

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: P192355

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T4W-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27546 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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: 25 FT

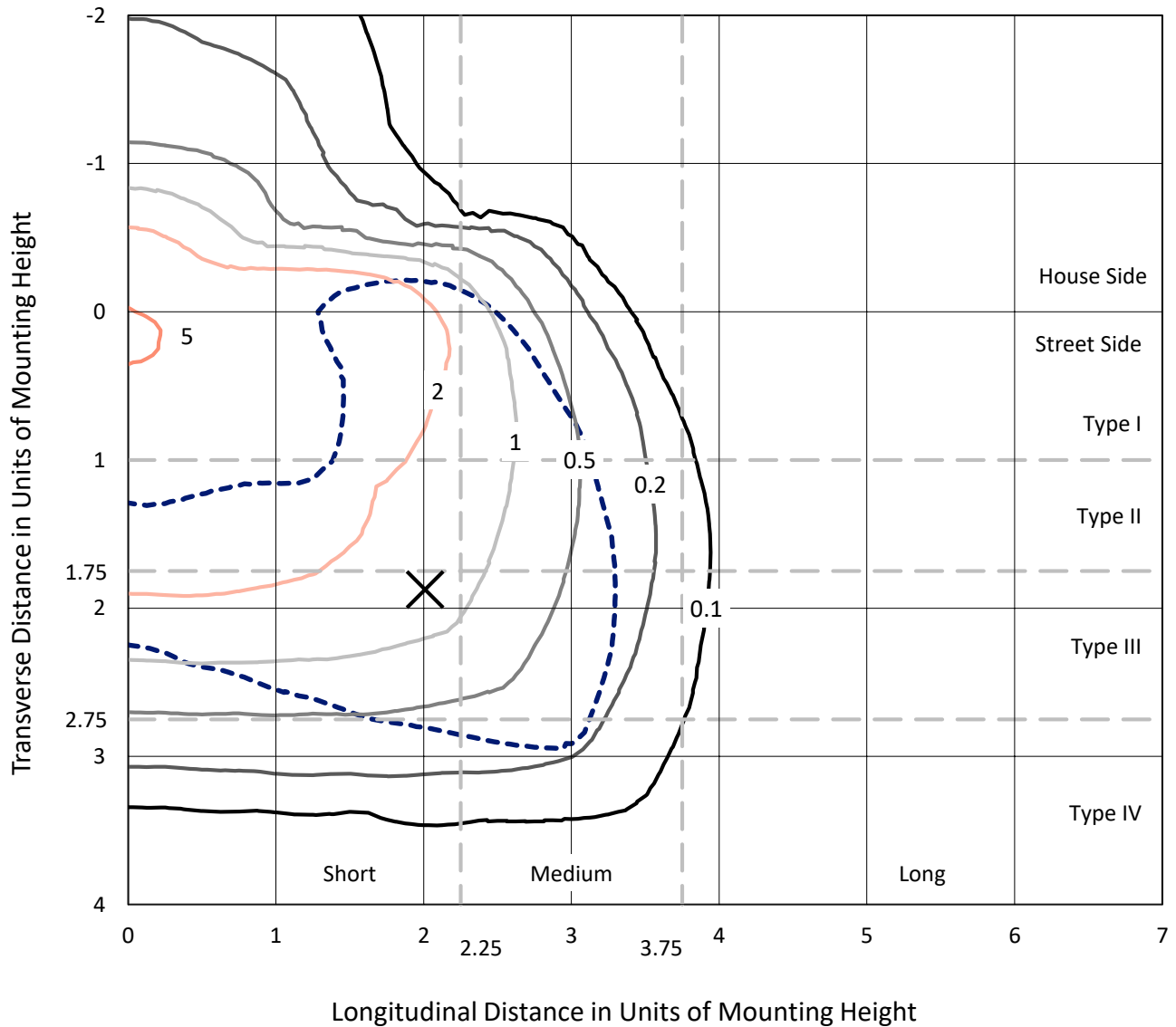


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

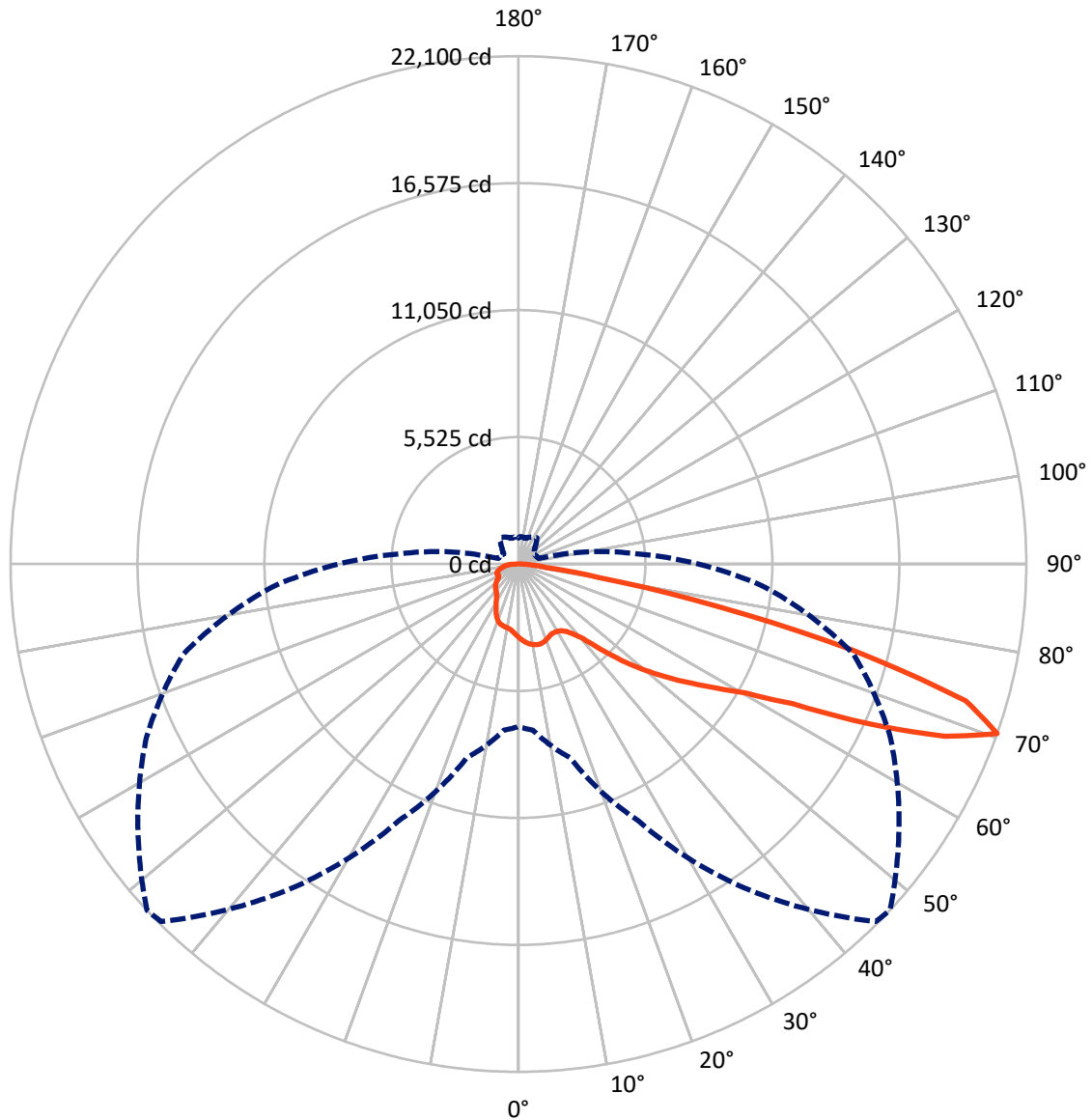


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5746.6	0.0	5746.6
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	21799.4	0.0	21799.4
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	27546.0	0.0	27546.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.2	1.1
10°-20°	898.5	3.3
20°-30°	1326.8	4.8
30°-40°	1928.4	7.0
40°-50°	3470.5	12.6
50°-60°	6012.3	21.8
60°-70°	8581.3	31.2
70°-80°	4405.2	16.0
80°-90°	616.7	2.2
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°	27546.0	100.0
0°-180°	27546.0	100.0



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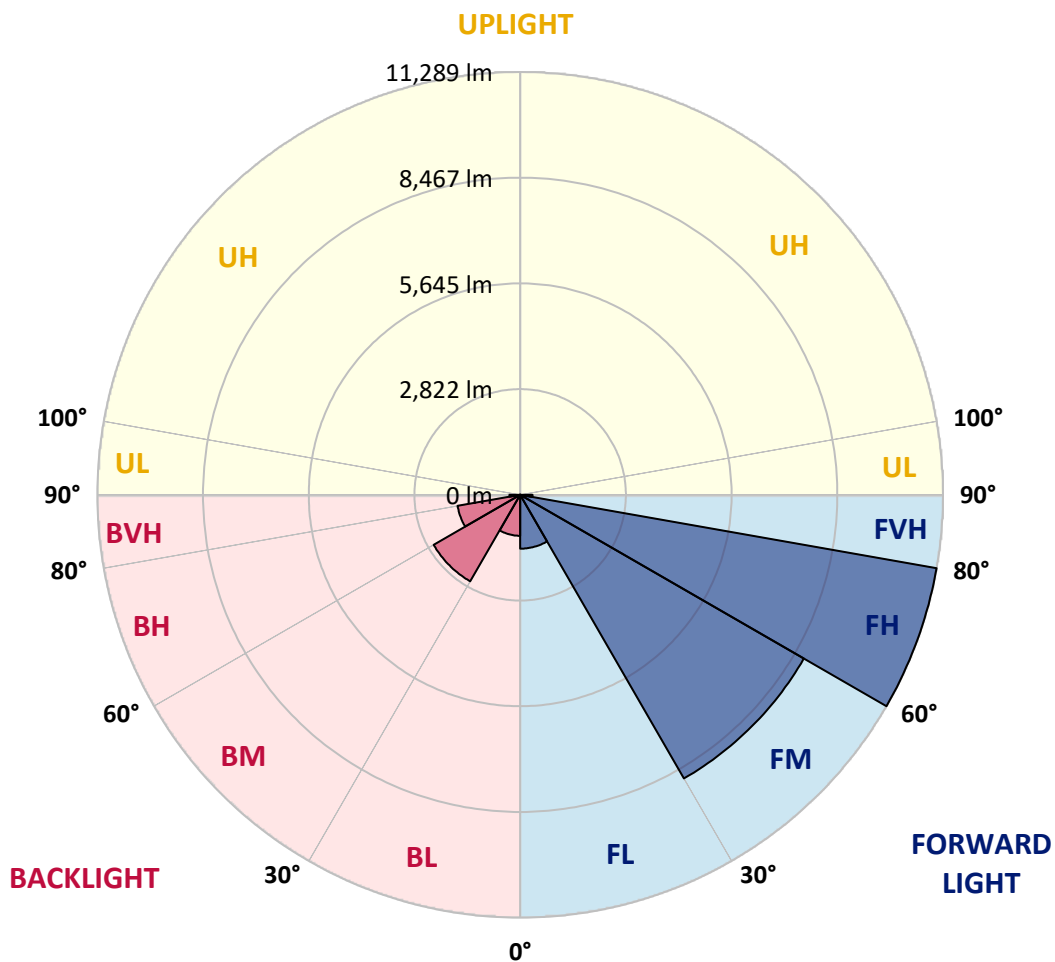
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1437.3	5.2			
FM	(30°-60°)	8743.9	31.7			
FH	(60°-80°)	11289.1	41.0			G4/12000
FVH	(80°-90°)	329.1	1.2			G3/500
BL	(0°-30°)	1094.2	4.0	B3/2500		
BM	(30°-60°)	2667.4	9.7	B3/5000		
BH	(60°-80°)	1697.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	287.6	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2
2.5°	3383.8	3377.1	3374.4	3369.1	3362.4	3328.9	3322.2	3298.0	3264.5	3229.7	3193.5
