

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: P531491

Luminaire Tested: **GALN-SA6D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
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-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28263 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

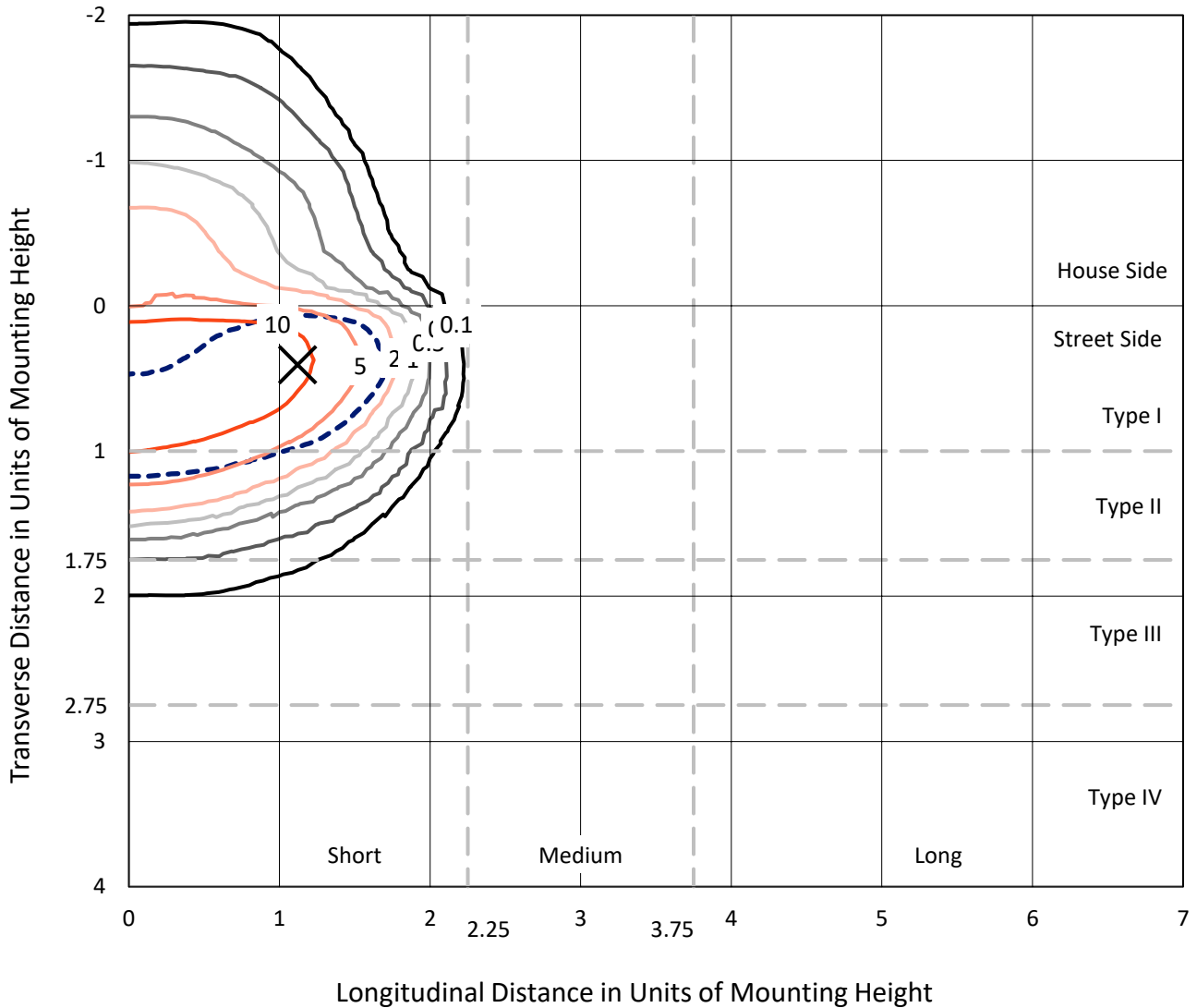
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

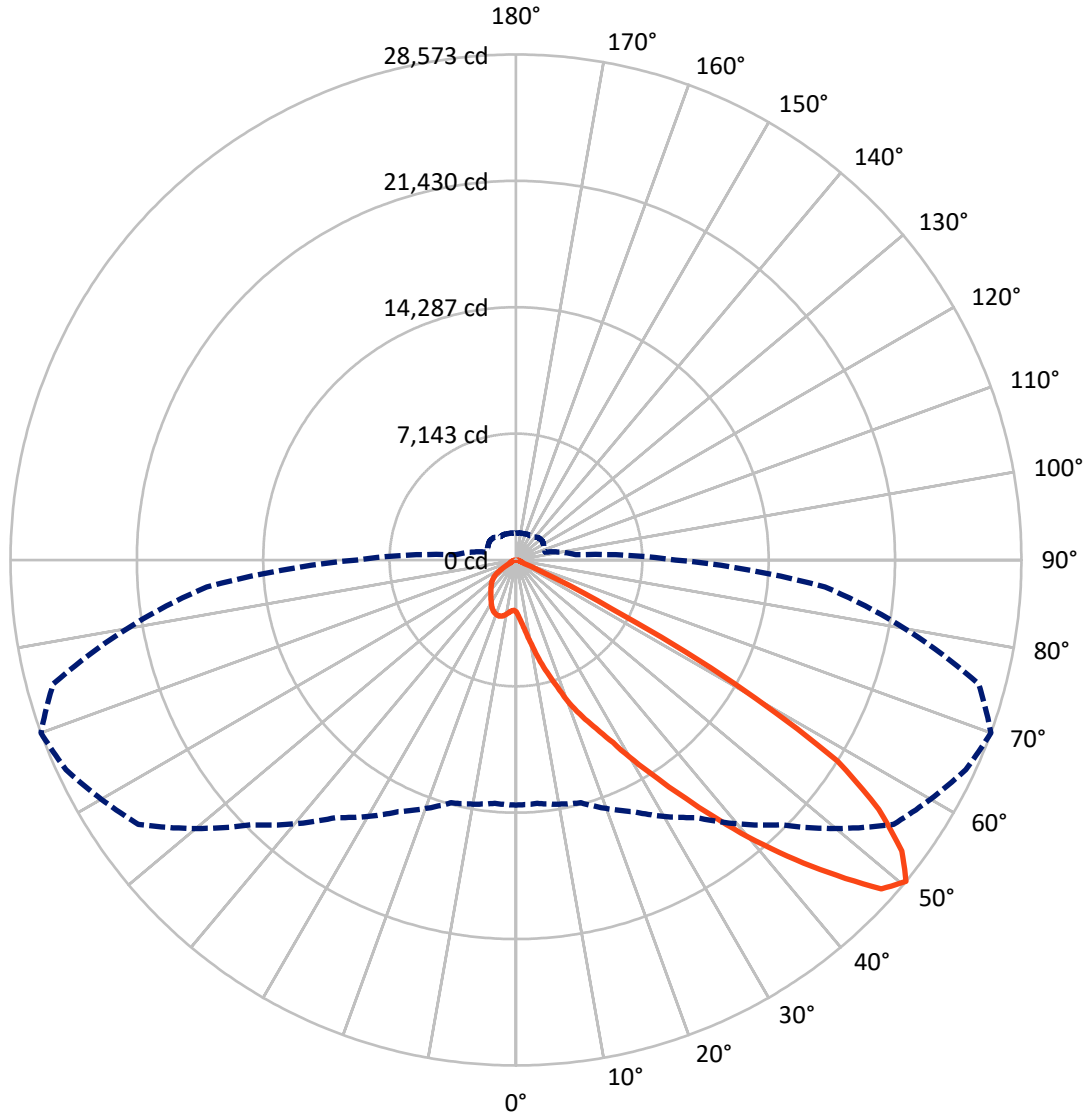
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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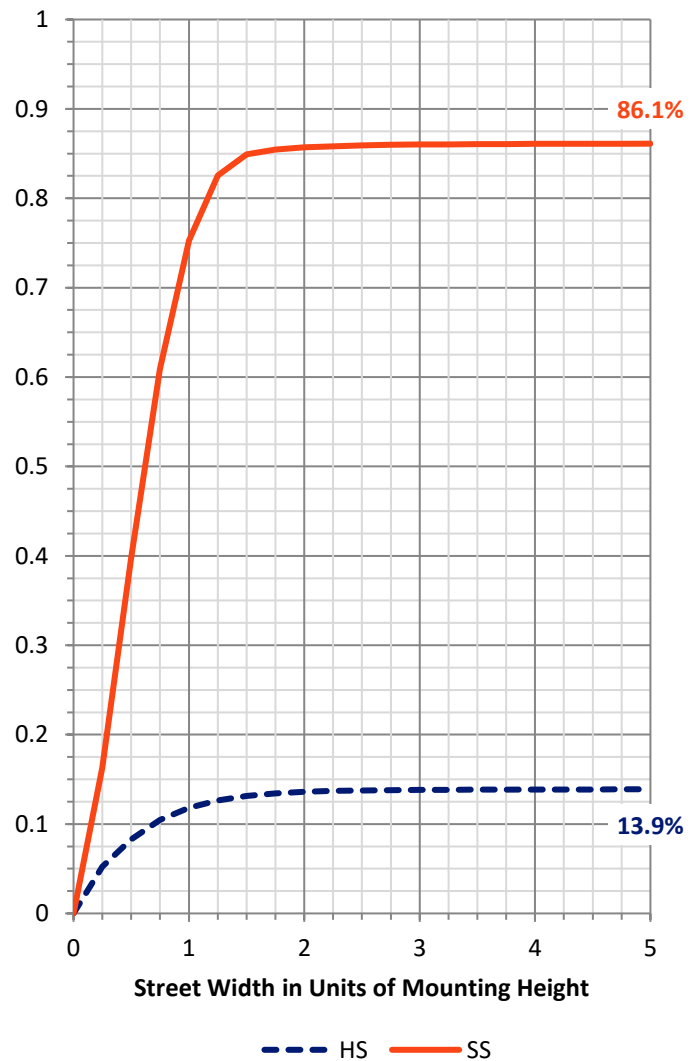
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3947.1	0.0	3947.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	24315.9	0.0	24315.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	28263.0	0.0	28263.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.7	1.3
10°-20°	1646.7	5.8
20°-30°	3454.5	12.2
30°-40°	5954.4	21.1
40°-50°	8702.2	30.8
50°-60°	6777.6	24.0
60°-70°	1148.3	4.1
70°-80°	157.8	0.6
80°-90°	40.9	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°	28263.0	100.0
0°-180°	28263.0	100.0

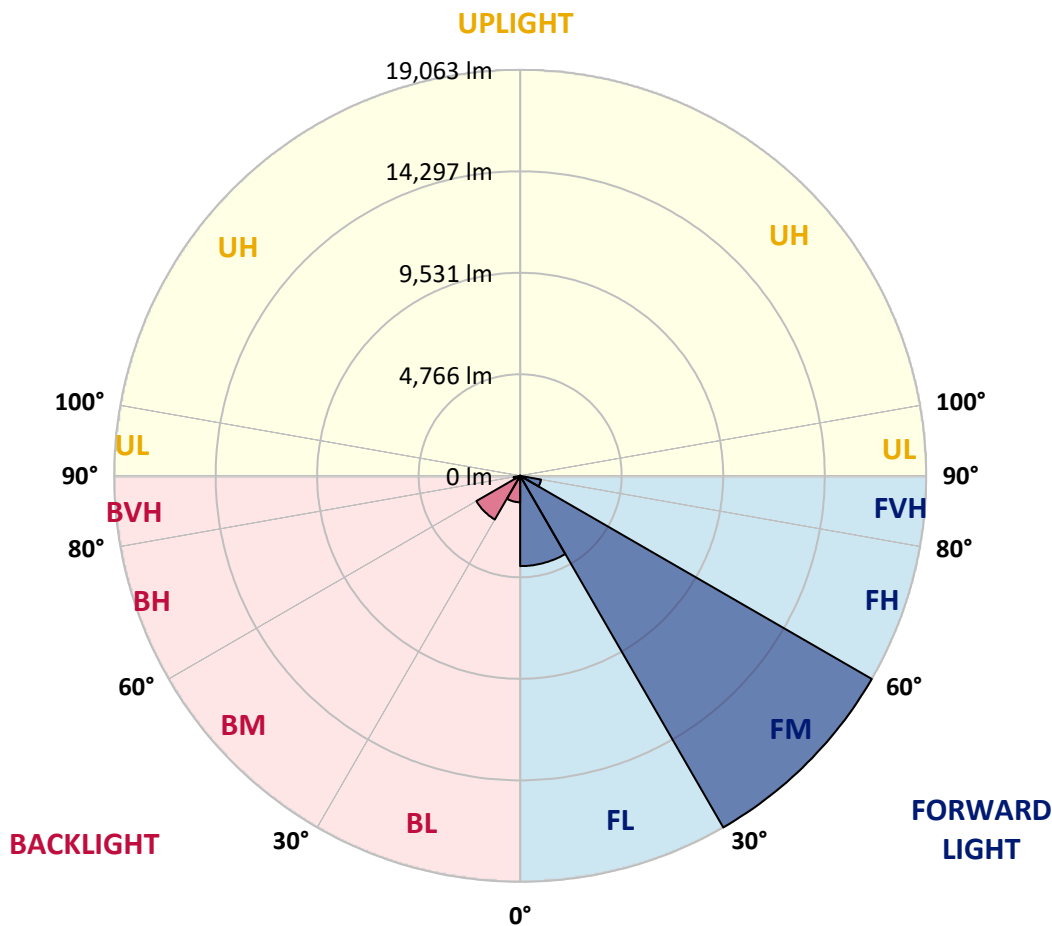


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4239.8	15.0			
