

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: P652552

Luminaire Tested: **GALN-SA8B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38572.5 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

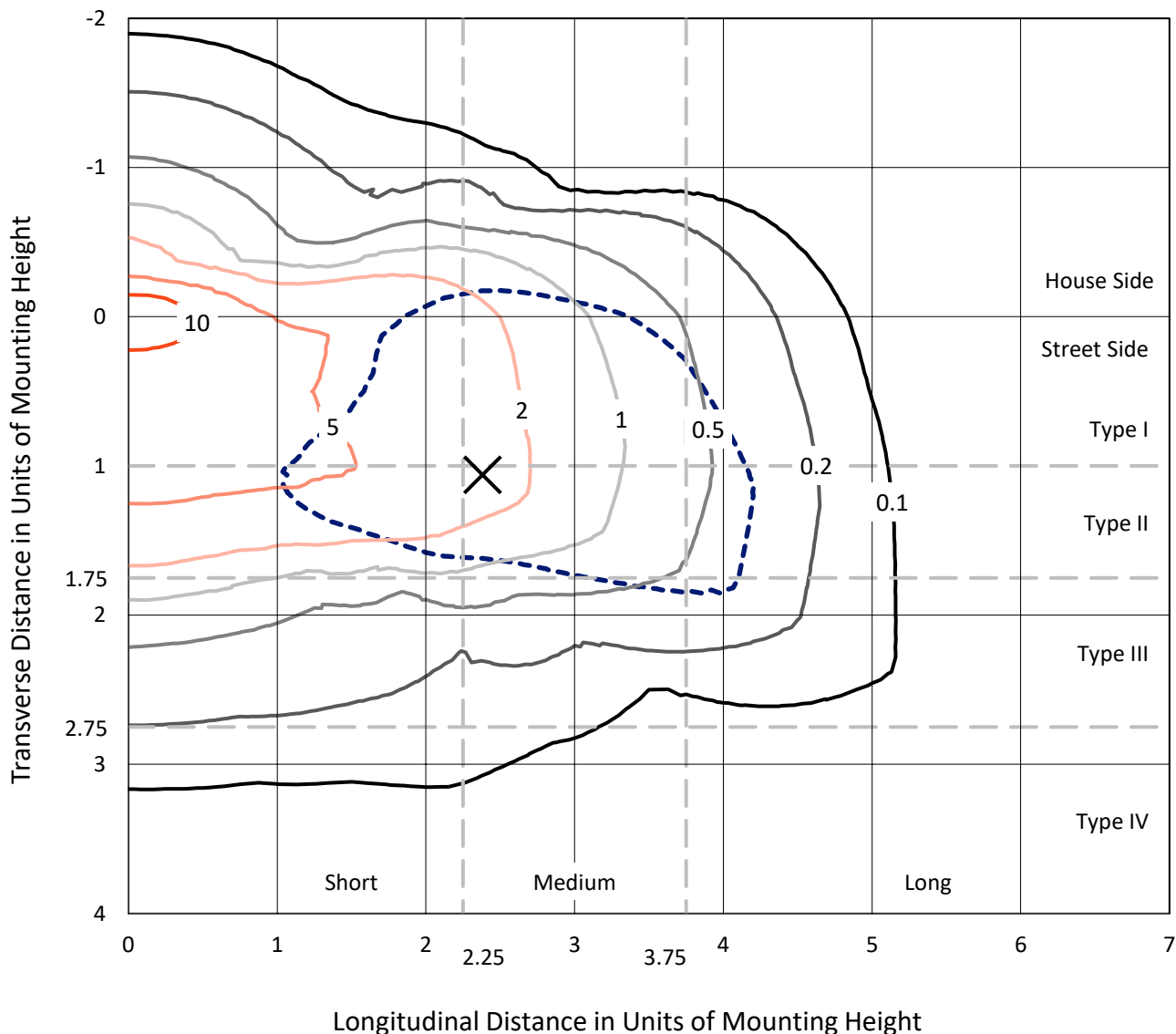
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8B-840-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

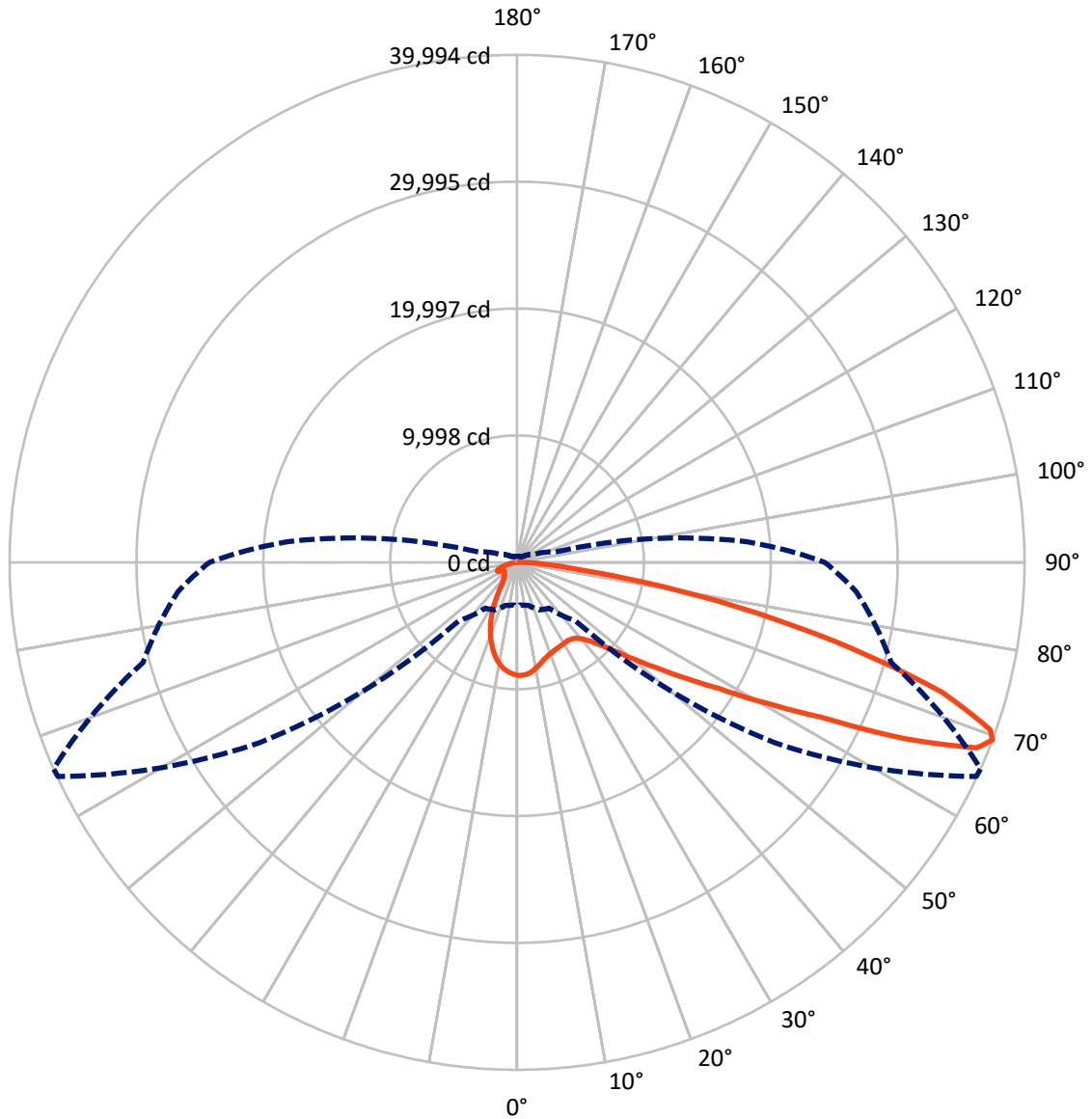
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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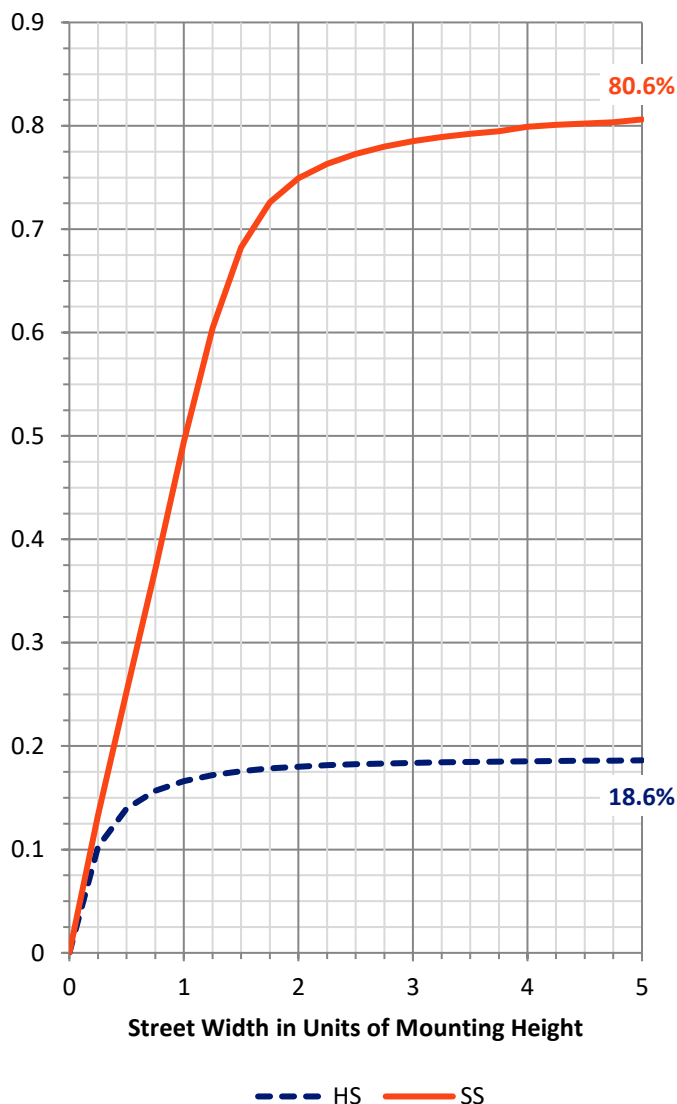
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7254.0	0.0	7254.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31318.4	0.0	31318.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	38572.5	0.0	38572.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.5	2.0
10°-20°	1834.7	4.8
20°-30°	2497.7	6.5
30°-40°	3356.4	8.7
40°-50°	5011.7	13.0
50°-60°	7971.9	20.7
60°-70°	9805.0	25.4
70°-80°	6379.6	16.5
80°-90°	942.1	2.4
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°	38572.5	100.0
0°-180°	38572.5	100.0

Coefficient of Utilization

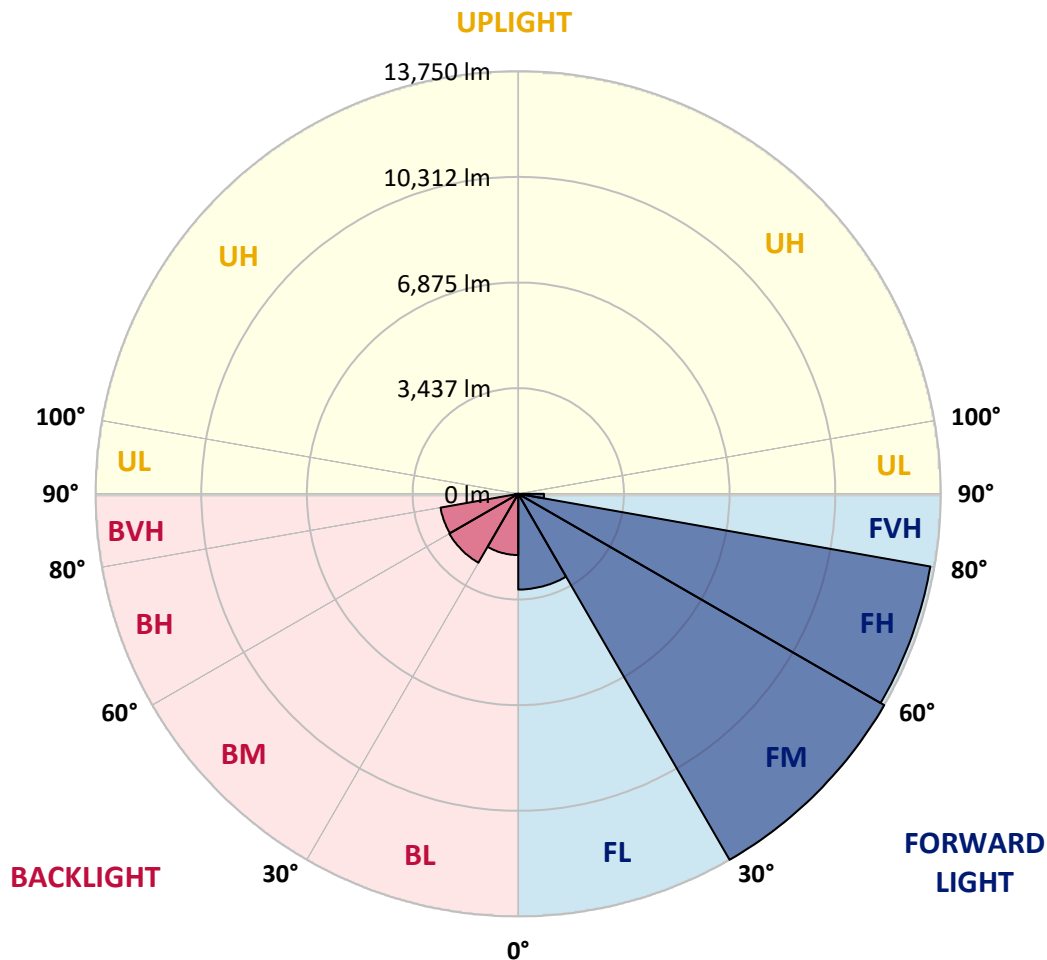


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3114.7	8.1			
FM (30°-60°)	13749.9	35.6			
