

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: P302852

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-T4W-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24730.6 lumens  
Efficiency: N/A  
Efficacy: 99.3 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): 249  
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

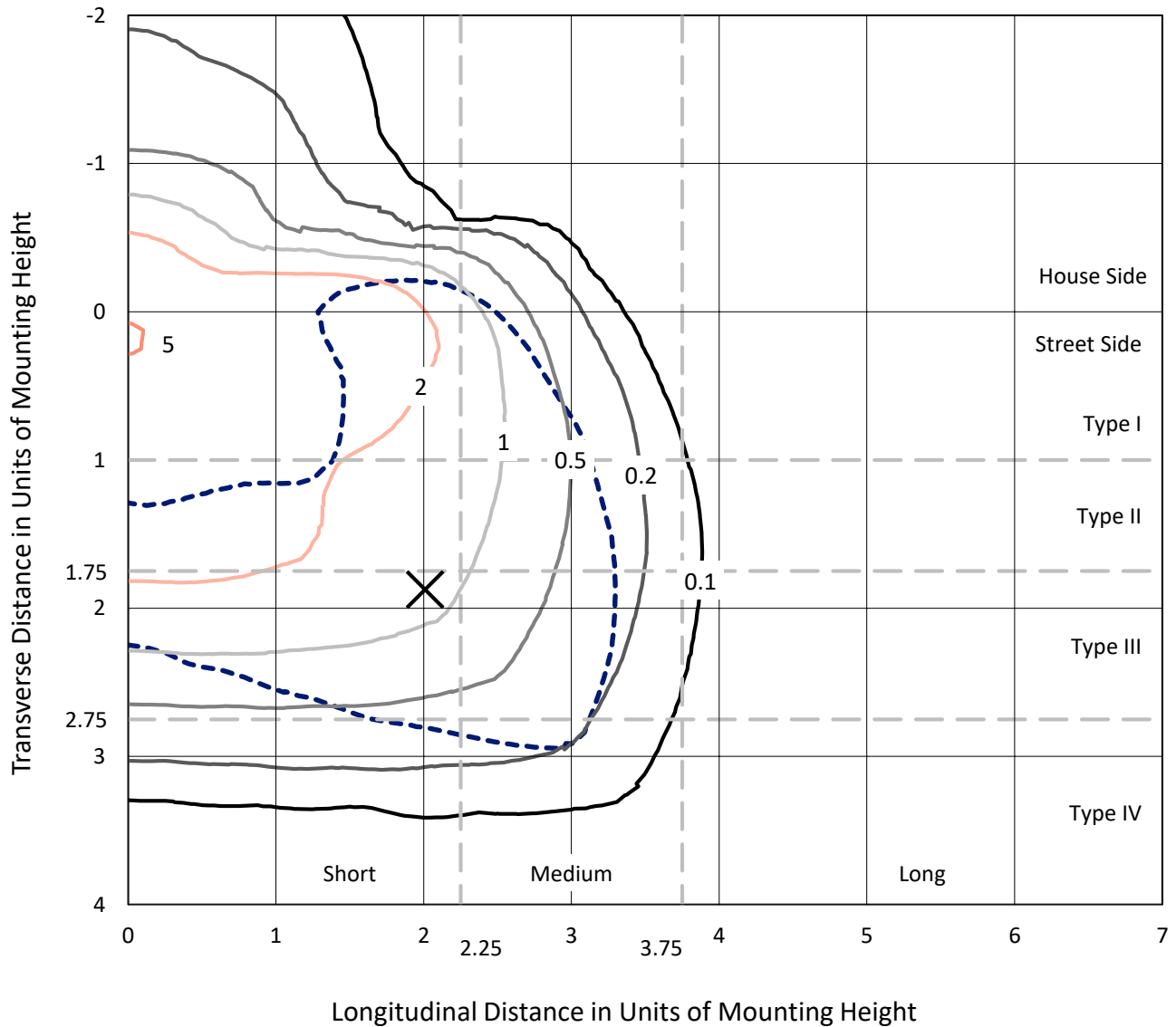


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### Iso-Footcandle Lines of Horizontal Illumination

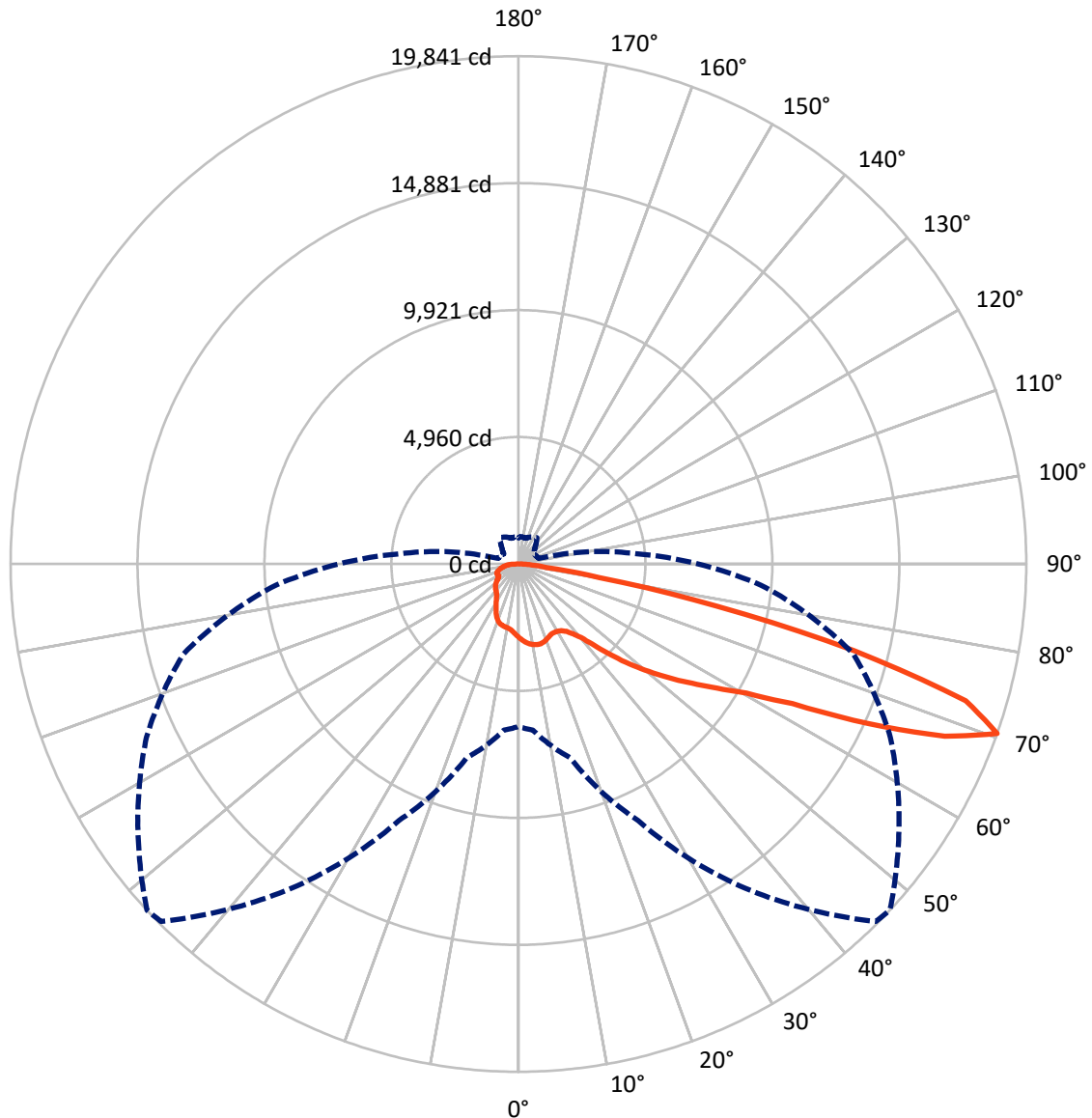
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5159.3	0.0	5159.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	19571.3	0.0	19571.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	24730.6	0.0	24730.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.9	1.1
10°-20°	806.6	3.3
20°-30°	1191.2	4.8
30°-40°	1731.4	7.0
40°-50°	3115.8	12.6
50°-60°	5397.8	21.8
60°-70°	7704.3	31.2
70°-80°	3954.9	16.0
80°-90°	553.7	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°	24730.6	100.0
0°-180°	24730.6	100.0



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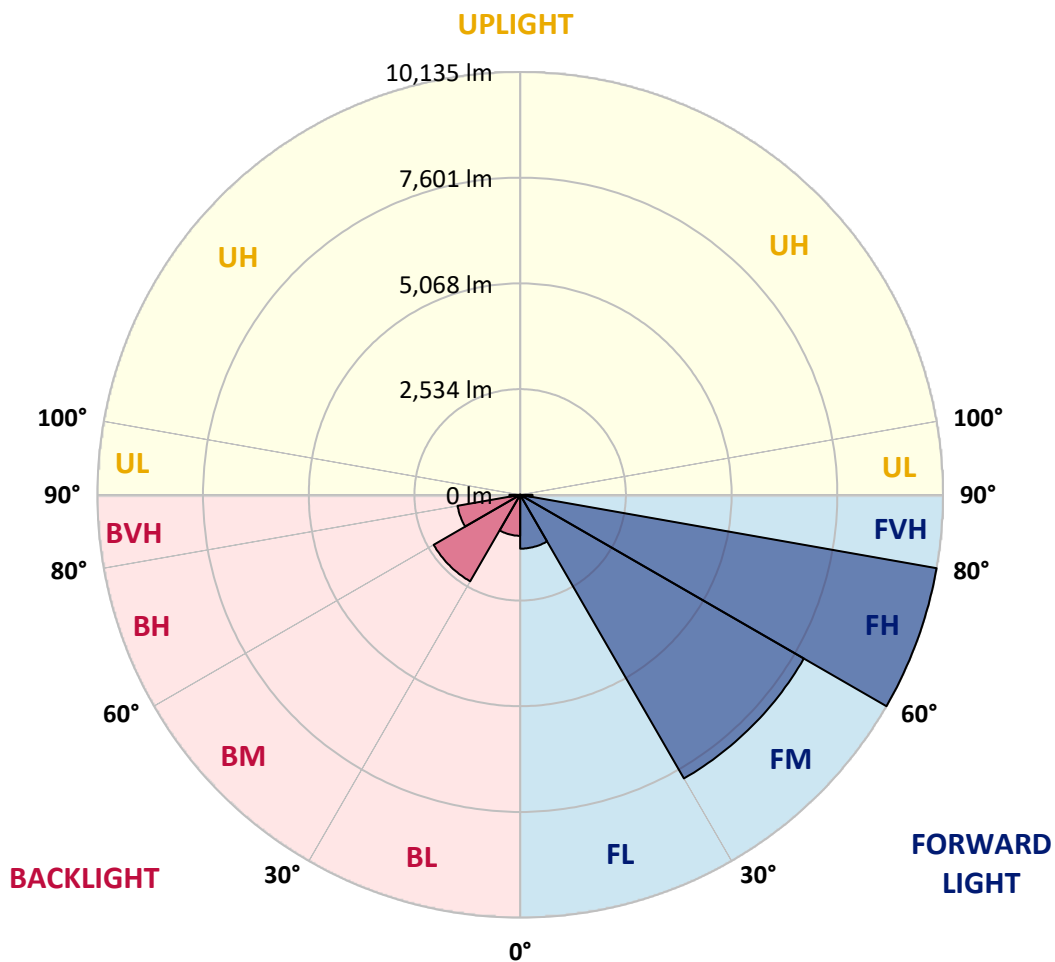
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1290.4	5.2			
FM	(30°-60°)	7850.2	31.7			
FH	(60°-80°)	10135.3	41.0			G4/12000
FVH	(80°-90°)	295.5	1.2			G3/500
BL	(0°-30°)	982.4	4.0	B2/1000		
BM	(30°-60°)	2394.8	9.7	B2/2500		
