

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: P530735

Luminaire Tested: **GALN-SA6A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530735  
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-SA6A-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA 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: 13378 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

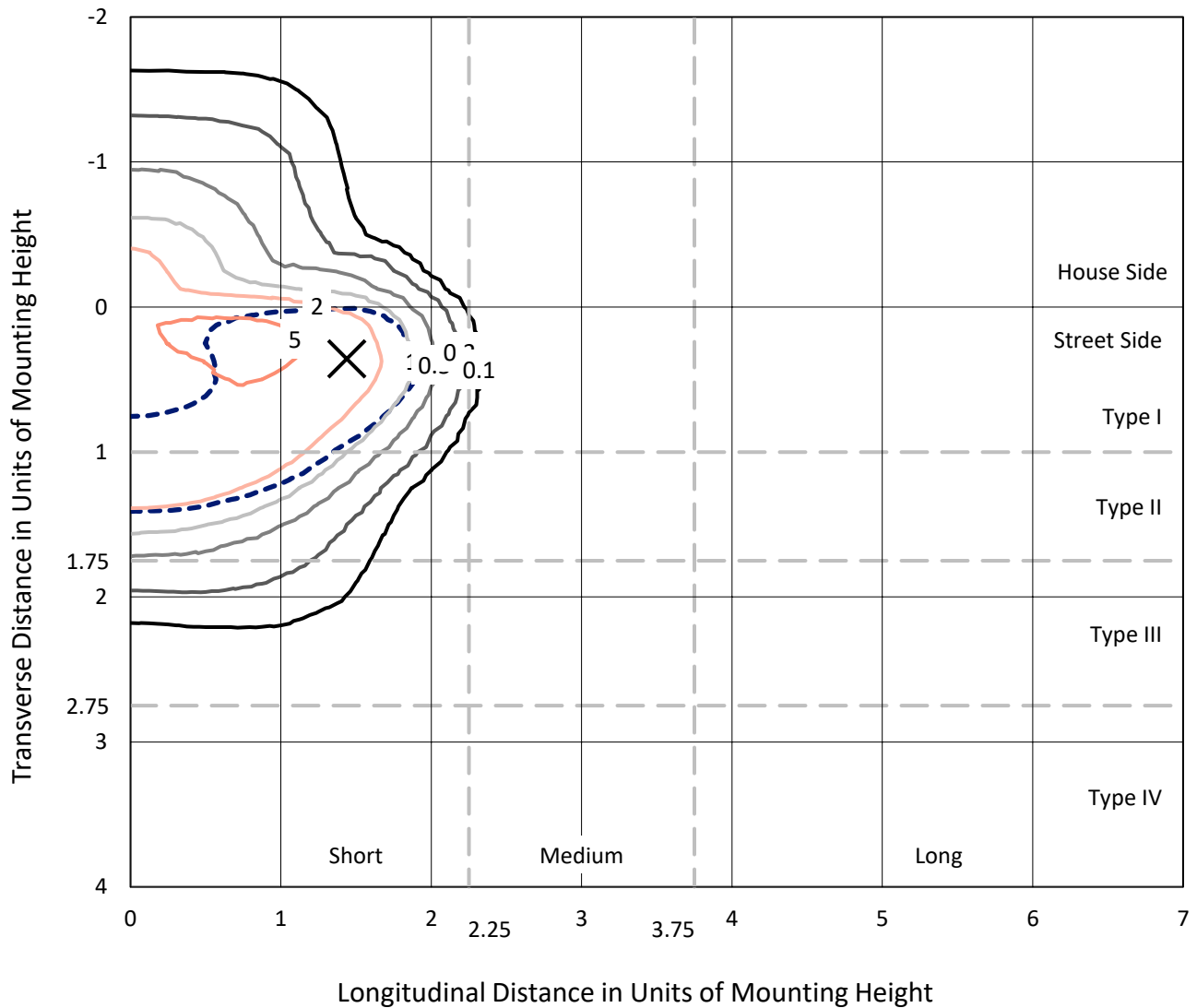
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

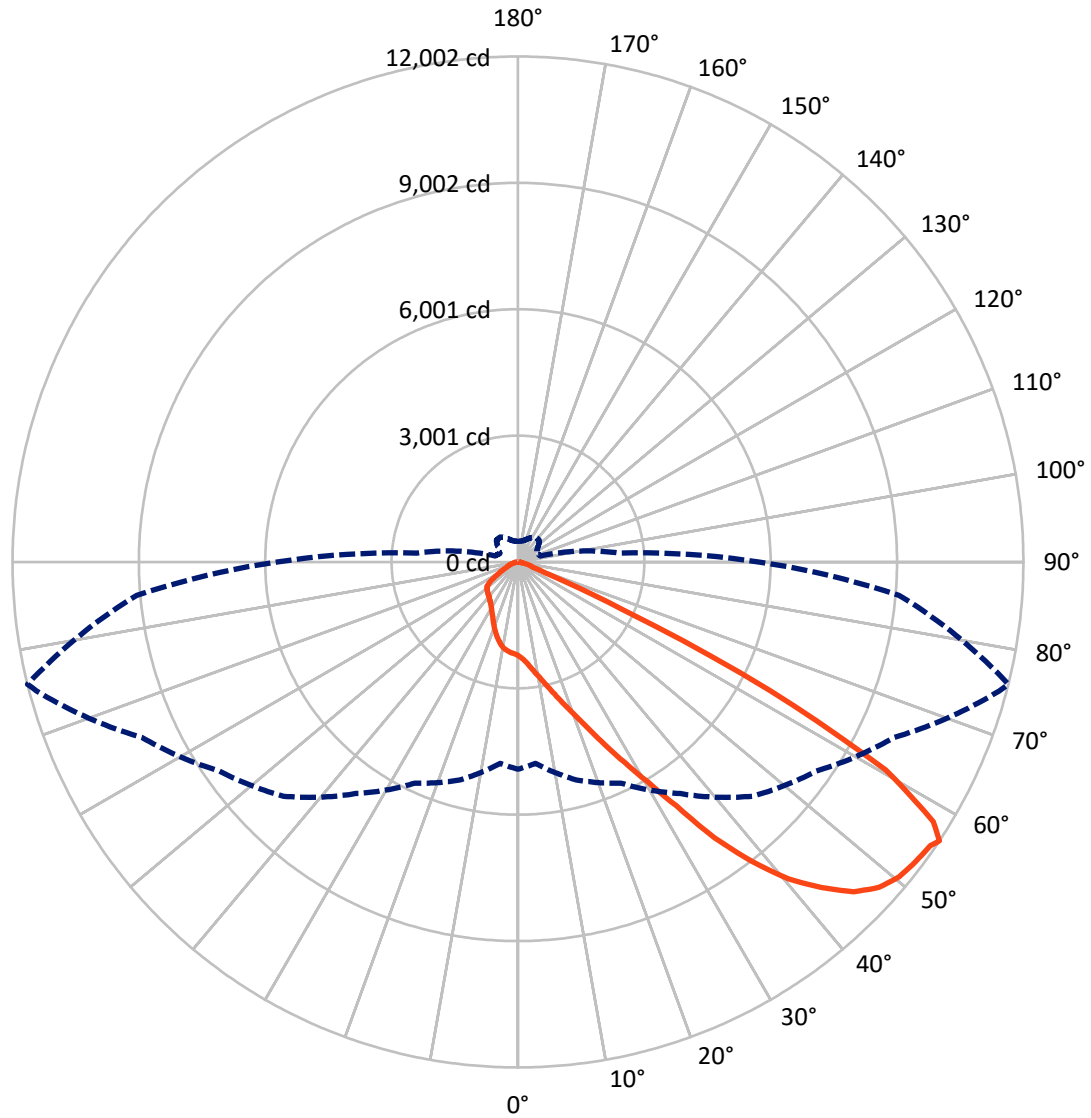
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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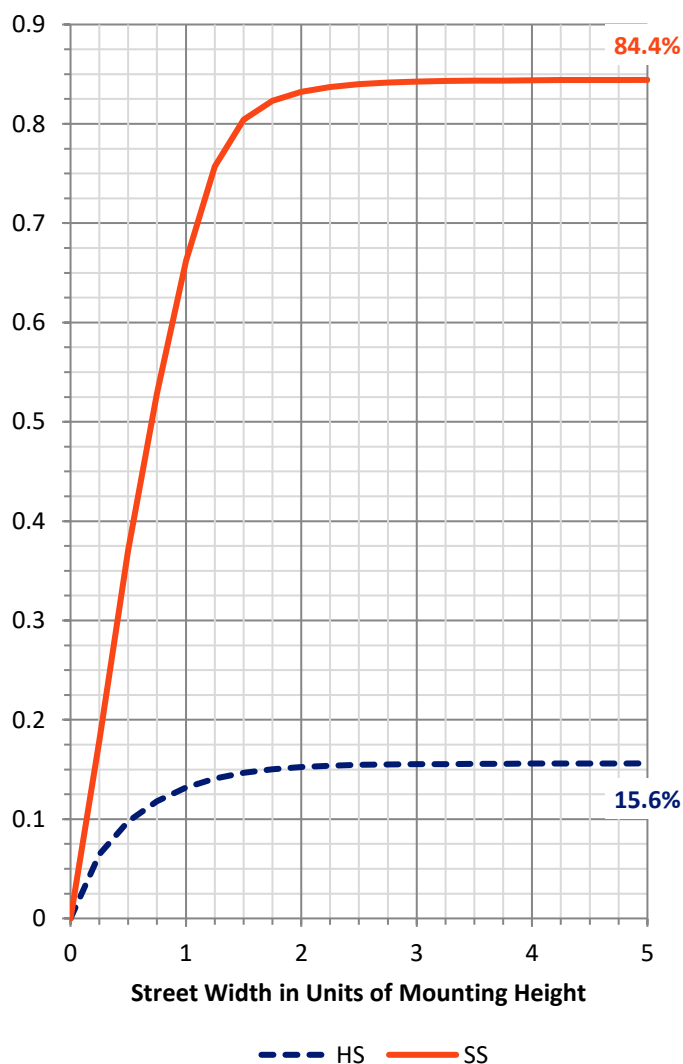
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2101.6	0.0	2101.6
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	11276.4	0.0	11276.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	13378.0	0.0	13378.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.7
10°-20°	720.7	5.4
20°-30°	1306.7	9.8
30°-40°	2253.5	16.8
40°-50°	3660.9	27.4
50°-60°	3858.7	28.8
60°-70°	1179.0	8.8
70°-80°	151.1	1.1
80°-90°	23.0	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°	13378.0	100.0
0°-180°	13378.0	100.0

