

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: P531595

Luminaire Tested: **GALN-SA6D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531595  
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-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 22303 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

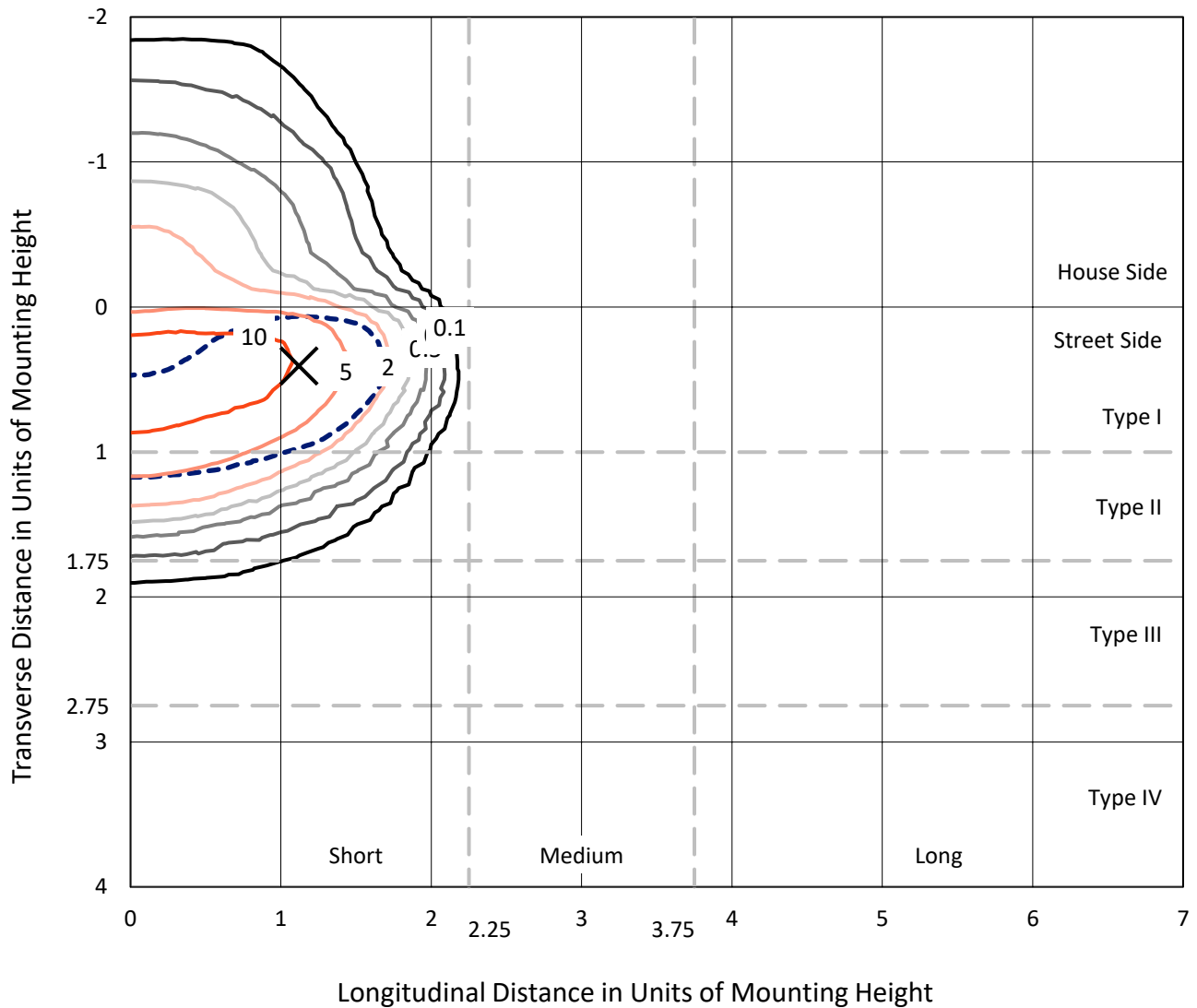
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

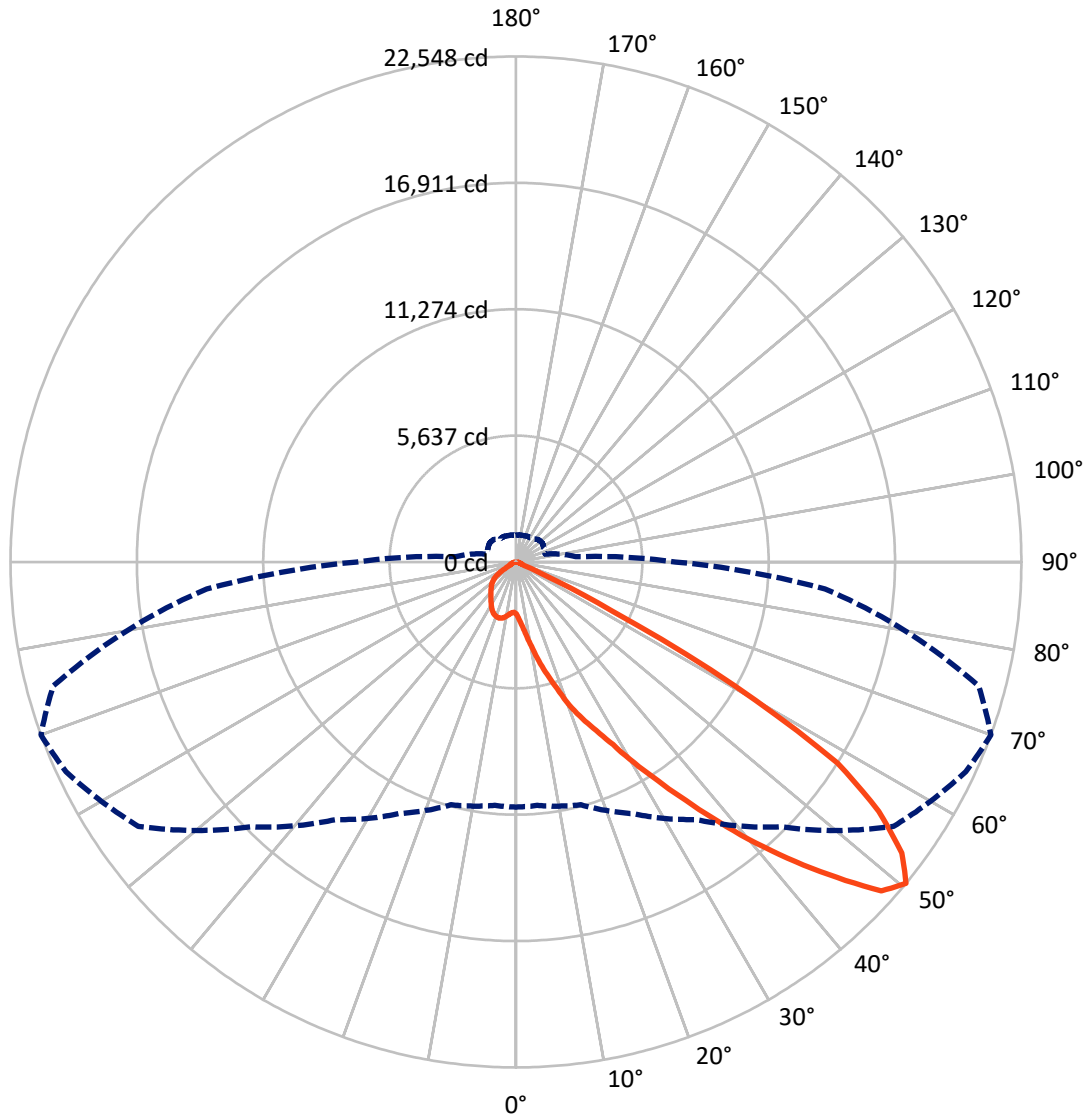
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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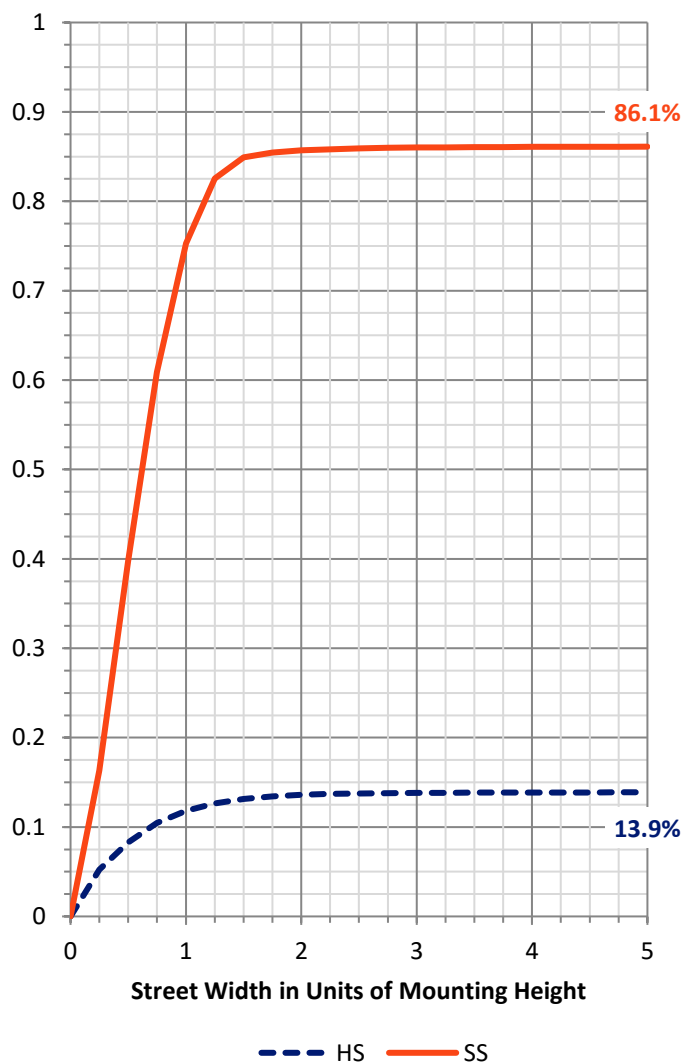
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3114.8	0.0	3114.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	19188.2	0.0	19188.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	22303.0	0.0	22303.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.4	1.3
10°-20°	1299.4	5.8
20°-30°	2726.0	12.2
30°-40°	4698.7	21.1
40°-50°	6867.1	30.8
50°-60°	5348.4	24.0
60°-70°	906.2	4.1
70°-80°	124.5	0.6
80°-90°	32.2	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°	22303.0	100.0
0°-180°	22303.0	100.0

**Coefficient of Utilization**



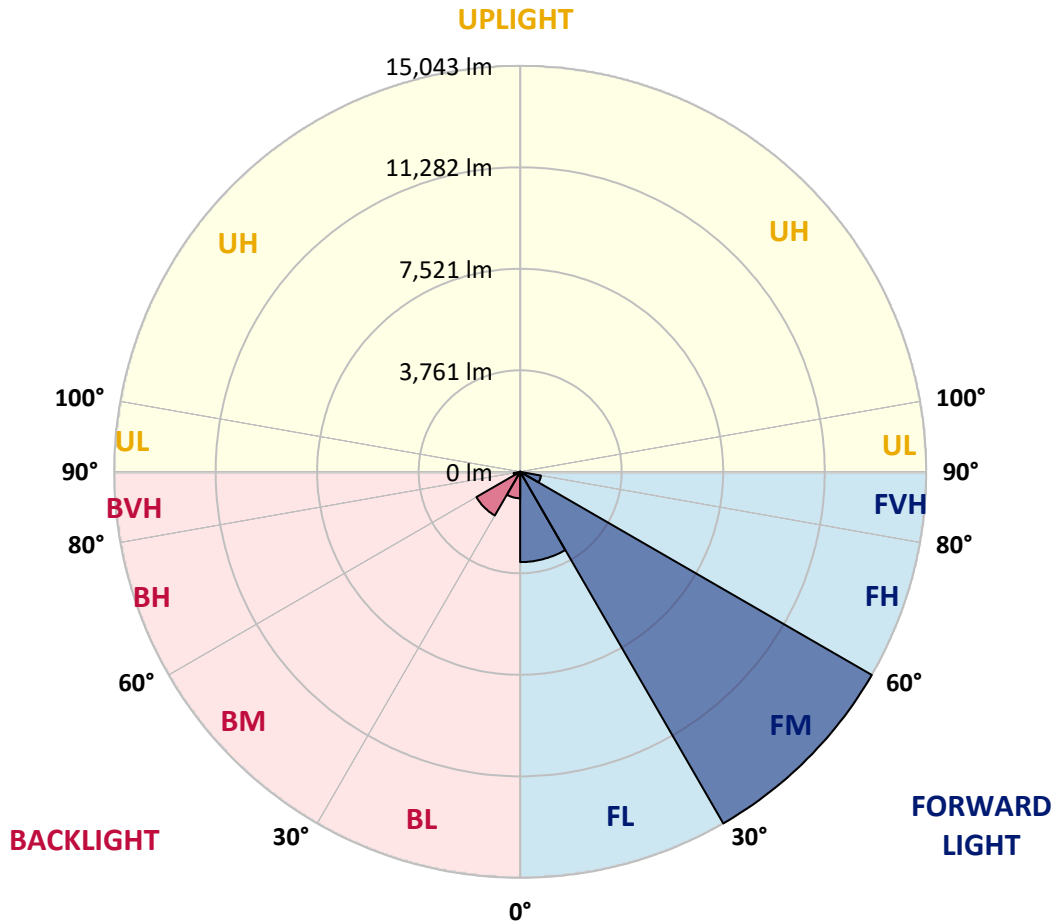
