

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: P531437

Luminaire Tested: **GALN-SA6D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22631 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

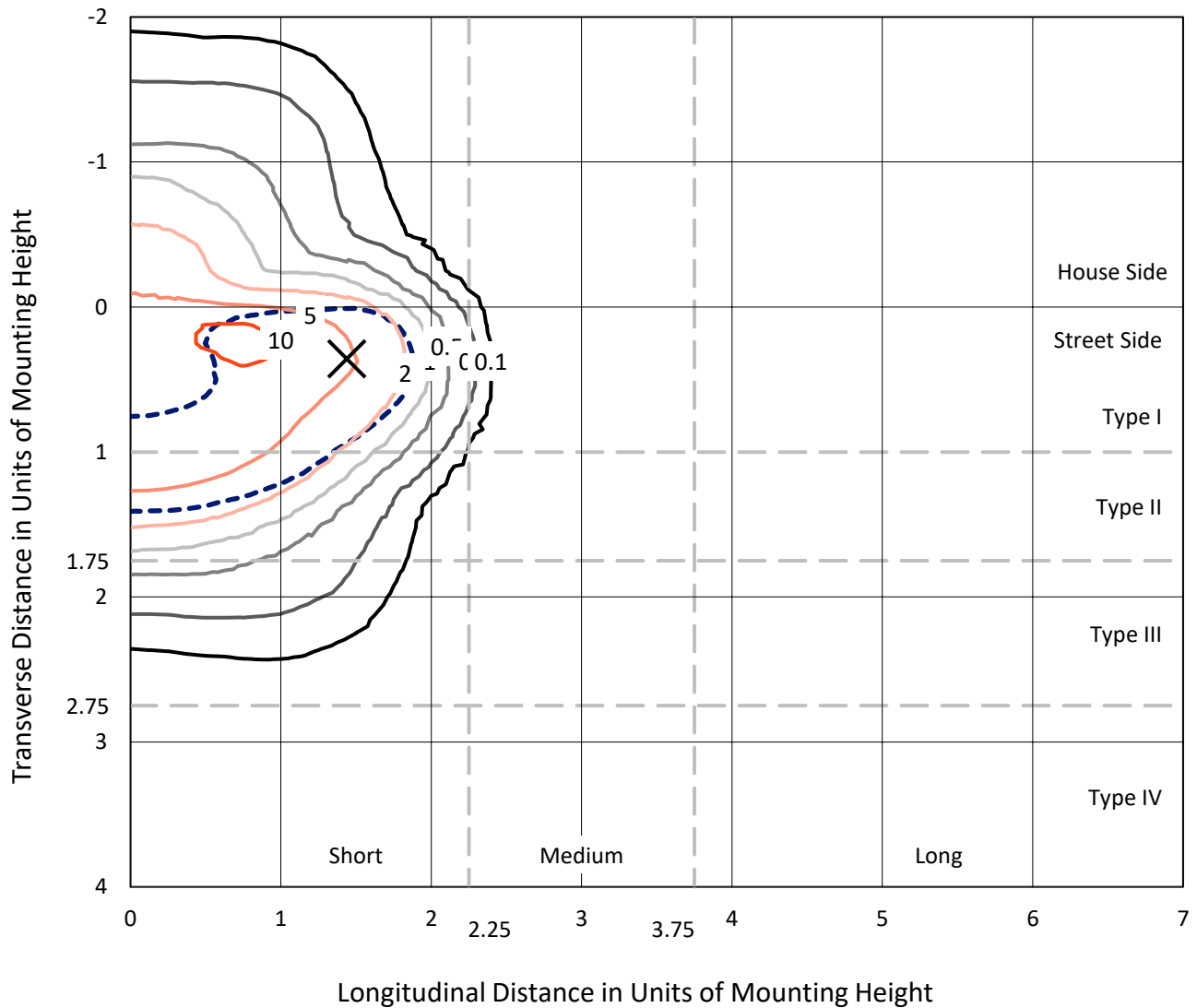
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

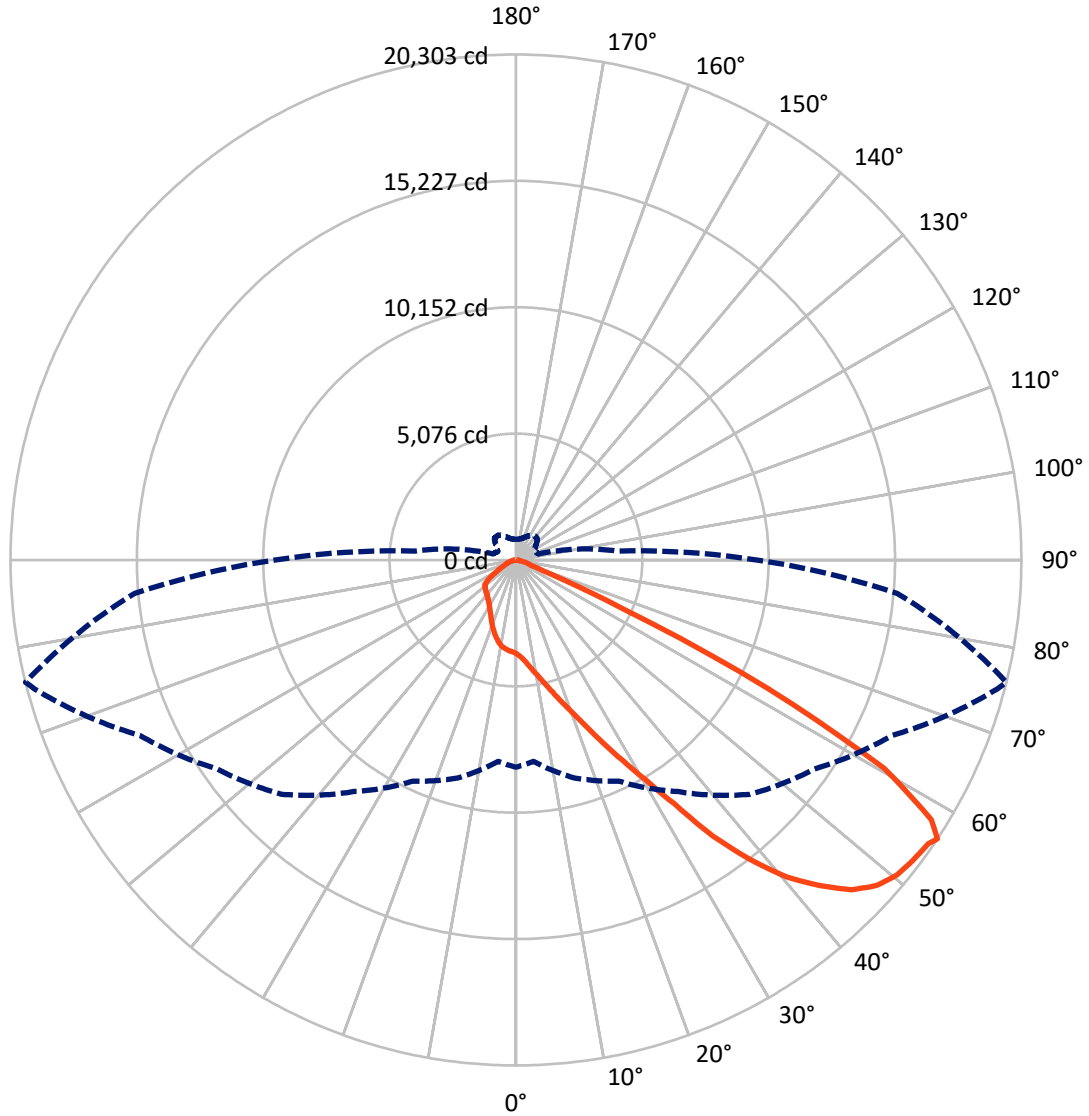
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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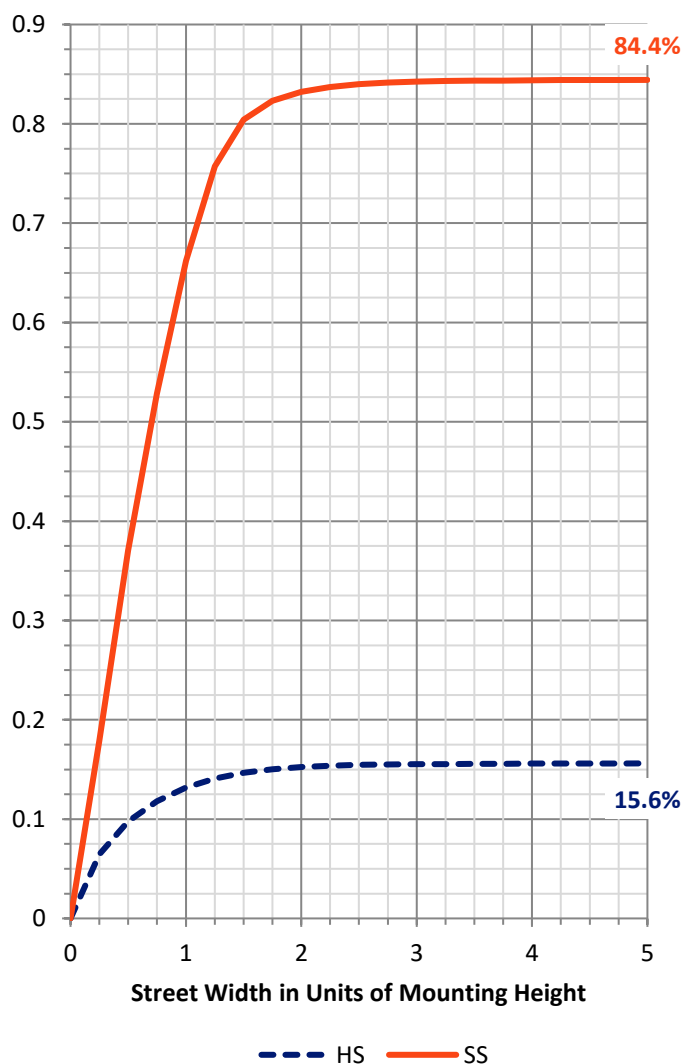
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3555.2	0.0	3555.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	19075.8	0.0	19075.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22631.0	0.0	22631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.5	1.7
10°-20°	1219.1	5.4
20°-30°	2210.5	9.8
30°-40°	3812.2	16.8
40°-50°	6193.0	27.4
50°-60°	6527.7	28.8
60°-70°	1994.5	8.8
70°-80°	255.7	1.1
80°-90°	38.9	0.2
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°	22631.0	100.0
0°-180°	22631.0	100.0

**Coefficient of Utilization**

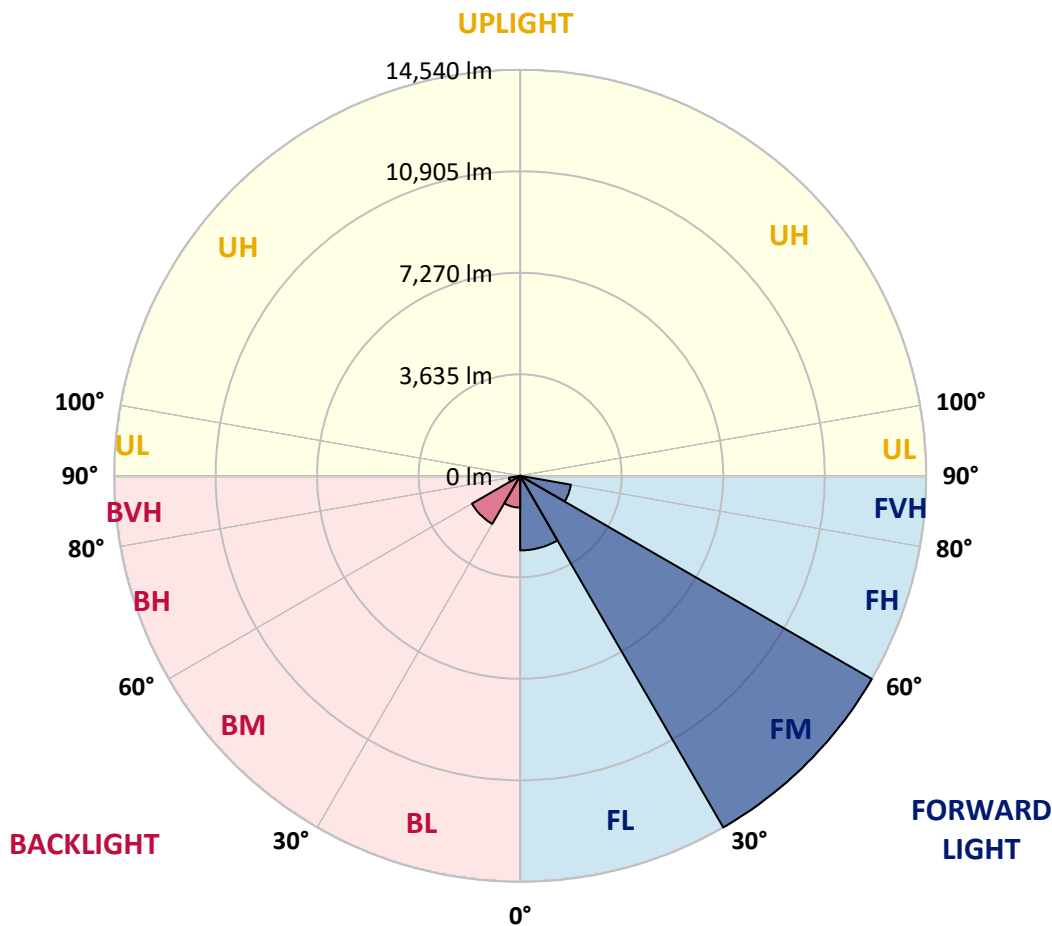


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2671.8	11.8			
FM (30°-60°)	14540.4	64.2			
FH (60°-80°)	1844.6	8.2			G2/5000
