

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: P652115

Luminaire Tested: **GALN-SA9A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28841.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

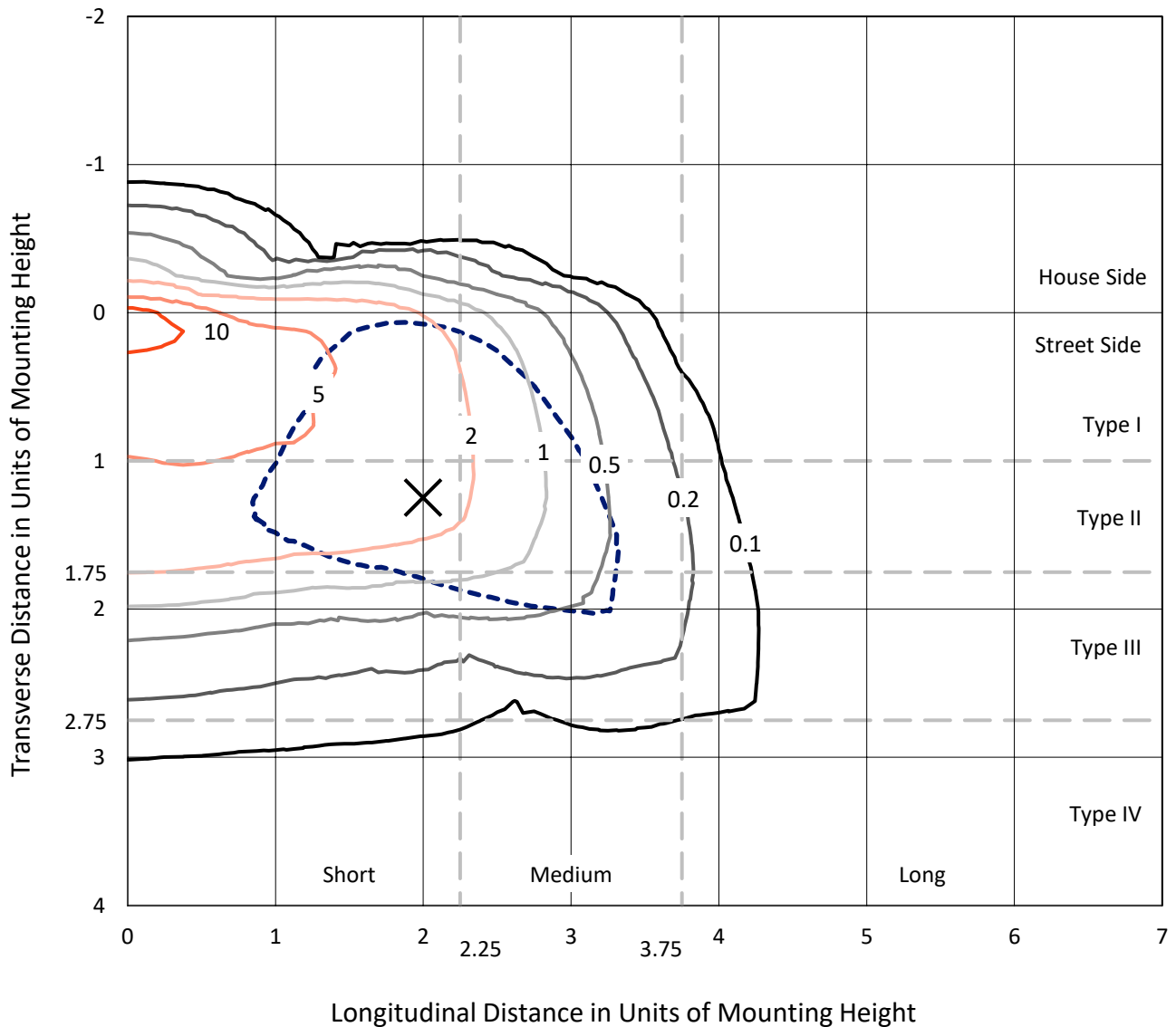
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

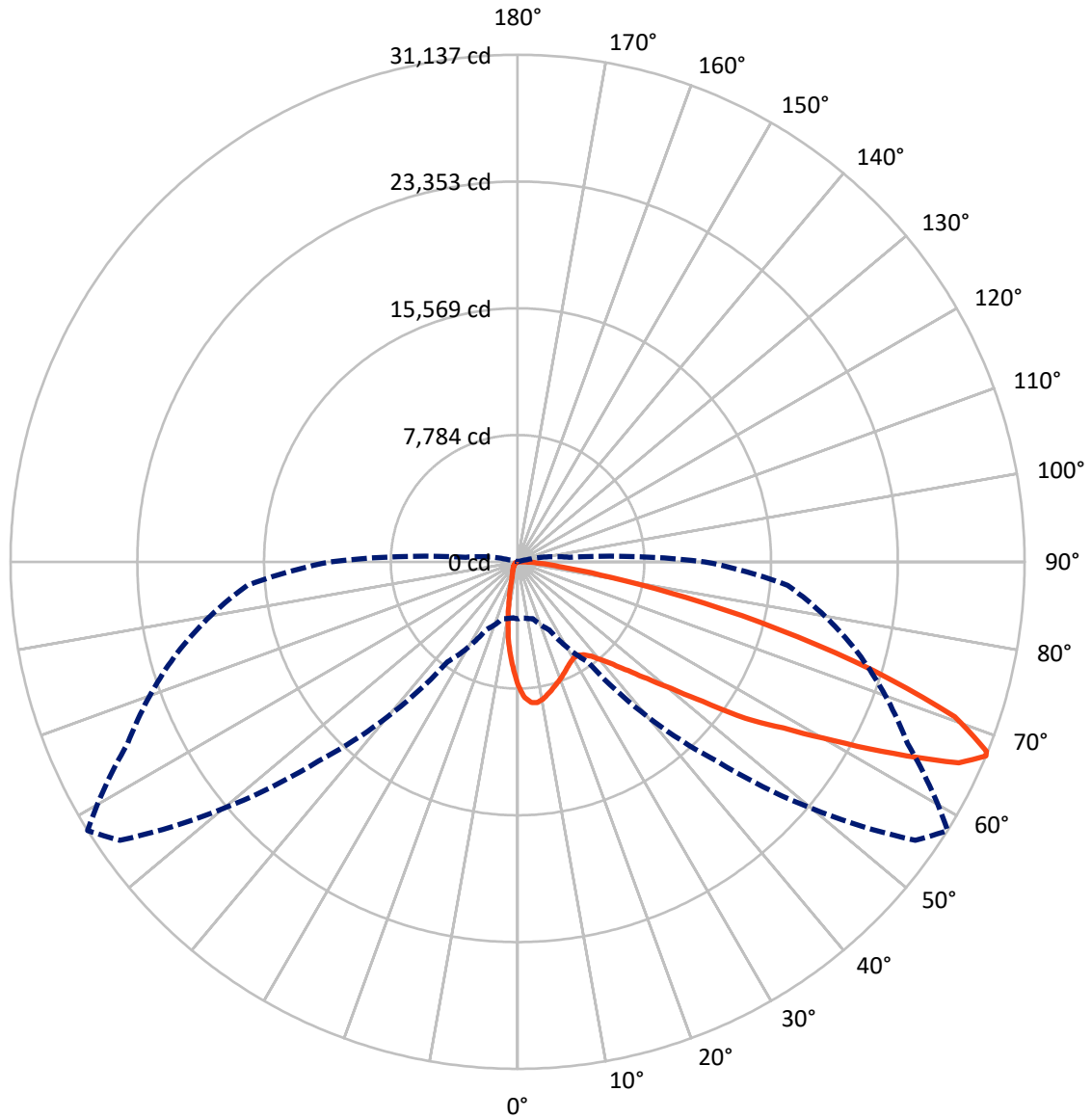
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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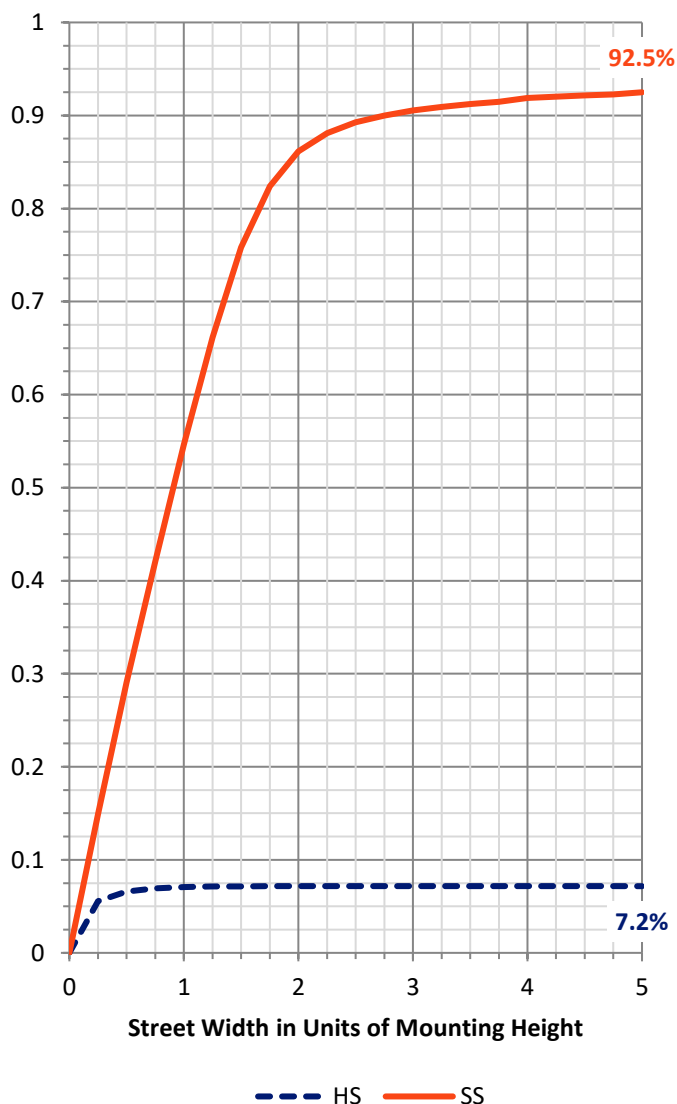
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2081.4	0.0	2081.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26759.9	0.0	26759.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	28841.2	0.0	28841.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	2.2
10°-20°	1340.0	4.6
20°-30°	1815.7	6.3
30°-40°	2518.3	8.7
40°-50°	4016.4	13.9
50°-60°	6942.7	24.1
60°-70°	7930.7	27.5
70°-80°	3306.4	11.5
80°-90°	350.6	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°	28841.2	100.0
0°-180°	28841.2	100.0

Coefficient of Utilization

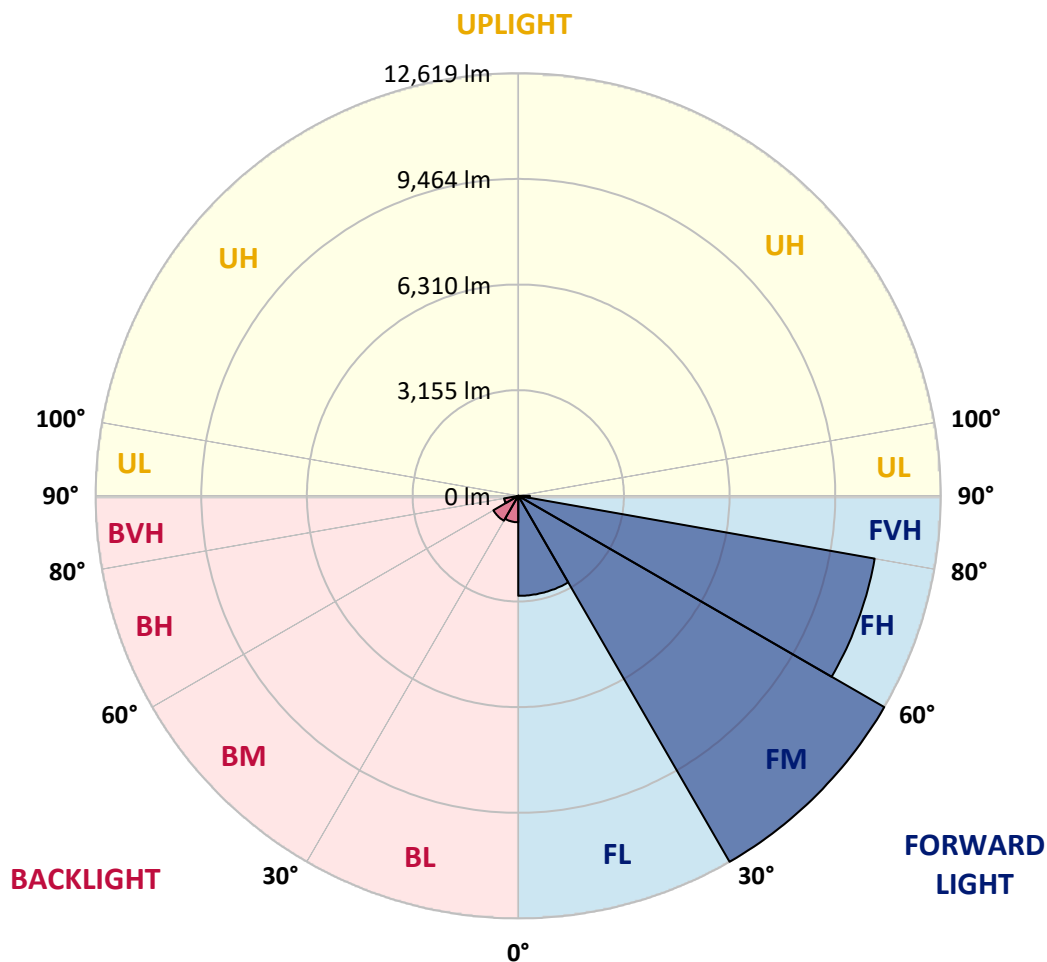


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2985.8	10.4			
FM (30°-60°)	12619.3	43.8			