FM (30°-60°)	19062.9	67.4			
FH (60°-80°)	994.3	3.5			G1/1800
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1242.1	4.4	B3/2500		
BM (30°-60°)	2371.3	8.4	B2/2500		
BH (60°-80°)	311.8	1.1	B1/500		G1/500
BVH (80°-90°)	22.0	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-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5
2.5°	3833.6	3805.7	3745.3	3633.8	3587.3	3475.8	3410.8	3285.3	3206.3	3118.0	3020.4
5°	5399.6	5255.5	5167.3	5041.8	4674.7	4447.0	4070.6	3750.0	3601.3	3438.6	3215.6
7.5°	7016.7	6923.7	6802.9	6533.4	6282.5	5808.5	5162.6	4456.3	4154.2	3875.4	3434.0
10°	8355.0	8094.7	8080.8	7881.0	7606.8	7039.9	6263.9	5385.7	4846.6	4437.7	3745.3
12.5°	9289.0	9052.0	9158.9	9135.6	8880.1	8359.6	7462.8	6301.1	5738.8	5102.2	4066.0
15°	10139.3	10041.8	10009.2	9981.3	9879.1	9493.4	8689.5	7416.3	6603.1	5836.4	4428.4
17.5°	10971.1	10720.2	10841.0	10864.2	10854.9	10506.4	9753.7	8475.8	7518.5	6612.4	4809.4
20°	11710.0	11733.2	11570.6	11538.0	11510.1	11496.2	10762.0	9526.0	8643.1	7425.6	5306.7
22.5°	12657.9	12495.3	12639.3	12546.4	12365.2	12253.6	11691.4	10455.3	9618.9	8406.1	5813.2
25°	13777.8	13907.9	13568.7	13531.5	13331.7	12946.0	12439.5	11496.2	10557.6	9316.9	6361.5