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.7	15.0			
FM (30°-60°)	15043.0	67.4			
FH (60°-80°)	784.6	3.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	980.1	4.4	B2/1000		
BM (30°-60°)	1871.2	8.4	B2/2500		
BH (60°-80°)	246.0	1.1	B1/500		G1/500
BVH (80°-90°)	17.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2
2.5°	3025.2	3003.2	2955.5	2867.5	2830.9	2742.8	2691.5	2592.5	2530.2	2460.5	2383.5
5°	4260.9	4147.3	4077.6	3978.6	3688.9	3509.2	3212.2	2959.2	2841.9	2713.5	2537.5
7.5°	5537.0	5463.7	5368.4	5155.7	4957.7	4583.6	4073.9	3516.6	3278.2	3058.2	2709.8
10°	6593.1	6387.8	6376.8	6219.1	6002.7	5555.4	4943.0	4249.9	3824.6	3501.9	2955.5
12.5°	7330.1	7143.1	7227.5	7209.1	7007.5	6596.8	5889.1	4972.3	4528.6	4026.3	3208.5
15°	8001.2	7924.2	7898.5	7876.5	7795.8	7491.5	6857.1	5852.4	5210.7	4605.6	3494.6
17.5°	8657.6	8459.6	8554.9	8573.2	8565.9	8290.9	7696.8	6688.4	5933.1	5218.0	3795.2
20°	9240.6	9258.9	9130.6	9104.9	9082.9	9071.9	8492.6	7517.2	6820.4	5859.7	4187.6
22.5°	9988.7	9860.3	9974.0	9900.6	9757.6	9669.6	9225.9	8250.5	7590.5	6633.4	4587.3
25°	10872.4	10975.1	10707.4	10678.0	10520.4	10216.0	9816.3	9071.9	8331.2	7352.1	5020.0
