

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: P455691

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34368 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

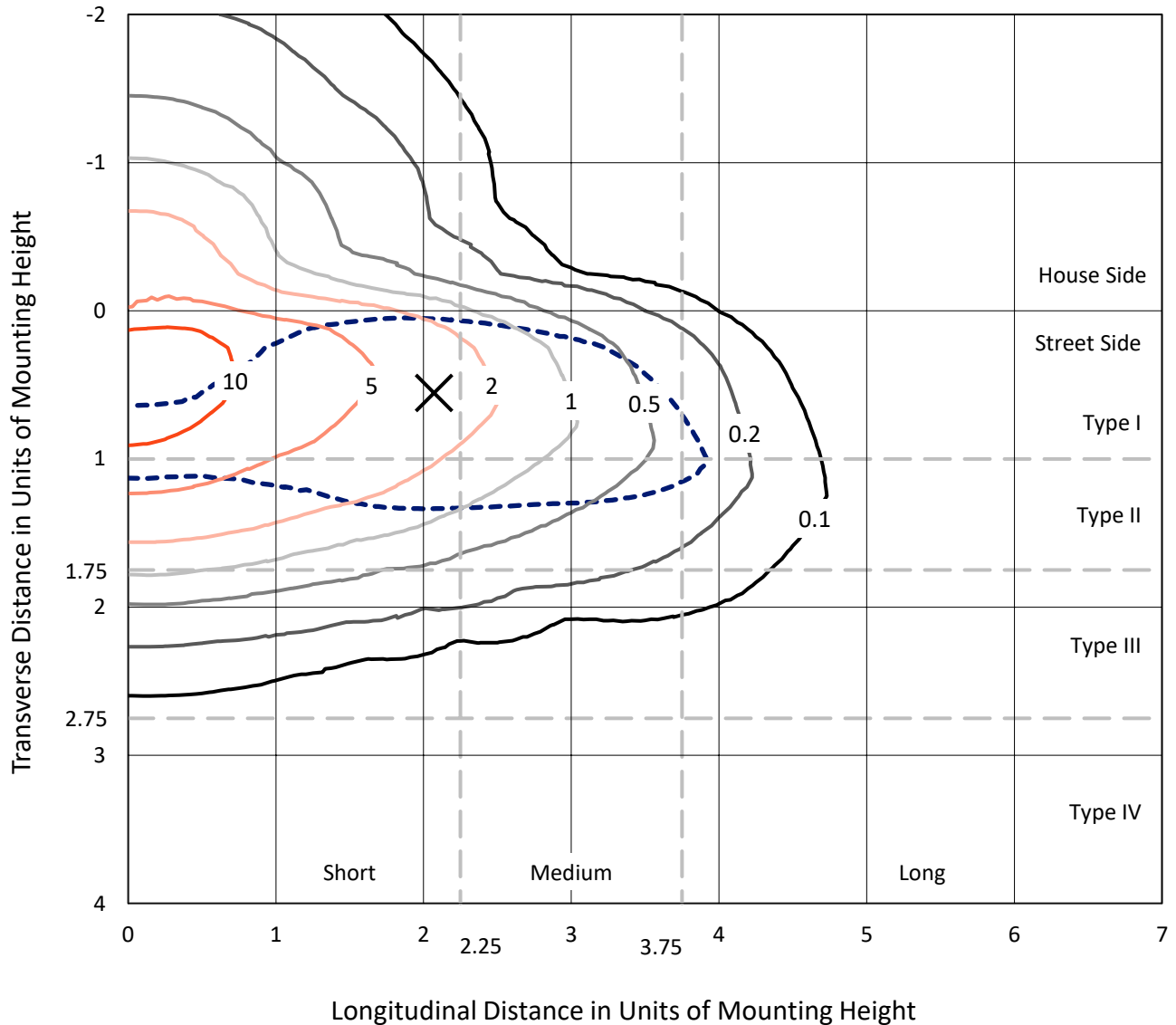
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

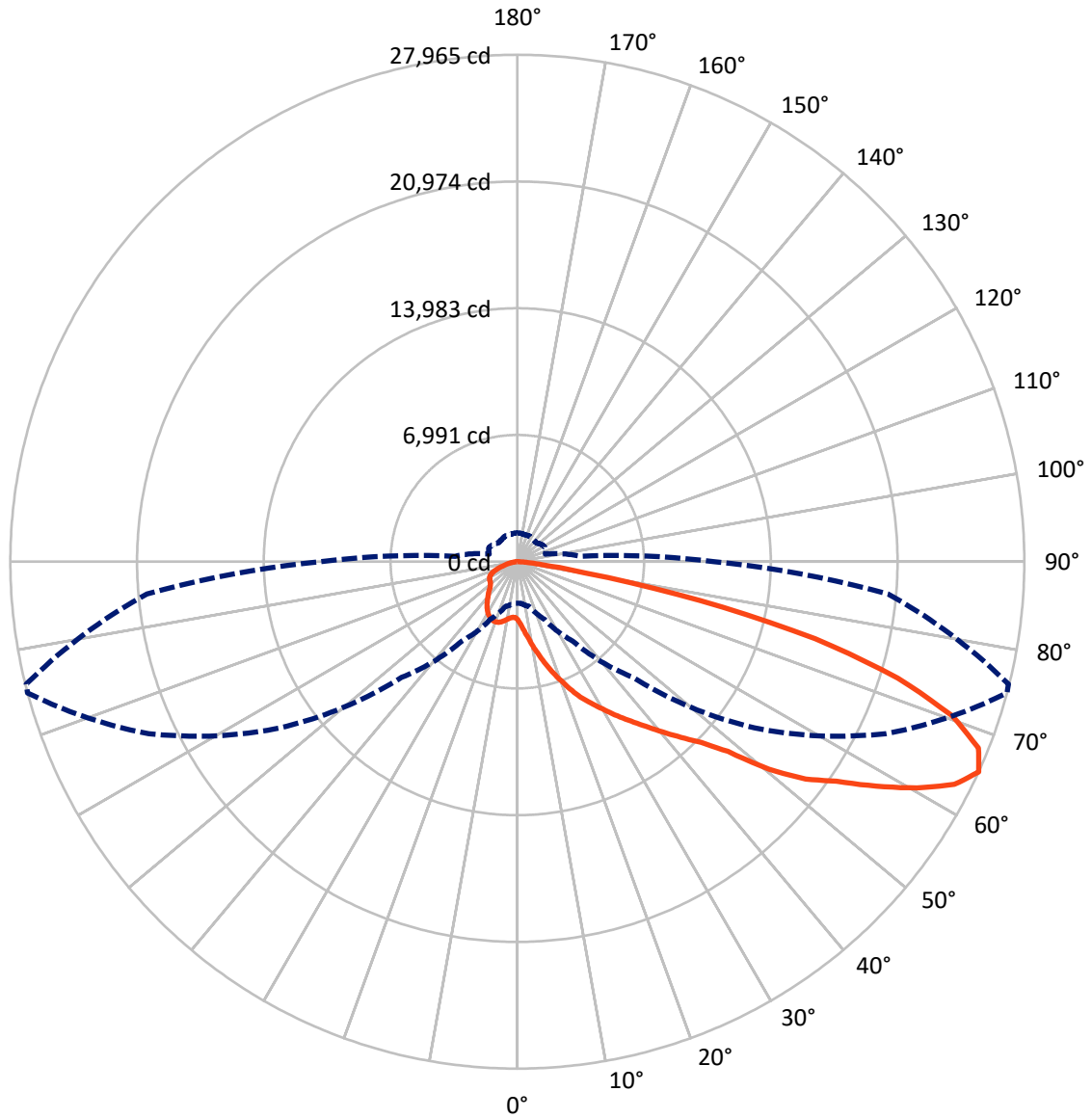
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5777.7	0.0	5777.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	28590.3	0.0	28590.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	34368.0	0.0	34368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.0	1.1
10°-20°	1519.6	4.4
20°-30°	2935.4	8.5
30°-40°	4767.9	13.9
40°-50°	6558.7	19.1
50°-60°	7743.6	22.5
60°-70°	6784.7	19.7
70°-80°	3239.1	9.4
80°-90°	431.0	1.3
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°	34368.0	100.0
0°-180°	34368.0	100.0

**Coefficient of Utilization**

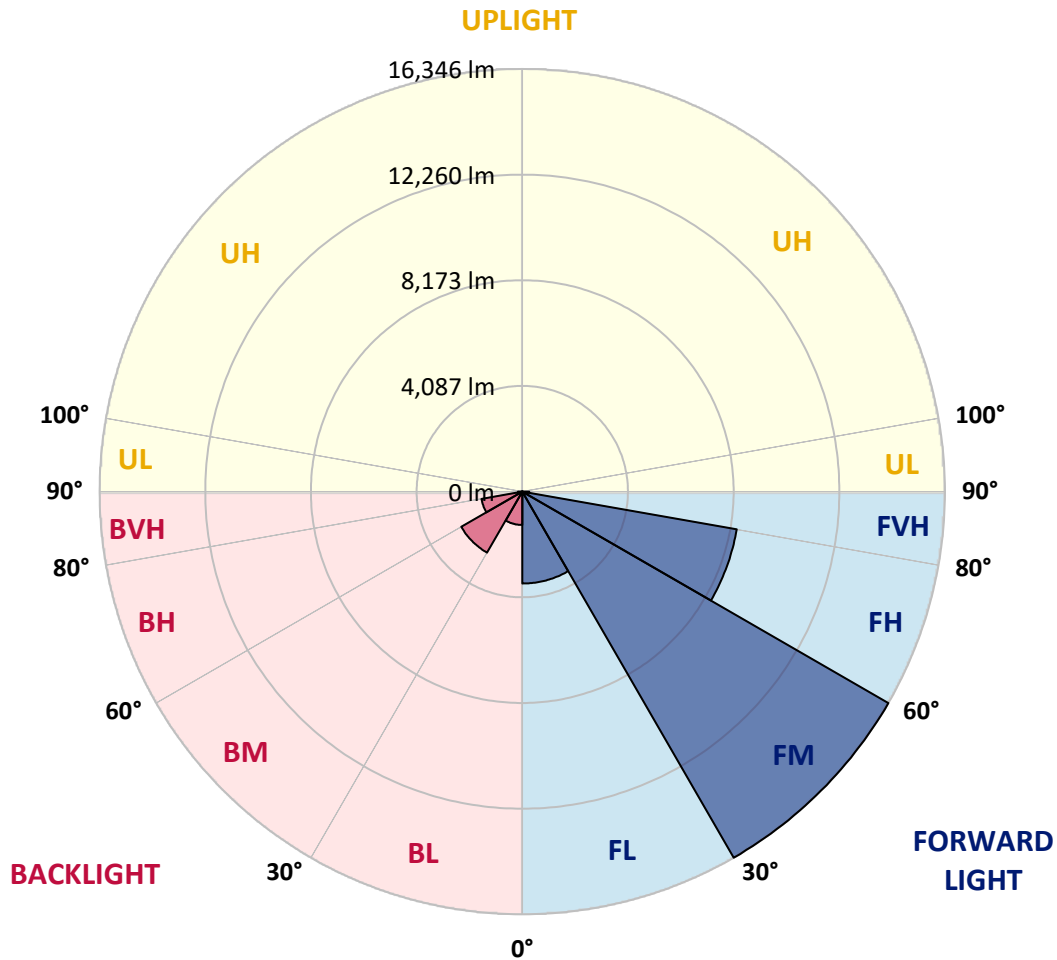


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3553.1	10.3			
FM	(30°-60°)	16346.1	47.6			
FH	(60°-80°)	8421.7	24.5			G4/12000
FVH	(80°-90°)	269.3	0.8			G3/500
BL	(0°-30°)	1289.9	3.8	B3/2500		
BM	(30°-60°)	2724.1	7.9	B3/5000		
BH	(60°-80°)	1602.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	161.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2
2.5°	4242.7	4214.8	4184.9	4102.9	4015.3	3916.5	3774.8	3638.7	3457.9	3452.3	3318.1
5°	5419.0	5400.3	5268.0	5191.5	4988.4	4718.1	4488.8	4132.7	3802.8	3763.6	3502.7
