

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: P299726

Luminaire Tested: **GLNA-AF-06-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23750.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

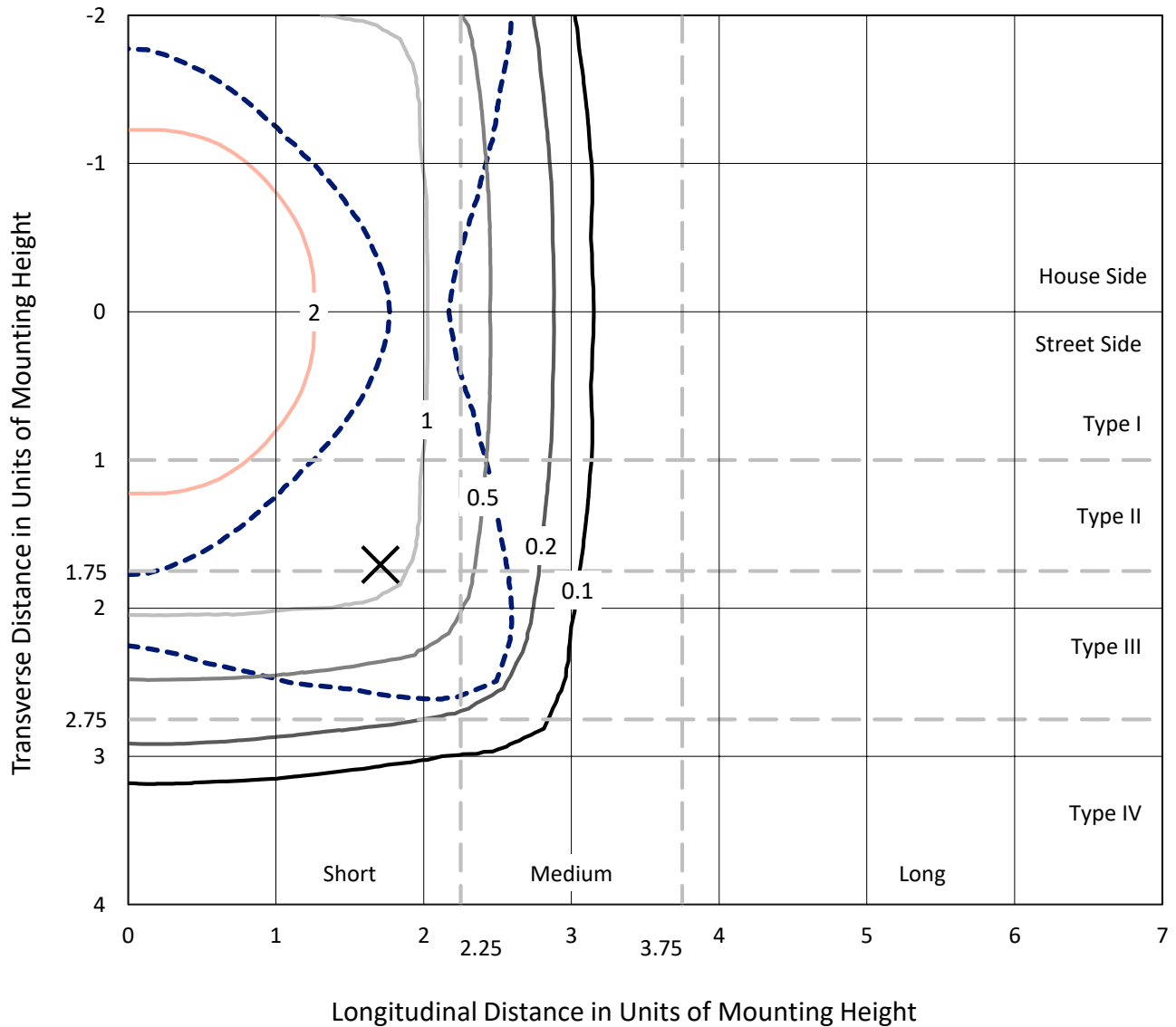
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299726
 CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