FH (60°-80°)	10806.8	37.5			G4/12000
FVH (80°-90°)	348.0	1.2			G3/500
BL (0°-30°)	790.3	2.7	B2/1000		
BM (30°-60°)	858.2	3.0	B1/1000		
BH (60°-80°)	430.3	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5
2.5°	8873.2	8886.8	8836.6	8796.1	8692.1	8580.3	8431.9	8352.9	8217.9	7984.8	7726.5
5°	9081.4	9098.7	9091.0	9081.4	9040.9	8933.0	8744.1	8674.7	8476.2	8096.6	7630.1
7.5°	8618.8	8682.4	8690.1	8765.3	8836.6	8846.2	8774.9	8722.9	8539.9	8094.6	7458.6
10°	8006.0	8048.4	8110.0	8196.7	8368.3	8510.9	8580.3	8572.6	8466.6	8034.8	7258.2
12.5°	7387.3	7410.4	7504.8	7653.3	7863.4	8106.1	8291.2	8327.8	8329.8	7963.5	7090.5
15°	6855.3	6845.7	6919.0	7090.5	7385.4	7689.9	8021.4	8079.2	8171.7	7894.1	6934.4
17.5°	6400.5	6450.6	6462.2	6651.0	6922.9	7317.9	7740.0	7842.2	8027.2	7834.4	6805.3
20°	6119.1	6146.1	6171.2	6277.1	6522.0	6938.2	7476.0	7616.6	7892.3	7780.4	6660.7
22.5°	6036.3	6053.6	6032.4	6065.2	6238.6	6608.7	7188.8	7375.7	7763.1	7730.4	6543.1
25°	6099.9	6117.2	6067.1	6028.5	6088.3	6340.8	6911.3	7138.7	7659.1	7720.7	6454.5
27.5°	6254.0	6286.8	6217.4	6148.0	6113.4	6196.2	6693.4	6957.5	7587.8	7767.0	6414.1
30°	6495.0	6514.2	6462.2	6377.4	6298.4	6215.5	6579.7	6832.2	7568.5	7874.9	6410.2