7.5°	6500.2	6427.5	6377.1	6239.2	6037.9	5691.1	5247.5	4766.5	4214.8	4162.6	3730.1
10°	7314.8	7307.3	7281.2	7161.9	7010.9	6666.1	6173.9	5484.2	4736.7	4634.2	4006.0
12.5°	7924.3	7929.9	7926.2	7924.3	7816.2	7523.5	6990.4	6263.4	5264.2	5191.5	4324.7
15°	8325.1	8381.0	8403.4	8496.6	8505.9	8310.2	7851.6	7016.5	5858.9	5750.8	4667.7
17.5°	8589.8	8617.8	8722.2	8880.6	9009.2	8973.8	8565.6	7713.7	6466.6	6285.8	5023.8
20°	8843.3	8891.8	8972.0	9188.2	9415.6	9520.0	9232.9	8427.6	7068.7	6953.1	5417.1
22.5°	9370.9	9439.9	9467.8	9577.8	9771.7	9956.2	9825.7	9111.8	7728.6	7572.0	5834.7
25°	10263.8	10336.5	10258.2	10232.1	10295.5	10386.8	10358.9	9756.8	8351.2	8127.5	6229.9
27.5°	11427.0	11436.3	11283.5	11138.1	10981.5	10934.9	10849.1	10329.0	8891.8	8705.4	6626.9
30°	12676.0	12631.2	12377.7	12114.9	11850.2	11589.2	11343.1	10880.8	9493.9	9279.5	7016.5
32.5°	13835.4	13811.2	13529.7	13121.5	12674.1	12428.0	11930.3	11438.2	10138.9	9932.0	7417.3
35°	14704.1	14739.5	14430.1	13984.6	13496.2	13278.1	12649.9	12023.5	10806.2	10580.7	7853.5
37.5°	15321.1	15302.5	15028.5	14642.6	14213.8	14023.7	13490.6	12662.9	11523.9	11307.7	8330.7
40°	15541.1	15529.9	15326.7	15045.2	14773.1	14706.0	14370.4	13352.6	12346.0	12092.5	8904.9
42.5°	15401.3	15425.5	15291.3	15214.9	15164.5	15213.0	15244.7	14256.7	13242.6	13009.6	9527.5
45°	14972.5	14959.5	14940.8	15065.7	15349.1	15667.8	16109.6	15110.5	14217.6	14031.2	10362.6
47.5°	14206.4	14299.6	14346.2	14691.1	15309.9	16064.9	17105.1	16255.0	15632.4	15470.3	11635.8