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1137.3	5.0	B3/2500		
BM (30°-60°)	1992.5	8.8	B2/2500		
BH (60°-80°)	405.6	1.8	B1/500		G1/500
BVH (80°-90°)	19.8	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°	55°	65°	75°	76°	85°
0°	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0
2.5°	4338.5	4238.4	4242.5	4234.2	4221.7	4175.8	4038.1	4017.3	3925.5	3900.5	3817.0
5°	4859.9	4772.3	4822.4	4747.3	4676.4	4634.7	4409.4	4305.1	4159.1	4104.9	3988.1
7.5°	5185.3	5143.6	5126.9	5131.1	5064.3	4960.0	4859.9	4630.5	4434.4	4392.7	4146.6
10°	5343.8	5318.8	5343.8	5331.3	5360.5	5373.0	5197.8	5060.2	4772.3	4701.4	4317.6
12.5°	5381.4	5431.4	5452.3	5506.5	5577.4	5698.4	5685.9	5498.2	5114.4	5068.5	4580.4
15°	5473.2	5514.9	5494.0	5581.6	5715.1	5919.5	6028.0	5998.8	5585.8	5502.4	4885.0
17.5°	5556.6	5481.5	5552.4	5727.6	5861.1	6174.0	6436.8	6557.8	6098.9	6002.9	5164.5
20°	5669.2	5648.4	5635.8	5723.4	5961.2	6378.4	6899.8	7120.9	6674.6	6574.5	5564.9
22.5°	6011.3	6015.5	6007.1	5877.8	6048.8	6520.2	7304.5	7851.0	7362.9	7279.5	6019.6
25°	6461.8	6407.6	6365.9	6261.6	6240.7	6649.5	7713.3	8743.7	8188.9	8130.5	6511.9
27.5°	6937.4	6937.4	6812.2	6716.3	6582.8	6970.8	8088.8	9611.4	9185.9	9106.6	6941.6
