

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: P652580

Luminaire Tested: **GALN-SA8B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33732.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

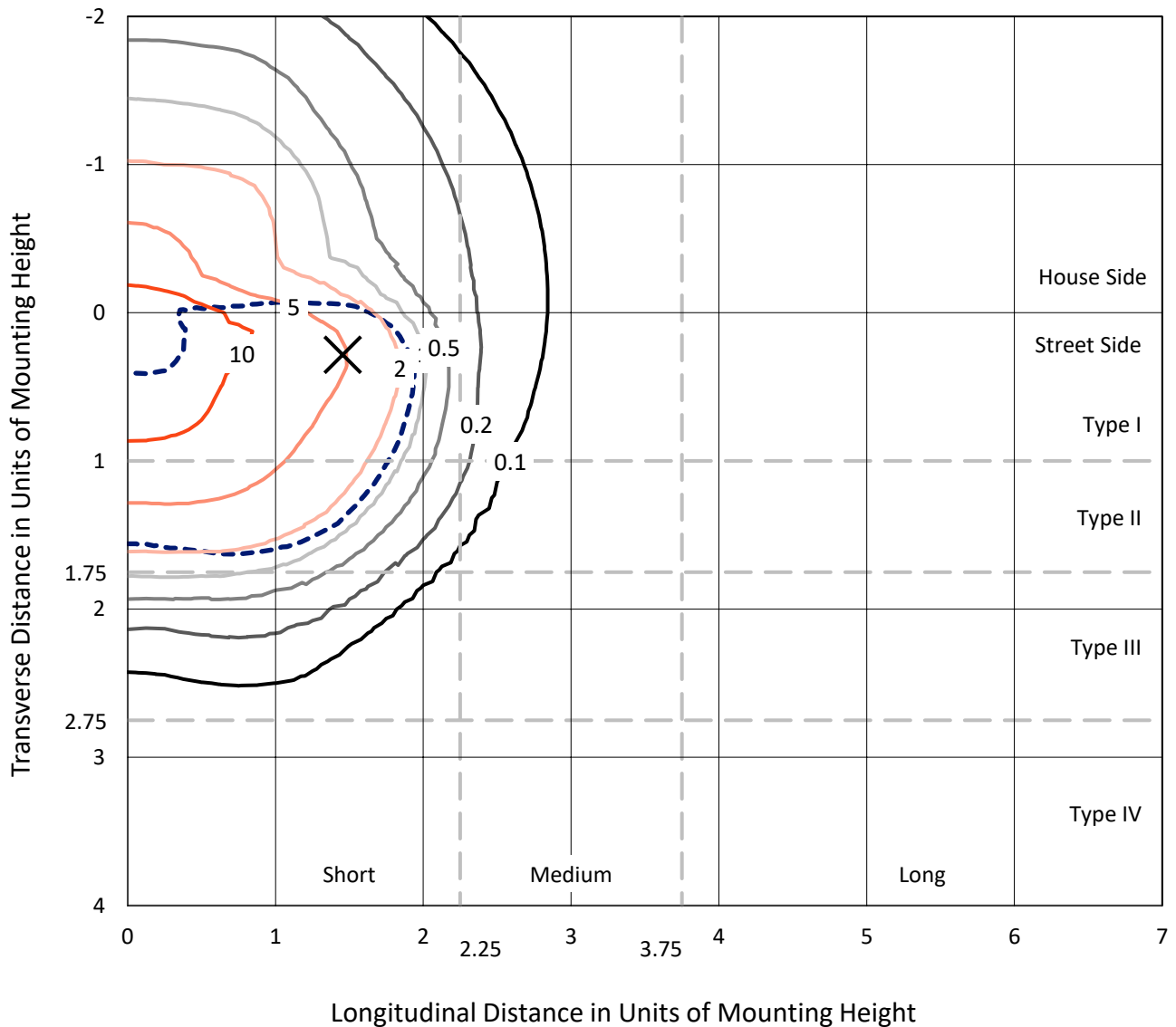
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652580
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

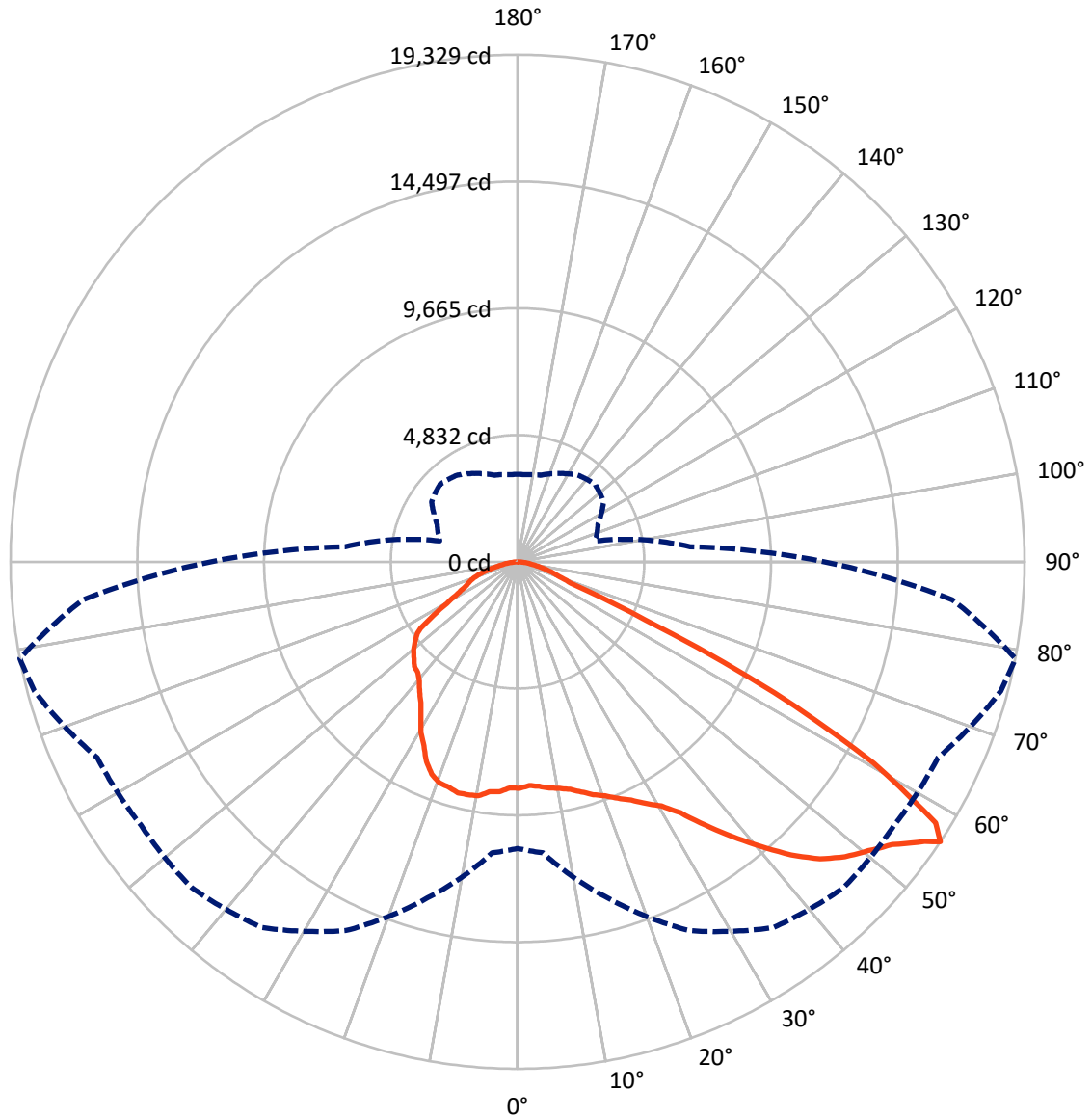
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P652580
CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652580
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

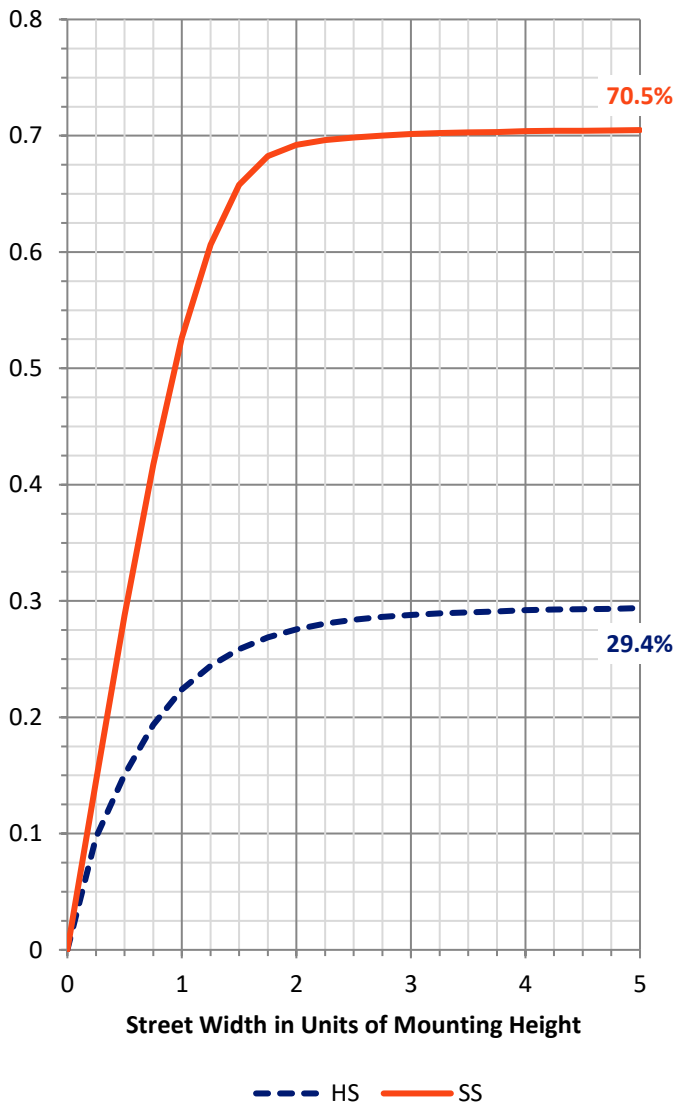
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9961.9	0.0	9961.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23770.6	0.0	23770.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	33732.5	0.0	33732.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.7	2.3
10°-20°	2147.5	6.4
20°-30°	3674.0	10.9
30°-40°	5630.9	16.7
40°-50°	7610.1	22.6
50°-60°	8740.4	25.9
60°-70°	3984.1	11.8
70°-80°	982.3	2.9
80°-90°	178.5	0.5
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°	33732.5	100.0
0°-180°	33732.5	100.0

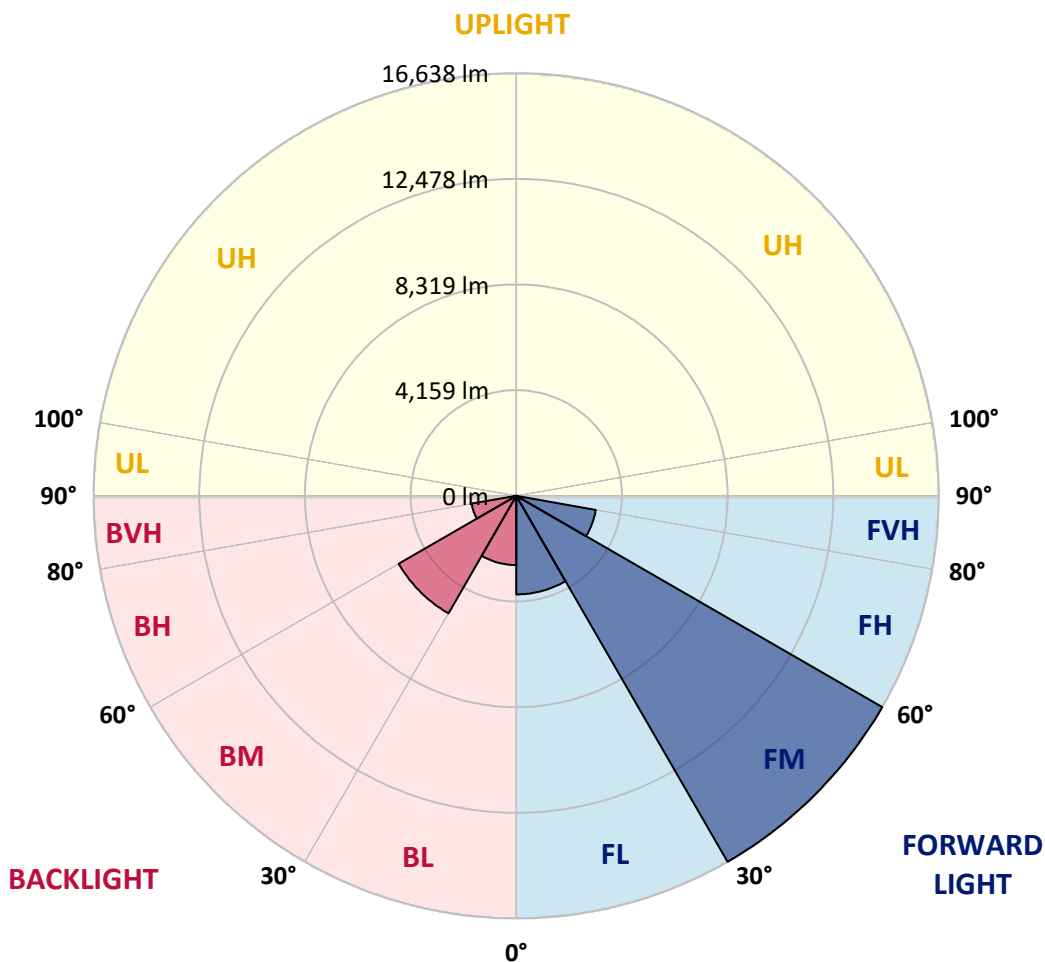


REPORT NUMBER: P652580
 CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3881.2	11.5			
FM (30°-60°)	16637.9	49.3			
