

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: P651088

Luminaire Tested: **GALN-SA8C-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651088
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-SA8C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38225.1 lumens
Efficiency: N/A
Efficacy: 89.1 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

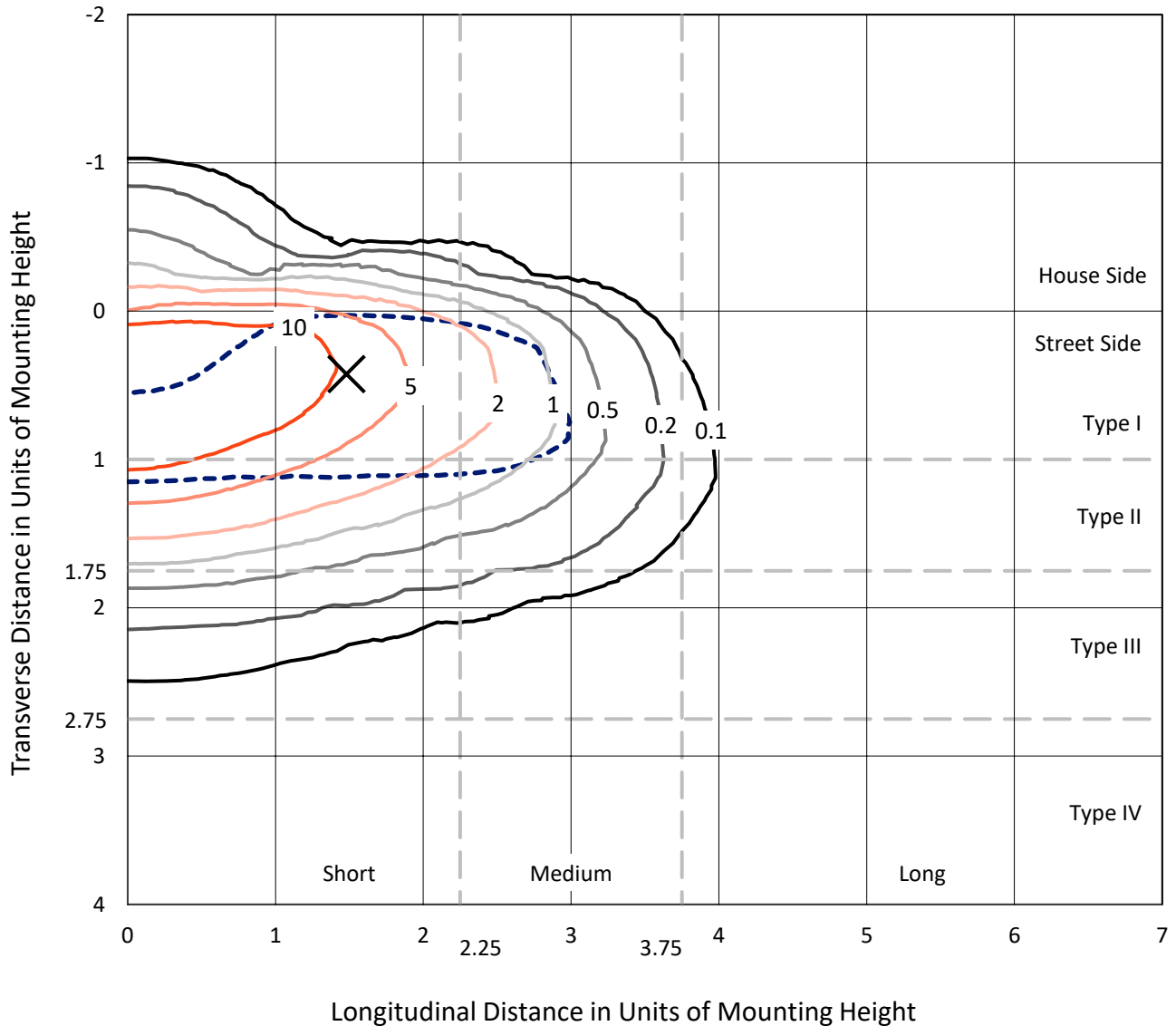
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651088
 CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