27.5°	15157.9	14930.2	14841.9	14637.5	14275.0	14112.4	13517.6	12569.6	11691.4	10274.1	6891.2
30°	16342.8	16282.4	15841.0	15599.3	15283.4	15278.7	14446.9	14024.1	13169.1	11775.0	7620.8
32.5°	17309.4	17044.5	16881.9	16714.6	16459.0	16528.7	15827.0	15604.0	14744.3	13169.1	8480.4
35°	17955.3	17764.8	17667.2	17411.6	17337.2	17648.6	17355.8	17262.9	16556.6	15130.0	9488.8
37.5°	18159.7	18220.1	18201.6	17880.9	18038.9	18880.0	19256.4	19014.7	18643.0	17197.8	10580.8
40°	18341.0	18382.8	18289.8	18666.2	19117.0	20074.2	21435.7	21036.1	20896.7	19293.6	12100.3
42.5°	18443.2	18410.7	18410.7	19061.2	19744.3	21668.1	23540.7	23275.9	23169.0	21524.0	13856.8
45°	18001.7	17685.8	18025.0	18907.9	20283.3	22453.4	25222.9	25590.0	25436.6	24177.4	15910.7
47.5°	16352.1	16547.3	16737.8	17918.1	19628.1	22211.8	26254.5	27504.5	27787.9	26407.8	17258.3
50°	13856.8	13815.0	14209.9	15696.9	17774.0	21170.9	26054.7	28057.4	28573.2	27077.0	17541.7
52.5°	10078.9	10385.6	10813.1	12290.8	14753.6	18475.7	23475.7	26630.9	27318.6	26254.5	17355.8
55°	5868.9	5529.7	6491.6	7741.6	10065.0	13935.8	19846.5	23605.8	24879.0	24758.2	16417.2
57.5°	2351.3	2276.9	2606.9	3513.0	5250.9	8638.4	14433.0	19395.8	21435.7	22676.4	14428.3