FH (60°-80°)	3180.2	9.4			G2/5000
FVH (80°-90°)	71.3	0.2			G1/100
BL (0°-30°)	2725.0	8.1	B4/5000		
BM (30°-60°)	5343.5	15.8	B4/8500		
BH (60°-80°)	1786.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.2	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-G3
 Type II Short





REPORT NUMBER: P652580

CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	8210.6	8189.6	8240.0	8277.9	8324.0	8382.9	8412.3	8429.1	8576.2	8538.3	8651.8
5°	8034.2	7979.5	8017.3	8046.8	8126.6	8198.0	8277.9	8403.9	8538.3	8597.2	8735.9
7.5°	7878.7	7849.2	7840.8	7861.8	7971.1	8063.5	8202.2	8387.1	8605.6	8702.2	8782.1
10°	7622.3	7580.4	7643.3	7782.0	7811.5	8004.7	8164.4	8429.1	8618.2	8786.3	9021.6
12.5°	7508.9	7466.9	7479.5	7559.3	7765.2	7950.1	8139.2	8437.5	8836.7	8903.9	9219.1
15°	7689.6	7647.5	7660.2	7639.1	7836.6	7933.3	8231.6	8605.6	8988.0	9101.5	9437.6
17.5°	8101.4	8105.6	8051.0	8004.7	7958.5	8164.4	8370.3	8706.5	9046.8	9332.6	9584.6
20°	8887.1	8748.5	8639.3	8378.7	8307.2	8395.5	8656.0	8979.6	9286.3	9521.6	9807.3
22.5°	9492.2	9504.8	9349.3	8920.7	8765.2	8803.1	9025.8	9290.5	9626.7	9794.8	10122.5
25°	10370.5	10282.2	10114.1	9773.8	9425.0	9454.4	9618.3	9857.8	9950.2	10067.9	10425.0
27.5°	11173.0	11198.2	10866.2	10546.9	10114.1	10030.1	10324.2	10366.3	10210.7	10433.4	10555.3
