

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: P651592

Luminaire Tested: **GALN-SA8D-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53760.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

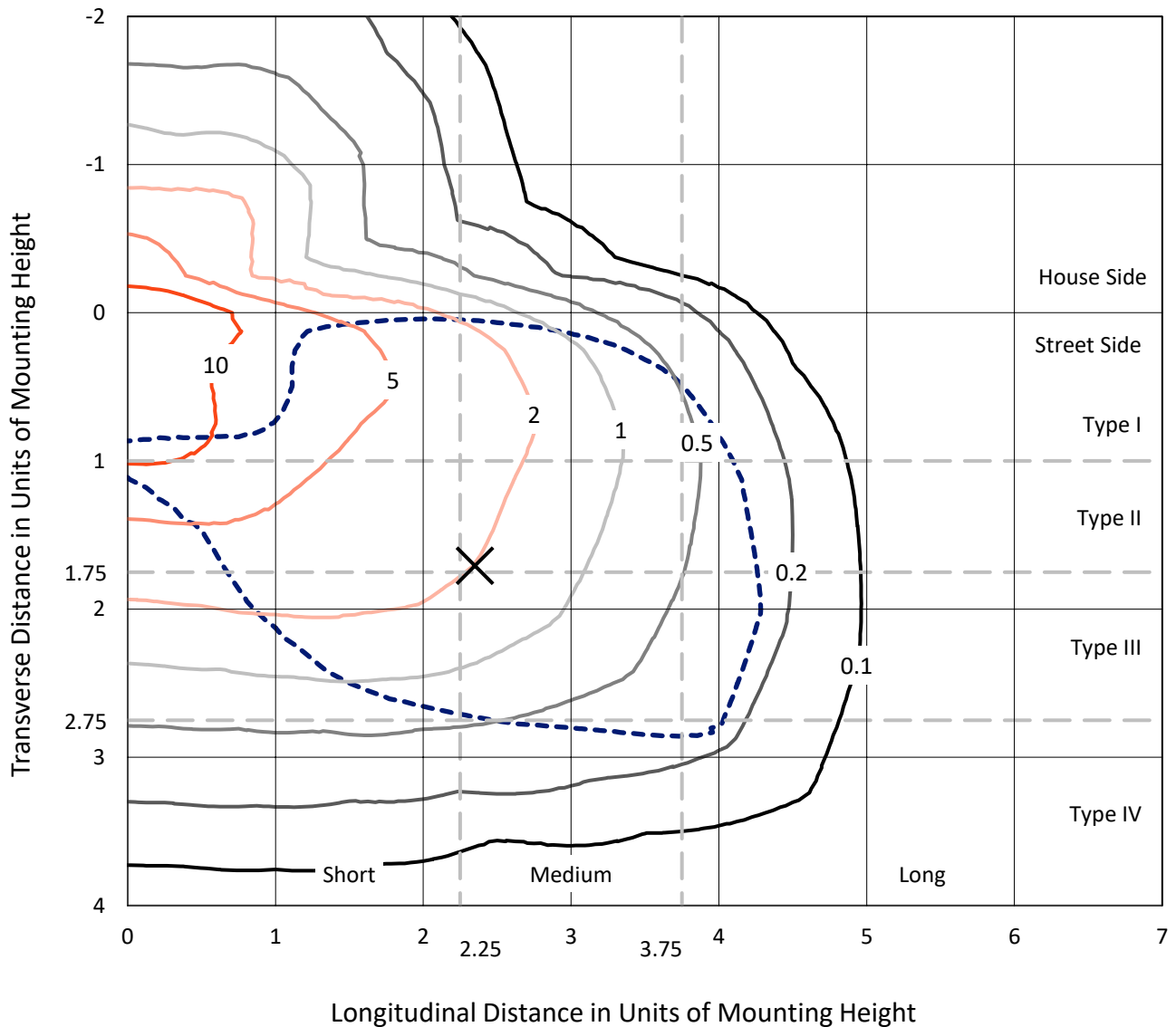
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651592
 CATALOG NUMBER: GALN-SA8D-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

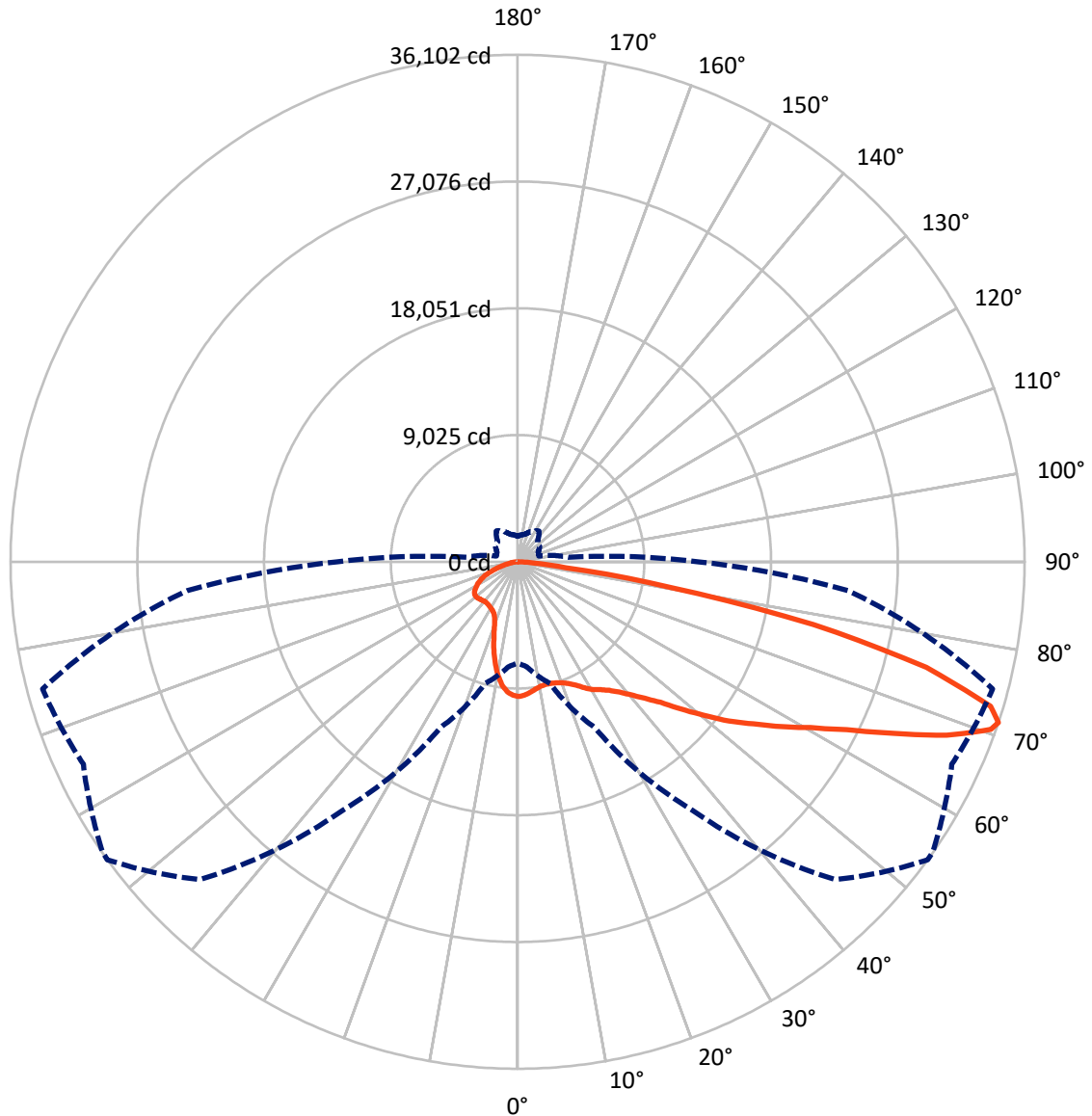
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P651592
CATALOG NUMBER: GALN-SA8D-840-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P651592
 CATALOG NUMBER: GALN-SA8D-840-U-T3R

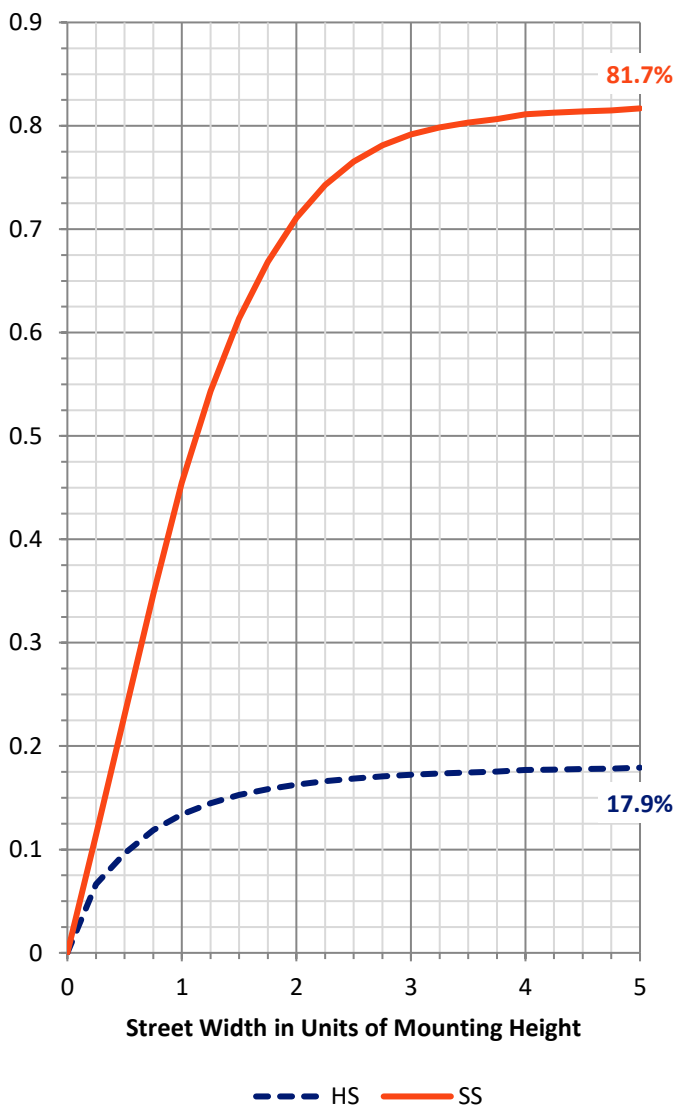
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9706.2	0.0	9706.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44054.7	0.0	44054.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	53760.9	0.0	53760.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.8	1.6
10°-20°	2257.0	4.2
20°-30°	3758.0	7.0
30°-40°	5556.9	10.3
40°-50°	7827.1	14.6
50°-60°	10480.8	19.5
60°-70°	13210.3	24.6
70°-80°	9022.6	16.8
80°-90°	793.5	1.5
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°	53760.9	100.0
0°-180°	53760.9	100.0

Coefficient of Utilization

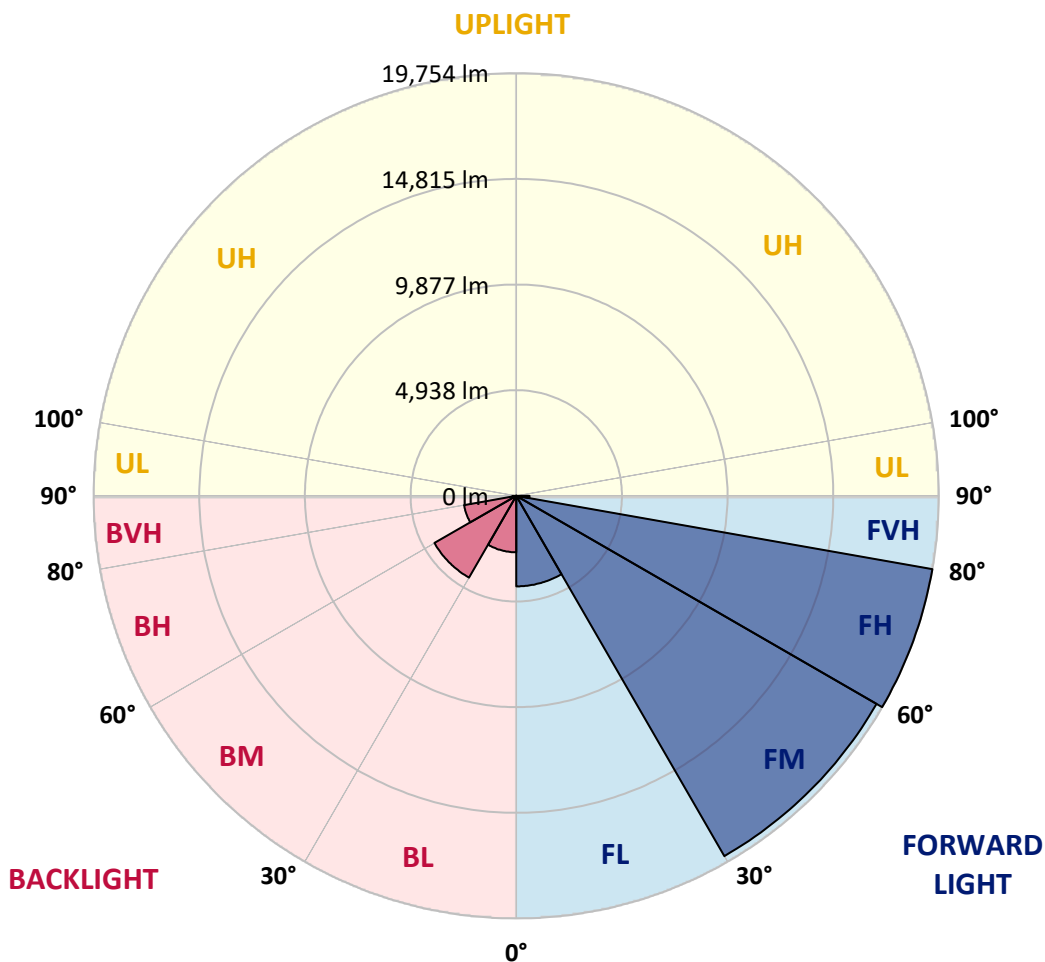


REPORT NUMBER: P651592
 CATALOG NUMBER: GALN-SA8D-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4231.9	7.9			