FH (60°-80°)	13616.3	35.3			G5
FVH (80°-90°)	837.6	2.2			G5
BL (0°-30°)	1991.3	5.2	B3/2500		
BM (30°-60°)	2590.0	6.7	B3/5000		
BH (60°-80°)	2568.2	6.7	B4/5000		G4/5000
BVH (80°-90°)	104.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5
2.5°	8595.6	8629.8	8668.2	8710.9	8792.1	8837.0	8869.0	8905.3	8909.6	8928.8	8913.8
5°	7961.2	8001.8	8059.5	8140.6	8262.3	8452.5	8649.0	8809.2	8828.4	8918.1	8943.8
7.5°	7431.4	7455.0	7501.9	7632.2	7805.2	8016.7	8302.9	8627.7	8674.7	8888.2	8963.0
10°	6999.9	7023.4	7078.9	7213.5	7384.4	7649.3	7963.3	8390.5	8429.0	8796.4	8967.2
12.5°	6677.4	6698.7	6758.5	6891.0	7087.5	7335.3	7681.4	8134.2	8189.7	8674.7	8926.7
15°	6431.7	6472.3	6521.5	6630.4	6837.6	7076.8	7412.2	7899.3	7944.1	8546.5	8898.9
17.5°	6327.1	6346.3	6380.5	6480.8	6632.5	6867.5	7205.0	7715.5	7768.9	8456.8	8892.5
20°	6331.3	6350.6	6357.0	6412.5	6521.5	6724.4	7057.6	7570.3	7634.3	8377.7	8903.2
22.5°	6476.6	6478.7	6455.3	6436.0	6478.7	6647.5	6953.0	7461.4	7536.1	8343.6	8911.7
25°	6700.9	6739.4	6705.1	6615.5	6536.4	6617.6	6912.3	7401.6	7472.0	8294.4	8901.1
27.5°	7064.0	7070.5	7042.6	6920.9	6715.8	6656.0	6895.3	7356.6	7416.4	8258.1	8847.7
30°	7551.0	7531.8	7506.2	7371.6	7049.1	6803.4	6931.6	7316.1	7378.0	8204.7	8783.6
32.5°	8044.5	8104.3	8080.8	7922.7	7504.1	7089.6	7049.1	7311.8	7363.0	8164.1	8713.1