30°	7454.7	7483.9	7467.2	7262.8	7179.3	7321.2	8472.5	10721.0	10328.9	10228.8	7650.7
32.5°	8218.1	8155.5	8226.4	8055.4	7809.3	7934.4	9077.4	11713.9	11814.0	11672.2	8581.0
35°	9227.6	9190.1	9144.2	8864.7	8572.7	8672.8	9932.6	12936.2	13678.7	13607.8	9519.6
37.5°	10132.8	10112.0	10074.4	9882.5	9544.6	9665.6	10904.6	14208.5	15497.5	15263.9	10846.2
40°	11084.0	11196.6	11075.6	10904.6	10595.9	10862.9	12047.6	14963.6	17028.5	16744.8	11859.9
42.5°	12373.0	12285.4	12339.6	12026.8	11859.9	12151.9	13194.8	15718.6	18217.4	17879.5	12936.2
45°	13745.5	13749.6	13603.6	13503.5	13069.7	13386.7	13899.8	16135.8	19164.4	18901.6	13749.6
47.5°	14625.7	14621.5	14780.0	14938.5	14492.2	14179.3	14379.5	16532.1	19652.5	19531.5	14045.8
50°	14488.0	14529.7	14734.1	15326.5	15560.1	15138.8	14830.1	16415.3	19873.6	19861.0	14300.3
52.5°	12602.4	12740.1	13082.2	13937.3	15113.7	15635.2	15301.5	16632.2	19982.0	20002.9	14679.9
55°	9594.7	9669.8	10320.6	11359.3	12660.8	14446.3	15113.7	16803.2	20065.4	20103.0	15138.8
56°	8322.4	8122.1	9060.7	9799.1	11355.1	13307.4	14638.2	16669.8	20015.4	20303.2	15368.2
57.5°	6282.4	6149.0	6908.2	7830.1	9327.7	11388.5	13161.4	16039.8	19677.5	19673.3	15038.7
60°	3821.2	3687.7	4271.7	4814.0	5652.5	7012.5	8893.9	12773.5	16636.4	16986.8	12176.9