27.5°	11961.5	11781.8	11712.1	11550.8	11264.7	11136.4	10667.0	9919.0	9225.9	8107.5	5438.0
30°	12896.5	12848.8	12500.5	12309.8	12060.5	12056.8	11400.4	11066.7	10392.0	9291.9	6013.7
32.5°	13659.2	13450.2	13321.9	13189.9	12988.2	13043.2	12489.5	12313.5	11635.1	10392.0	6692.1
35°	14168.9	14018.6	13941.6	13739.9	13681.2	13926.9	13695.9	13622.6	13065.2	11939.5	7487.8
37.5°	14330.3	14377.9	14363.3	14110.3	14234.9	14898.6	15195.7	15005.0	14711.6	13571.2	8349.5
40°	14473.3	14506.3	14432.9	14730.0	15085.7	15841.0	16915.4	16600.1	16490.1	15225.0	9548.6
42.5°	14554.0	14528.3	14528.3	15041.7	15580.7	17098.8	18576.6	18367.5	18283.2	16985.1	10934.7
45°	14205.6	13956.2	14223.9	14920.6	16006.1	17718.5	19904.0	20193.7	20072.7	19078.9	12555.5
47.5°	12903.8	13057.9	13208.2	14139.6	15489.0	17527.8	20718.0	21704.4	21928.1	20839.0	13618.9
50°	10934.7	10901.7	11213.4	12386.8	14025.9	16706.4	20560.3	22140.8	22547.8	21367.1	13842.6
52.5°	7953.5	8195.5	8532.9	9699.0	11642.4	14579.6	18525.2	21015.0	21557.7	20718.0	13695.9
55°	4631.3	4363.6	5122.7	6109.1	7942.5	10997.1	15661.4	18627.9	19632.6	19537.3	12955.2
57.5°	1855.5	1796.8	2057.1	2772.2	4143.6	6816.8	11389.4	15305.7	16915.4	17894.5	11385.7
60°	814.1	795.7	935.1	1129.4	1694.1	3142.5	6230.1	9519.3	11198.7	12504.2	7836.2