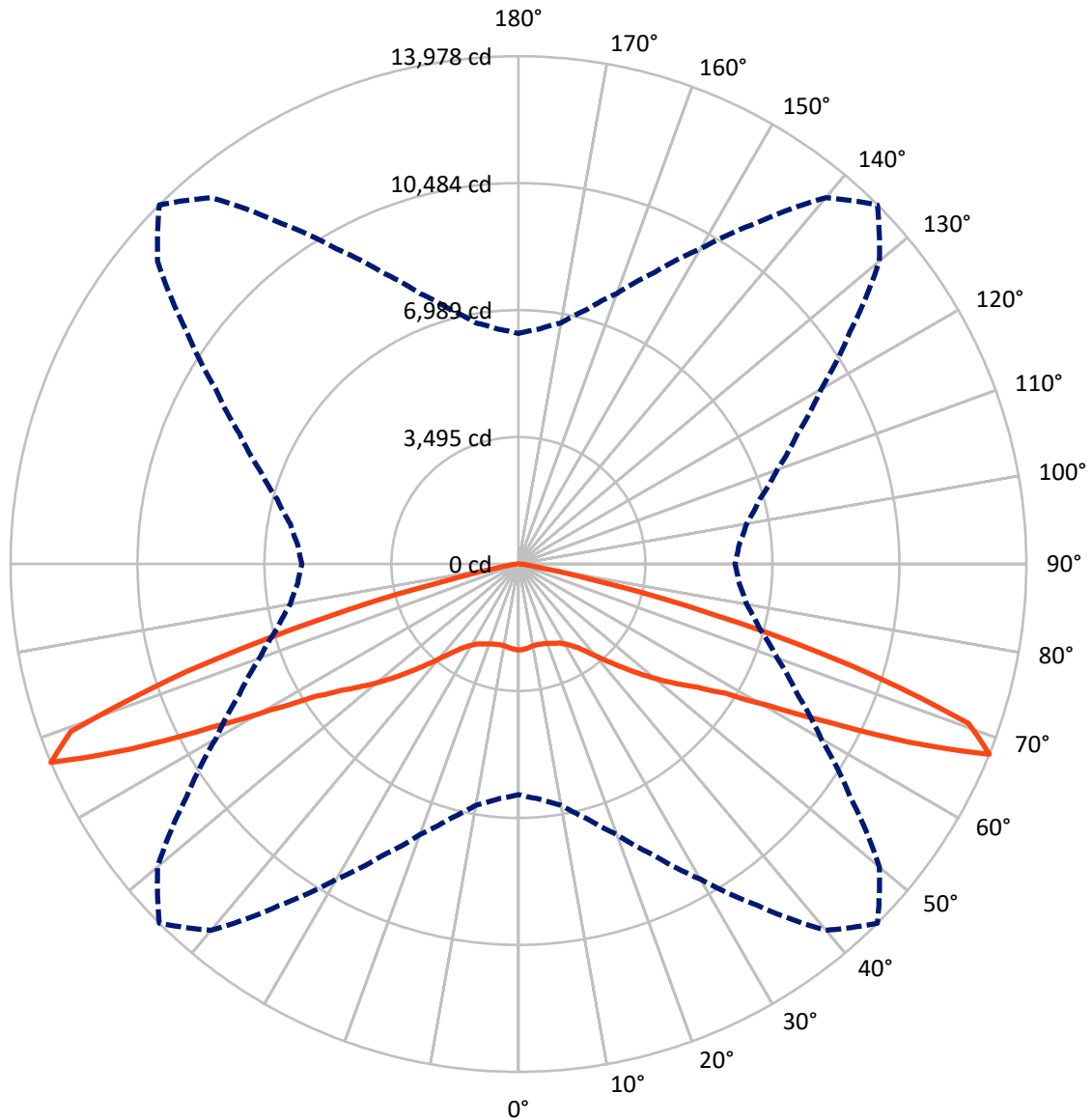


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P299726

CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P299726

CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11875.1	0.0	11875.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11875.1	0.0	11875.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23750.2	0.0	23750.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	0.9
10°-20°	642.8	2.7
20°-30°	1092.8	4.6
30°-40°	1786.4	7.5
40°-50°	3189.0	13.4
50°-60°	5376.7	22.6
60°-70°	8343.8	35.1
70°-80°	2931.6	12.3
80°-90°	165.7	0.7
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°	23750.2	100.0
0°-180°	23750.2	100.0



