

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: P528401

Luminaire Tested: **GALN-SA3C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10675 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

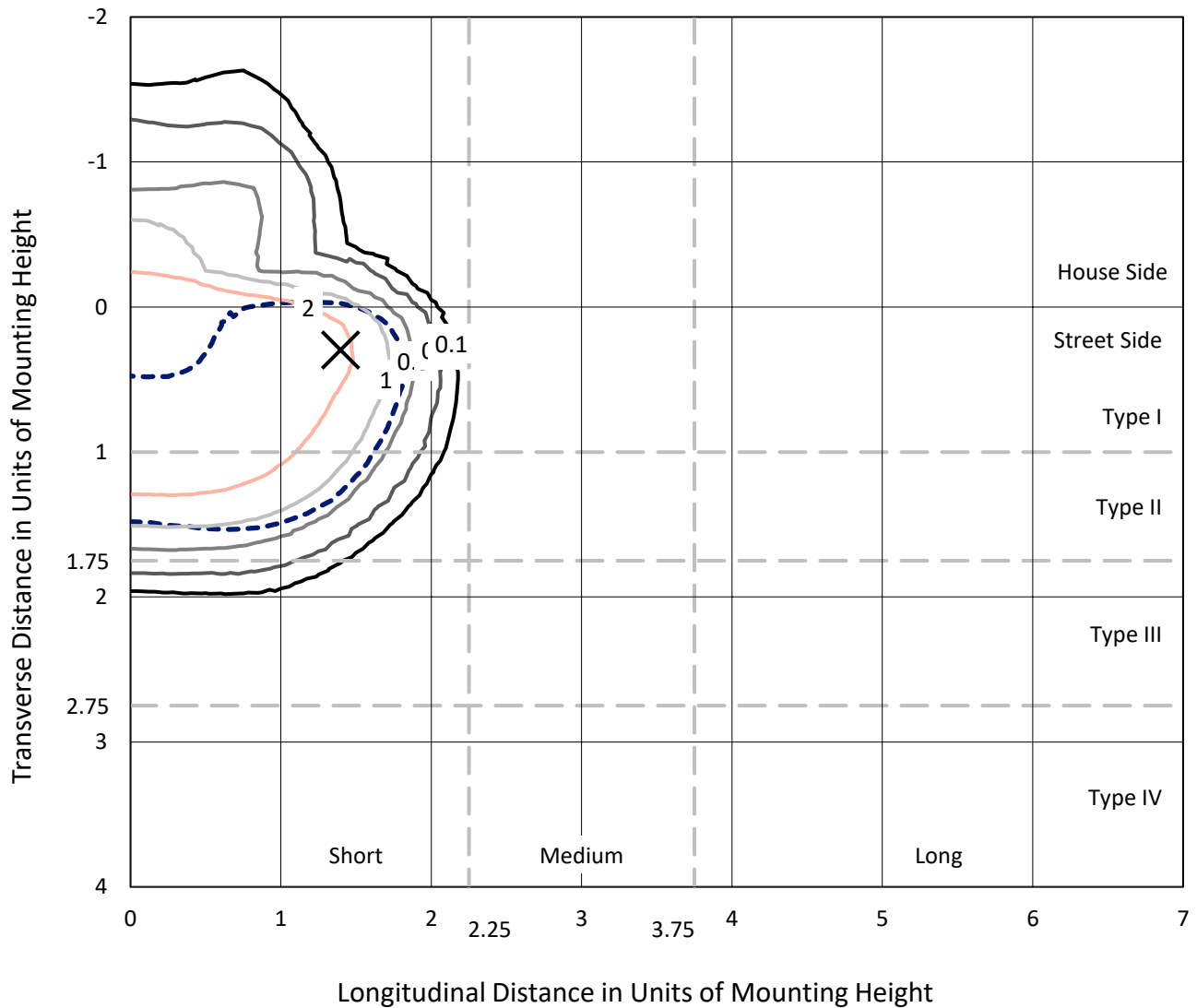
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

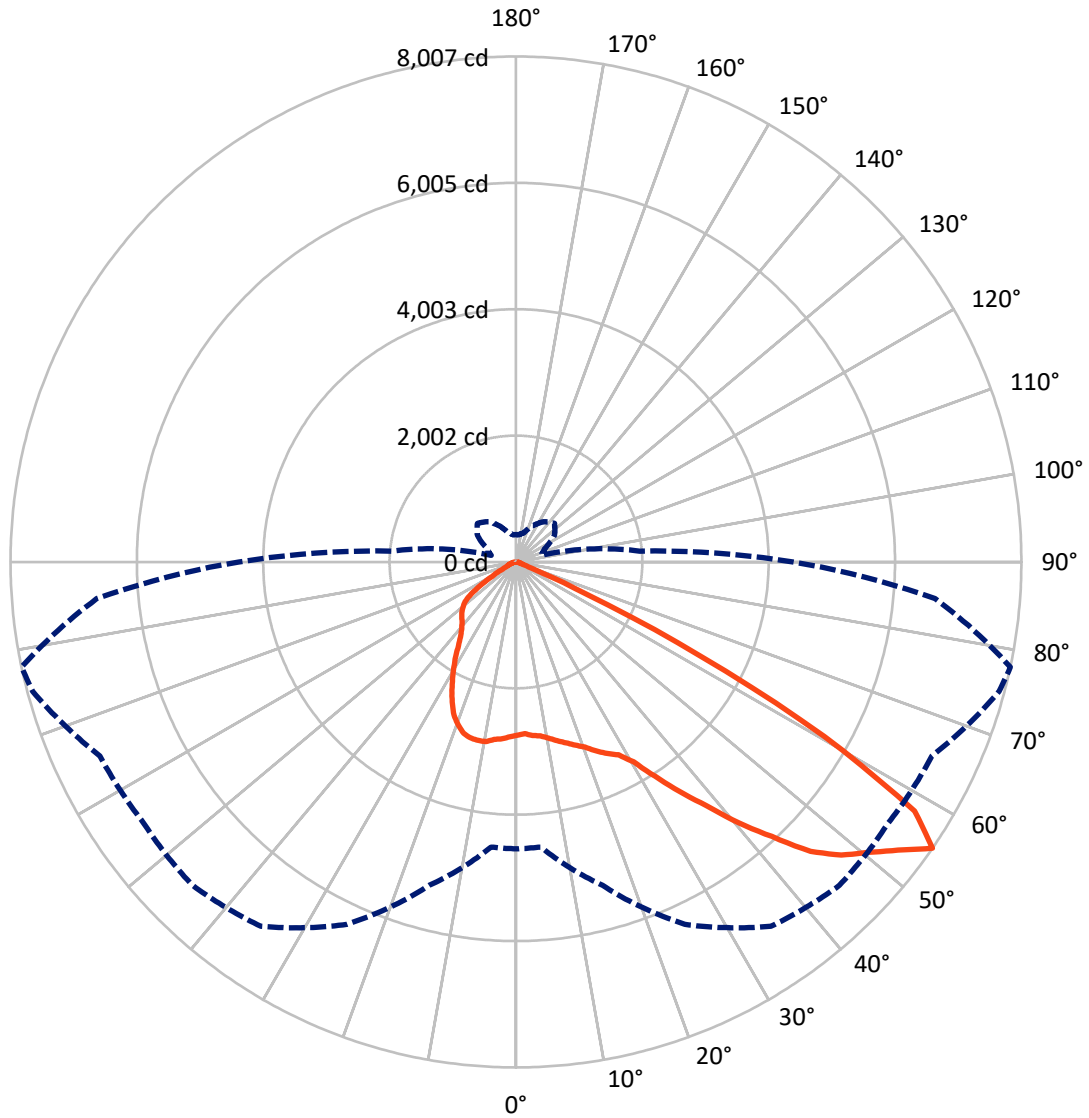
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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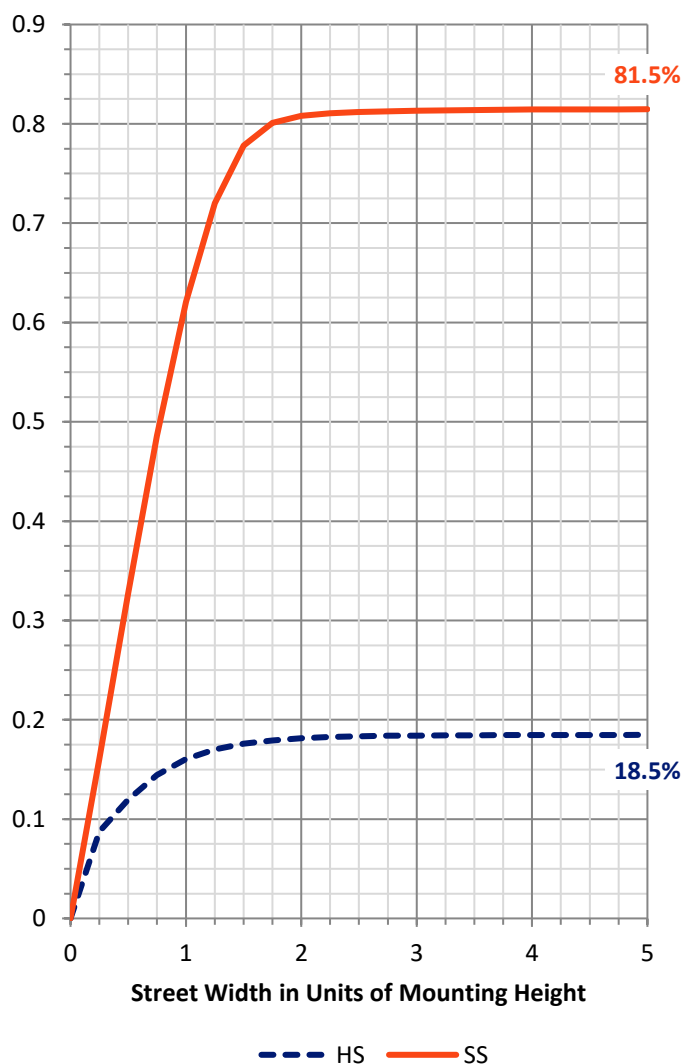
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1982.8	0.0	1982.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8692.2	0.0	8692.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10675.0	0.0	10675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.7	2.3
10°-20°	647.7	6.1
20°-30°	1135.3	10.6
30°-40°	1871.9	17.5
40°-50°	2723.8	25.5
50°-60°	3086.4	28.9
60°-70°	882.5	8.3
70°-80°	68.5	0.6
80°-90°	14.3	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°	10675.0	100.0
0°-180°	10675.0	100.0

**Coefficient of Utilization**



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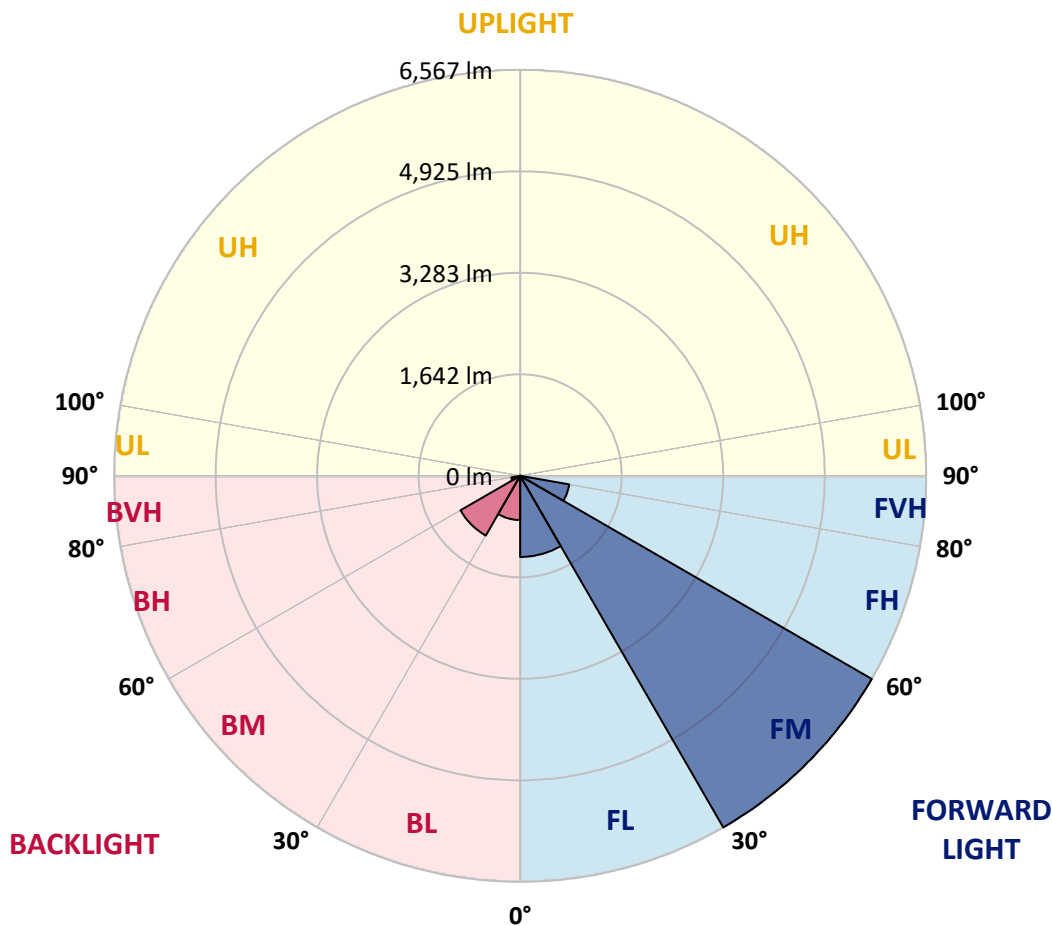