35°	8567.9	8595.6	8706.6	8625.5	8196.1	7553.2	7269.1	7378.0	7418.6	8166.2	8664.0
37.5°	8977.9	9052.7	9313.3	9383.8	8980.1	8166.2	7625.8	7566.0	7583.0	8270.9	8683.2
40°	9473.5	9601.7	9937.0	10225.4	9960.6	8963.0	8232.5	7914.1	7935.5	8522.9	8809.2
42.5°	10101.5	10191.2	10641.9	11032.8	10990.1	10016.1	8967.2	8484.5	8495.2	9024.9	9161.7
45°	10836.4	10964.5	11470.7	12058.2	12158.6	11208.0	10028.9	9347.5	9341.1	9804.6	9819.6
47.5°	11776.2	11855.2	12357.2	12998.1	13403.9	12705.4	11316.9	10586.4	10518.1	10941.0	10819.2
50°	12641.3	12765.2	13145.4	13846.1	14856.4	14459.1	13010.9	12192.7	12032.5	12427.7	12222.7
52.5°	13004.5	13134.7	13455.2	14324.6	16101.8	16727.7	15161.9	14108.8	13841.8	14145.1	14070.4
55°	12374.3	12543.1	12842.2	13899.5	16648.6	19344.3	18062.7	16323.9	16129.5	15999.3	16020.6
57.5°	10680.4	10840.6	11244.3	12410.6	15995.0	21243.3	22204.6	19171.4	18754.8	18154.6	18257.1
60°	8129.9	8230.3	8439.7	9732.0	14057.6	21736.7	26908.2	22770.6	22505.7	20301.3	20373.9
62.5°	5773.8	5887.0	6032.3	6677.4	10291.7	20346.1	30590.8	27796.8	26850.5	22524.9	22454.4
65°	4688.7	4611.8	4787.0	5088.1	6038.7	15768.6	31419.6	34773.2	33470.2	25453.5	24475.2
67.5°	3855.6	3774.5	3947.5	4483.6	4592.5	9153.1	28433.4	39301.7	39041.2	28638.4	26528.0