32.5°	6757.1	6797.6	6768.6	6712.8	6610.6	6414.1	6612.5	6836.1	7614.8	8031.0	6458.4
35°	7080.9	7127.1	7154.1	7142.5	7011.5	6766.7	6820.7	7009.6	7738.0	8318.2	6589.4
37.5°	7398.9	7439.3	7591.6	7643.6	7528.0	7296.7	7225.4	7350.7	8009.8	8694.0	6826.5
40°	7763.1	7817.1	8031.0	8229.5	8173.6	7930.8	7799.8	7903.8	8426.1	9260.6	7275.5
42.5°	8111.9	8208.3	8534.0	8884.8	8936.8	8665.1	8578.4	8613.0	9042.9	10075.9	7901.9
45°	8607.3	8697.9	9118.0	9594.0	9838.8	9626.8	9538.1	9532.4	9888.9	11222.6	8917.5
47.5°	9322.3	9403.2	9898.6	10368.8	10804.4	10833.3	10665.6	10723.4	10952.8	12564.0	10162.6
50°	10199.2	10390.1	10715.7	11205.2	11787.3	12257.6	12309.5	12232.5	12429.1	14117.4	11658.2
52.5°	11473.2	11546.3	11845.1	12247.9	12930.2	13728.1	14346.7	14240.7	14179.1	15597.5	13169.1
55°	12423.3	12521.6	12986.0	13539.2	14539.5	15591.7	16933.1	16969.8	16191.2	17019.9	14647.4
57.5°	12136.1	12286.4	12989.9	14102.0	16301.0	18224.5	19222.7	19247.8	18052.9	18401.8	16316.4
60°	10661.8	10733.1	11741.0	13225.1	16451.3	21076.8	22470.3	22267.9	19947.4	19947.4	17790.8
62.5°	7560.8	7672.5	8489.7	10673.3	14857.4	22067.4	26359.5	25941.3	22557.0	21425.7	18669.6