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.3	12.3			
FM (30°-60°)	6566.8	61.5			
FH (60°-80°)	806.2	7.6			G1/1800
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	715.4	6.7	B2/1000		
BM (30°-60°)	1115.3	10.4	B2/2500		
BH (60°-80°)	144.7	1.4	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2580.4	2605.2	2609.0	2639.6	2637.7	2689.2	2704.5	2706.4	2740.7	2723.6	2767.5
5°	2507.9	2494.5	2488.8	2542.2	2557.5	2603.3	2641.5	2664.4	2735.0	2759.8	2805.6
7.5°	2443.0	2443.0	2446.8	2494.5	2488.8	2548.0	2588.0	2658.7	2761.7	2782.7	2838.1
10°	2380.0	2357.1	2385.7	2435.4	2477.3	2504.1	2588.0	2654.8	2775.1	2836.2	2912.5
12.5°	2347.6	2359.0	2362.8	2399.1	2444.9	2525.1	2570.9	2681.6	2870.5	2906.8	2988.8
15°	2551.8	2528.9	2473.5	2441.1	2479.3	2517.4	2631.9	2744.5	2920.1	2971.7	3063.3
17.5°	2788.4	2769.4	2723.6	2635.8	2549.9	2620.5	2710.2	2813.3	2973.6	3049.9	3185.4
20°	3097.6	3067.1	3021.3	2849.5	2775.1	2698.7	2794.2	2916.3	3061.4	3130.1	3269.4
22.5°	3466.0	3466.0	3362.9	3154.9	3000.3	2927.8	2967.9	3038.5	3158.7	3252.2	3389.7
25°	3849.6	3838.2	3744.6	3529.0	3267.5	3181.6	3227.4	3277.0	3309.5	3361.0	3452.6