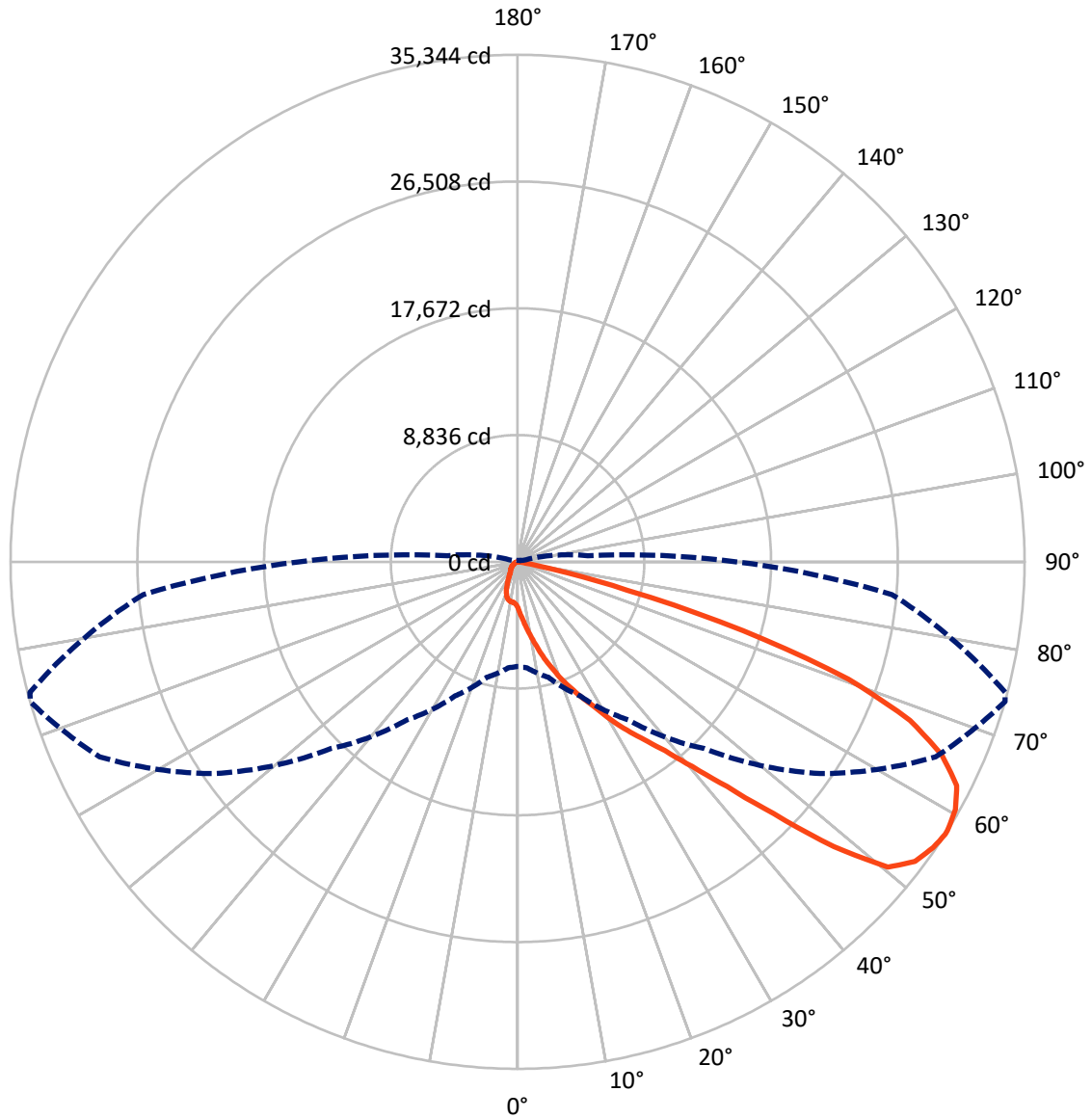
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

REPORT NUMBER: P651088
CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651088
 CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

