

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: P191563

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191563  
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-05-LED-E1-T4W-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24416.8 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

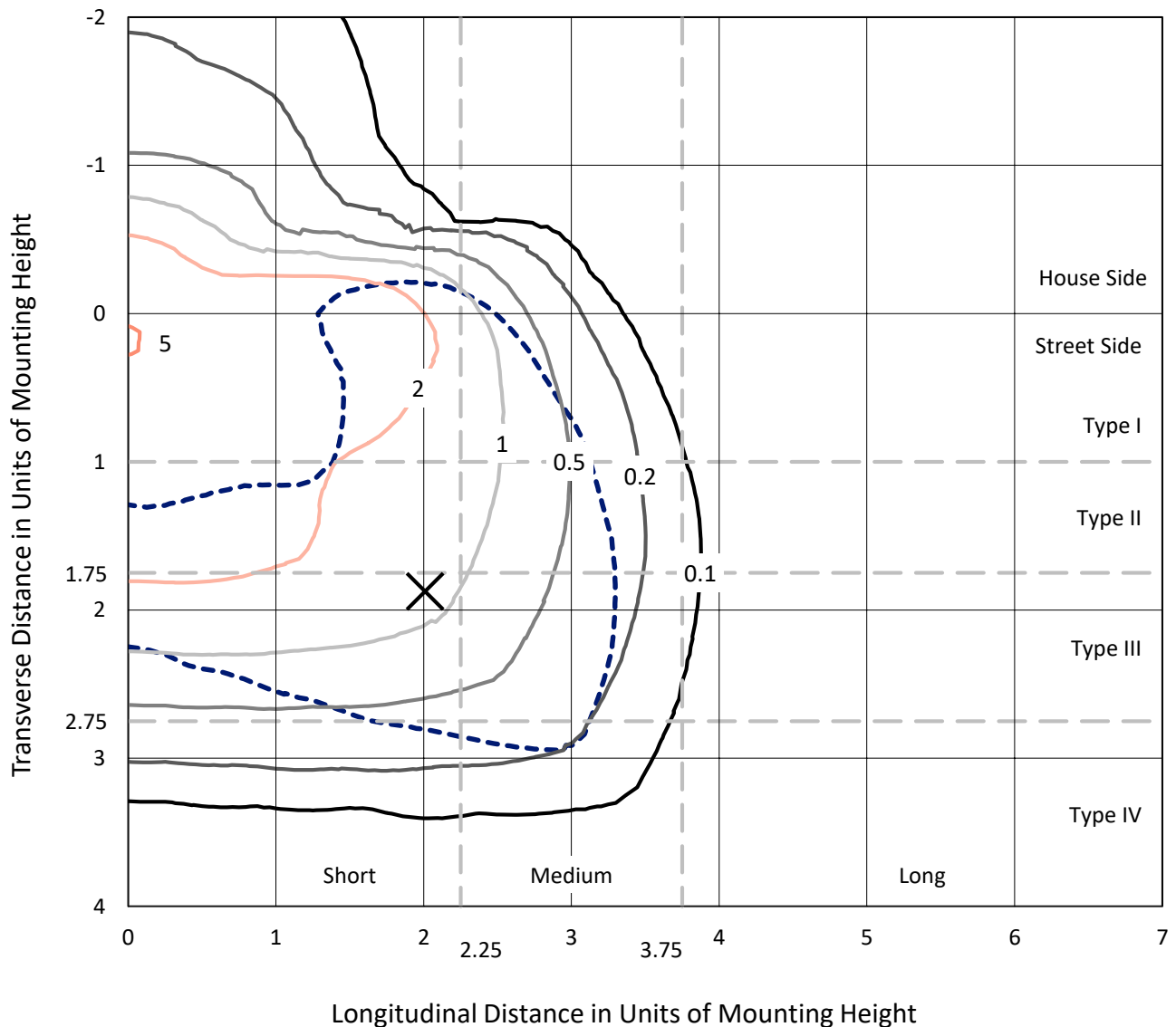
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

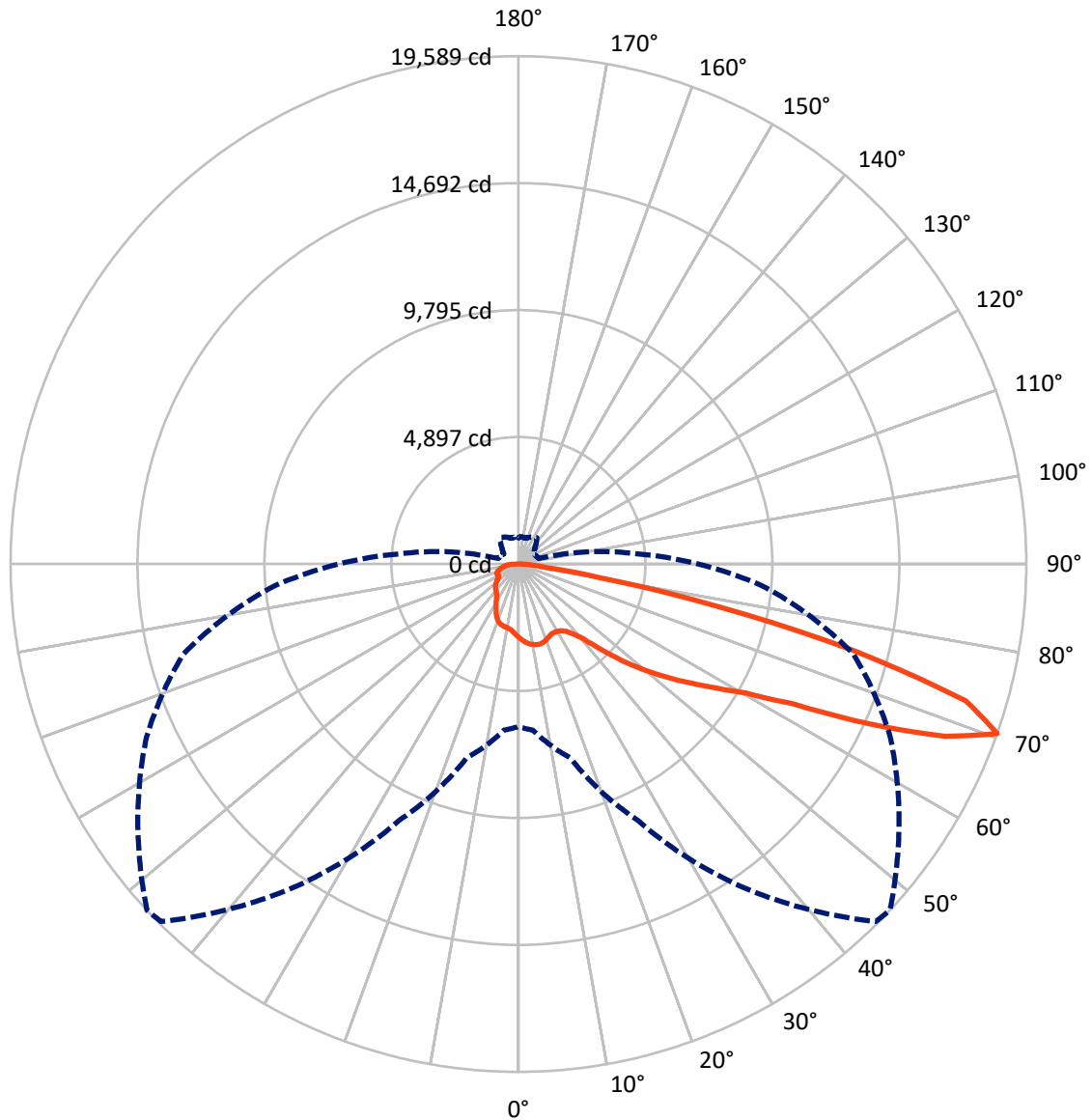
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5093.8	0.0	5093.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	19323.0	0.0	19323.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	24416.8	0.0	24416.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	1.1
10°-20°	796.4	3.3
20°-30°	1176.1	4.8
30°-40°	1709.4	7.0
40°-50°	3076.3	12.6
50°-60°	5329.3	21.8
60°-70°	7606.5	31.2
70°-80°	3904.8	16.0
80°-90°	546.7	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°	24416.8	100.0
0°-180°	24416.8	100.0



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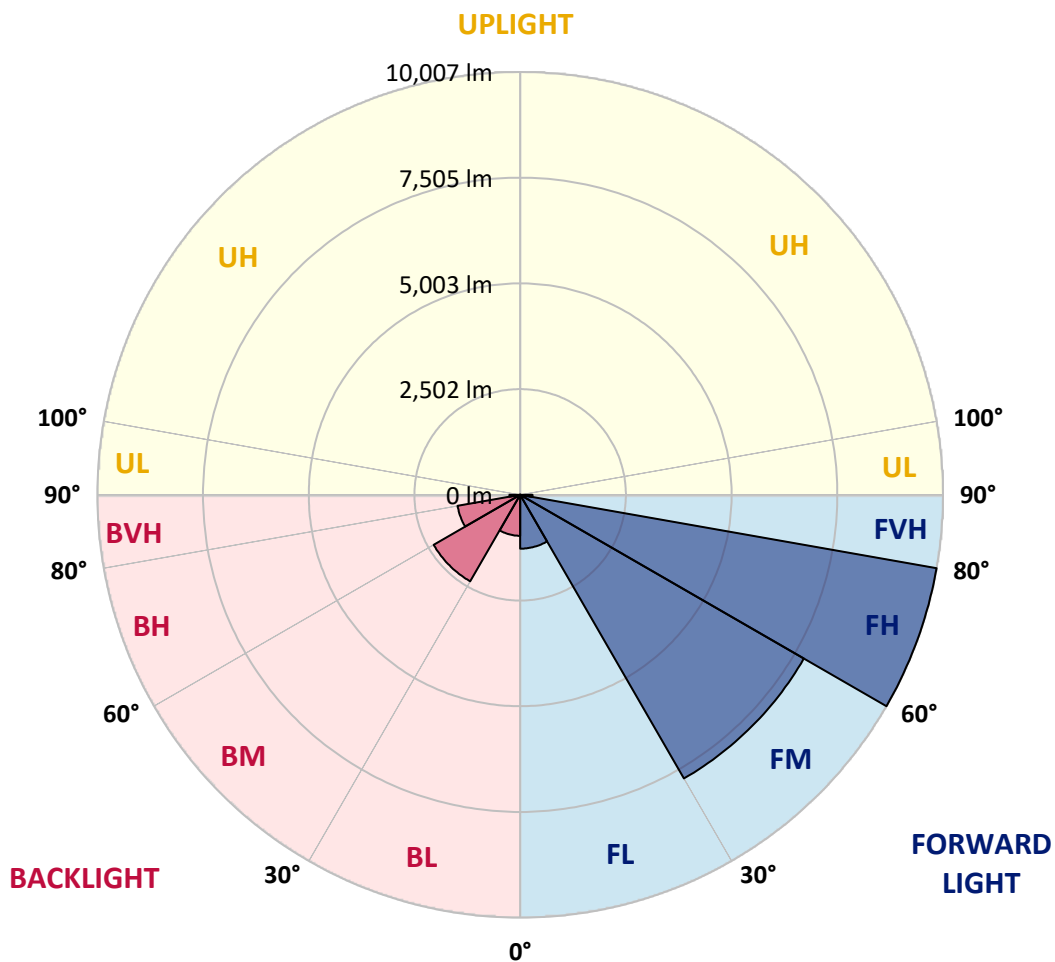
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.0	5.2			
FM	(30°-60°)	7750.6	31.7			
FH	(60°-80°)	10006.7	41.0			G4/12000
FVH	(80°-90°)	291.7	1.2			G3/500
BL	(0°-30°)	969.9	4.0	B2/1000		
BM	(30°-60°)	2364.4	9.7	B2/2500		
BH	(60°-80°)	1504.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	255.0	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°	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1
