

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: P531481

Luminaire Tested: **GALN-SA6D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24943 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

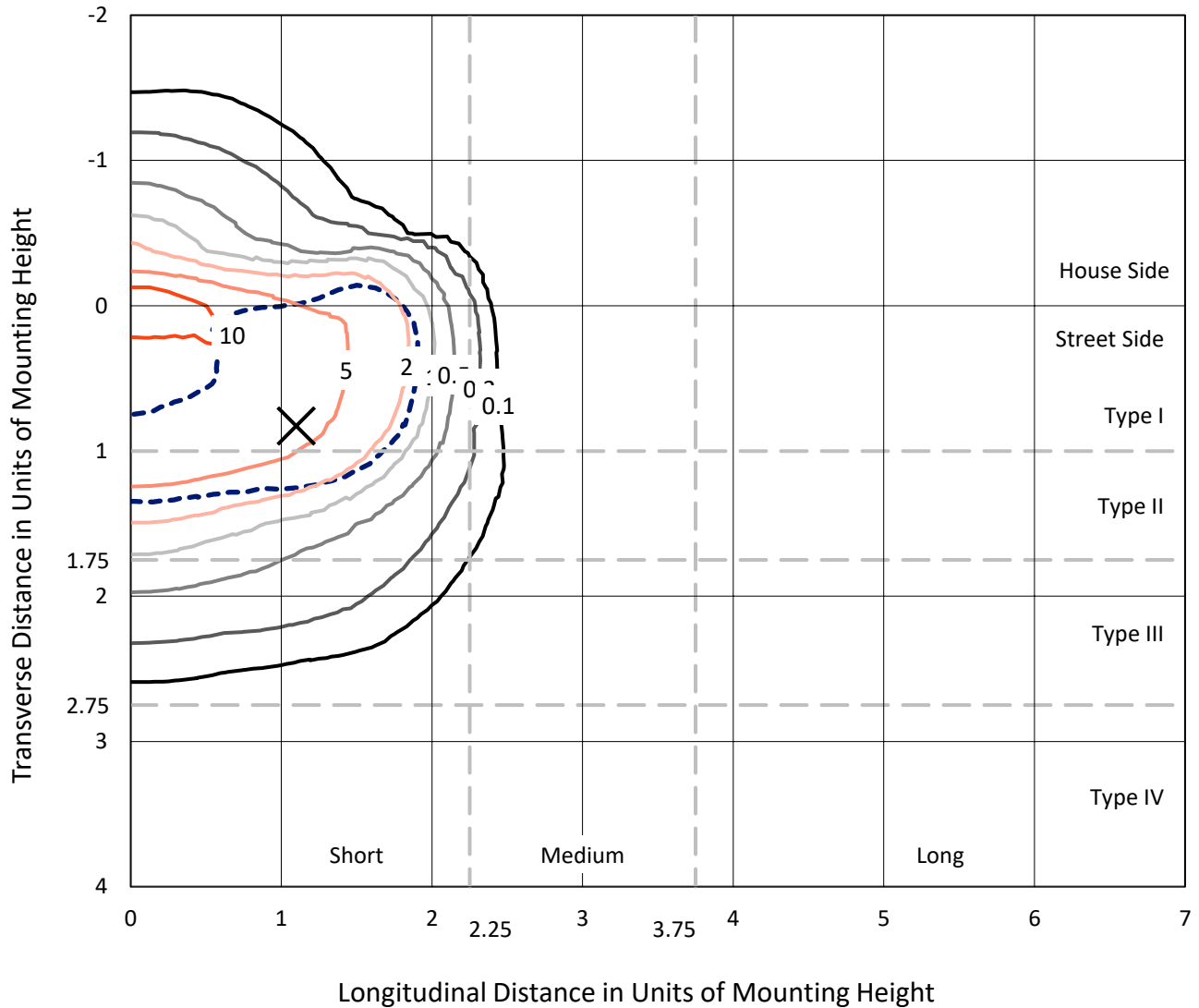
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

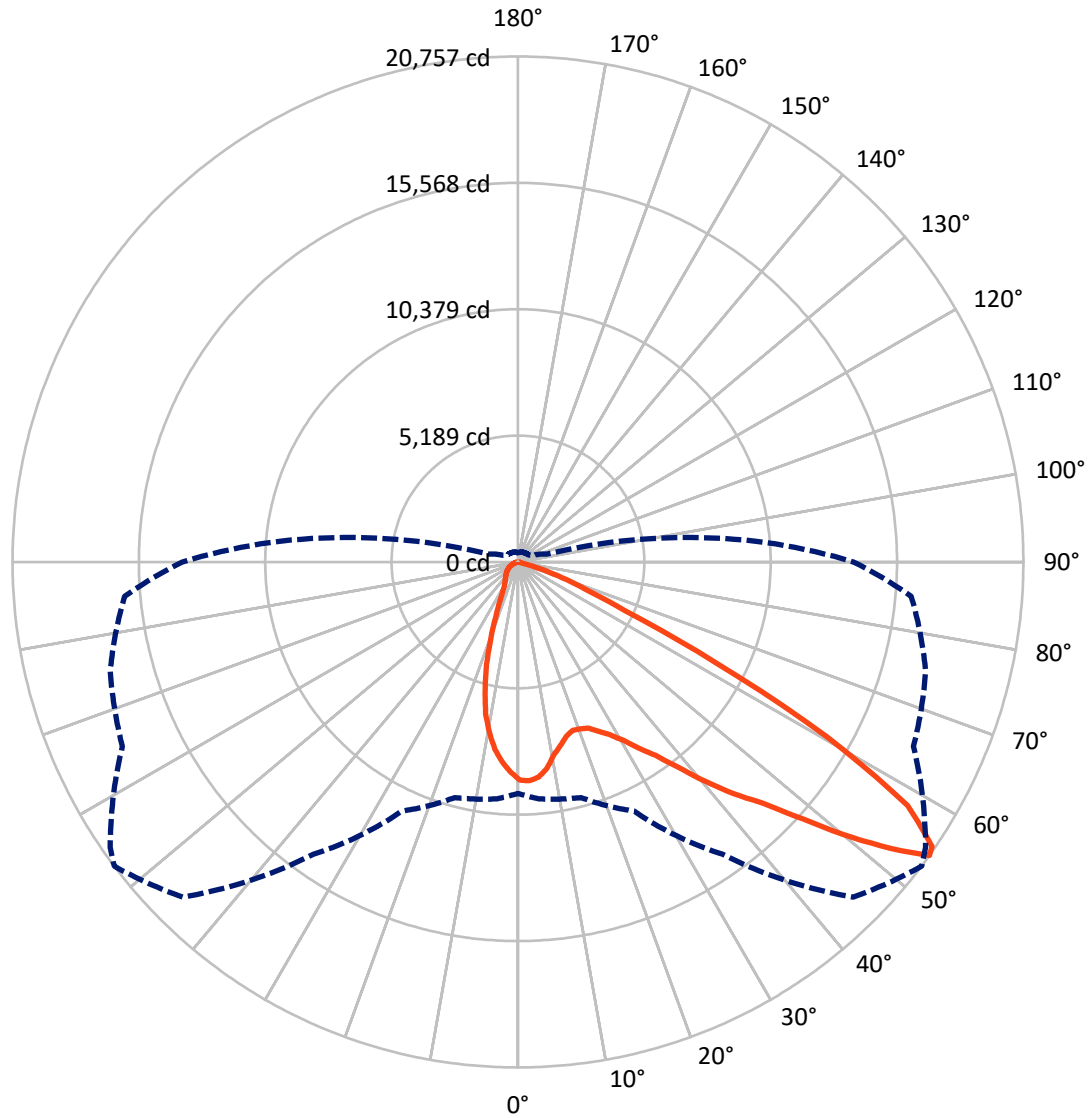
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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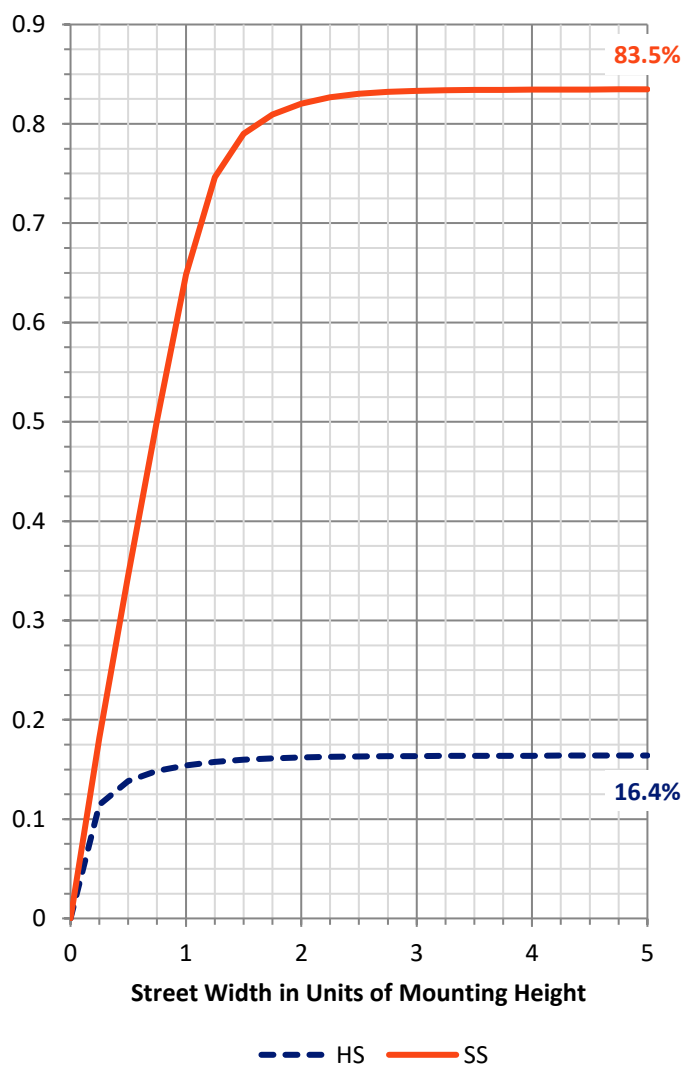
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4126.9	0.0	4126.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20816.1	0.0	20816.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	24943.0	0.0	24943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.7	3.1
10°-20°	1762.3	7.1
20°-30°	2504.6	10.0
30°-40°	3865.3	15.5
40°-50°	6060.4	24.3
50°-60°	7040.0	28.2
60°-70°	2660.2	10.7
70°-80°	253.0	1.0
80°-90°	28.5	0.1
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°	24943.0	100.0
0°-180°	24943.0	100.0

Coefficient of Utilization

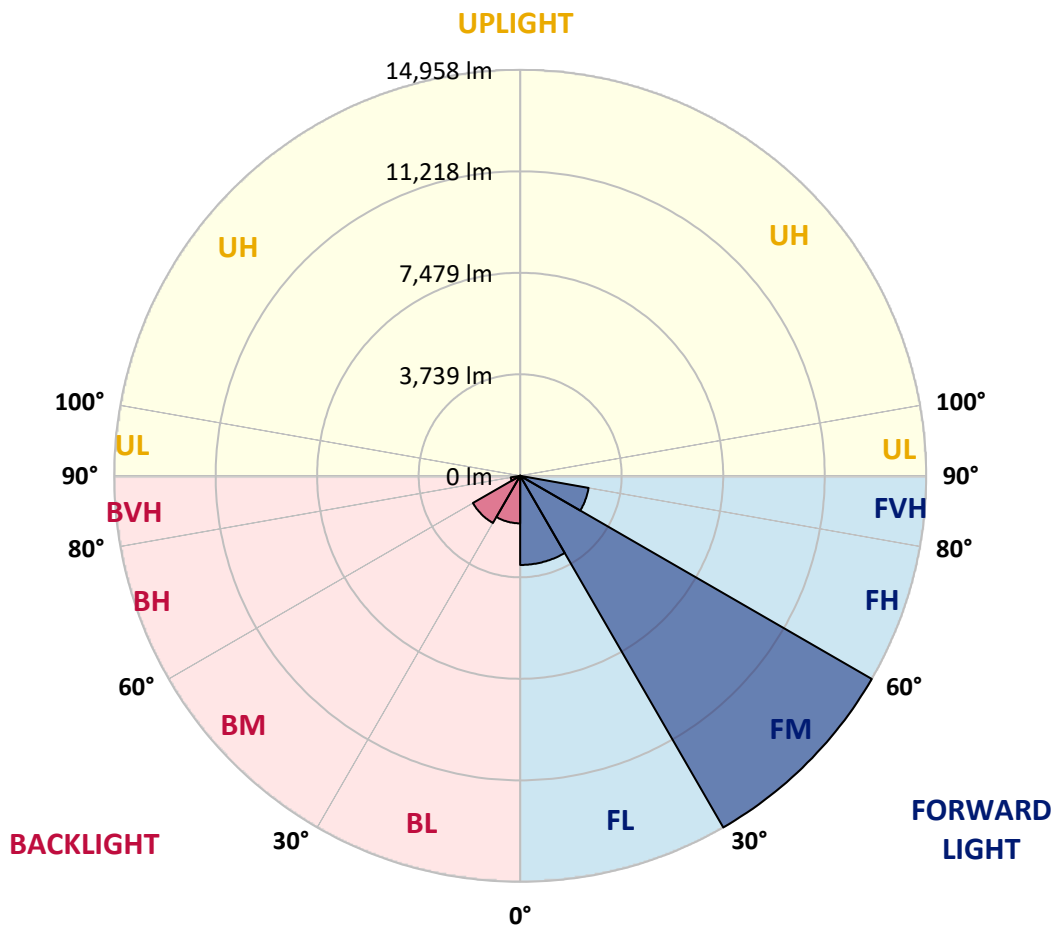


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3284.3	13.2			
FM (30°-60°)	14957.5	60.0			