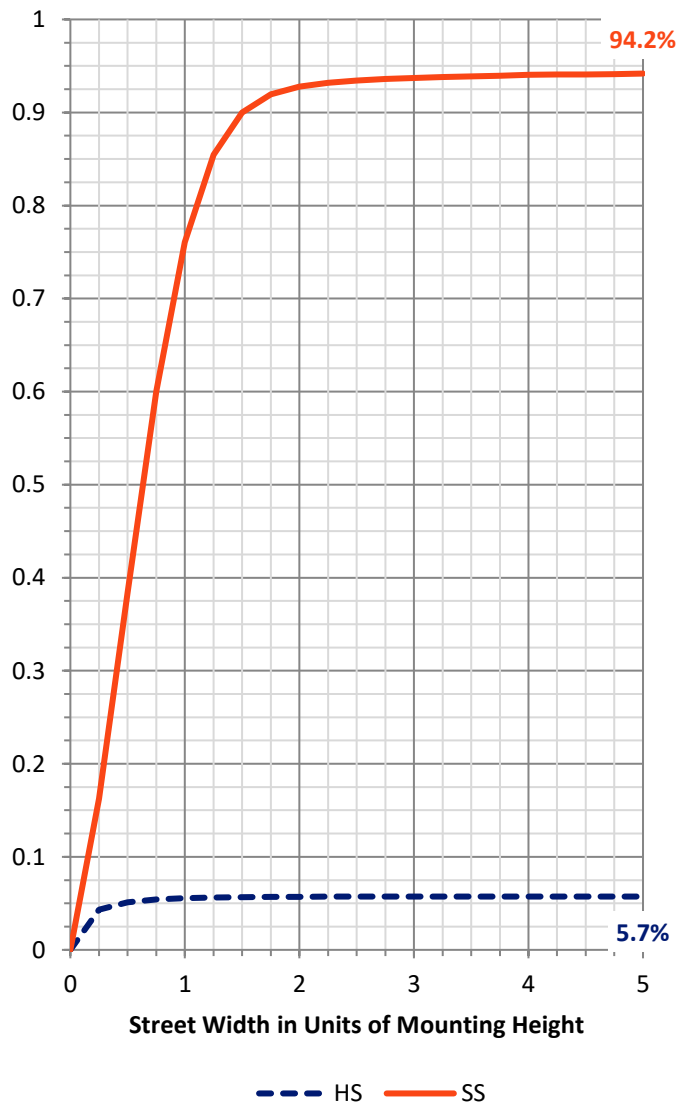
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.7	0.0	2204.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	36020.4	0.0	36020.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	38225.1	0.0	38225.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	1.0
10°-20°	1523.1	4.0
20°-30°	3259.0	8.5
30°-40°	5989.9	15.7
40°-50°	9182.7	24.0
50°-60°	9714.0	25.4
60°-70°	6343.5	16.6
70°-80°	1733.3	4.5
80°-90°	93.3	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°	38225.1	100.0
0°-180°	38225.1	100.0