65°	4831.7	4723.8	5265.3	6737.8	11068.4	20604.7	29745.7	29770.8	25012.3	22017.4	18189.7
67°	3500.0	3457.5	3613.7	4606.2	7504.8	17320.6	29817.1	31137.3	26423.1	21643.5	16655.6
67.5°	3201.3	3234.0	3347.7	4155.2	6818.7	15761.3	29493.3	31056.3	26741.1	21417.9	16100.5
70°	2426.5	2370.5	2493.9	2939.1	4087.8	9942.9	25370.8	28483.4	26346.0	19180.4	12864.6
72.5°	1784.7	1778.9	1950.4	2403.3	3147.3	5296.2	19045.5	22838.4	21524.0	14605.0	8100.4
75°	1204.6	1258.6	1532.2	2008.2	2852.4	3434.4	12984.1	16568.9	14942.3	8293.1	3311.1
77.5°	686.1	690.0	986.7	1613.1	2561.3	2763.7	7693.7	10555.7	7909.6	2758.0	982.9
80°	296.8	325.7	489.5	1171.8	2123.9	2447.6	4411.5	5801.1	3199.3	584.0	318.0
82.5°	109.8	129.1	215.9	720.8	1549.5	2016.0	2665.5	2769.5	1085.1	206.2	198.5
85°	0.0	3.9	79.1	337.2	807.5	900.0	1780.8	1642.1	479.9	98.3	129.1
87.5°	0.0	0.0	0.0	34.6	106.0	335.3	553.1	616.7	115.6	34.6	30.9
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°	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5
2.5°	7587.8	7462.4	7148.3	6834.1	6600.9	6406.3	6113.4	5953.4	5868.6	5743.4	5751.0
5°	7396.9	7142.5	6589.4	6017.0	5554.5	5103.4	4563.9	4346.0	4163.0	4058.8	3989.5