62.5°	586.7	579.4	649.0	718.7	894.7	1367.8	2618.2	3835.6	4781.6	5775.4	3509.2
65°	473.0	491.4	539.0	575.7	660.0	759.0	924.1	1067.1	1309.1	1356.8	773.7
67.5°	385.0	399.7	443.7	484.0	498.7	410.7	425.4	374.0	374.0	333.7	267.7
70°	282.4	286.0	337.4	385.0	308.0	165.0	289.7	289.7	260.4	249.3	227.3
72.5°	209.0	212.7	253.0	238.3	121.0	102.7	212.7	234.7	212.7	201.7	183.3
75°	154.0	157.7	132.0	55.0	51.3	66.0	124.7	161.3	154.0	150.3	139.3
77.5°	29.3	22.0	18.3	25.7	36.7	55.0	80.7	99.0	102.7	110.0	102.7
80°	3.7	3.7	11.0	22.0	40.3	58.7	84.3	95.3	99.0	102.7	95.3
82.5°	0.0	3.7	11.0	22.0	40.3	55.0	73.3	84.3	91.7	95.3	91.7
85°	0.0	3.7	7.3	18.3	33.0	40.3	36.7	25.7	22.0	25.7	18.3
87.5°	0.0	0.0	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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°	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2	2310.2
2.5°	2339.5	2324.8	2273.5	2218.5	2170.8	2192.8	2170.8	2152.5	2159.8	2152.5	2145.1
5°	2467.8	2401.8	2291.8	2244.1	2203.8	2200.1	2189.1	2185.5	2189.1	2189.1	2156.1
7.5°	2588.8	2482.5	2365.2	2313.8	2266.1	2269.8	2244.1	2244.1	2240.5	2222.1	2214.8
10°	2772.2	2629.2	2478.8	2387.2	2328.5	2317.5	2291.8	2266.1	2266.1	2266.1	2229.5