62.5°	2273.5	2357.0	2932.6	3262.2	3533.4	3675.2	4601.3	7592.3	11100.7	11351.0	7554.8
65°	1514.3	1543.5	1977.3	2519.7	2640.6	2102.5	1873.1	3074.5	4814.0	4659.7	3116.2
67.5°	934.4	1001.2	1326.6	1893.9	2098.3	1535.2	888.6	1147.2	1326.6	1326.6	901.1
70°	567.3	600.7	884.4	1289.0	1439.2	988.7	646.6	646.6	638.3	625.7	538.1
72.5°	271.2	292.0	450.5	663.3	675.8	521.5	500.6	546.5	534.0	529.8	446.4
75°	116.8	125.1	158.5	208.6	237.8	221.1	304.5	392.1	404.6	392.1	321.2
77.5°	37.5	41.7	58.4	75.1	79.3	95.9	129.3	162.7	187.7	175.2	158.5
80°	4.2	8.3	16.7	37.5	58.4	75.1	95.9	108.5	121.0	121.0	112.6
82.5°	4.2	4.2	16.7	33.4	54.2	70.9	91.8	104.3	121.0	125.1	116.8
85°	0.0	4.2	12.5	29.2	45.9	45.9	41.7	41.7	29.2	29.2	29.2
87.5°	0.0	0.0	4.2	4.2	4.2	8.3	8.3	8.3	8.3	8.3	8.3
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°	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0	3767.0
2.5°	3800.3	3792.0	3679.4	3608.4	3570.9	3495.8	3449.9	3416.5	3391.5	3362.3	3366.5
5°	3850.4	3821.2	3633.5	3504.2	3349.8	3266.4	3195.5	3137.1	3099.5	3091.2	3074.5
7.5°	3992.2	3837.9	3554.2	3320.6	3124.5	3041.1	2978.5	2941.0	2957.7	2920.1	2949.3
10°	4100.7	3871.3	3458.3	3120.4	2924.3	2861.7	2828.4	2857.6	2899.3	2882.6	2861.7