FM (30°-60°)	19448.8	36.2			
FH (60°-80°)	19753.9	36.7			G5
FVH (80°-90°)	620.2	1.2			G4/750
BL (0°-30°)	2638.0	4.9	B4/5000		
BM (30°-60°)	4416.0	8.2	B3/5000		
BH (60°-80°)	2478.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	173.2	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-G5
 Type IV Medium





REPORT NUMBER: P651592
 CATALOG NUMBER: GALN-SA8D-840-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8
2.5°	9266.5	9310.0	9321.6	9350.7	9411.7	9461.1	9510.4	9504.6	9574.3	9603.4	9629.5
5°	8854.1	8865.7	8909.3	8967.4	9074.8	9211.3	9344.9	9347.8	9519.1	9655.6	9722.5
7.5°	8552.1	8589.9	8618.9	8679.9	8793.2	8941.3	9153.3	9170.7	9475.5	9745.7	9888.0
10°	8354.7	8398.2	8430.2	8505.7	8618.9	8784.4	9013.8	9045.8	9443.7	9888.0	10137.7
12.5°	8174.6	8218.2	8247.2	8345.9	8494.0	8697.4	8955.8	8993.6	9455.3	10053.5	10410.7
15°	8284.9	8319.8	8308.2	8337.3	8436.0	8668.3	8979.0	9016.8	9498.8	10213.2	10680.7
17.5°	8775.8	8804.8	8709.0	8598.6	8552.1	8723.4	9051.6	9092.3	9586.0	10378.7	10956.6
20°	9498.8	9577.2	9368.2	9121.3	8897.7	8920.9	9202.6	9246.2	9707.9	10544.2	11238.3
22.5°	10439.7	10497.8	10242.2	9835.7	9423.3	9211.3	9429.1	9455.3	9890.8	10759.2	11546.1
25°	11546.1	11581.0	11226.7	10704.0	10108.7	9707.9	9739.9	9786.3	10192.8	11003.1	11819.1
27.5°	12620.6	12730.9	12321.5	11682.6	10898.5	10230.6	10166.8	10195.8	10521.0	11139.5	12007.8