BH	(60°-80°)	1523.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	258.2	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°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	3038.1	3032.1	3029.7	3024.9	3018.9	2988.5	2982.5	2961.0	2931.0	2899.4	2867.1
5°	3237.9	3236.7	3223.1	3199.1	3160.8	3094.4	3078.8	3026.1	2955.0	2886.2	2817.9
7.5°	3413.3	3402.5	3377.3	3329.0	3261.9	3171.5	3150.0	3076.4	2978.9	2885.0	2792.3
10°	3542.0	3536.0	3480.8	3414.5	3326.6	3226.7	3201.5	3119.6	3012.5	2893.4	2777.9
12.5°	3615.5	3603.5	3539.6	3460.4	3355.8	3258.3	3232.7	3150.0	3029.7	2893.4	2757.6
15°	3610.7	3602.3	3538.4	3451.7	3346.2	3260.7	3237.9	3154.8	3026.1	2881.4	2731.2
17.5°	3514.4	3518.0	3464.0	3378.5	3291.8	3226.7	3206.3	3129.6	3001.7	2857.5	2700.0
20°	3346.2	3362.9	3326.6	3251.1	3202.7	3158.4	3145.2	3080.0	2964.6	2822.7	2666.1
22.5°	3177.5	3193.1	3178.7	3114.8	3107.6	3081.2	3074.0	3027.3	2932.2	2801.1	2645.7
25°	3053.7	3068.1	3065.7	3010.1	3032.1	3030.9	3024.9	3001.7	2925.0	2801.1	2649.3
27.5°	3020.1	3024.9	3020.1	2969.4	2999.3	3023.7	3018.9	3014.9	2946.6	2835.9	2695.2
30°	3135.6	3128.4	3090.8	2988.5	3016.5	3050.1	3045.3	3047.7	3011.3	2927.4	2797.5
32.5°	3596.3	3563.5	3445.7	3158.4	3084.8	3102.8	3105.2	3145.2	3151.2	3068.1	2956.2
35°	4285.6	4249.6	4096.6	3613.1	3297.8	3235.5	3235.5	3295.4	3331.4	3270.2	3202.7
37.5°	5016.1	4976.1	4894.6	4243.6	3745.4	3465.2	3459.3	3501.2	3552.8	3567.5	3584.3
40°	5846.0	5804.0	5826.8	4950.9	4369.9	3863.2	3777.7	3747.8	3887.2	3979.9	4115.0
42.5°	6754.7	6735.1	6743.5	5738.9	5080.8	4459.0	4337.5	4182.1	4350.7	4515.4	4798.3