5°	3606.3	3604.9	3590.2	3563.4	3520.5	3446.8	3429.4	3370.4	3291.3	3215.0	3138.6
7.5°	3801.9	3789.9	3761.7	3708.1	3633.1	3532.6	3508.4	3426.7	3318.1	3213.6	3110.4
10°	3945.3	3938.6	3877.0	3803.3	3705.4	3594.2	3566.1	3474.9	3355.7	3223.0	3094.3
12.5°	4027.1	4013.7	3942.6	3854.2	3737.6	3629.1	3600.9	3508.4	3374.4	3223.0	3071.6
15°	4021.7	4012.3	3941.3	3844.8	3726.9	3631.7	3606.3	3513.8	3370.4	3209.6	3042.1
17.5°	3914.5	3918.5	3858.2	3763.1	3666.6	3594.2	3571.4	3485.7	3343.6	3182.8	3007.2
20°	3726.9	3745.6	3705.4	3621.0	3567.4	3517.8	3503.1	3430.7	3302.1	3143.9	2969.7
22.5°	3539.3	3556.7	3540.6	3469.6	3461.5	3432.1	3424.0	3371.7	3265.9	3119.8	2946.9
25°	3401.2	3417.3	3414.6	3353.0	3377.1	3375.8	3369.1	3343.6	3257.8	3119.8	2951.0
27.5°	3363.7	3369.1	3363.7	3307.4	3340.9	3367.7	3362.4	3358.3	3282.0	3158.7	3001.9
30°	3492.4	3484.3	3442.8	3328.9	3359.7	3397.2	3391.9	3394.5	3354.3	3260.5	3115.8
32.5°	4005.6	3969.4	3838.1	3517.8	3436.1	3456.2	3458.9	3503.1	3509.8	3417.3	3292.7
35°	4773.5	4733.3	4563.1	4024.4	3673.3	3603.6	3603.6	3670.6	3710.8	3642.5	3567.4
37.5°	5587.0	5542.7	5451.6	4726.6	4171.8	3859.6	3852.9	3899.8	3957.4	3973.5	3992.2
40°	6511.7	6464.8	6490.2	5514.6	4867.3	4303.1	4208.0	4174.5	4329.9	4433.1	4583.2
42.5°	7523.5	7502.0	7511.4	6392.4	5659.3	4966.5	4831.1	4658.3	4845.9	5029.5	5344.4
45°	8460.2	8479.0	8469.6	7331.8	6541.1	5775.9	5632.5	5297.5	5481.1	5796.0	6309.3