30°	11988.2	11967.2	11748.7	11374.7	10950.3	10967.1	11097.3	10891.5	10677.2	10799.0	10883.0
32.5°	12832.7	12593.2	12584.9	12248.7	11925.1	11769.7	11610.0	11710.8	11378.9	11404.1	11324.2
35°	13509.3	13542.9	13349.6	13110.1	12950.4	12677.3	12240.3	12421.0	12357.9	12328.6	11984.0
37.5°	14000.9	13870.6	13967.3	13887.4	13736.2	13395.9	12942.0	13114.3	13143.7	13286.5	12887.4
40°	14404.3	14349.6	14606.0	14648.0	14543.0	13807.6	12992.4	13505.1	13946.3	14257.2	13782.4
42.5°	14597.6	14715.2	14984.2	15307.7	15072.4	14286.7	13253.0	13803.4	14786.7	15278.3	14631.2
45°	14858.1	14706.8	15106.0	15698.5	15702.7	14690.0	13505.1	14206.8	15442.2	16156.5	15211.1
47.5°	14593.4	14669.1	15080.8	15833.0	16026.3	15114.5	14185.8	14778.3	16164.9	16799.4	15748.9
50°	14000.9	14152.2	14904.4	15685.9	16270.0	15564.1	14967.4	15395.9	16833.0	17316.3	15837.1
52.5°	13383.3	13467.3	14643.8	15799.4	16379.2	16143.9	16013.6	16249.0	17648.2	17900.3	15946.5
55°	11702.4	12101.7	13782.4	15748.9	16912.8	17190.2	17089.4	17433.9	18572.6	18824.8	16543.1
56°	10925.1	11135.2	13265.6	15513.6	17017.9	17572.6	17522.2	17677.7	19064.3	19329.0	16635.6
57.5°	9488.0	9504.8	11311.6	14471.5	16623.0	17686.1	17635.6	17757.5	18967.7	18786.9	15824.6
60°	5937.4	6197.9	7698.0	11131.0	14135.4	16408.7	16694.4	15715.3	15992.6	15610.2	12311.7
