

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: P302913

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302913  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22450.7 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

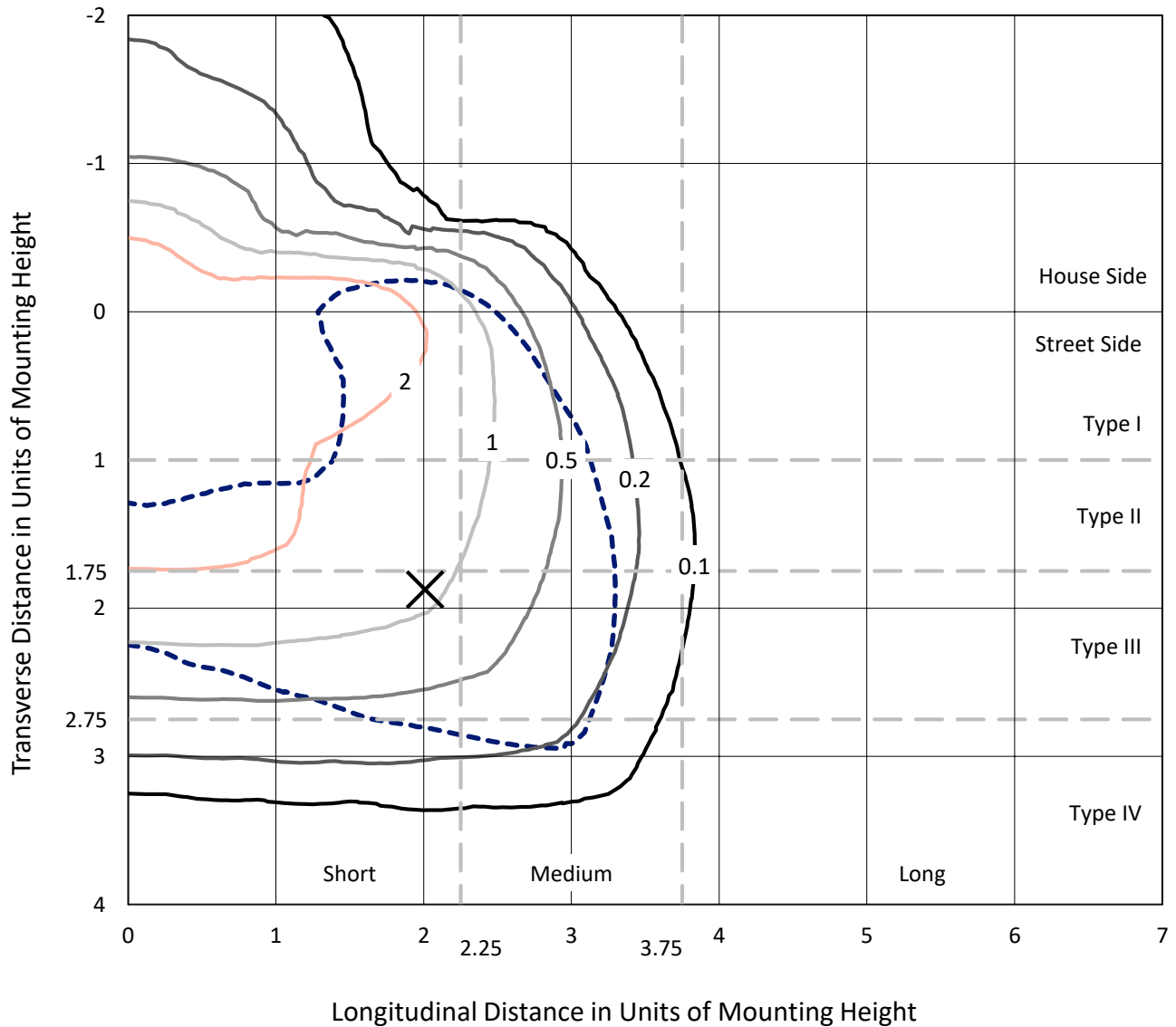
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

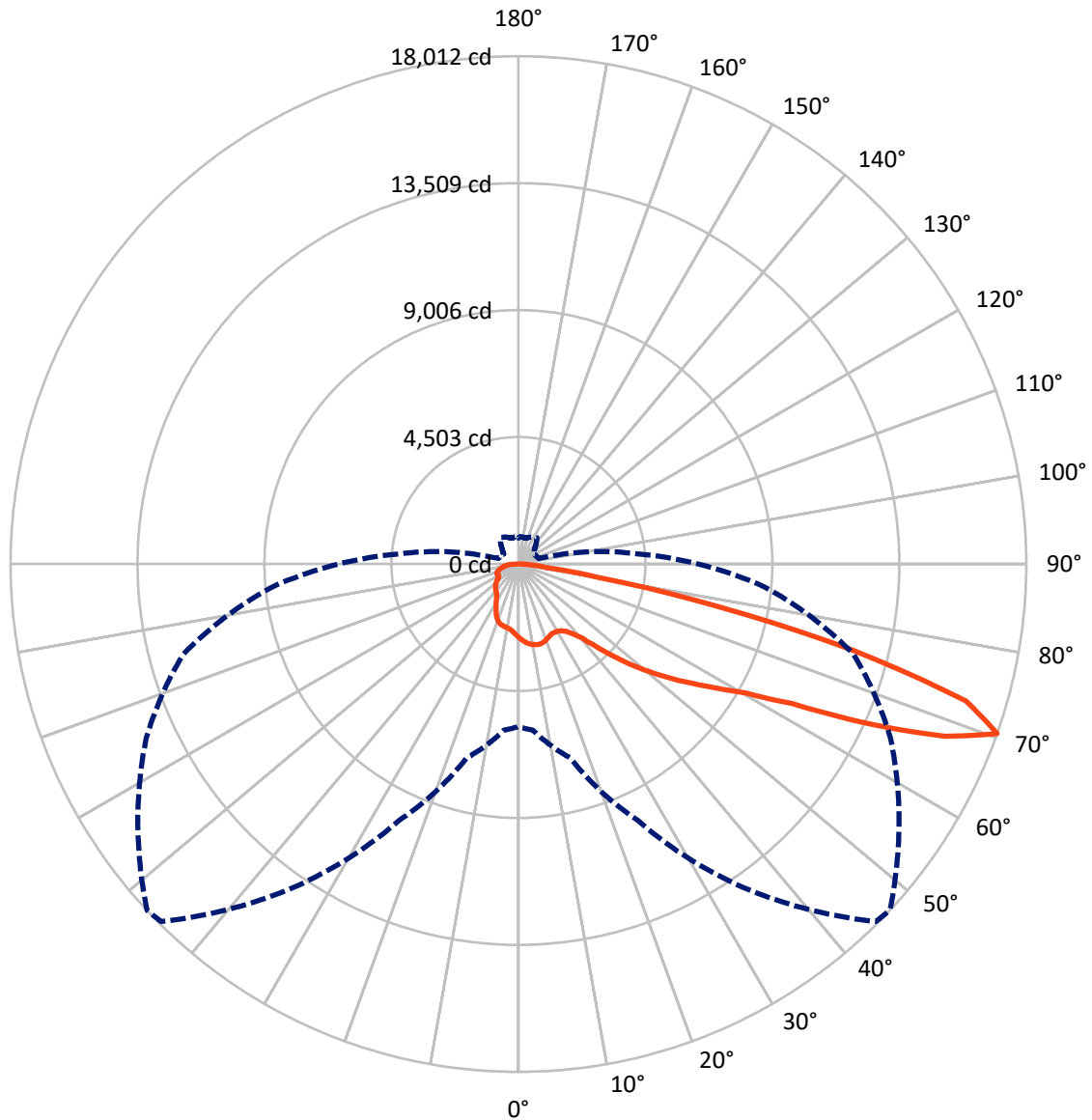
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	4683.7	0.0	4683.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	17767.0	0.0	17767.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	22450.7	0.0	22450.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	1.1
10°-20°	732.3	3.3
20°-30°	1081.4	4.8
30°-40°	1571.7	7.0
40°-50°	2828.6	12.6
50°-60°	4900.2	21.8
60°-70°	6994.0	31.2
70°-80°	3590.3	16.0
80°-90°	502.7	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°	22450.7	100.0
0°-180°	22450.7	100.0

**Coefficient of Utilization**



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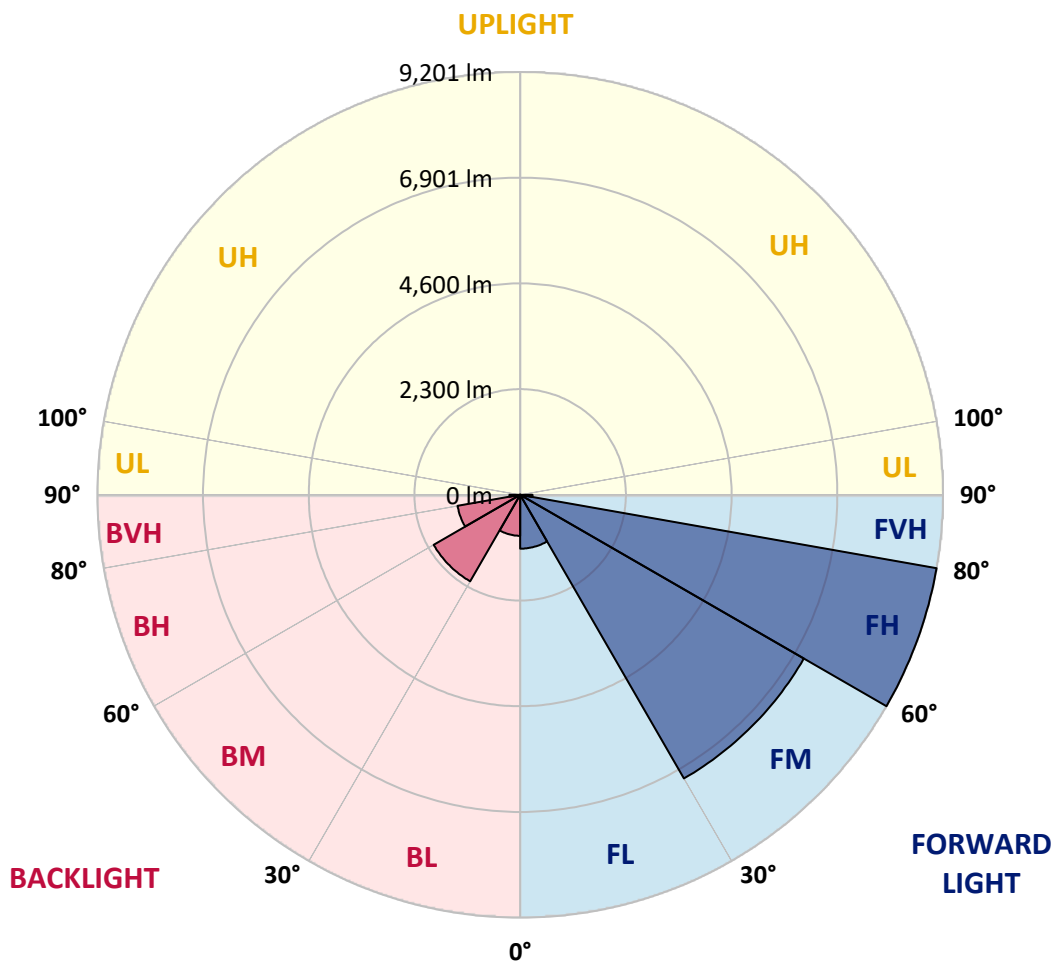
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1171.4	5.2			
FM	(30°-60°)	7126.5	31.7			
FH	(60°-80°)	9200.9	41.0			G4/12000
FVH	(80°-90°)	268.2	1.2			G3/500
BL	(0°-30°)	891.8	4.0	B2/1000		
BM	(30°-60°)	2174.0	9.7	B2/2500		
BH	(60°-80°)	1383.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	234.4	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°	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9