47.5°	9280.4	9202.6	9323.2	8358.3	7528.8	6681.9	6505.0	6056.0	6242.3	6630.9	7499.3
50°	10276.1	10265.3	10088.4	9728.0	8722.9	7591.8	7360.0	6840.0	7129.5	7669.5	8998.9
52.5°	11322.7	11128.4	10966.2	10793.4	9989.3	8524.5	8240.4	7621.3	8172.1	8851.5	10826.9
55°	11537.1	11450.0	11651.0	11941.8	11210.1	9493.4	9162.4	8600.9	9346.0	10202.4	12934.9
57.5°	11995.4	11994.1	12409.5	12928.2	12467.2	10521.3	10187.6	9784.2	10666.0	11750.2	15172.9
60°	12305.0	12392.1	13164.0	14170.5	13701.4	11708.7	11401.8	11149.8	12167.0	13480.3	17258.1
62.5°	12467.2	12585.1	13638.4	14674.3	15446.3	13685.3	13378.4	13015.3	14153.0	15377.9	18477.6
65°	11793.1	12024.9	13564.7	15109.9	16974.0	16889.6	16751.5	16113.6	16636.3	16877.5	18036.7
67.5°	9927.6	10164.8	11957.9	14703.8	18064.9	19979.9	20009.4	18919.9	18164.0	17006.2	15164.8
70°	7073.2	7259.4	8743.0	12327.8	17234.0	21999.5	22100.0	20213.1	17859.8	15081.7	10595.0
72.5°	3358.3	3472.3	4876.7	8023.3	13676.0	20156.8	20351.1	18562.0	15186.3	11165.9	5780.0
75°	1234.3	1269.1	1648.4	3413.3	7932.2	14864.6	15093.8	13306.1	10067.0	5558.8	2201.8
77.5°	739.7	762.5	924.7	1440.6	3119.8	8496.4	8835.4	7236.7	4399.6	2069.2	1082.8
80°	517.3	533.4	663.4	896.5	1474.1	3237.7	3539.3	2953.6	1752.9	1309.3	788.0
82.5°	349.8	357.8	466.4	605.7	979.6	1156.5	1247.7	1313.3	1182.0	974.3	499.9
85°	229.2	237.2	316.3	399.4	623.2	597.7	611.1	773.3	863.0	662.0	277.4
87.5°	131.3	136.7	190.3	213.1	305.5	253.3	256.0	407.4	552.1	446.3	168.9