69°	3413.5	3370.7	3522.4	4133.3	4408.9	6500.1	24770.0	39931.9	39993.8	30516.0	26844.1
70°	3076.0	3093.0	3240.5	3956.0	4325.6	5359.4	21170.7	39062.5	39588.0	31453.8	26502.3
72.5°	2264.2	2300.6	2505.6	3276.8	4246.5	4547.7	12598.6	34119.6	35048.8	31509.3	24244.5
75°	1582.8	1565.8	1747.3	2467.2	4011.6	4507.1	7399.4	26387.0	27440.1	27235.0	20371.8
77.5°	1036.0	1063.8	1209.0	1743.1	3375.0	4472.9	4823.3	18720.6	19404.1	18214.4	12049.6
80°	730.6	728.4	809.5	1189.8	2503.5	4297.8	3949.6	11799.7	11626.7	7158.0	3573.7
82.5°	418.6	448.6	542.5	837.4	1674.7	3783.0	3633.5	5643.5	5152.2	2039.9	1206.9
85°	232.9	243.6	322.5	506.3	978.3	2849.6	3172.1	2567.6	2422.3	852.3	519.1
87.5°	74.8	81.2	134.6	256.3	444.3	1345.8	1796.5	1185.6	1093.6	307.6	209.3
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°	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5
2.5°	8920.2	8945.9	8877.5	8811.3	8751.5	8668.2	8593.4	8531.5	8488.8	8482.4	8461.0
5°	8950.2	8952.3	8822.0	8646.8	8475.9	8288.0	8093.6	7954.8	7824.5	7751.8	7715.5
7.5°	8971.5	8952.3	8717.3	8433.2	8104.3	7762.5	7420.7	7147.3	6935.8	6852.6	6884.6
10°	8963.0	8903.2	8559.3	8104.3	7625.8	7115.3	6624.0	6239.5	5887.0	5705.4	5709.7
12.5°	8916.0	8817.7	8324.3	7734.8	7031.9	6348.5	5596.5	5077.5	4669.5	4428.1	4353.4