30°	13895.4	13886.7	13454.0	12713.5	11708.7	10799.8	10570.4	10564.6	10698.1	11206.3	12144.3
32.5°	14911.8	15030.9	14606.8	13799.5	12635.1	11389.3	10849.2	10837.5	10834.6	11322.5	12347.6
35°	16067.6	16085.0	15695.8	14882.8	13637.0	12129.8	11238.3	11180.2	11113.4	11572.2	12623.5
37.5°	17101.4	17182.6	16825.5	15913.7	14621.4	12899.3	11772.6	11734.9	11531.6	12004.9	13064.9
40°	17908.7	17969.6	17754.8	16886.4	15591.3	13729.9	12452.1	12382.5	12135.6	12713.5	13654.4
42.5°	18172.9	18297.8	18382.0	17955.1	16706.4	14714.3	13288.5	13201.3	13012.6	13787.9	14333.9
45°	18193.3	18390.7	18835.0	18855.3	17827.3	15893.3	14264.2	14203.2	14188.7	15164.4	15289.3
47.5°	18039.4	18239.7	18986.0	19389.7	18826.3	17083.9	15672.6	15576.7	15585.5	16866.2	16360.8
50°	17667.6	17905.7	18811.8	19732.3	19607.5	18321.0	17159.4	17127.5	17307.5	18808.9	17473.0
52.5°	16967.8	17255.3	18631.8	19947.3	20188.3	19386.7	18849.5	18759.5	19215.4	20917.2	18689.8
55°	15030.9	15463.6	17972.5	20066.3	20740.0	20406.0	20371.2	20533.9	21137.9	23217.1	20028.5
57.5°	14020.2	14345.5	16540.9	20086.6	21436.9	21590.8	22148.4	22189.1	23246.1	25659.3	21541.5
60°	13468.5	13756.0	15756.8	19953.1	22409.8	23057.4	23966.3	24111.5	25305.0	28304.8	23109.7
62.5°	12986.5	13233.3	15286.4	19491.3	23507.5	25232.4	26321.4	26391.1	27642.7	31226.2	24657.4