50°	13134.5	13209.1	13485.0	14098.3	15021.0	16214.0	18078.1	18126.6	17992.4	17688.5	13018.9
52.5°	11460.6	11576.1	12144.7	13268.7	14428.2	16152.5	18667.2	19731.6	19908.7	19681.3	14381.6
55°	9587.1	9749.3	10349.5	11824.1	13611.7	15817.0	19073.6	20661.8	21368.3	21157.7	15693.9
57.5°	7752.8	7924.3	8541.4	9969.3	12187.6	15075.1	19340.1	21698.2	23355.4	23081.4	17326.9
60°	5810.4	5989.4	6518.8	7989.6	10159.4	13624.8	19159.3	22596.7	25340.7	25223.3	18961.7
62.5°	3748.7	3946.3	4406.8	5624.0	7808.8	11643.2	18191.9	23092.6	27059.4	26917.8	20154.8
65°	2283.5	2305.9	2559.4	3491.5	5344.4	9014.8	15979.2	22434.6	27965.4	27922.5	20518.3
67.5°	1476.4	1511.8	1627.4	2091.5	3204.4	6261.5	12776.6	20262.9	27436.0	27421.1	19767.0
70°	1247.1	1258.3	1310.5	1411.1	1862.2	3797.2	8972.0	16801.2	25424.6	25424.6	17960.7
72.5°	1114.7	1129.7	1148.3	1180.0	1329.1	2151.2	5353.7	13078.6	21951.8	22097.2	15287.6
75°	1012.2	1008.5	1019.7	1025.3	1133.4	1405.5	2768.2	9672.9	16982.0	16691.2	11071.0
77.5°	866.8	872.4	866.8	891.0	1001.0	1070.0	1405.5	6490.8	10291.8	9915.2	5556.9
80°	712.1	721.4	730.7	745.6	855.6	812.8	844.4	2958.3	3806.5	3726.4	1716.8
82.5°	535.0	548.0	563.0	598.4	672.9	536.9	533.1	1263.9	1373.8	1258.3	631.9
85°	216.2	255.4	385.9	421.3	423.2	294.5	328.1	527.5	561.1	548.0	247.9
87.5°	50.3	59.7	124.9	188.3	173.4	110.0	121.2	171.5	195.7	180.8	83.9
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°	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2