Coefficient of Utilization

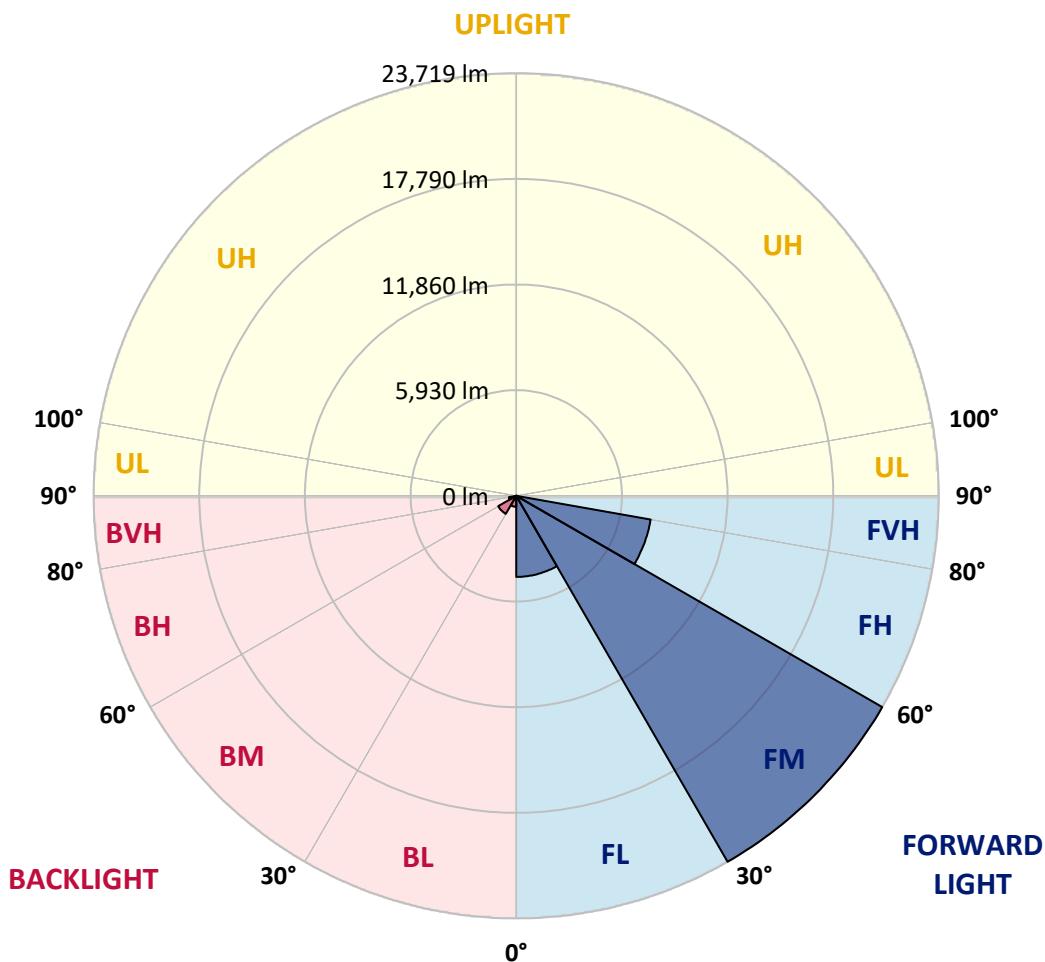


REPORT NUMBER: P651088
 CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4552.6	11.9			
FM (30°-60°)	23719.4	62.1			
FH (60°-80°)	7662.9	20.0			G4/12000
FVH (80°-90°)	85.6	0.2			G1/100
BL (0°-30°)	615.8	1.6	B2/1000		
BM (30°-60°)	1167.2	3.1	B2/2500		
BH (60°-80°)	413.9	1.1	B1/500		G1/500
BVH (80°-90°)	7.7	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