2.5°	2999.4	2993.5	2991.1	2986.3	2980.4	2950.7	2944.8	2923.4	2893.7	2862.8	2830.7
5°	3196.6	3195.4	3182.4	3158.6	3120.6	3055.2	3039.8	2987.5	2917.5	2849.7	2782.0
7.5°	3370.0	3359.4	3334.4	3286.8	3220.4	3131.3	3109.9	3037.4	2941.2	2848.5	2757.1
10°	3497.2	3491.2	3436.6	3371.2	3284.5	3185.9	3160.9	3080.2	2974.4	2856.9	2742.8
12.5°	3569.6	3557.7	3494.8	3416.3	3313.0	3216.8	3191.8	3109.9	2991.1	2856.9	2722.7
15°	3564.9	3556.5	3493.6	3408.1	3303.5	3219.1	3196.6	3114.7	2987.5	2845.0	2696.5
17.5°	3469.8	3473.4	3419.9	3335.5	3250.0	3185.9	3165.7	3089.7	2963.8	2821.2	2665.6
20°	3303.5	3320.2	3284.5	3209.7	3162.1	3118.2	3105.2	3041.0	2927.0	2786.8	2632.4
22.5°	3137.2	3152.6	3138.4	3075.4	3068.3	3042.2	3035.1	2988.8	2894.8	2765.4	2612.2
25°	3014.8	3029.2	3026.7	2972.1	2993.5	2992.3	2986.3	2963.8	2887.8	2765.4	2615.7
27.5°	2981.6	2986.3	2981.6	2931.7	2961.4	2985.2	2980.4	2976.9	2909.2	2799.8	2660.9
30°	3095.7	3088.5	3051.7	2950.7	2978.0	3011.3	3006.6	3008.9	2973.3	2890.1	2761.9
32.5°	3550.6	3518.5	3402.1	3118.2	3045.7	3063.5	3065.9	3105.2	3111.1	3029.2	2918.7
35°	4231.2	4195.6	4044.7	3567.2	3256.0	3194.3	3194.3	3253.6	3289.3	3228.6	3162.1
37.5°	4952.3	4913.1	4832.3	4189.7	3697.9	3421.2	3415.2	3456.8	3507.8	3522.1	3538.7
40°	5771.9	5730.4	5753.0	4888.2	4314.4	3814.3	3730.0	3700.2	3838.1	3929.6	4062.5
42.5°	6668.8	6649.8	6658.1	5666.2	5016.4	4402.3	4282.4	4129.1	4295.4	4458.1	4737.3
45°	7499.2	7515.7	7507.4	6498.9	5798.1	5119.8	4992.7	4695.8	4858.5	5137.6	5592.6