FH (60°-80°)	2559.5	10.3			G2/5000
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	1751.3	7.0	B3/2500		
BM (30°-60°)	2008.3	8.1	B2/2500		
BH (60°-80°)	353.6	1.4	B1/500		G1/500
BVH (80°-90°)	13.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1
2.5°	8912.6	8833.6	8912.6	8921.9	8977.7	9028.8	8996.3	9070.6	9028.8	8982.3	8968.4
5°	8192.4	8299.3	8303.9	8471.2	8434.0	8740.7	8875.5	8838.3	9066.0	9052.0	9019.5
7.5°	7546.5	7504.6	7560.4	7755.6	8001.9	8355.0	8550.2	8545.5	8870.8	9103.2	9079.9
10°	6947.0	6942.4	7058.5	7211.9	7421.0	7792.7	8062.3	8197.0	8703.5	9056.7	9107.8
12.5°	6542.7	6524.2	6649.6	6775.1	7105.0	7393.1	7737.0	7802.0	8382.9	8894.0	8977.7
15°	6277.9	6319.7	6329.0	6570.6	6779.7	7160.8	7430.3	7565.1	8234.2	8763.9	9084.6
17.5°	6231.4	6287.2	6291.8	6491.6	6714.7	7035.3	7272.3	7453.5	8108.7	8829.0	9089.2
20°	6324.3	6291.8	6319.7	6445.2	6663.6	6970.3	7314.1	7374.5	8066.9	8861.5	9140.3
22.5°	6589.2	6579.9	6510.2	6612.5	6765.8	7086.4	7411.7	7504.6	8187.7	9028.8	9182.2
25°	6882.0	6933.1	6868.0	6854.1	6961.0	7276.9	7709.1	7829.9	8592.0	9330.9	9312.3
27.5°	7430.3	7379.2	7379.2	7314.1	7286.2	7439.6	8029.7	8229.6	9042.7	9721.2	9461.0
30°	7955.4	8011.1	7969.3	7992.6	7806.7	7792.7	8485.1	8731.4	9842.0	10316.0	9776.9