60°	1031.6	1008.4	1184.9	1431.2	2146.8	3982.3	7894.9	12063.1	14191.4	15845.6	9930.2
62.5°	743.5	734.2	822.5	910.8	1133.8	1733.3	3317.8	4860.6	6059.4	7318.7	4447.0
65°	599.4	622.7	683.1	729.5	836.4	961.9	1171.0	1352.2	1658.9	1719.3	980.5
67.5°	487.9	506.5	562.3	613.4	632.0	520.4	539.0	474.0	474.0	422.9	339.2
70°	357.8	362.5	427.5	487.9	390.3	209.1	367.1	367.1	329.9	316.0	288.1
72.5°	264.9	269.5	320.6	302.0	153.3	130.1	269.5	297.4	269.5	255.6	232.3
75°	195.2	199.8	167.3	69.7	65.1	83.6	158.0	204.5	195.2	190.5	176.6
77.5°	37.2	27.9	23.2	32.5	46.5	69.7	102.2	125.5	130.1	139.4	130.1
80°	4.6	4.6	13.9	27.9	51.1	74.3	106.9	120.8	125.5	130.1	120.8
82.5°	0.0	4.6	13.9	27.9	51.1	69.7	92.9	106.9	116.2	120.8	116.2
85°	0.0	4.6	9.3	23.2	41.8	51.1	46.5	32.5	27.9	32.5	23.2
87.5°	0.0	0.0	4.6	4.6	9.3	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°	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5	2927.5
2.5°	2964.7	2946.1	2881.0	2811.3	2750.9	2778.8	2750.9	2727.7	2737.0	2727.7	2718.4
5°	3127.3	3043.7	2904.3	2843.8	2792.7	2788.1	2774.1	2769.5	2774.1	2774.1	2732.3
7.5°	3280.6	3145.9	2997.2	2932.1	2871.7	2876.4	2843.8	2843.8	2839.2	2816.0	2806.7
10°	3513.0	3331.8	3141.2	3025.1	2950.7	2936.8	2904.3	2871.7	2871.7	2871.7	2825.3