47.5°	8226.2	8157.2	8264.1	7408.8	6673.5	5922.8	5766.0	5368.0	5533.1	5877.7	6647.4
50°	9108.8	9099.2	8942.4	8622.9	7732.0	6729.4	6523.9	6062.9	6319.6	6798.3	7976.7
52.5°	10036.5	9864.2	9720.5	9567.2	8854.6	7556.1	7304.3	6755.5	7243.7	7846.0	9596.9
55°	10226.5	10149.3	10327.5	10585.3	9936.6	8415.0	8121.6	7623.8	8284.4	9043.4	11465.4
57.5°	10632.8	10631.6	10999.8	11459.5	11050.9	9326.1	9030.3	8672.8	9454.4	10415.4	13449.2
60°	10907.2	10984.3	11668.6	12560.7	12145.0	10378.6	10106.5	9883.2	10784.9	11949.0	15297.6
62.5°	11050.9	11155.5	12089.1	13007.3	13691.6	12130.7	11858.7	11536.7	12545.3	13631.0	16378.6
65°	10453.4	10658.9	12023.8	13393.4	15045.8	14971.0	14848.5	14283.2	14746.4	14960.2	15987.8
67.5°	8799.8	9010.2	10599.5	13033.5	16012.8	17710.2	17736.3	16770.6	16100.6	15074.3	13442.1
70°	6269.7	6434.8	7749.8	10927.4	15276.2	19500.3	19589.4	17916.9	15831.0	13368.4	9391.4
72.5°	2976.9	3077.9	4322.7	7111.9	12122.4	17867.0	18039.2	16453.4	13461.1	9897.5	5123.3
75°	1094.0	1124.9	1461.1	3025.6	7031.2	13176.0	13379.2	11794.5	8923.4	4927.3	1951.7
77.5°	655.7	675.9	819.7	1276.9	2765.4	7531.2	7831.7	6414.6	3899.8	1834.0	959.8
80°	458.5	472.8	588.0	794.7	1306.7	2869.9	3137.2	2618.1	1553.8	1160.5	698.5
82.5°	310.1	317.1	413.4	536.9	868.4	1025.1	1105.9	1164.1	1047.7	863.6	443.0
85°	203.2	210.2	280.4	353.9	552.4	529.8	541.7	685.4	765.0	586.9	245.9
87.5°	116.4	121.1	168.7	188.8	270.9	224.5	226.9	361.1	489.4	395.6	149.7