**Coefficient of Utilization**

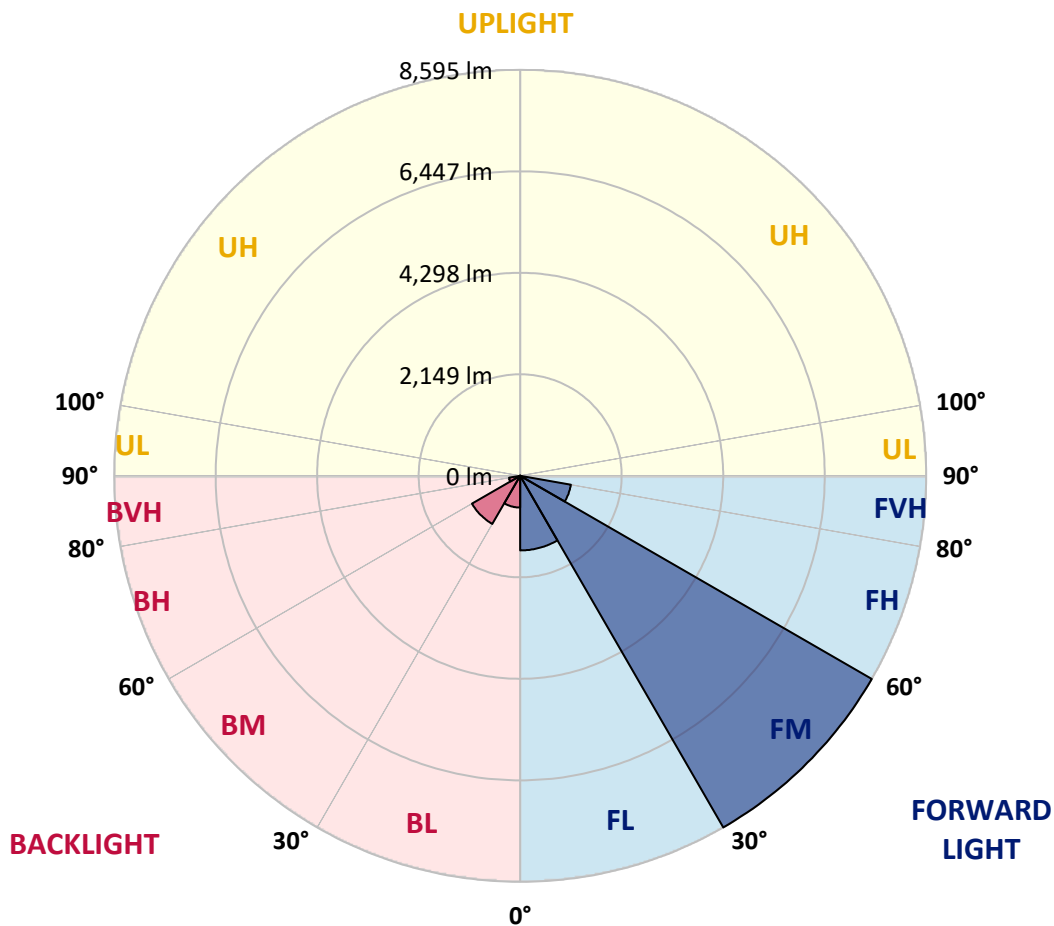


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.4	11.8			
FM (30°-60°)	8595.3	64.2			
FH (60°-80°)	1090.4	8.2			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	672.3	5.0	B2/1000		
BM (30°-60°)	1177.8	8.8	B2/2500		
BH (60°-80°)	239.8	1.8	B1/500		G1/500
BVH (80°-90°)	11.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8
2.5°	2564.6	2505.4	2507.9	2503.0	2495.6	2468.5	2387.1	2374.7	2320.5	2305.7	2256.4
5°	2872.9	2821.1	2850.7	2806.3	2764.4	2739.7	2606.6	2544.9	2458.6	2426.5	2357.5
7.5°	3065.2	3040.6	3030.7	3033.2	2993.7	2932.1	2872.9	2737.2	2621.3	2596.7	2451.2
10°	3158.9	3144.1	3158.9	3151.5	3168.8	3176.2	3072.6	2991.2	2821.1	2779.2	2552.3
12.5°	3181.1	3210.7	3223.0	3255.1	3297.0	3368.5	3361.1	3250.2	3023.3	2996.2	2707.7
15°	3235.4	3260.0	3247.7	3299.5	3378.4	3499.2	3563.4	3546.1	3302.0	3252.6	2887.7
17.5°	3284.7	3240.3	3282.2	3385.8	3464.7	3649.7	3805.0	3876.5	3605.3	3548.6	3052.9
20°	3351.3	3338.9	3331.6	3383.3	3523.9	3770.5	4078.7	4209.4	3945.6	3886.4	3289.6
22.5°	3553.5	3556.0	3551.0	3474.6	3575.7	3854.3	4317.9	4641.0	4352.5	4303.2	3558.4
25°	3819.8	3787.8	3763.1	3701.4	3689.1	3930.8	4559.6	5168.7	4840.7	4806.2	3849.4
