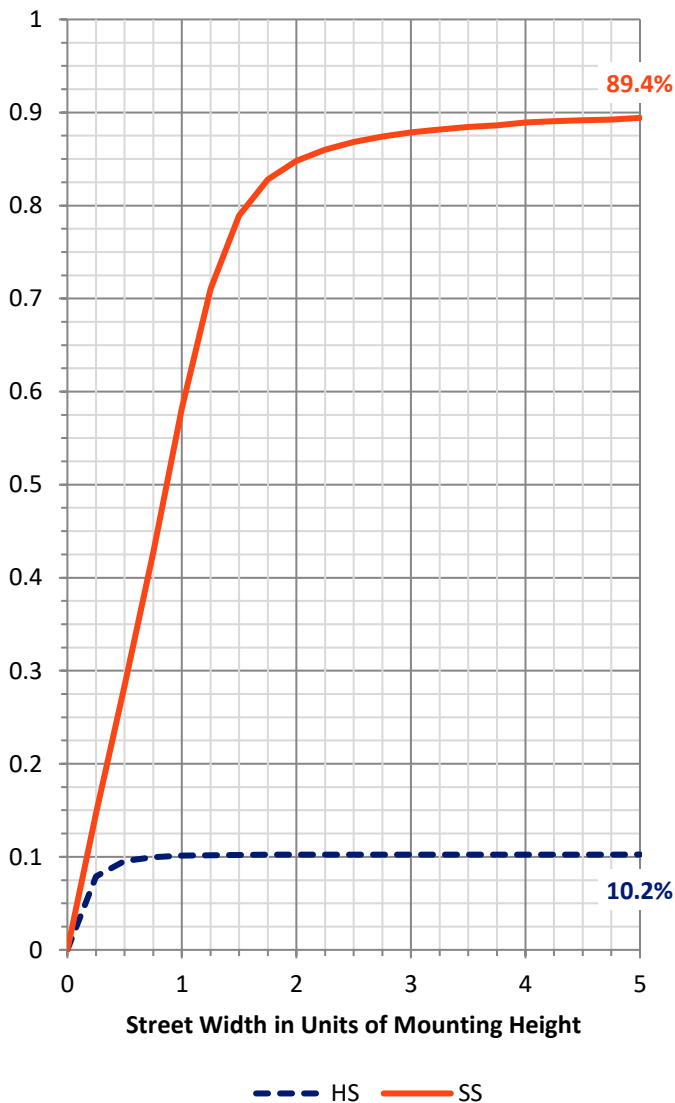
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3671.8	0.0	3671.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	31833.6	0.0	31833.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	35505.4	0.0	35505.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.6	1.9
10°-20°	1500.3	4.2
20°-30°	2149.3	6.1
30°-40°	3139.2	8.8
40°-50°	5263.8	14.8
50°-60°	8784.5	24.7
60°-70°	9324.5	26.3
70°-80°	4223.0	11.9
80°-90°	432.1	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°	35505.4	100.0
0°-180°	35505.4	100.0

Coefficient of Utilization



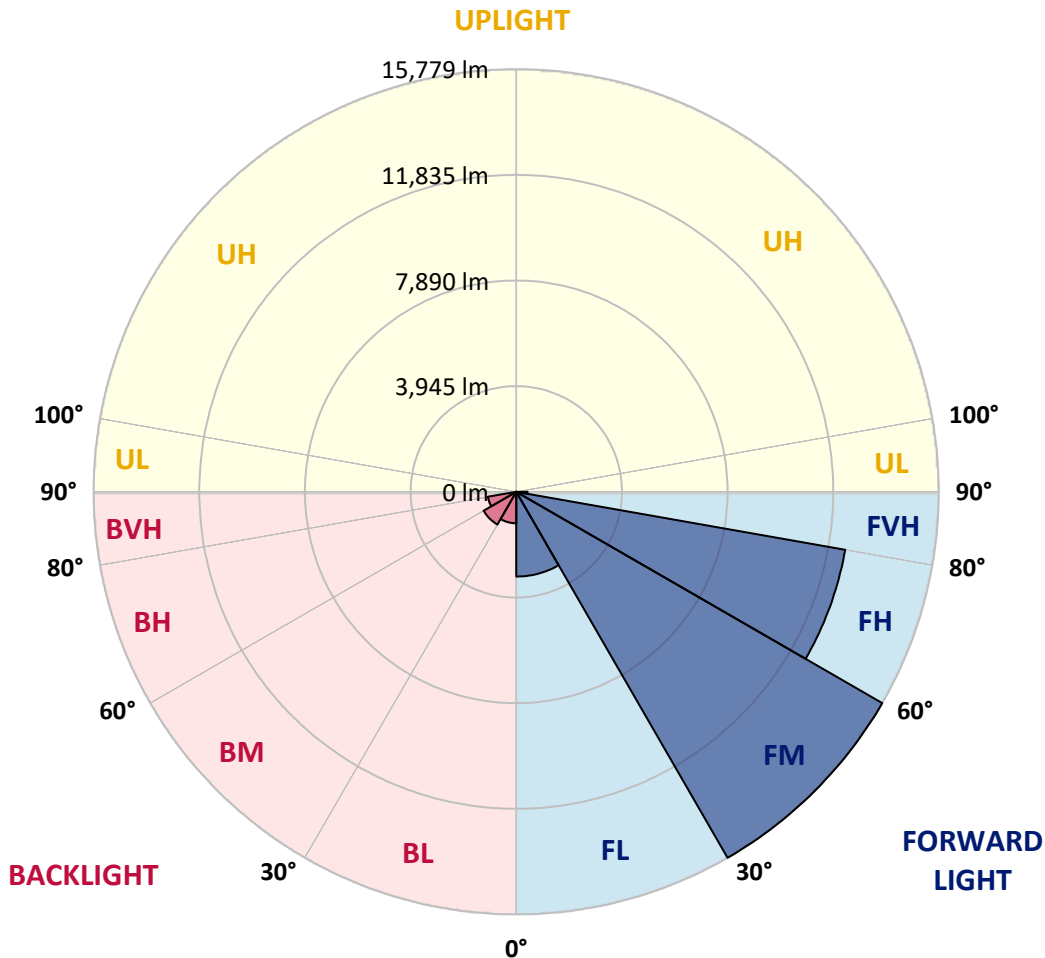
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3163.7	8.9			
FM (30°-60°)	15779.4	44.4			
FH (60°-80°)	12472.2	35.1			G5
FVH (80°-90°)	418.3	1.2			G3/500
BL (0°-30°)	1174.5	3.3	B3/2500		
BM (30°-60°)	1408.1	4.0	B2/2500		
BH (60°-80°)	1075.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6
2.5°	8872.9	8882.5	8894.4	8911.2	8923.2	8887.3	8836.9	8779.4	8767.3	8645.1	8496.4
5°	8398.1	8412.4	8518.0	8575.5	8705.0	8822.5	8896.9	8906.4	8901.6	8786.5	8549.1
7.5°	7721.8	7762.5	7865.7	7966.4	8208.6	8431.6	8695.4	8880.0	8892.1	8860.9	8565.9
10°	7172.6	7199.0	7251.8	7450.8	7652.3	7992.8	8362.1	8709.8	8738.6	8863.3	8551.5
12.5°	6743.4	6781.7	6846.5	7000.0	7242.2	7563.5	7983.2	8450.8	8510.8	8817.7	8510.8
15°	6443.6	6462.8	6527.5	6678.6	6913.6	7211.0	7635.4	8179.8	8232.5	8757.8	8503.5
17.5°	6302.1	6323.7	6369.3	6489.2	6683.4	6959.2	7374.1	7961.6	8028.8	8719.4	8529.9
20°	6340.5	6359.6	6362.1	6424.4	6556.4	6789.0	7182.2	7757.7	7844.1	8695.4	8573.1
22.5°	6558.7	6561.1	6532.4	6503.5	6549.1	6717.0	7064.7	7628.3	7717.0	8690.6	8623.4