2.5°	3256.6	3191.4	3079.5	2993.8	2932.2	2878.2	2844.6	2824.1	2816.7	2814.8	2816.7
5°	3366.6	3251.0	3073.9	2962.1	2900.6	2865.1	2844.6	2842.8	2844.6	2846.5	2840.9
7.5°	3517.6	3351.7	3120.5	3016.1	2969.5	2943.4	2934.1	2930.4	2932.2	2930.4	2930.4
10°	3718.9	3491.5	3211.9	3103.7	3064.6	3034.8	3019.9	3010.5	3003.1	2995.6	2991.9
12.5°	3940.7	3646.2	3310.7	3206.3	3150.3	3103.7	3070.2	3046.0	3029.2	3012.4	3008.7
15°	4188.7	3810.2	3420.6	3275.2	3195.1	3126.1	3068.3	3029.2	2999.4	2975.1	2973.3
17.5°	4425.4	3965.0	3495.2	3306.9	3189.5	3092.6	3016.1	2962.1	2924.8	2893.1	2889.4
20°	4678.9	4112.2	3528.8	3286.4	3133.6	3016.1	2915.5	2850.2	2807.4	2771.9	2766.3
22.5°	4934.3	4237.1	3525.0	3221.2	3036.6	2898.7	2792.4	2723.5	2673.1	2637.7	2624.7
25°	5178.5	4337.8	3478.4	3116.8	2902.4	2758.9	2650.8	2587.4	2542.6	2499.8	2499.8
27.5°	5398.5	4397.4	3390.8	2990.0	2764.5	2613.5	2527.7	2469.9	2428.9	2401.0	2384.2
30°	5614.7	4425.4	3271.5	2829.7	2619.1	2490.5	2421.5	2387.9	2350.6	2319.0	2315.2
32.5°	5808.6	4419.8	3122.4	2673.1	2481.1	2389.8	2361.8	2335.7	2296.6	2251.8	2240.7
35°	5996.8	4382.5	2945.3	2501.6	2365.6	2330.1	2337.6	2300.3	2229.5	2173.6	2164.2
37.5°	6201.9	4315.4	2751.4	2361.8	2268.6	2302.2	2320.8	2238.8	2123.2	2035.6	2015.1
40°	6438.6	4239.0	2550.1	2222.0	2192.2	2276.1	2276.1	2125.1	1966.6	1912.6	1897.7
42.5°	6716.4	4175.6	2382.3	2104.6	2128.8	2212.7	2203.4	1974.1	1908.8	1880.9	1873.4