27.5°	4100.9	4100.9	4027.0	3970.2	3891.3	4120.7	4781.6	5681.6	5430.1	5383.3	4103.4
30°	4406.7	4424.0	4414.1	4293.3	4244.0	4327.8	5008.4	6337.6	6105.8	6046.6	4522.6
32.5°	4858.0	4821.0	4862.9	4761.8	4616.3	4690.3	5366.0	6924.5	6983.7	6899.8	5072.5
35°	5454.8	5432.6	5405.4	5240.2	5067.6	5126.8	5871.5	7647.0	8086.0	8044.1	5627.4
37.5°	5989.9	5977.6	5955.4	5841.9	5642.2	5713.7	6446.1	8399.2	9161.1	9023.1	6411.6
40°	6552.1	6618.7	6547.2	6446.1	6263.6	6421.4	7121.8	8845.5	10066.2	9898.5	7010.8
42.5°	7314.1	7262.3	7294.4	7109.4	7010.8	7183.4	7799.9	9291.8	10769.0	10569.2	7647.0
45°	8125.4	8127.9	8041.6	7982.4	7725.9	7913.4	8216.7	9538.4	11328.8	11173.4	8127.9
47.5°	8645.8	8643.3	8737.0	8830.7	8566.8	8381.9	8500.3	9772.7	11617.3	11545.8	8303.0
50°	8564.4	8589.0	8709.9	9060.0	9198.1	8949.1	8766.6	9703.7	11748.0	11740.6	8453.4
52.5°	7449.8	7531.1	7733.3	8238.9	8934.3	9242.5	9045.2	9831.9	11812.1	11824.4	8677.8
55°	5671.8	5716.2	6100.9	6714.9	7484.3	8539.7	8934.3	9933.0	11861.4	11883.6	8949.1
56°	4919.6	4801.3	5356.1	5792.6	6712.4	7866.5	8653.2	9854.1	11831.8	12002.0	9084.7
57.5°	3713.8	3634.9	4083.7	4628.7	5514.0	6732.2	7780.2	9481.7	11632.1	11629.6	8889.9