27.5°	4288.6	4221.8	4103.5	3864.9	3634.0	3467.9	3517.5	3473.6	3433.5	3460.3	3592.0
30°	4586.3	4628.3	4477.5	4248.5	4030.9	3845.8	3855.3	3817.2	3634.0	3672.1	3750.4
32.5°	4895.5	4922.2	4838.3	4712.3	4494.7	4279.1	4200.8	4168.4	4030.9	4048.1	3971.8
35°	5153.2	5204.7	5130.3	5074.9	5012.0	4838.3	4622.6	4727.6	4506.2	4464.2	4265.7
37.5°	5389.9	5374.6	5462.4	5405.1	5391.8	5269.6	5032.9	5053.9	4905.1	4895.5	4666.5
40°	5601.7	5605.5	5725.8	5752.5	5699.0	5481.5	5137.9	5304.0	5424.2	5435.7	5141.7
42.5°	5777.3	5828.8	5931.9	6147.6	6067.4	5704.8	5246.7	5428.0	5874.6	5945.2	5592.2
45°	5930.0	6035.0	6162.8	6355.6	6309.8	6021.6	5517.7	5683.8	6355.6	6540.7	6015.9
47.5°	5939.5	6076.9	6216.3	6502.6	6559.8	6191.5	5798.3	6088.4	6737.3	6937.7	6325.1
50°	5901.4	5973.9	6252.5	6563.6	6693.4	6468.2	6191.5	6428.1	7107.6	7233.5	6481.6
52.5°	5449.0	5504.4	6063.6	6620.9	6933.9	6781.2	6712.5	6901.5	7485.5	7579.0	6628.5
55°	4542.4	4532.9	5302.1	6332.7	7044.6	7245.0	7203.0	7269.8	7922.5	8006.5	6664.8
57.5°	3107.2	3280.9	3945.1	5273.4	6367.0	7136.2	7180.1	7069.4	7413.0	7445.4	5809.7