12.5°	3768.6	3540.9	3280.6	3145.9	3057.6	2987.9	2936.8	2927.5	2876.4	2867.1	2843.8
15°	3991.6	3703.5	3373.6	3187.7	3076.2	2983.3	2904.3	2853.1	2829.9	2816.0	2797.4
17.5°	4210.0	3842.9	3424.7	3187.7	3066.9	2960.0	2876.4	2829.9	2774.1	2783.4	2746.3
20°	4502.8	3991.6	3438.6	3127.3	2978.6	2876.4	2764.9	2741.6	2709.1	2681.2	2690.5
22.5°	4786.2	4098.5	3396.8	3053.0	2839.2	2718.4	2662.6	2634.7	2620.8	2597.6	2565.0
25°	5041.8	4214.7	3331.8	2918.2	2690.5	2602.2	2551.1	2546.5	2513.9	2513.9	2453.5
27.5°	5302.0	4256.5	3220.2	2760.2	2560.4	2509.3	2486.0	2476.7	2462.8	2430.3	2388.5
30°	5599.4	4270.4	3057.6	2597.6	2444.2	2388.5	2421.0	2444.2	2383.8	2323.4	2342.0
32.5°	5845.7	4237.9	2862.4	2444.2	2360.6	2332.7	2397.8	2421.0	2351.3	2286.2	2253.7
35°	6143.1	4158.9	2671.9	2323.4	2276.9	2332.7	2388.5	2388.5	2249.1	2170.1	2151.5
37.5°	6593.8	4070.6	2495.3	2221.2	2188.6	2304.8	2379.2	2328.1	2109.7	2012.1	1988.8
40°	7077.1	4014.8	2323.4	2118.9	2142.2	2258.3	2300.2	2142.2	1919.1	1858.7	1840.1
42.5°	7778.8	3903.3	2170.1	2030.7	2100.4	2193.3	2193.3	1909.8	1826.2	1793.7	1789.0
45°	8652.4	3824.3	2035.3	1956.3	2039.9	2063.2	1988.8	1789.0	1728.6	1719.3	1724.0
47.5°	9079.9	3671.0	1895.9	1868.0	1928.4	1933.1	1737.9	1691.4	1640.3	1626.4	1617.1