32.5°	8787.2	8712.8	8782.5	8722.1	8475.8	8224.9	9103.2	9358.7	10808.5	10999.1	10250.9
35°	9479.6	9447.0	9744.4	9735.1	9335.5	9089.2	9758.4	10139.4	11482.3	11816.9	10808.5
37.5°	10464.7	10404.3	10743.5	10906.1	10548.3	10181.2	10697.0	11138.5	12109.7	12472.1	11380.1
40°	11477.7	11631.0	12086.4	12355.9	11974.9	11487.0	11844.8	11979.6	12527.9	12899.6	11770.4
42.5°	12760.2	12983.3	13448.0	13680.3	13647.8	13118.0	13011.1	13006.5	12829.9	12778.8	12058.5
45°	13991.6	13908.0	14623.6	15130.1	15539.0	15385.7	14135.7	13996.3	13308.5	12960.0	12132.9
47.5°	14530.7	14502.8	14990.7	15892.2	17286.2	17476.8	15771.4	15232.3	14117.1	13722.1	12537.2
50°	13833.6	13977.7	14461.0	15460.0	17597.6	19052.0	17778.8	17053.9	15060.4	14651.5	13494.4
52.5°	11556.7	11654.3	12114.3	13382.9	16538.1	19981.4	19702.6	19284.4	16793.7	16115.2	15162.6
54°	9502.8	9763.0	10013.9	11287.2	14651.5	19465.6	20757.4	20436.8	17922.9	17332.7	16212.8
55°	8276.0	8429.4	8610.6	9879.2	13345.7	18592.0	20636.6	20664.5	18680.3	17713.7	16919.1
57.5°	6045.5	6152.4	5966.5	6528.8	9163.6	15097.6	18875.5	19628.2	19702.6	18285.3	17351.3
60°	4619.0	4665.4	4456.3	4544.6	5697.0	10362.5	14600.4	15506.5	17774.2	15980.5	14698.0