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°	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1	2833.1
2.5°	2822.4	2807.0	2772.5	2751.1	2731.0	2726.2	2717.9	2716.7	2715.5	2715.5	2711.9
5°	2759.5	2733.3	2679.8	2650.2	2625.2	2622.8	2621.6	2627.7	2630.0	2632.4	2628.8
7.5°	2719.1	2683.4	2616.9	2574.2	2544.5	2537.3	2549.2	2576.5	2594.3	2601.5	2597.9
10°	2694.1	2650.2	2572.9	2526.6	2501.7	2498.1	2513.6	2545.6	2582.4	2596.8	2595.5
12.5°	2665.6	2615.7	2533.7	2485.1	2470.8	2477.9	2498.1	2527.8	2565.9	2588.4	2589.6
15°	2637.1	2578.9	2494.6	2451.8	2445.9	2455.4	2474.4	2496.9	2526.6	2549.2	2551.5
17.5°	2602.7	2542.0	2457.7	2413.8	2409.0	2413.8	2415.0	2426.8	2445.9	2467.3	2473.2
20°	2565.9	2504.1	2416.2	2372.2	2350.8	2331.8	2310.4	2312.8	2318.7	2340.1	2344.9
22.5°	2539.7	2477.9	2384.1	2323.5	2266.4	2209.5	2166.7	2160.8	2163.1	2180.9	2186.9
25°	2542.0	2476.8	2375.8	2271.3	2146.6	2055.0	1998.0	1988.5	1987.3	2000.4	2008.7
27.5°	2588.4	2523.1	2406.7	2217.8	2015.8	1880.4	1819.8	1812.7	1803.3	1806.7	1816.2
30°	2691.8	2631.1	2481.5	2163.1	1874.5	1709.4	1646.4	1639.3	1626.2	1620.3	1627.4
32.5°	2860.5	2810.6	2590.8	2110.9	1733.1	1563.3	1499.1	1483.7	1475.4	1468.2	1474.2
35°	3140.8	3119.4	2736.9	2053.9	1608.4	1450.4	1392.2	1368.4	1356.5	1369.6	1379.1
37.5°	3580.3	3592.2	2928.1	1964.8	1512.2	1375.6	1326.9	1299.6	1281.8	1292.4	1303.1
40°	4202.8	4211.1	3139.5	1838.9	1429.1	1331.6	1279.4	1254.4	1229.5	1210.5	1209.2
42.5°	5020.0	4935.6	3347.5	1702.3	1332.8	1304.3	1246.1	1215.2	1177.2	1124.9	1114.2