45°	7595.4	7612.2	7603.8	6582.4	5872.8	5185.5	5056.8	4755.9	4921.0	5203.5	5664.6
47.5°	8331.9	8261.9	8370.2	7503.9	6759.5	5999.0	5840.0	5437.2	5604.2	5953.1	6732.7
50°	9225.7	9216.1	9057.5	8733.8	7831.2	6815.8	6607.6	6140.9	6400.6	6885.7	8079.3
52.5°	10165.6	9990.9	9845.5	9690.1	8968.4	7653.3	7398.0	6842.2	7336.9	7946.6	9720.4
55°	10357.8	10279.9	10460.1	10721.4	10064.5	8523.3	8226.0	7721.7	8391.0	9159.8	11612.9
57.5°	10769.3	10768.2	11141.4	11606.9	11192.9	9445.9	9146.2	8784.2	9575.8	10549.2	13622.0
60°	11047.5	11125.4	11818.7	12722.1	12301.0	10512.0	10236.3	10010.1	10923.6	12102.4	15494.1
62.5°	11192.9	11298.8	12244.6	13174.5	13867.4	12286.6	12011.3	11685.2	12706.6	13806.2	16589.0
65°	10587.9	10795.7	12178.3	13565.7	15239.2	15163.2	15039.4	14466.8	14935.9	15152.5	16193.4
67.5°	8912.9	9125.8	10735.8	13200.9	16218.6	17938.0	17964.4	16986.2	16307.7	15267.9	13614.8
70°	6350.3	6517.3	7849.5	11067.8	15472.5	19750.9	19841.2	18147.0	16034.3	13540.1	9512.2
72.5°	3014.9	3117.2	4378.3	7203.4	12278.2	18096.6	18271.3	16664.9	13634.0	10024.5	5189.1
75°	1108.1	1139.2	1479.7	3064.5	7121.5	13345.5	13551.3	11946.1	9037.9	4990.9	1976.8
77.5°	664.1	684.5	830.3	1293.5	2801.1	7628.2	7932.3	6496.9	3949.9	1857.7	972.2
80°	464.3	478.7	595.4	804.8	1323.4	2907.0	3177.5	2651.7	1573.6	1175.6	707.3
82.5°	314.1	321.3	418.8	543.8	879.5	1038.1	1120.1	1179.2	1061.3	874.7	448.7
85°	205.8	213.0	284.1	358.4	559.4	536.6	548.6	694.1	774.8	594.2	248.9
87.5°	117.9	122.7	171.0	191.4	274.5	227.4	229.8	365.6	495.9	400.8	151.4