50°	9014.8	3396.8	1714.7	1751.8	1835.5	1789.0	1584.6	1593.9	1547.4	1542.7	1519.5
52.5°	8559.4	2964.7	1533.4	1621.7	1714.7	1579.9	1459.1	1449.8	1449.8	1389.4	1366.2
55°	7588.2	2388.5	1315.0	1426.6	1538.1	1329.0	1296.5	1287.2	1263.9	1208.2	1194.2
57.5°	6008.3	1751.8	989.8	1110.6	1305.8	1129.2	1124.5	1082.7	1022.3	980.5	980.5
60°	3573.4	1008.4	622.7	678.4	864.3	915.4	1017.7	999.1	896.8	831.8	813.2
62.5°	1631.0	520.4	395.0	404.3	464.7	594.8	799.3	924.7	780.7	669.1	659.8
65°	548.3	385.7	325.3	311.3	320.6	357.8	478.6	655.2	622.7	515.8	497.2
67.5°	334.6	343.9	306.7	283.5	283.5	278.8	274.2	297.4	367.1	357.8	362.5
70°	288.1	316.0	283.5	255.6	246.3	232.3	195.2	162.6	139.4	162.6	171.9
72.5°	232.3	250.9	241.6	218.4	195.2	176.6	139.4	106.9	79.0	69.7	69.7
75°	171.9	185.9	195.2	167.3	148.7	125.5	102.2	69.7	41.8	27.9	27.9
77.5°	125.5	139.4	144.1	130.1	111.5	88.3	65.1	46.5	23.2	9.3	9.3
80°	106.9	125.5	139.4	130.1	116.2	83.6	60.4	32.5	18.6	4.6	4.6
82.5°	102.2	125.5	139.4	125.5	111.5	79.0	60.4	37.2	13.9	4.6	4.6
85°	23.2	32.5	41.8	51.1	60.4	60.4	46.5	27.9	13.9	4.6	4.6
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	4.6	4.6	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)