60°	1675.7	1748.3	2282.7	3519.4	4847.8	5815.5	5930.0	5729.6	5702.9	5611.2	4147.4
62.5°	666.1	702.4	1005.8	1742.5	2641.5	3534.7	3780.9	3698.8	3523.3	3282.8	2147.2
65°	316.8	339.7	500.0	815.0	1171.9	1473.4	1719.6	1796.0	1324.6	1192.9	708.1
67.5°	215.7	232.8	364.5	465.7	418.0	437.1	568.8	528.7	311.1	265.3	196.6
70°	164.1	175.6	292.0	316.8	187.0	131.7	147.0	137.4	127.9	129.8	127.9
72.5°	116.4	126.0	213.8	187.0	82.1	61.1	78.3	93.5	93.5	93.5	91.6
75°	70.6	80.2	124.1	72.5	32.4	32.4	49.6	63.0	66.8	68.7	64.9
77.5°	36.3	45.8	42.0	21.0	21.0	24.8	36.3	43.9	47.7	47.7	45.8
80°	7.6	7.6	7.6	11.5	21.0	26.7	36.3	40.1	45.8	45.8	42.0
82.5°	0.0	1.9	5.7	11.5	19.1	24.8	34.4	40.1	45.8	47.7	43.9
85°	0.0	1.9	3.8	7.6	13.4	15.3	13.4	11.5	11.5	11.5	11.5
87.5°	0.0	0.0	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2771.3	2777.0	2767.5	2765.5	2757.9	2780.8	2725.5	2712.1	2746.5	2714.0	2721.6
5°	2807.5	2820.9	2803.7	2775.1	2733.1	2668.2	2612.9	2540.3	2506.0	2481.2	2477.3
7.5°	2834.3	2843.8	2826.6	2735.0	2609.0	2444.9	2322.8	2233.0	2162.4	2141.4	2107.1
10°	2943.0	2945.0	2859.1	2656.8	2410.5	2194.9	2007.8	1870.4	1799.8	1755.9	1736.8