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°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	2858.7	2843.1	2808.3	2786.3	2766.0	2761.2	2752.8	2751.6	2750.4	2750.4	2746.8
5°	2794.7	2768.4	2714.4	2684.0	2658.9	2656.5	2655.3	2661.3	2663.7	2666.1	2662.5
7.5°	2754.0	2718.0	2650.5	2607.3	2577.4	2569.8	2582.2	2609.7	2627.7	2634.9	2631.3
10°	2728.8	2684.0	2606.1	2559.0	2533.8	2530.2	2545.8	2578.6	2615.7	2630.1	2628.9
12.5°	2700.0	2649.3	2566.2	2517.0	2502.6	2509.8	2530.2	2560.2	2598.9	2621.7	2622.9
15°	2670.9	2612.1	2526.6	2483.5	2477.5	2487.0	2506.2	2529.0	2559.0	2582.2	2584.5
17.5°	2636.1	2574.6	2489.4	2444.7	2439.9	2444.7	2445.9	2457.9	2477.5	2499.0	2505.0
20°	2598.9	2536.2	2447.1	2402.7	2381.2	2362.0	2340.0	2342.4	2348.4	2370.4	2375.2
22.5°	2572.2	2509.8	2414.7	2353.2	2295.6	2237.7	2194.5	2188.6	2191.0	2208.9	2214.9
25°	2574.6	2508.6	2406.3	2300.4	2174.2	2081.5	2023.5	2013.9	2012.7	2025.9	2034.7
27.5°	2621.7	2555.4	2437.5	2246.1	2041.9	1904.4	1843.3	1836.1	1826.5	1830.1	1839.7
30°	2726.4	2664.9	2513.4	2191.0	1898.5	1731.4	1667.5	1660.3	1647.1	1641.1	1648.3
32.5°	2897.0	2846.7	2624.1	2137.8	1755.4	1583.2	1518.4	1502.9	1494.5	1487.3	1493.3
35°	3181.1	3159.6	2772.0	2080.3	1629.1	1468.9	1410.2	1386.2	1374.2	1387.4	1397.0
37.5°	3626.3	3638.3	2965.8	1990.0	1531.6	1393.4	1343.8	1316.2	1298.3	1309.1	1319.8
40°	4256.8	4265.2	3179.9	1862.5	1447.3	1348.6	1295.9	1270.7	1245.1	1225.9	1224.7
42.5°	5084.4	4999.3	3390.5	1724.2	1349.8	1321.0	1262.3	1230.7	1192.4	1139.2	1128.4