12.5°	4234.2	3904.6	3303.9	2928.5	2744.9	2699.0	2757.4	2811.7	2895.1	2928.5	2886.8
15°	4384.4	3942.2	3107.8	2707.4	2590.6	2628.1	2728.2	2824.2	2907.6	2949.3	2974.4
17.5°	4567.9	3929.7	2916.0	2532.2	2444.6	2553.0	2674.0	2761.6	2886.8	2949.3	2932.6
20°	4738.9	3887.9	2703.2	2357.0	2361.1	2461.2	2561.4	2703.2	2769.9	2853.4	2824.2
22.5°	4901.6	3812.9	2482.1	2236.0	2236.0	2390.3	2440.4	2532.2	2590.6	2632.3	2628.1
25°	5131.1	3671.0	2298.6	2119.2	2169.2	2269.4	2311.1	2340.3	2315.2	2348.6	2352.8
27.5°	5293.8	3525.0	2148.4	2014.9	2106.7	2181.8	2169.2	2152.6	2094.1	2048.3	2077.5
30°	5469.0	3354.0	2019.1	1944.0	1994.0	2060.8	2010.7	1960.7	1868.9	1793.8	1798.0
32.5°	5719.3	3274.7	1906.4	1860.5	1927.3	1935.6	1881.4	1806.3	1714.5	1643.6	1639.4
35°	6186.5	3224.7	1810.5	1806.3	1818.8	1823.0	1768.8	1677.0	1639.4	1581.0	1601.9
37.5°	6653.7	3199.6	1743.7	1727.0	1722.9	1727.0	1664.5	1576.9	1647.8	1643.6	1652.0
40°	7250.3	3312.3	1647.8	1626.9	1631.1	1631.1	1551.8	1526.8	1652.0	1664.5	1668.6
42.5°	7855.1	3454.1	1585.2	1518.5	1535.2	1535.2	1493.4	1464.2	1551.8	1468.4	1455.9
45°	8380.8	3662.7	1518.5	1410.0	1451.7	1472.6	1460.1	1410.0	1355.8	1213.9	1213.9
47.5°	8551.8	3846.2	1439.2	1305.7	1339.1	1430.9	1393.3	1289.0	1193.1	1076.3	1067.9