12.5°	3015.6	3011.8	2838.1	2502.2	2173.9	1887.6	1673.8	1507.8	1442.9	1421.9	1408.5
15°	3107.2	3086.2	2788.4	2343.7	1868.5	1559.3	1366.5	1252.0	1246.3	1232.9	1246.3
17.5°	3179.7	3120.5	2715.9	2055.5	1576.5	1284.5	1158.5	1166.1	1181.4	1194.8	1196.7
20°	3298.0	3175.9	2549.9	1803.6	1305.5	1101.3	1099.3	1133.7	1171.9	1187.1	1202.4
22.5°	3387.7	3198.8	2372.4	1534.5	1084.1	1026.8	1059.3	1110.8	1139.4	1154.7	1177.6
25°	3420.2	3135.8	2135.7	1265.4	977.2	992.5	1042.1	1076.4	1112.7	1129.9	1120.3
27.5°	3452.6	3103.4	1853.2	1042.1	919.9	969.6	1011.6	1045.9	1057.4	1080.3	1095.5
30°	3530.9	2990.8	1599.4	900.9	891.3	954.3	984.8	996.3	1026.8	1040.2	1040.2
32.5°	3593.9	2946.9	1330.3	834.1	887.5	961.9	965.7	965.7	969.6	960.0	956.2
35°	3723.7	2796.1	1089.8	794.0	885.6	963.8	973.4	940.9	853.1	818.8	809.2
37.5°	3884.0	2698.7	912.3	784.4	898.9	986.7	1002.0	879.9	765.3	710.0	700.5
40°	4078.7	2630.0	795.9	780.6	929.5	1040.2	994.4	832.1	683.3	603.1	599.3
42.5°	4305.8	2567.1	717.6	778.7	967.7	1095.5	986.7	792.1	599.3	545.9	553.5
45°	4487.1	2532.7	664.2	765.3	981.0	1128.0	992.5	721.4	564.9	530.6	534.4
47.5°	4628.3	2460.2	620.3	742.4	979.1	1139.4	940.9	692.8	547.8	557.3	566.9