60°	2258.8	2179.9	2525.2	2845.8	3341.4	4145.3	5257.5	7550.9	9834.4	10041.5	7198.2
62.5°	1344.0	1393.3	1733.6	1928.4	2088.7	2172.5	2720.0	4488.1	6562.0	6710.0	4465.9
65°	895.2	912.4	1168.9	1489.5	1561.0	1242.9	1107.2	1817.4	2845.8	2754.5	1842.1
67.5°	552.4	591.8	784.2	1119.6	1240.4	907.5	525.3	678.1	784.2	784.2	532.7
70°	335.4	355.1	522.8	762.0	850.8	584.4	382.2	382.2	377.3	369.9	318.1
72.5°	160.3	172.6	266.3	392.1	399.5	308.2	295.9	323.0	315.6	313.2	263.9
75°	69.0	74.0	93.7	123.3	140.6	130.7	180.0	231.8	239.2	231.8	189.9
77.5°	22.2	24.7	34.5	44.4	46.9	56.7	76.4	96.2	111.0	103.6	93.7
80°	2.5	4.9	9.9	22.2	34.5	44.4	56.7	64.1	71.5	71.5	66.6
82.5°	2.5	2.5	9.9	19.7	32.1	41.9	54.3	61.6	71.5	74.0	69.0
85°	0.0	2.5	7.4	17.3	27.1	27.1	24.7	24.7	17.3	17.3	17.3
87.5°	0.0	0.0	2.5	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9
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°	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8
2.5°	2246.5	2241.6	2175.0	2133.1	2110.9	2066.5	2039.4	2019.6	2004.8	1987.6	1990.1
5°	2276.1	2258.8	2147.9	2071.4	1980.2	1930.9	1888.9	1854.4	1832.2	1827.3	1817.4
7.5°	2360.0	2268.7	2101.0	1962.9	1847.0	1797.7	1760.7	1738.5	1748.4	1726.2	1743.5
10°	2424.1	2288.4	2044.3	1844.6	1728.7	1691.7	1671.9	1689.2	1713.9	1704.0	1691.7