25°	6884.8	6892.1	6844.1	6743.4	6652.2	6738.6	7038.3	7544.4	7623.5	8678.6	8654.6
27.5°	7335.7	7333.3	7318.9	7151.0	6892.1	6834.5	7059.9	7498.8	7565.9	8645.1	8666.6
30°	7966.4	7947.2	7916.0	7726.6	7330.9	7067.1	7151.0	7470.0	7532.3	8597.1	8635.5
32.5°	8587.5	8659.4	8654.6	8474.8	7980.8	7482.0	7340.5	7508.4	7553.9	8565.9	8589.9
35°	9311.7	9309.3	9494.0	9426.9	8848.9	8012.0	7664.2	7635.4	7671.4	8587.5	8568.3
37.5°	9983.2	10045.5	10333.3	10402.8	9875.3	8760.2	8122.3	7908.8	7920.8	8733.8	8621.1
40°	10820.1	10940.0	11369.2	11601.8	11136.6	9870.5	8798.5	8410.0	8412.4	9093.5	8820.1
42.5°	11899.2	12088.7	12489.2	12877.6	12628.2	11184.6	9812.9	9203.8	9199.0	9726.6	9275.7
45°	13210.9	13342.9	13798.5	14414.8	14256.5	13019.1	11290.1	10434.0	10371.6	10765.0	10083.9
47.5°	14342.8	14522.7	14985.5	15688.2	16407.6	15258.9	13055.1	12124.6	12083.9	12417.2	11470.0
50°	14836.8	14995.1	15482.0	16467.5	18210.9	18199.0	15683.4	14592.3	14522.7	14702.5	13613.9
52.5°	14294.9	14443.6	14935.2	16163.0	19059.8	21781.6	19491.5	17688.2	17604.2	17374.1	16175.0
55°	12438.8	12561.1	13287.7	14697.7	18733.7	24170.2	24738.5	21513.1	21187.0	20292.5	19074.2
57.5°	9904.0	9841.7	10292.5	11930.4	16820.1	24971.1	30124.5	26278.1	25695.3	22815.2	21527.5
60°	6863.3	7055.1	7237.4	8316.5	12647.5	23582.6	33474.7	32268.4	31501.1	25297.3	23877.6
62.5°	5045.6	5172.7	5292.6	5791.4	7952.0	18829.7	34067.0	38421.8	37740.8	27932.7	26119.8
65°	3990.4	4000.0	4047.9	4539.5	5239.8	12244.5	31220.4	41891.9	41716.8	30469.9	27028.6
66°	3635.5	3637.9	3712.2	4239.8	4702.6	9971.1	28939.9	42155.7	42251.6	31079.0	26762.5
67.5°	3177.5	3167.9	3275.8	3810.6	4283.0	7189.5	24858.4	41086.1	41654.5	31546.6	25805.7