50°	8852.2	4046.5	1376.6	1184.7	1255.7	1368.3	1330.7	1226.5	1118.0	1034.6	1038.7
52.5°	9160.9	4275.9	1259.8	1042.9	1130.5	1318.2	1318.2	1201.4	1034.6	976.2	967.8
55°	9623.9	4267.6	1051.2	855.2	1009.5	1243.1	1264.0	1076.3	926.1	880.2	880.2
56°	9690.7	4075.7	947.0	800.9	955.3	1222.3	1226.5	1042.9	884.4	834.3	834.3
57.5°	9190.1	3679.4	830.2	734.2	888.6	1184.7	1188.9	1013.7	851.0	780.1	771.7
60°	7070.9	2490.5	692.5	654.9	805.1	1067.9	1088.8	921.9	746.7	692.5	688.3
62.5°	3992.2	1380.8	609.1	592.4	692.5	909.4	972.0	805.1	634.1	604.9	613.2
65°	1823.0	759.2	513.1	479.7	559.0	700.8	784.3	663.3	521.5	488.1	488.1
67.5°	667.5	517.3	438.0	379.6	392.1	454.7	508.9	429.7	346.2	296.2	308.7
70°	475.6	433.8	383.8	329.6	304.5	296.2	292.0	242.0	171.0	133.5	141.8
72.5°	383.8	358.8	321.2	279.5	237.8	200.2	171.0	125.1	79.3	54.2	50.1
75°	275.3	262.8	233.6	200.2	166.9	141.8	116.8	79.3	41.7	20.9	20.9
77.5°	141.8	141.8	137.7	125.1	104.3	83.4	66.7	45.9	25.0	8.3	8.3
80°	108.5	116.8	121.0	108.5	95.9	75.1	54.2	33.4	16.7	4.2	4.2
82.5°	104.3	121.0	129.3	112.6	95.9	70.9	54.2	33.4	16.7	4.2	4.2
85°	25.0	25.0	37.5	41.7	54.2	58.4	45.9	29.2	12.5	4.2	4.2
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	4.2	4.2	4.2	4.2	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)