45°	6066.2	5766.9	3550.4	1565.2	1240.3	1287.5	1224.7	1181.6	1121.2	1063.7	1057.7
47.5°	7197.4	6590.8	3628.7	1400.6	1138.0	1237.9	1179.2	1110.5	1034.5	1005.8	1002.2
50°	8578.4	7569.0	3665.8	1240.3	1049.3	1173.2	1112.9	1032.1	968.6	962.6	959.0
52.5°	10151.2	8745.8	3678.2	1109.3	975.8	1088.9	1058.9	980.6	929.8	935.0	935.0
55°	11797.1	9961.0	3514.4	1014.2	908.3	1002.2	1022.6	960.2	917.9	937.4	944.6
57.5°	13307.9	11037.9	2999.3	941.0	844.7	936.2	1009.4	979.4	950.6	1028.5	1033.3
60°	14468.0	11674.0	2240.1	874.7	797.6	913.1	1044.5	1052.9	1060.1	1246.3	1271.9
62.5°	14710.9	11462.6	1540.0	823.2	776.0	932.6	1108.1	1109.3	1100.9	1230.7	1246.3
65°	13595.6	10123.2	1120.1	794.0	758.0	967.4	1162.4	1136.8	1081.7	1180.4	1151.2
67.5°	10796.9	7627.0	932.6	772.4	731.6	965.0	1219.9	1162.4	1070.9	1156.4	1109.3
70°	7008.4	4611.7	830.3	754.4	700.1	919.1	1253.5	1160.0	1039.3	1075.7	1020.2
72.5°	3419.3	2062.3	761.6	728.1	667.7	855.5	1252.3	1138.0	1007.0	1004.6	974.6
75°	1337.8	944.6	698.9	688.1	612.6	783.2	1218.7	1106.9	968.6	929.8	919.1
77.5°	783.2	673.7	619.8	629.4	546.2	710.9	1169.6	1052.9	915.5	869.9	857.9
80°	570.2	504.3	528.3	543.8	466.7	638.9	1103.3	986.6	856.7	879.5	862.7
82.5°	365.6	324.9	428.4	443.9	388.8	565.4	1030.9	916.7	773.6	702.5	685.7
85°	186.6	205.8	318.9	338.1	299.7	464.3	943.4	824.4	679.7	584.6	594.2
87.5°	104.7	140.7	203.4	227.4	211.8	357.2	765.2	679.7	554.6	451.1	397.2
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)