12.5°	2503.0	2308.2	1953.1	1731.1	1622.6	1595.5	1630.0	1662.1	1711.4	1731.1	1706.5
15°	2591.8	2330.4	1837.2	1600.4	1531.4	1553.6	1612.8	1669.5	1718.8	1743.5	1758.3
17.5°	2700.3	2323.0	1723.7	1496.9	1445.1	1509.2	1580.7	1632.5	1706.5	1743.5	1733.6
20°	2801.4	2298.3	1598.0	1393.3	1395.7	1454.9	1514.1	1598.0	1637.4	1686.7	1669.5
22.5°	2897.5	2253.9	1467.3	1321.8	1321.8	1413.0	1442.6	1496.9	1531.4	1556.0	1553.6
25°	3033.2	2170.1	1358.8	1252.7	1282.3	1341.5	1366.2	1383.4	1368.6	1388.4	1390.8
27.5°	3129.3	2083.8	1270.0	1191.1	1245.3	1289.7	1282.3	1272.5	1237.9	1210.8	1228.1
30°	3232.9	1982.7	1193.5	1149.2	1178.7	1218.2	1188.6	1159.0	1104.8	1060.4	1062.8
32.5°	3380.9	1935.8	1127.0	1099.8	1139.3	1144.2	1112.2	1067.8	1013.5	971.6	969.1
35°	3657.1	1906.2	1070.2	1067.8	1075.2	1077.6	1045.6	991.3	969.1	934.6	946.9
37.5°	3933.3	1891.4	1030.8	1020.9	1018.5	1020.9	983.9	932.1	974.1	971.6	976.5
40°	4285.9	1958.0	974.1	961.7	964.2	964.2	917.3	902.6	976.5	983.9	986.4
42.5°	4643.5	2041.8	937.1	897.6	907.5	907.5	882.8	865.6	917.3	868.0	860.6
45°	4954.2	2165.1	897.6	833.5	858.2	870.5	863.1	833.5	801.4	717.6	717.6
47.5°	5055.3	2273.6	850.8	771.9	791.6	845.8	823.6	762.0	705.3	636.2	631.3