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°	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2	3196.2
2.5°	3184.1	3166.7	3127.8	3103.7	3080.9	3075.6	3066.2	3064.9	3063.5	3063.5	3059.5
5°	3113.1	3083.6	3023.3	2989.8	2961.7	2959.0	2957.7	2964.4	2967.0	2969.7	2965.7
7.5°	3067.5	3027.3	2952.3	2904.0	2870.5	2862.5	2875.9	2906.7	2926.8	2934.9	2930.8
10°	3039.4	2989.8	2902.7	2850.4	2822.3	2818.3	2835.7	2871.9	2913.4	2929.5	2928.2
12.5°	3007.2	2951.0	2858.5	2803.5	2787.5	2795.5	2818.3	2851.8	2894.7	2920.1	2921.5
15°	2975.1	2909.4	2814.3	2766.0	2759.3	2770.0	2791.5	2816.9	2850.4	2875.9	2878.6
17.5°	2936.2	2867.9	2772.7	2723.1	2717.8	2723.1	2724.5	2737.9	2759.3	2783.4	2790.1
20°	2894.7	2825.0	2725.8	2676.2	2652.1	2630.7	2606.5	2609.2	2615.9	2640.0	2645.4
22.5°	2865.2	2795.5	2689.6	2621.3	2557.0	2492.6	2444.4	2437.7	2440.4	2460.5	2467.2
25°	2867.9	2794.2	2680.2	2562.3	2421.6	2318.4	2254.1	2243.4	2242.0	2256.8	2266.1
27.5°	2920.1	2846.4	2715.1	2502.0	2274.2	2121.4	2053.1	2045.0	2034.3	2038.3	2049.0
30°	3036.7	2968.4	2799.5	2440.4	2114.7	1928.4	1857.4	1849.4	1834.6	1827.9	1836.0
32.5°	3227.0	3170.7	2922.8	2381.4	1955.2	1763.6	1691.2	1673.8	1664.4	1656.4	1663.1
35°	3543.3	3519.2	3087.6	2317.1	1814.5	1636.3	1570.6	1543.8	1530.4	1545.2	1555.9
37.5°	4039.1	4052.5	3303.4	2216.6	1706.0	1551.9	1496.9	1466.1	1446.0	1458.1	1470.1
40°	4741.4	4750.7	3541.9	2074.5	1612.2	1502.3	1443.3	1415.2	1387.0	1365.6	1364.2
42.5°	5663.4	5568.2	3776.5	1920.4	1503.6	1471.5	1405.8	1370.9	1328.1	1269.1	1257.0