12.5°	2973.9	2794.2	2588.8	2482.5	2412.8	2357.8	2317.5	2310.2	2269.8	2262.5	2244.1
15°	3149.9	2922.5	2662.2	2515.5	2427.5	2354.2	2291.8	2251.5	2233.1	2222.1	2207.5
17.5°	3322.2	3032.5	2702.5	2515.5	2420.2	2335.8	2269.8	2233.1	2189.1	2196.5	2167.1
20°	3553.2	3149.9	2713.5	2467.8	2350.5	2269.8	2181.8	2163.5	2137.8	2115.8	2123.1
22.5°	3776.9	3234.2	2680.5	2409.2	2240.5	2145.1	2101.1	2079.1	2068.1	2049.8	2024.1
25°	3978.6	3325.9	2629.2	2302.8	2123.1	2053.5	2013.1	2009.5	1983.8	1983.8	1936.1
27.5°	4183.9	3358.9	2541.2	2178.1	2020.5	1980.1	1961.8	1954.5	1943.5	1917.8	1884.8
30°	4418.6	3369.9	2412.8	2049.8	1928.8	1884.8	1910.5	1928.8	1881.1	1833.5	1848.1
32.5°	4613.0	3344.2	2258.8	1928.8	1862.8	1840.8	1892.1	1910.5	1855.5	1804.1	1778.5
35°	4847.7	3281.9	2108.5	1833.5	1796.8	1840.8	1884.8	1884.8	1774.8	1712.4	1697.8
37.5°	5203.3	3212.2	1969.1	1752.8	1727.1	1818.8	1877.5	1837.1	1664.8	1587.8	1569.4
40°	5584.7	3168.2	1833.5	1672.1	1690.4	1782.1	1815.1	1690.4	1514.4	1466.8	1452.1
42.5°	6138.4	3080.2	1712.4	1602.4	1657.4	1730.8	1730.8	1507.1	1441.1	1415.4	1411.8
45°	6827.8	3017.9	1606.1	1543.8	1609.8	1628.1	1569.4	1411.8	1364.1	1356.8	1360.4