45°	5989.4	5693.5	3505.4	1545.5	1224.7	1271.0	1209.2	1166.5	1107.1	1050.1	1044.1
47.5°	7105.9	6507.2	3582.7	1382.7	1123.7	1222.3	1164.1	1096.4	1021.6	993.1	989.5
50°	8469.6	7473.0	3619.5	1224.7	1035.8	1158.2	1098.8	1019.2	956.3	950.3	946.7
52.5°	10022.2	8634.7	3631.4	1095.3	963.4	1075.0	1045.4	968.1	918.2	923.0	923.0
55°	11647.2	9834.5	3469.8	1001.4	896.8	989.5	1009.8	948.0	906.3	925.4	932.5
57.5°	13139.2	10897.7	2961.4	928.9	833.9	924.1	996.7	966.9	938.5	1015.7	1020.4
60°	14284.4	11526.1	2211.8	863.6	787.6	901.6	1031.1	1039.4	1046.5	1230.6	1255.6
62.5°	14524.3	11317.0	1520.5	812.5	766.2	920.7	1094.0	1095.3	1086.9	1215.2	1230.6
65°	13423.2	9994.8	1105.9	784.0	748.4	955.0	1147.5	1122.6	1068.0	1165.3	1136.8
67.5°	10660.1	7530.0	920.7	762.6	722.2	952.7	1204.5	1147.5	1057.2	1141.5	1095.3
70°	6919.4	4553.2	819.7	744.8	691.3	907.6	1237.8	1145.1	1026.3	1061.9	1007.3
72.5°	3375.9	2036.1	752.0	718.6	659.3	844.5	1236.5	1123.7	994.3	991.9	962.2
75°	1320.9	932.5	690.2	679.4	604.7	773.4	1203.3	1092.8	956.3	918.2	907.6
77.5°	773.4	665.2	611.7	621.2	539.3	702.1	1154.6	1039.4	904.0	858.9	847.0
80°	563.0	497.8	521.5	536.9	460.9	630.8	1089.3	974.1	845.8	868.4	851.7
82.5°	361.1	320.7	422.9	438.3	383.7	558.3	1018.0	905.2	763.8	693.8	677.1
85°	184.1	203.2	314.8	333.8	295.7	458.5	931.3	813.7	671.2	577.4	586.9
87.5°	103.3	139.0	200.7	224.5	209.1	352.8	755.4	671.2	547.6	445.5	392.0
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)