REPORT NUMBER: P651088

CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3
2.5°	4684.5	4642.3	4557.8	4528.8	4404.7	4212.1	4043.2	3816.2	3636.7	3618.3	3401.8
5°	6273.3	6178.3	6138.7	5948.6	5650.4	5370.7	4890.3	4526.2	4106.5	4074.9	3639.4
7.5°	7804.0	7672.0	7632.5	7453.0	7104.6	6663.9	6041.1	5378.6	4713.6	4652.8	3958.8
10°	8912.4	8930.9	8859.7	8740.9	8458.5	8009.9	7241.9	6336.6	5389.2	5312.6	4317.7
12.5°	9706.8	9704.2	9717.4	9714.7	9564.4	9223.8	8416.3	7373.8	6133.4	5983.0	4729.4
15°	10224.1	10232.0	10271.6	10408.9	10424.7	10213.5	9540.6	8366.2	6996.4	6809.1	5175.4
17.5°	10746.6	10802.1	10865.5	10994.7	11110.9	11026.4	10551.4	9400.7	7777.7	7637.7	5653.1
20°	11609.7	11686.2	11649.3	11728.4	11789.1	11797.0	11430.2	10356.1	8725.0	8490.1	6199.4
22.5°	12990.0	12987.3	12892.3	12749.8	12631.1	12625.8	12293.2	11337.9	9585.5	9358.5	6748.4
25°	14734.5	14742.4	14557.6	14151.2	13855.6	13494.0	13111.4	12198.2	10506.5	10226.7	7326.3
27.5°	16735.0	16684.8	16405.1	15845.5	15259.6	14642.1	14090.5	13198.5	11483.0	11250.7	7988.7
30°	18532.2	18513.7	18186.5	17502.9	16732.3	16112.1	15312.4	14452.1	12747.1	12462.1	8730.3
32.5°	20205.4	20231.9	19777.9	19070.6	18326.3	17611.1	16766.6	15650.3	13987.6	13583.7	9537.9
35°	21511.9	21538.2	21068.5	20479.9	19714.6	19120.7	18315.8	16927.6	15212.2	14871.7	10466.9
37.5°	22208.5	22242.9	21971.0	21527.7	21050.0	20751.8	20002.3	18571.8	16700.7	16494.8	11564.8
40°	22340.5	22380.1	22261.4	22142.6	22116.2	22330.0	22110.9	20509.0	18764.5	18442.5	13201.1
42.5°	21944.6	21997.4	22050.2	22314.1	22852.5	23636.3	24399.1	23137.5	21422.1	20989.3	15201.6
45°	20904.8	20899.5	21108.0	21791.6	22997.6	24670.9	26790.1	26428.6	25043.0	24528.4	18028.1
47.5°	19126.0	19099.6	19550.9	20524.8	22403.8	24860.9	28740.5	30424.3	29664.2	29189.2	21065.8
50°	16415.6	16544.9	17254.9	18614.0	20928.5	24285.6	29342.2	33045.0	33456.7	32952.6	23520.2
52.5°	13240.7	13235.4	14349.1	16193.9	18743.4	23018.8	28922.6	33520.0	34689.1	34303.9	24728.9
55°	9799.2	9867.8	11026.4	12887.1	15906.3	20706.8	27552.8	33031.8	35158.9	34887.1	25525.9
57°	7289.4	7410.8	8339.8	10308.6	13436.0	18418.7	25729.2	32158.2	35343.7	35195.8	26188.4
57.5°	6803.8	6809.1	7714.2	9503.6	12712.8	17539.9	25206.6	31794.0	35338.4	35256.6	26296.6
60°	4188.3	4320.3	4945.8	6423.7	9305.7	13689.4	21704.4	29701.2	35063.9	35182.6	26758.5
62.5°	2507.2	2562.6	2969.1	3871.6	5998.9	9991.8	17761.6	27022.4	34348.7	34710.3	26726.8
65°	1612.5	1625.7	1810.5	2343.6	3750.3	6753.7	13686.7	23483.2	32498.7	33163.7	25681.7
67.5°	1245.7	1266.8	1340.7	1538.6	2174.7	4206.9	9680.4	19706.6	29505.8	30363.5	23148.1
70°	1105.8	1116.3	1142.8	1206.1	1438.4	2375.2	6022.6	15394.3	24467.7	24710.5	18115.2
72.5°	902.6	931.7	1013.4	1034.5	1140.1	1483.2	3351.7	10332.4	16439.4	16500.1	10134.4
75°	699.4	704.7	826.0	886.8	960.7	1021.4	1496.4	5209.7	7896.4	7474.1	3905.9
77.5°	522.5	546.3	601.7	678.3	783.8	731.1	670.4	1963.6	2451.8	2406.9	1134.8
80°	335.1	348.3	419.7	509.4	609.6	477.7	377.4	575.3	538.4	554.2	271.8
82.5°	168.9	171.6	269.2	414.4	388.0	240.2	237.5	234.9	200.6	198.0	126.7
85°	18.5	39.6	174.2	237.5	174.2	79.1	110.8	108.2	105.5	108.2	73.9
87.5°	2.6	2.6	29.0	34.3	23.7	26.4	31.7	34.3	42.2	39.6	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651088