50°	4632.1	2362.8	564.9	692.8	950.5	1118.4	881.8	666.1	543.9	584.0	603.1
52.5°	4580.6	2225.4	505.8	622.2	883.7	1045.9	828.3	654.6	526.8	523.0	545.9
55°	4397.4	1967.8	406.5	503.9	746.3	862.7	780.6	633.7	475.2	431.3	435.2
57.5°	3553.8	1410.4	299.6	360.7	528.7	631.7	704.3	624.1	427.5	366.4	368.4
60°	2200.6	799.7	219.5	246.2	326.4	383.6	570.7	580.2	381.7	309.2	305.4
62.5°	1129.9	395.1	169.9	173.7	200.4	225.2	391.3	486.7	345.5	293.9	293.9
65°	377.9	194.7	148.9	133.6	133.6	139.3	236.7	337.8	292.0	246.2	246.2
67.5°	162.2	145.1	129.8	116.4	106.9	101.2	133.6	196.6	217.6	187.0	179.4
70°	126.0	122.1	112.6	97.3	84.0	76.3	78.3	101.2	124.1	120.2	116.4
72.5°	93.5	93.5	89.7	76.3	64.9	55.3	51.5	53.4	59.2	61.1	63.0
75°	64.9	66.8	66.8	59.2	47.7	40.1	34.4	28.6	22.9	19.1	17.2
77.5°	43.9	45.8	49.6	43.9	36.3	26.7	21.0	15.3	9.5	3.8	3.8
80°	38.2	43.9	47.7	43.9	38.2	28.6	21.0	11.5	5.7	0.0	0.0
82.5°	40.1	43.9	49.6	42.0	36.3	26.7	21.0	13.4	5.7	1.9	0.0
85°	9.5	9.5	11.5	13.4	17.2	19.1	15.3	9.5	5.7	1.9	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	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)