7.5°	7113.6	6737.8	5918.7	5155.5	4444.3	3656.1	3064.4	2669.3	2403.3	2305.0	2210.6
10°	6803.4	6304.1	5238.3	4180.3	3193.5	2380.2	1879.1	1516.7	1387.6	1268.1	1279.7
12.5°	6516.2	5909.0	4613.9	3299.5	2237.6	1513.0	1179.5	1031.1	988.7	975.2	975.2
15°	6281.0	5531.3	3943.2	2480.4	1534.2	1087.0	944.4	903.9	888.5	884.6	884.6
17.5°	6030.5	5172.8	3338.1	1832.9	1115.9	909.7	861.5	834.5	828.7	824.9	824.9
20°	5806.9	4812.5	2763.7	1364.5	902.0	819.1	788.3	770.9	765.1	761.3	763.2
22.5°	5594.9	4492.5	2224.1	1031.1	794.1	745.9	715.0	697.7	686.1	676.5	678.4
25°	5406.0	4184.1	1788.6	844.1	715.0	672.6	641.8	616.7	591.6	580.1	578.2
27.5°	5273.1	3914.4	1393.5	722.8	643.7	597.4	558.9	528.1	495.3	477.9	474.1
30°	5163.2	3640.7	1102.4	637.9	572.4	528.1	479.9	435.6	400.9	383.5	375.8
32.5°	5091.9	3380.5	869.2	568.5	512.7	458.7	404.7	360.4	321.9	304.5	300.7
35°	5080.3	3162.7	711.1	510.7	458.7	400.9	345.0	296.8	264.1	246.7	242.8
37.5°	5163.2	2995.0	595.5	464.5	414.4	350.8	289.1	244.7	215.9	202.3	200.4
40°	5384.8	2889.0	516.5	426.0	373.9	304.5	246.7	208.1	179.2	165.8	165.8
42.5°	5806.9	2892.9	464.5	389.3	333.5	260.2	210.1	173.4	148.4	136.8	133.0
45°	6466.0	3023.9	420.2	352.7	294.9	225.5	179.2	142.6	117.6	107.9	107.9