47.5°	7165.1	2896.9	1496.1	1474.1	1521.8	1525.4	1371.4	1334.8	1294.4	1283.4	1276.1
50°	7113.8	2680.5	1353.1	1382.4	1448.4	1411.8	1250.4	1257.7	1221.1	1217.4	1199.1
52.5°	6754.4	2339.5	1210.1	1279.8	1353.1	1246.7	1151.4	1144.1	1144.1	1096.4	1078.1
55°	5988.1	1884.8	1037.7	1125.7	1213.7	1048.7	1023.1	1015.7	997.4	953.4	942.4
57.5°	4741.3	1382.4	781.1	876.4	1030.4	891.1	887.4	854.4	806.7	773.7	773.7
60°	2819.9	795.7	491.4	535.4	682.0	722.4	803.1	788.4	707.7	656.4	641.7
62.5°	1287.1	410.7	311.7	319.0	366.7	469.4	630.7	729.7	616.0	528.0	520.7
65°	432.7	304.4	256.7	245.7	253.0	282.4	377.7	517.0	491.4	407.0	392.4
67.5°	264.0	271.4	242.0	223.7	223.7	220.0	216.3	234.7	289.7	282.4	286.0
70°	227.3	249.3	223.7	201.7	194.3	183.3	154.0	128.3	110.0	128.3	135.7
72.5°	183.3	198.0	190.7	172.3	154.0	139.3	110.0	84.3	62.3	55.0	55.0
75°	135.7	146.7	154.0	132.0	117.3	99.0	80.7	55.0	33.0	22.0	22.0
77.5°	99.0	110.0	113.7	102.7	88.0	69.7	51.3	36.7	18.3	7.3	7.3
80°	84.3	99.0	110.0	102.7	91.7	66.0	47.7	25.7	14.7	3.7	3.7
82.5°	80.7	99.0	110.0	99.0	88.0	62.3	47.7	29.3	11.0	3.7	3.7
85°	18.3	25.7	33.0	40.3	47.7	47.7	36.7	22.0	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	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)