2.5°	2758.0	2752.6	2750.4	2746.0	2740.6	2713.0	2707.6	2688.0	2660.8	2632.1	2602.7
5°	2939.4	2938.3	2926.0	2904.2	2869.4	2809.2	2795.0	2747.1	2682.6	2620.2	2558.1
7.5°	3098.6	3088.8	3066.0	3022.1	2961.1	2879.2	2859.6	2792.8	2704.3	2619.1	2534.9
10°	3215.4	3210.0	3159.9	3099.7	3019.9	2929.2	2906.4	2832.0	2734.8	2626.7	2521.9
12.5°	3282.2	3271.3	3213.3	3141.4	3046.4	2957.9	2934.7	2859.6	2750.4	2626.7	2503.4
15°	3277.8	3270.2	3212.2	3133.5	3037.7	2960.1	2939.4	2863.9	2747.1	2615.8	2479.4
17.5°	3190.4	3193.7	3144.7	3067.1	2988.4	2929.2	2910.7	2841.1	2725.0	2594.0	2451.1
20°	3037.7	3052.9	3019.9	2951.3	2907.5	2867.2	2855.2	2796.1	2691.3	2562.5	2420.3
22.5°	2884.6	2898.8	2885.7	2827.7	2821.1	2797.2	2790.7	2748.2	2661.9	2542.9	2401.8
25°	2772.2	2785.2	2783.0	2732.6	2752.6	2751.5	2746.0	2725.0	2655.3	2542.9	2405.0
27.5°	2741.7	2746.0	2741.7	2695.6	2722.8	2744.9	2740.6	2737.0	2674.9	2574.5	2446.8
30°	2846.5	2840.0	2805.9	2713.0	2738.4	2768.9	2764.5	2766.7	2733.7	2657.5	2539.6
32.5°	3264.8	3235.0	3128.0	2867.2	2800.4	2816.8	2818.9	2855.2	2860.7	2785.2	2683.6
35°	3890.5	3857.9	3718.9	3280.0	2993.8	2937.2	2937.2	2991.6	3024.3	2968.8	2907.5
37.5°	4553.6	4517.3	4443.3	3852.4	3400.1	3145.8	3140.3	3178.4	3225.2	3238.6	3253.9
40°	5307.1	5269.0	5289.6	4494.5	3967.1	3507.1	3429.5	3402.3	3528.9	3613.0	3735.6
42.5°	6132.0	6114.2	6121.8	5209.8	4612.4	4047.9	3937.7	3796.6	3949.6	4099.1	4355.9
45°	6895.2	6910.4	6902.8	5975.6	5331.4	4707.4	4590.6	4317.5	4467.3	4723.8	5142.4