65°	11851.0	12132.7	14339.7	19029.6	24454.2	27950.6	29446.0	29364.8	30131.3	33746.8	25627.4
67.5°	10320.7	10677.8	12571.2	17435.3	24921.7	30921.2	32965.6	32864.0	32588.2	35399.1	25906.2
70°	8366.3	8557.9	10309.1	14679.5	23054.4	32480.7	35744.7	35637.3	34109.8	35616.9	24587.7
71°	7198.9	7498.0	8976.1	13038.7	21500.8	32004.4	36101.9	36072.8	34112.7	35015.8	23594.6
72.5°	5619.1	5802.1	7108.9	10102.8	18274.6	29297.9	35219.1	35329.5	33372.2	33346.1	21547.3
75°	3554.4	3635.7	4460.5	5947.3	10027.3	20748.7	30064.6	30363.7	29631.9	27294.2	16024.0
77.5°	2064.7	2169.3	2671.6	3505.0	4332.7	11261.5	21512.4	21837.7	20589.0	15027.9	6560.1
80°	1202.2	1318.4	1759.8	2035.6	1989.2	4178.8	10953.7	11508.3	8915.1	3795.4	1841.1
82.5°	667.9	746.3	1237.1	1240.0	1059.9	1364.9	3447.0	3606.7	2543.9	1530.4	752.1
85°	484.9	548.8	798.6	723.1	508.2	586.6	1199.4	1257.4	1028.0	644.7	243.9
87.5°	171.3	243.9	438.5	348.5	139.4	121.9	345.6	281.7	261.4	180.1	55.2
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: P651592
 CATALOG NUMBER: GALN-SA8D-840-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8	9591.8
2.5°	9644.0	9649.8	9620.8	9568.5	9516.3	9449.5	9374.0	9315.8	9289.8	9286.8	9284.0
5°	9748.5	9763.1	9652.7	9490.1	9310.0	9089.4	8900.6	8685.7	8630.5	8543.4	8569.5
7.5°	9917.0	9908.2	9690.5	9344.9	8923.9	8456.3	8061.4	7832.0	7593.8	7527.0	7530.0