62.5°	3582.7	3592.0	3587.4	3740.7	3926.6	6096.7	9131.0	9934.9	12253.7	11347.6	9981.4
65°	2639.4	2597.6	2671.9	3136.6	3350.4	3833.6	4809.5	5395.0	6658.9	5622.7	4019.5
67.5°	1710.0	1724.0	1798.3	2332.7	2871.7	2941.4	2960.0	2913.6	2918.2	1607.8	1008.4
70°	1027.0	1050.2	1027.0	1319.7	2053.9	2109.7	1928.4	1882.0	1468.4	381.0	376.4
72.5°	608.7	576.2	515.8	566.9	855.0	1022.3	920.1	915.4	576.2	223.0	223.0
75°	255.6	232.3	190.5	171.9	227.7	218.4	218.4	195.2	153.3	148.7	139.4
77.5°	51.1	51.1	37.2	41.8	55.8	65.1	79.0	79.0	92.9	92.9	88.3
80°	0.0	4.6	13.9	27.9	41.8	60.4	69.7	69.7	79.0	79.0	65.1
82.5°	0.0	4.6	13.9	27.9	37.2	55.8	69.7	69.7	79.0	83.6	69.7
85°	0.0	4.6	13.9	23.2	37.2	46.5	46.5	41.8	32.5	27.9	18.6
87.5°	0.0	0.0	4.6	9.3	4.6	9.3	9.3	9.3	9.3	9.3	9.3
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°	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1	8959.1
2.5°	9000.9	8996.3	8884.8	8703.5	8661.7	8508.4	8489.8	8396.8	8448.0	8276.0	8257.4
5°	8926.6	8870.8	8736.1	8619.9	8280.7	8039.0	7848.5	7616.2	7481.4	7504.6	7416.4
7.5°	9033.5	8889.4	8652.4	8248.1	7834.6	7411.7	7184.0	6710.0	6538.1	6282.5	6245.4
10°	8921.9	8815.1	8448.0	7778.8	7207.2	6598.5	6064.1	5539.0	5139.4	4967.5	4930.3