70°	2462.8	2450.8	2582.7	3196.6	3944.8	4796.1	16522.7	35278.0	36194.1	30589.8	22832.1
72.5°	1640.3	1649.9	1875.3	2522.7	3765.0	4223.0	9940.0	26836.8	28131.8	25261.3	17961.6
75°	956.8	973.6	1230.2	1875.3	3268.5	4026.4	5625.9	19136.6	19963.9	17443.6	11189.4
77.5°	501.2	508.4	688.3	1237.4	2506.0	3738.6	3748.2	12225.4	12613.8	8477.2	4429.2
80°	266.2	259.0	369.3	745.8	1724.2	3282.9	3040.7	6472.4	6729.0	2518.0	1119.9
82.5°	100.8	110.3	196.6	489.2	1019.2	2357.3	2618.7	2860.9	2772.2	554.0	470.0
85°	19.2	24.0	83.9	290.1	513.2	985.6	1930.4	1402.9	1299.8	208.7	271.0
87.5°	2.4	4.8	24.0	69.6	74.3	333.4	570.7	388.5	335.7	76.7	112.7
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°	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6	8419.6
2.5°	8424.4	8359.7	8143.8	7930.4	7712.2	7515.5	7381.3	7163.0	7107.9	7028.7	6983.2
5°	8407.6	8256.5	7841.7	7388.4	6966.4	6510.8	6163.0	5827.3	5647.5	5556.3	5522.8
7.5°	8359.7	8119.9	7472.4	6762.6	6086.3	5405.3	4813.0	4362.1	4072.0	3872.9	3738.6
10°	8263.8	7932.8	7043.1	6067.1	5045.6	4146.3	3395.7	2824.9	2383.6	2244.6	2249.4
12.5°	8165.4	7724.2	6563.5	5294.9	4028.7	2894.5	2098.3	1647.4	1436.4	1366.9	1352.5
15°	8074.3	7525.2	6093.5	4546.8	3000.0	1875.3	1352.5	1194.2	1136.7	1124.7	1122.3
17.5°	8026.3	7340.5	5592.3	3690.6	2093.5	1273.4	1084.0	1040.7	1024.0	1012.0	1007.2
20°	7985.5	7179.8	5112.7	2889.7	1431.6	1043.2	971.2	930.5	901.6	889.7	882.5
22.5°	7956.8	7014.4	4616.2	2237.4	1095.9	925.7	860.9	808.1	767.4	753.0	743.4
25°	7913.6	6832.1	4115.1	1635.5	923.2	822.5	748.2	685.8	633.1	606.7	601.9
27.5°	7851.3	6625.9	3565.9	1211.0	824.9	731.4	640.3	563.6	510.8	482.0	484.4
30°	7750.6	6410.0	3016.8	961.6	745.8	637.9	539.6	465.2	414.9	393.3	390.9