10°	10158.0	10102.8	9690.5	9048.7	8345.9	7651.9	7100.1	6751.7	6562.9	6406.1	6348.0
12.5°	10413.6	10274.2	9597.6	8633.5	7602.6	6751.7	6159.3	5688.9	5566.8	5439.1	5442.0
15°	10657.5	10425.2	9414.6	8049.7	6801.1	5790.5	5215.5	4933.8	4896.0	4910.6	4907.7
17.5°	10878.2	10532.6	9135.8	7399.3	5866.0	4965.8	4660.8	4681.2	4782.8	4855.4	4864.1
20°	11101.8	10596.5	8720.6	6528.1	4983.2	4466.3	4477.9	4637.6	4791.5	4890.2	4904.8
22.5°	11313.8	10625.5	8232.7	5685.9	4344.3	4254.3	4425.6	4597.0	4747.9	4843.8	4858.3
25°	11453.2	10558.8	7541.6	4806.1	4030.7	4178.8	4358.8	4504.1	4631.8	4730.5	4753.8
27.5°	11490.9	10343.9	6684.9	4094.6	3885.5	4106.2	4271.7	4379.2	4477.9	4570.8	4588.2
30°	11470.6	10027.3	5744.0	3676.4	3801.2	4022.0	4149.7	4228.1	4347.2	4419.8	4434.3
32.5°	11438.7	9658.5	4762.5	3452.8	3731.6	3943.5	4019.1	4088.8	4085.8	4056.8	4077.2
35°	11450.3	9217.1	3966.8	3319.2	3670.6	3885.5	3949.3	3862.3	3612.5	3600.9	3589.3
37.5°	11511.3	8781.6	3388.9	3226.3	3638.7	3876.8	3911.7	3510.8	3290.2	3188.6	3162.4
40°	11668.0	8273.3	3008.5	3156.6	3635.7	3943.5	3740.3	3333.7	2909.8	2712.3	2697.8
42.5°	11877.2	7773.9	2776.1	3113.0	3670.6	4045.2	3670.6	3084.0	2622.2	2506.1	2488.7
45°	12187.9	7201.8	2648.4	3092.7	3722.9	4083.0	3647.3	2901.0	2506.1	2413.2	2413.2
47.5°	12539.2	6655.8	2578.7	3078.2	3789.6	4056.8	3441.2	2843.0	2450.9	2462.5	2517.7