12.5°	8912.6	8726.8	8113.4	7369.9	6542.7	5669.1	4893.1	4237.9	3842.9	3619.9	3568.8
15°	8768.6	8545.5	7737.0	6737.9	5594.8	4507.4	3661.7	3029.7	2727.7	2597.6	2634.8
17.5°	8782.5	8448.0	7360.6	6068.8	4660.8	3308.5	2500.0	2174.7	2095.7	2128.3	2128.3
20°	8768.6	8229.6	6905.2	5297.4	3568.8	2295.5	1835.5	1719.3	1770.4	1872.7	1849.4
22.5°	8694.2	8127.3	6487.0	4484.2	2625.5	1700.7	1473.0	1477.7	1556.7	1682.2	1710.0
25°	8750.0	7899.6	5957.2	3661.7	1914.5	1356.9	1277.9	1310.4	1394.1	1487.0	1505.6
27.5°	8708.2	7737.0	5404.3	2843.9	1398.7	1166.4	1161.7	1198.9	1236.1	1305.8	1305.8
30°	8754.6	7588.3	4860.6	2114.3	1152.4	1068.8	1050.2	1078.1	1115.2	1129.2	1124.5
32.5°	8926.6	7476.8	4233.3	1579.9	1017.7	975.8	975.8	975.8	971.2	989.8	994.4
35°	9303.0	7495.4	3680.3	1222.1	929.4	896.8	882.9	864.3	855.0	864.3	869.0
37.5°	9711.9	7486.1	3108.7	1040.9	864.3	836.4	803.9	776.0	771.4	780.7	766.7
40°	9893.1	7574.3	2579.0	934.0	803.9	771.4	720.3	697.0	701.7	711.0	701.7
42.5°	10139.4	7602.2	2235.1	850.4	748.1	697.0	664.5	636.6	632.0	645.9	641.3
45°	10134.8	7444.2	1872.7	803.9	697.0	641.3	599.4	576.2	576.2	585.5	590.1
47.5°	10432.2	7421.0	1607.8	762.1	659.9	604.1	553.0	534.4	529.7	529.7	520.4