45°	7156.3	4153.2	2209.0	2002.1	2076.6	2138.1	2061.7	1921.9	1884.6	1862.2	1854.8
47.5°	7851.6	4179.3	2056.1	1925.6	2017.0	2063.6	1903.3	1886.5	1860.4	1828.7	1825.0
50°	8496.6	4155.1	1948.0	1882.8	1964.8	1974.1	1838.0	1843.6	1828.7	1793.3	1785.8
52.5°	9024.2	4078.7	1879.0	1860.4	1920.0	1817.5	1776.5	1797.0	1791.4	1746.7	1739.2
55°	9603.9	4032.1	1845.5	1860.4	1890.2	1681.4	1718.7	1748.5	1741.1	1709.4	1707.5
57.5°	10306.7	4041.4	1821.2	1866.0	1860.4	1612.5	1660.9	1696.3	1694.5	1685.2	1685.2
60°	11026.2	4045.1	1784.0	1864.1	1825.0	1558.4	1601.3	1651.6	1655.3	1660.9	1660.9
62.5°	11264.8	3882.9	1711.3	1830.6	1746.7	1506.2	1545.3	1614.3	1610.6	1625.5	1627.4
65°	10819.3	3433.7	1603.1	1754.1	1646.0	1468.9	1502.5	1565.9	1545.3	1584.5	1592.0
67.5°	9848.1	2840.9	1435.4	1616.2	1534.2	1429.8	1474.5	1498.7	1461.5	1537.9	1539.8
70°	8511.5	2218.3	1222.9	1420.5	1407.4	1388.8	1452.1	1414.9	1362.7	1455.9	1437.2
72.5°	7117.2	1694.5	976.8	1161.3	1237.8	1327.2	1413.0	1306.7	1234.0	1262.0	1228.4
75°	5346.3	1252.7	784.8	909.7	1030.9	1239.6	1377.6	1176.3	1064.4	1038.3	1030.9
77.5°	2725.3	818.3	587.2	680.4	773.6	1120.3	1329.1	1023.4	881.7	840.7	822.1
80°	973.1	508.9	413.8	469.8	522.0	963.7	1161.3	846.3	684.1	676.7	684.1
82.5°	451.1	328.1	277.8	307.6	309.4	643.1	885.5	631.9	520.1	790.4	667.4
85°	193.9	164.0	156.6	152.9	141.7	287.1	497.7	339.3	529.4	236.7	218.1
87.5°	57.8	65.2	57.8	42.9	31.7	31.7	50.3	18.6	13.0	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

(END OF REPORT)