47.5°	7563.7	7500.3	7598.6	6812.1	6136.3	5446.0	5301.6	4936.0	5087.6	5404.3	6112.0
50°	8375.2	8366.5	8222.5	7928.7	7109.2	6187.5	5998.5	5574.8	5810.6	6250.9	7334.5
52.5°	9228.4	9069.9	8937.8	8796.7	8141.6	6947.8	6716.0	6211.4	6660.5	7214.0	8824.3
55°	9402.9	9332.2	9495.8	9733.0	9136.6	7737.5	7467.6	7009.8	7617.4	8315.4	10542.3
57.5°	9776.5	9775.4	10114.2	10536.9	10161.0	8575.1	8303.0	7974.4	8693.0	9576.7	12366.2
60°	10029.0	10099.7	10729.1	11549.3	11167.0	9542.9	9292.6	9087.3	9916.5	10986.7	14065.7
62.5°	10161.0	10257.2	11115.8	11959.9	12588.9	11153.9	10904.0	10608.0	11535.1	12533.4	15059.6
65°	9611.8	9800.5	11055.6	12315.1	13834.3	13765.3	13652.9	13133.1	13558.9	13755.6	14700.5
67.5°	8091.2	8284.5	9746.1	11983.9	14723.4	16284.3	16308.2	15420.2	14804.3	13860.4	12359.7
70°	5764.9	5916.5	7125.9	10047.5	14046.1	17930.1	18012.1	16474.0	14556.1	12291.8	8635.3
72.5°	2737.0	2829.8	3974.7	6539.3	11146.3	16428.3	16586.8	15128.6	12377.1	9100.4	4710.7
75°	1005.9	1034.2	1343.3	2781.9	6465.0	12115.2	12302.0	10844.8	8204.7	4530.8	1794.5
77.5°	602.9	621.4	753.8	1174.2	2542.9	6924.9	7201.0	5898.0	3585.8	1686.4	882.6
80°	421.5	434.6	540.5	730.6	1201.4	2639.0	2884.6	2407.2	1428.5	1067.2	642.1
82.5°	285.1	291.7	380.2	493.7	798.4	942.4	1016.8	1070.5	963.5	794.1	407.4
85°	186.8	193.3	257.9	325.4	507.9	487.2	498.1	630.1	703.4	539.4	226.0
87.5°	107.0	111.4	155.3	173.8	249.2	206.4	208.6	331.9	450.2	363.8	137.5