62.5°	3075.8	3038.0	4033.9	6508.8	9383.0	11748.7	12013.3	11967.2	11538.6	10979.7	8042.6
65°	1533.7	1542.1	2109.4	3222.9	4807.1	6151.7	6891.2	6971.0	5832.3	5365.9	3815.4
67.5°	1113.5	1155.5	1516.9	1970.7	2264.8	2533.8	3105.2	3046.4	2306.9	2193.4	2033.7
70°	865.6	903.4	1231.1	1504.3	1365.6	1365.6	1487.5	1537.9	1643.0	1689.1	1743.8
72.5°	630.3	659.7	941.2	1037.9	895.0	962.3	1113.5	1231.1	1340.4	1357.2	1420.3
75°	432.8	458.0	617.7	571.5	537.8	663.9	815.2	924.4	1004.2	1046.3	1084.1
77.5°	281.6	290.0	353.0	298.3	344.6	428.6	529.4	621.9	701.7	735.4	743.8
80°	126.1	138.7	151.3	189.1	239.5	306.7	378.2	453.8	504.3	516.9	542.0
82.5°	71.4	71.4	92.4	134.5	176.4	222.7	273.2	327.7	386.6	399.2	395.0
85°	37.8	37.8	54.7	79.8	109.2	130.3	126.1	130.3	138.7	159.7	155.5
87.5°	12.6	12.6	16.8	16.8	21.0	25.2	21.0	29.4	37.8	37.8	37.8
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: P652580

CATALOG NUMBER: GALN-SA8B-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8	8630.8
2.5°	8618.2	8656.0	8605.6	8714.9	8714.9	8693.8	8588.8	8622.4	8647.6	8647.6	8668.6
5°	8782.1	8769.4	8803.1	8672.8	8593.0	8563.6	8391.3	8307.2	8235.8	8231.6	8168.6
7.5°	8874.6	8840.9	8828.3	8731.7	8378.7	8164.4	7794.6	7580.4	7534.1	7370.2	7433.3
10°	9021.6	9084.7	9021.6	8496.4	8004.7	7513.1	7151.7	6819.8	6689.5	6584.4	6521.5