50°	11124.5	7746.3	1403.3	715.6	613.4	562.3	520.4	497.2	478.6	469.3	464.7
52.5°	12476.8	8759.3	1245.4	659.9	562.3	520.4	483.3	464.7	441.4	418.2	413.6
54°	13787.2	9804.8	1236.1	613.4	520.4	492.6	460.0	450.7	422.9	390.3	381.0
55°	14377.3	10413.6	1268.6	576.2	492.6	474.0	446.1	436.8	408.9	371.7	367.1
57.5°	14865.2	10650.6	1250.0	478.6	446.1	441.4	418.2	404.3	371.7	320.6	311.3
60°	11965.6	8053.0	896.8	422.9	408.9	399.6	381.0	371.7	329.9	274.2	269.5
62.5°	7560.4	4632.9	571.6	371.7	357.8	343.9	320.6	311.3	274.2	218.4	204.5
65°	3220.3	1919.1	385.7	329.9	306.7	283.5	264.9	250.9	218.4	162.6	158.0
67.5°	836.4	683.1	320.6	288.1	255.6	223.0	209.1	185.9	148.7	111.5	106.9
70°	376.4	343.9	269.5	241.6	204.5	171.9	153.3	130.1	97.6	74.3	69.7
72.5°	223.0	218.4	204.5	181.2	153.3	130.1	111.5	88.3	65.1	41.8	41.8
75°	139.4	134.8	139.4	125.5	106.9	97.6	83.6	60.4	37.2	18.6	18.6
77.5°	83.6	83.6	83.6	79.0	74.3	74.3	60.4	37.2	18.6	4.6	4.6
80°	65.1	65.1	69.7	65.1	65.1	65.1	51.1	27.9	9.3	0.0	0.0
82.5°	65.1	69.7	79.0	74.3	65.1	55.8	46.5	27.9	9.3	0.0	0.0
85°	18.6	13.9	23.2	32.5	46.5	41.8	32.5	23.2	9.3	0.0	0.0
87.5°	9.3	9.3	9.3	9.3	4.6	4.6	4.6	4.6	4.6	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)