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°	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9	2604.9
2.5°	2595.1	2581.0	2549.4	2529.5	2511.0	2506.6	2499.0	2497.9	2496.8	2496.8	2493.6
5°	2537.1	2513.1	2464.2	2436.6	2413.8	2411.6	2410.5	2415.9	2418.1	2420.3	2417.0
7.5°	2500.1	2467.4	2406.1	2367.0	2339.7	2332.9	2344.1	2369.1	2385.5	2392.0	2388.7
10°	2477.2	2436.6	2365.9	2323.1	2300.2	2296.9	2311.1	2340.8	2374.6	2387.6	2386.5
12.5°	2451.1	2405.0	2329.6	2285.0	2271.9	2278.4	2296.9	2324.2	2359.3	2380.0	2381.1
15°	2424.6	2371.3	2293.7	2254.5	2249.1	2257.8	2275.2	2295.9	2323.1	2344.1	2346.3
17.5°	2393.1	2337.2	2259.9	2219.3	2215.0	2219.3	2220.4	2231.3	2249.1	2268.7	2274.1
20°	2359.3	2302.4	2221.5	2181.2	2161.6	2144.2	2124.3	2126.5	2131.9	2151.8	2156.2
22.5°	2335.0	2278.4	2192.1	2136.2	2084.0	2031.4	1992.2	1986.8	1989.0	2005.3	2010.7
25°	2337.2	2277.4	2184.5	2088.4	1973.7	1889.6	1837.0	1828.3	1827.2	1839.2	1847.1
27.5°	2380.0	2319.8	2212.8	2039.0	1853.7	1728.9	1673.4	1666.8	1658.1	1661.4	1670.1
30°	2475.1	2419.2	2281.7	1989.0	1723.4	1571.8	1513.8	1507.2	1495.3	1489.8	1496.4
32.5°	2630.0	2584.2	2382.2	1940.7	1593.6	1437.2	1378.5	1364.3	1356.7	1350.2	1355.6
35°	2887.9	2868.3	2516.4	1888.5	1478.9	1333.5	1280.2	1258.4	1247.5	1259.5	1268.2
37.5°	3292.0	3302.9	2692.3	1806.5	1390.4	1264.9	1219.9	1194.9	1178.6	1188.4	1198.2
40°	3864.4	3872.0	2886.8	1690.8	1313.9	1224.3	1176.4	1153.6	1130.3	1112.9	1111.8
42.5°	4615.7	4538.4	3077.9	1565.3	1225.4	1199.3	1145.9	1117.3	1082.5	1034.2	1024.4