CATALOG NUMBER: GALN-SA8C-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3	3201.3
2.5°	3296.3	3190.8	2995.5	2808.1	2668.2	2578.4	2462.4	2420.1	2359.4	2351.5	2322.5
5°	3438.8	3238.3	2897.8	2628.6	2412.2	2248.6	2106.0	1987.3	1892.2	1871.1	1881.7
7.5°	3642.0	3343.8	2868.7	2501.9	2201.1	1921.3	1694.4	1554.5	1454.2	1417.3	1422.5
10°	3871.6	3483.7	2863.5	2367.3	1908.1	1565.0	1316.9	1192.9	1134.8	1113.7	1089.9
12.5°	4143.5	3644.7	2850.3	2158.8	1586.1	1248.3	1071.5	997.6	942.2	926.4	926.4
15°	4449.6	3816.2	2787.0	1900.2	1287.9	1031.9	913.2	855.1	836.6	820.8	820.8
17.5°	4769.0	3985.2	2655.0	1580.8	1068.8	884.1	810.2	775.9	749.5	731.1	731.1
20°	5133.2	4151.4	2443.9	1298.5	902.6	789.1	731.1	691.5	670.4	654.6	649.3
22.5°	5478.9	4286.0	2174.7	1066.2	786.5	710.0	657.2	614.9	593.8	585.9	585.9
25°	5837.8	4367.8	1850.0	881.5	717.9	644.0	585.9	551.6	533.1	527.8	525.2
27.5°	6186.2	4415.3	1565.0	770.6	654.6	583.2	527.8	501.4	483.0	477.7	480.3
30°	6608.5	4423.2	1287.9	691.5	599.1	525.2	475.1	451.3	440.8	435.5	432.9
32.5°	7036.0	4412.6	1082.0	644.0	546.3	475.1	432.9	414.4	406.5	398.5	398.5
35°	7516.4	4357.2	921.1	596.4	496.2	432.9	395.9	380.0	369.5	361.5	358.9
37.5°	8112.8	4328.2	828.7	543.7	451.3	393.3	358.9	343.1	335.1	324.6	322.0
40°	9052.4	4457.6	799.7	496.2	406.5	356.2	324.6	306.1	295.6	285.0	282.4
42.5°	10224.1	4684.5	752.2	448.7	366.8	322.0	290.3	269.2	250.7	237.5	232.3
45°	11741.6	4982.8	678.3	398.5	332.5	285.0	256.0	229.6	205.9	195.3	192.7
47.5°	13333.0	5270.4	612.2	358.9	295.6	253.4	221.7	192.7	171.6	163.7	161.0
50°	14309.5	5328.5	570.0	314.0	258.6	219.1	187.4	161.0	147.8	139.9	139.9
52.5°	14755.6	5236.1	512.0	274.5	224.3	192.7	161.0	139.9	132.0	126.7	124.0
55°	15067.0	5093.6	435.5	237.5	192.7	163.7	142.5	126.7	116.1	110.8	108.2
57°	15249.1	4900.9	377.4	208.5	166.3	142.5	126.7	113.5	102.9	92.3	92.3
57.5°	15257.0	4827.0	361.5	205.9	158.4	137.3	124.0	110.8	97.6	87.1	84.4
60°	15022.1	4320.3	290.3	174.2	126.7	116.1	102.9	87.1	68.6	58.0	55.4
62.5°	14267.3	3676.3	240.2	147.8	102.9	89.7	73.9	66.0	47.5	34.3	34.3
65°	13124.6	2982.3	205.9	118.7	84.4	66.0	50.1	47.5	29.0	15.8	13.2
67.5°	11472.4	2322.5	174.2	97.6	71.2	47.5	34.3	31.7	15.8	5.3	0.0
70°	8740.9	1583.5	145.2	79.1	52.8	34.3	23.7	18.5	10.6	2.6	0.0
72.5°	5038.2	870.9	121.4	60.7	39.6	26.4	18.5	10.6	10.6	0.0	0.0
75°	1799.9	374.7	92.3	44.8	31.7	21.1	13.2	5.3	7.9	2.6	0.0
77.5°	572.7	200.6	60.7	34.3	26.4	15.8	10.6	5.3	5.3	2.6	0.0
80°	168.9	105.5	36.9	29.0	18.5	13.2	7.9	2.6	5.3	2.6	0.0
82.5°	92.3	52.8	29.0	21.1	18.5	10.6	7.9	2.6	2.6	2.6	0.0
85°	47.5	31.7	23.7	21.1	18.5	10.6	7.9	2.6	0.0	2.6	2.6
87.5°	26.4	23.7	23.7	21.1	18.5	13.2	7.9	2.6	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)