12.5°	9324.2	9294.7	8929.1	8219.0	7529.9	6945.8	6408.0	6059.2	5929.0	5836.5	5828.1
15°	9580.4	9433.4	8874.6	7782.0	6790.3	6168.5	5727.3	5479.4	5420.5	5428.9	5466.8
17.5°	9668.7	9567.9	8588.8	7328.2	6239.9	5508.8	5302.8	5265.1	5319.7	5382.7	5399.5
20°	9807.3	9647.7	8471.1	6710.5	5559.2	5097.0	5084.3	5218.8	5319.7	5412.1	5424.7
22.5°	10097.3	9693.9	8088.7	6126.4	5092.8	4975.1	5097.0	5210.4	5365.9	5441.5	5374.3
25°	10181.3	9593.0	7550.9	5424.7	4798.7	4899.5	5029.8	5185.2	5294.4	5336.5	5365.9
27.5°	10252.8	9437.6	6824.0	4958.3	4706.2	4895.3	5029.8	5160.0	5218.8	5256.7	5290.2
30°	10454.5	9391.4	6193.7	4647.4	4647.4	4811.3	4983.5	5017.2	5097.0	5143.2	5202.0
32.5°	10555.3	9072.0	5546.6	4449.9	4588.5	4853.2	4865.9	4928.9	4933.1	4970.9	4907.9
35°	10820.1	8845.1	4945.7	4307.0	4613.7	4811.3	4874.3	4836.4	4630.5	4529.7	4550.7
37.5°	11013.3	8731.7	4512.9	4290.2	4617.9	4857.4	4891.1	4605.3	4391.0	4223.0	4265.0
40°	11534.4	8450.1	4185.2	4260.8	4655.8	4907.9	4815.4	4504.5	4118.0	3945.6	3916.2
42.5°	11933.5	8248.4	3979.3	4227.2	4685.2	4979.3	4777.6	4302.8	3907.8	3748.2	3790.1
45°	12395.8	8202.2	3870.0	4235.5	4735.6	5017.2	4731.4	4147.3	3727.1	3664.1	3651.5
47.5°	12559.7	7870.2	3752.4	4164.1	4723.0	5004.5	4576.0	4029.7	3659.9	3668.3	3701.9
50°	12286.5	7529.9	3664.1	4017.0	4639.0	4891.1	4332.2	3874.2	3622.1	3727.1	3785.9