32.5°	7630.6	6148.6	2513.2	824.9	673.9	554.0	450.9	386.1	347.8	330.9	328.5
35°	7518.0	5884.9	2000.0	741.0	599.5	477.2	378.9	323.7	294.9	280.6	283.0
37.5°	7455.6	5649.8	1558.7	673.9	539.6	410.1	326.1	278.2	251.8	239.8	237.4
40°	7496.3	5458.0	1239.8	613.9	472.4	352.5	280.6	239.8	213.4	196.6	196.6
42.5°	7688.3	5374.1	1000.0	556.3	410.1	304.5	244.6	206.2	177.5	160.6	163.1
45°	8273.3	5462.8	837.0	503.6	352.5	263.8	211.0	170.3	143.9	131.9	129.5
47.5°	9244.5	5796.2	724.2	448.4	302.2	225.4	177.5	141.5	115.1	105.5	103.1
50°	10942.4	6484.4	640.3	393.3	256.6	191.8	146.2	112.7	91.2	81.5	81.5
52.5°	13278.1	7985.5	580.4	330.9	215.8	163.1	119.9	91.2	71.9	64.8	62.3
55°	15719.4	9568.3	549.2	278.2	179.9	134.3	96.0	71.9	55.2	47.9	45.6
57.5°	18067.0	10810.5	513.2	225.4	143.9	103.1	74.3	55.2	38.3	33.6	31.2
60°	20318.8	11815.3	436.5	179.9	112.7	74.3	55.2	38.3	26.4	21.6	21.6
62.5°	22333.3	12400.5	343.0	143.9	86.4	52.7	36.0	28.8	19.2	14.4	14.4
65°	22568.2	11640.2	259.0	110.3	62.3	33.6	21.6	21.6	14.4	9.6	9.6
66°	22095.8	10995.1	227.8	100.8	55.2	28.8	19.2	16.8	12.0	7.2	7.2
67.5°	21040.6	9894.4	196.6	86.4	45.6	21.6	14.4	14.4	9.6	4.8	4.8
70°	18179.8	8081.5	155.8	64.8	33.6	16.8	9.6	9.6	7.2	4.8	4.8
72.5°	13856.1	6033.6	127.1	47.9	24.0	12.0	7.2	7.2	7.2	4.8	4.8
75°	8357.3	3249.4	98.3	36.0	21.6	9.6	4.8	7.2	9.6	7.2	4.8
77.5°	3079.2	1105.5	76.7	28.8	16.8	9.6	4.8	4.8	9.6	7.2	7.2
80°	755.4	287.8	55.2	24.0	16.8	9.6	4.8	4.8	9.6	9.6	9.6
82.5°	350.1	122.3	38.3	21.6	16.8	9.6	4.8	4.8	7.2	9.6	9.6
85°	201.4	57.5	31.2	24.0	16.8	9.6	4.8	4.8	7.2	9.6	9.6
87.5°	81.5	28.8	28.8	24.0	19.2	12.0	4.8	4.8	4.8	7.2	7.2
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)