45°	6756.9	6423.2	3954.7	1743.5	1381.7	1433.9	1364.2	1316.0	1249.0	1184.7	1178.0
47.5°	8016.6	7341.2	4041.8	1559.9	1267.8	1379.0	1313.3	1236.9	1152.5	1120.3	1116.3
50°	9555.1	8430.7	4083.4	1381.7	1168.6	1306.6	1239.6	1149.8	1078.8	1072.1	1068.1
52.5°	11306.6	9741.4	4096.8	1235.6	1086.8	1212.8	1179.3	1092.2	1035.9	1041.3	1041.3
55°	13139.9	11094.9	3914.5	1129.7	1011.8	1116.3	1139.1	1069.4	1022.5	1044.0	1052.0
57.5°	14823.1	12294.3	3340.9	1048.0	940.8	1042.6	1124.4	1090.9	1058.7	1145.8	1151.2
60°	16115.0	13003.2	2495.3	974.3	888.5	1017.2	1163.2	1172.6	1180.6	1388.4	1416.5
62.5°	16385.7	12767.4	1715.4	916.6	864.4	1038.6	1234.3	1235.6	1226.2	1370.9	1388.4
65°	15143.4	11275.8	1247.7	884.5	844.3	1077.5	1294.6	1266.4	1204.8	1314.7	1282.5
67.5°	12026.3	8495.0	1038.6	860.4	814.8	1074.8	1358.9	1294.6	1192.7	1287.9	1235.6
70°	7806.2	5136.7	924.7	840.3	780.0	1023.9	1396.4	1291.9	1157.9	1198.1	1136.4
72.5°	3808.6	2297.0	848.3	810.8	743.8	952.8	1395.1	1267.8	1121.7	1119.0	1085.5
75°	1490.2	1052.0	778.6	766.6	682.1	872.4	1357.5	1232.9	1078.8	1035.9	1023.9
77.5°	872.4	750.5	690.2	700.9	608.4	792.0	1302.6	1172.6	1019.8	968.9	955.5
80°	635.2	561.5	588.3	605.7	520.0	711.6	1228.9	1098.9	954.2	979.6	960.9
82.5°	407.4	361.8	477.1	494.5	432.9	629.9	1148.5	1021.2	861.7	782.6	763.9
85°	207.7	229.2	355.1	376.6	333.7	517.3	1050.7	918.0	757.2	651.3	662.0
87.5°	116.6	156.8	226.5	253.3	235.9	398.0	852.3	757.2	617.8	502.5	442.2
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)