52.5°	11937.7	7181.1	3483.4	3819.6	4466.6	4714.6	4218.8	3865.8	3584.3	3550.6	3563.2
55°	12042.8	6895.4	3231.3	3550.6	4189.4	4386.8	4092.7	3785.9	3491.8	3365.8	3407.8
56°	11702.4	6601.3	3067.5	3382.6	4000.3	4176.7	4029.7	3714.5	3416.2	3332.1	3332.1
57.5°	10740.2	5613.8	2853.1	3113.6	3601.1	3811.2	3907.8	3672.5	3332.1	3185.1	3189.3
60°	7920.7	3991.9	2559.0	2743.8	2983.4	3151.5	3601.1	3554.8	3122.0	3021.2	2983.4
62.5°	4882.7	2916.2	2348.9	2420.3	2542.2	2680.9	3143.1	3218.7	2899.3	2790.1	2764.9
65°	2735.4	2231.3	2189.2	2218.6	2277.4	2348.9	2609.5	2777.5	2559.0	2390.9	2382.5
67.5°	2000.2	1995.9	2029.6	2054.7	2080.0	2080.0	2143.0	2210.2	2180.8	2046.3	2033.7
70°	1777.5	1790.1	1815.2	1819.4	1827.8	1798.4	1748.0	1727.0	1760.6	1676.6	1659.8
72.5°	1466.5	1508.5	1537.9	1542.1	1495.9	1458.0	1390.8	1319.4	1294.2	1277.4	1273.2
75°	1126.1	1155.5	1168.1	1163.9	1147.1	1092.5	1012.6	941.2	895.0	844.6	869.8
77.5°	760.5	802.6	823.6	823.6	798.4	714.3	676.5	621.9	575.7	521.1	529.4
80°	533.6	563.0	596.7	592.5	550.4	508.5	453.8	403.4	365.6	323.5	319.3
82.5°	399.2	416.0	432.8	424.4	395.0	353.0	315.1	269.0	226.9	197.5	197.5
85°	142.9	155.5	189.1	197.5	214.3	214.3	180.6	151.3	121.9	100.8	100.8
87.5°	42.0	42.0	46.3	46.3	42.0	46.3	37.8	42.0	46.3	29.4	29.4
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)