47.5°	7348.7	3284.1	381.6	316.0	260.2	192.8	152.2	115.6	94.4	84.8	84.8
50°	8503.2	3702.3	348.8	285.3	231.3	165.8	123.4	94.4	73.3	65.5	63.6
52.5°	9709.7	4218.8	310.3	258.3	198.5	140.7	100.2	73.3	55.9	50.1	48.2
55°	11041.4	4723.8	273.7	231.3	161.9	117.6	79.1	57.8	40.5	34.6	34.6
57.5°	12384.7	5219.1	229.3	192.8	127.2	86.7	61.6	42.4	27.0	21.2	21.2
60°	13521.9	5379.0	194.7	156.1	96.4	61.6	44.3	27.0	15.4	9.7	9.7
62.5°	13677.9	4839.5	163.8	119.5	69.4	42.4	23.1	15.4	5.8	3.9	3.9
65°	12830.0	3931.7	136.8	90.6	46.3	21.2	9.7	5.8	1.9	0.0	0.0
67°	11496.3	3187.7	111.8	67.4	32.8	13.5	5.8	1.9	0.0	0.0	0.0
67.5°	11155.1	3039.4	107.9	63.6	28.9	11.5	3.9	1.9	0.0	0.0	0.0
70°	8753.7	2276.2	77.1	38.5	17.3	7.7	0.0	0.0	0.0	0.0	0.0
72.5°	5440.8	1287.4	55.9	23.1	11.5	3.9	0.0	0.0	0.0	0.0	0.0
75°	2056.4	450.9	38.5	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	639.8	171.6	23.1	11.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.9	65.5	15.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	133.0	27.0	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.8	11.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	3.9	1.9	0.0	0.0	0.0	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)