50°	5232.8	2392.0	813.8	700.3	742.3	808.8	786.7	725.0	660.9	611.6	614.0
52.5°	5415.3	2527.6	744.7	616.5	668.3	779.3	779.3	710.2	611.6	577.0	572.1
55°	5689.0	2522.7	621.4	505.5	596.8	734.9	747.2	636.2	547.4	520.3	520.3
56°	5728.5	2409.3	559.8	473.5	564.7	722.5	725.0	616.5	522.8	493.2	493.2
57.5°	5432.6	2175.0	490.7	434.0	525.3	700.3	702.8	599.2	503.1	461.1	456.2
60°	4179.9	1472.2	409.4	387.2	475.9	631.3	643.6	545.0	441.4	409.4	406.9
62.5°	2360.0	816.2	360.0	350.2	409.4	537.6	574.6	475.9	374.8	357.6	362.5
65°	1077.6	448.8	303.3	283.6	330.4	414.3	463.6	392.1	308.2	288.5	288.5
67.5°	394.6	305.8	258.9	224.4	231.8	268.8	300.9	254.0	204.7	175.1	182.5
70°	281.1	256.5	226.9	194.8	180.0	175.1	172.6	143.0	101.1	78.9	83.8
72.5°	226.9	212.1	189.9	165.2	140.6	118.4	101.1	74.0	46.9	32.1	29.6
75°	162.8	155.4	138.1	118.4	98.6	83.8	69.0	46.9	24.7	12.3	12.3
77.5°	83.8	83.8	81.4	74.0	61.6	49.3	39.5	27.1	14.8	4.9	4.9
80°	64.1	69.0	71.5	64.1	56.7	44.4	32.1	19.7	9.9	2.5	2.5
82.5°	61.6	71.5	76.4	66.6	56.7	41.9	32.1	19.7	9.9	2.5	2.5
85°	14.8	14.8	22.2	24.7	32.1	34.5	27.1	17.3	7.4	2.5	2.5
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	2.5	2.5	2.5	2.5	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)