50°	12887.7	6182.5	2526.4	3046.3	3847.7	4042.3	3356.9	2840.1	2465.5	2613.6	2712.3
52.5°	13291.4	5848.6	2462.5	2994.0	3847.7	3949.3	3330.9	2898.2	2506.1	2549.7	2593.2
55°	13779.3	5744.0	2381.2	2880.7	3778.0	3717.1	3316.3	2982.4	2535.1	2433.5	2450.9
57.5°	14423.9	5912.5	2302.8	2738.5	3618.3	3476.0	3310.5	3005.6	2468.3	2384.2	2366.7
60°	15173.2	6246.4	2279.6	2593.2	3400.5	3269.8	3275.7	2938.8	2375.4	2288.3	2302.8
62.5°	15698.8	6446.8	2265.1	2482.9	3162.4	3043.3	3191.4	2857.5	2334.8	2259.3	2273.8
65°	15698.8	6202.8	2131.5	2314.4	2854.6	2770.3	3089.8	2755.9	2282.5	2195.3	2180.9
67.5°	15103.4	5491.4	1928.2	2061.8	2514.8	2459.7	2947.5	2633.8	2204.1	2137.3	2102.5
70°	13552.7	4164.3	1672.7	1765.6	2085.0	2134.4	2764.5	2468.3	2073.4	1992.1	1939.9
71°	12870.3	3627.1	1565.3	1614.6	1919.5	1992.1	2677.4	2398.7	2015.4	1899.1	1806.2
72.5°	11554.8	3054.9	1402.6	1423.0	1640.7	1771.4	2494.5	2265.1	1904.9	1739.4	1634.9
75°	8778.6	2230.2	1129.6	1118.0	1213.8	1405.5	2111.2	2018.2	1669.8	1446.2	1385.2
77.5°	3792.6	1213.8	845.0	853.8	824.7	1065.7	1661.1	1733.6	1431.6	1176.1	1120.9
80°	1150.0	699.9	577.9	589.5	551.8	714.3	1170.3	1359.1	1150.0	914.8	839.2
82.5°	589.5	418.1	394.9	389.1	351.4	403.7	708.5	929.3	821.8	572.0	505.3
85°	255.6	223.6	194.5	188.7	165.5	145.2	252.6	464.7	435.6	319.4	304.9
87.5°	63.9	58.1	37.8	34.8	20.4	2.9	0.0	0.0	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)