15°	8875.4	8704.5	8048.8	7232.8	6359.1	5382.9	4466.6	3825.7	3483.9	3293.9	3291.7
17.5°	8832.7	8595.6	7747.5	6700.9	5585.8	4329.8	3368.6	2879.4	2719.2	2738.5	2706.4
20°	8787.9	8467.4	7433.6	6109.2	4643.8	3229.8	2522.7	2324.0	2368.9	2456.5	2469.3
22.5°	8736.6	8330.7	7096.0	5457.7	3652.7	2430.8	2046.4	2016.5	2131.8	2268.5	2287.8
25°	8657.5	8159.8	6671.0	4776.3	2817.5	1958.8	1792.2	1813.5	1926.7	2042.1	2054.9
27.5°	8546.5	7948.4	6241.6	3926.1	2116.9	1681.1	1638.4	1666.1	1721.7	1792.2	1809.2
30°	8397.0	7709.1	5748.2	3191.3	1696.0	1542.2	1525.2	1540.1	1572.2	1602.0	1610.6
32.5°	8247.4	7478.4	5250.4	2443.7	1512.4	1450.4	1433.3	1433.3	1433.3	1437.6	1439.7
35°	8108.6	7260.5	4716.5	1903.3	1416.2	1377.8	1354.3	1328.6	1324.4	1309.4	1309.4
37.5°	8031.6	7061.9	4148.2	1593.5	1345.8	1317.9	1285.9	1243.2	1219.7	1221.8	1217.6
40°	8046.6	6931.6	3631.4	1418.3	1288.1	1258.1	1209.0	1159.9	1144.9	1144.9	1140.6
42.5°	8215.4	6888.9	3135.8	1326.5	1232.5	1198.3	1136.4	1091.5	1083.0	1080.9	1085.1
45°	8604.1	6993.5	2691.5	1266.7	1185.6	1134.3	1072.3	1031.7	1023.2	1023.2	1021.1
47.5°	9362.4	7333.2	2373.2	1228.3	1151.3	1085.1	1021.1	980.4	965.5	961.3	961.3
50°	10541.5	8070.2	2136.1	1194.1	1108.6	1040.2	974.0	927.0	903.6	901.4	899.3