45°	5506.9	5235.2	3223.1	1420.9	1126.0	1168.8	1111.8	1072.7	1017.9	965.6	960.2
47.5°	6533.9	5983.2	3294.2	1271.4	1033.1	1123.8	1070.5	1008.1	939.2	913.0	909.8
50°	7787.6	6871.2	3327.9	1126.0	952.6	1065.0	1010.3	937.0	879.3	873.9	870.6
52.5°	9215.3	7939.6	3339.1	1007.0	885.8	988.5	961.3	890.2	844.1	848.8	848.8
55°	10709.5	9042.7	3190.4	920.7	824.5	909.8	928.3	871.7	833.2	851.0	857.5
57.5°	12081.1	10020.3	2722.8	854.3	766.9	849.9	916.3	889.1	863.0	933.7	938.1
60°	13134.2	10597.8	2033.6	794.1	724.1	828.9	948.2	955.9	962.4	1131.4	1154.6
62.5°	13354.7	10405.9	1398.0	747.3	704.5	846.7	1005.9	1007.0	999.4	1117.3	1131.4
65°	12342.3	9190.0	1016.8	720.8	688.1	878.2	1055.2	1032.0	982.0	1071.6	1045.1
67.5°	9801.6	6923.8	846.7	701.2	664.2	876.0	1107.5	1055.2	972.2	1049.8	1007.0
70°	6362.3	4186.5	753.8	684.9	635.5	834.3	1138.0	1053.1	943.5	976.5	926.1
72.5°	3104.1	1872.2	691.4	660.9	606.2	776.7	1136.9	1033.1	914.1	912.0	884.8
75°	1214.5	857.5	634.5	624.7	556.1	711.0	1106.4	1004.8	879.3	844.1	834.3
77.5°	711.0	611.6	562.6	571.3	495.9	645.3	1061.8	955.9	831.1	789.7	778.8
80°	517.6	457.8	479.6	493.7	423.7	580.0	1001.6	895.6	777.7	798.4	783.2
82.5°	331.9	294.9	388.9	403.0	353.0	513.3	935.9	832.2	702.3	637.7	622.5
85°	169.4	186.8	289.5	306.9	272.1	421.5	856.5	748.4	617.0	530.7	539.4
87.5°	95.0	127.7	184.6	206.4	192.3	324.3	694.7	617.0	503.5	409.5	360.6
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)