52.5°	12180.0	9219.3	2044.2	1168.4	1061.6	993.3	920.6	875.8	845.9	839.5	835.2
55°	14096.0	10823.5	2170.3	1149.2	1012.5	939.9	865.1	818.1	790.4	777.5	775.4
57.5°	16315.4	12750.2	2648.7	1123.6	967.7	882.2	809.5	762.6	732.7	717.7	713.4
60°	18308.3	14730.4	3483.9	1108.6	929.2	820.2	745.5	702.7	675.0	660.0	657.9
62.5°	20497.9	16618.7	4481.5	1149.2	912.1	760.4	685.7	647.2	623.8	608.8	608.8
65°	22836.9	18509.1	5141.5	1285.9	937.7	713.4	621.6	589.5	568.2	557.5	555.4
67.5°	24413.2	19162.8	4235.9	1426.9	1001.8	662.2	559.7	534.0	521.2	510.5	510.5
69°	24242.4	18336.1	3125.1	1463.3	1021.1	636.6	525.5	506.3	489.1	484.9	480.6
70°	23701.9	17394.1	2618.9	1439.7	1006.1	613.1	504.1	480.6	465.7	461.4	459.3
72.5°	21110.9	15085.0	1950.3	1251.7	856.6	531.8	446.4	425.0	412.3	405.9	405.9
75°	17539.4	12329.5	1523.1	995.4	670.7	448.6	382.3	365.2	354.6	350.3	348.2
77.5°	9830.3	6884.6	1093.6	779.7	508.4	363.1	320.4	305.5	294.8	290.5	290.5
80°	2738.5	1967.4	642.9	514.8	346.1	275.6	254.2	243.6	228.6	217.9	224.3
82.5°	1031.7	852.3	367.4	309.7	220.0	183.7	177.3	168.8	162.3	147.4	147.4
85°	502.0	414.4	235.0	164.5	121.8	96.1	91.8	87.5	83.3	72.7	74.8
87.5°	173.0	183.7	102.5	59.8	36.3	23.5	19.3	10.7	10.7	10.7	10.7
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)