REPORT NUMBER: P299726

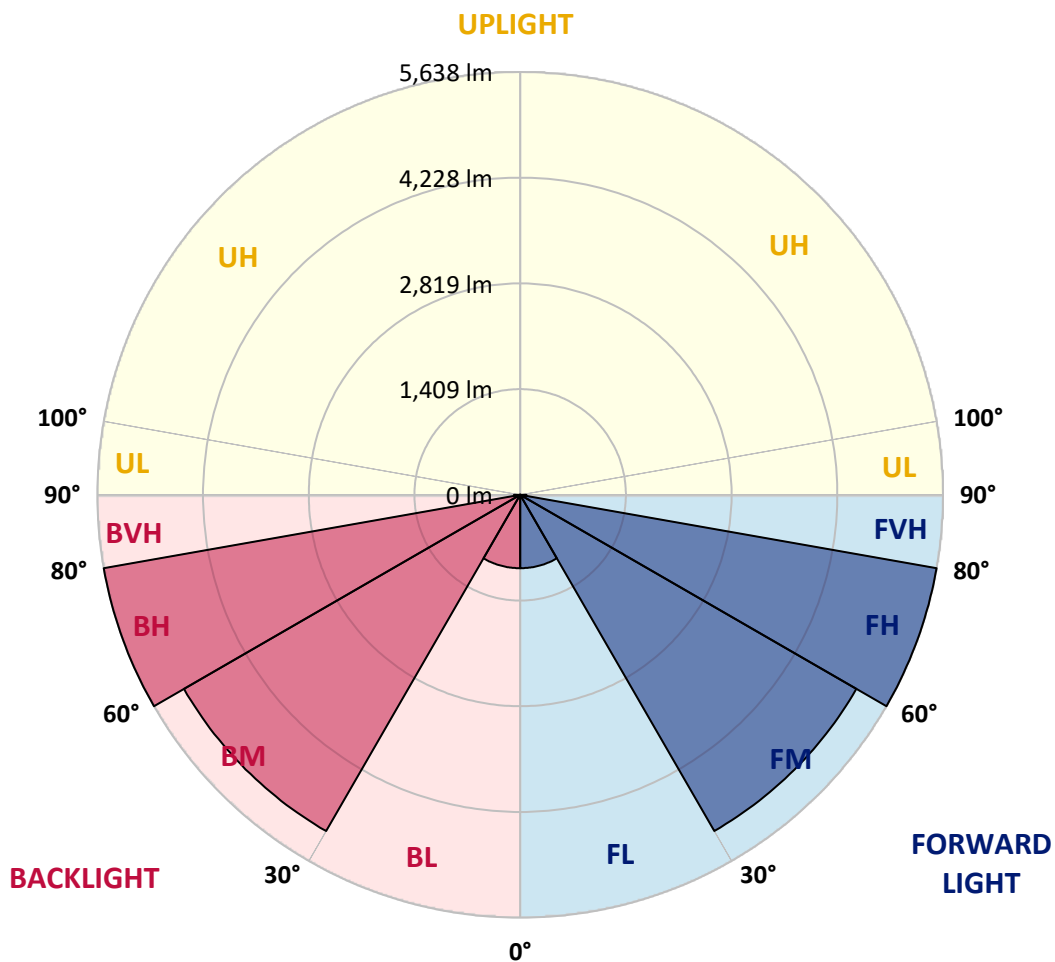
CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.6	4.1			
FM (30°-60°)	5176.0	21.8			
FH (60°-80°)	5637.7	23.7			G3/7500
FVH (80°-90°)	82.8	0.3			G1/100
BL (0°-30°)	978.6	4.1	B2/1000		
BM (30°-60°)	5176.0	21.8	B4/8500		
BH (60°-80°)	5637.7	23.7	B5		G3/7500
BVH (80°-90°)	82.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P299726

CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
2.5°	2358.1	2360.3	2360.3	2360.3	2359.2	2359.2	2357.0	2359.2	2358.1	2354.8	2355.9
5°	2338.4	2340.6	2340.6	2339.5	2342.8	2341.7	2338.4	2340.6	2339.5	2337.3	2338.4
7.5°	2310.0	2313.3	2313.3	2312.2	2315.5	2314.4	2312.2	2313.3	2313.3	2310.0	2310.0
10°	2278.3	2280.5	2280.5	2279.4	2284.9	2284.9	2283.8	2287.1	2288.2	2284.9	2282.7
12.5°	2248.9	2252.1	2252.1	2256.5	2262.0	2264.1	2269.6	2274.0	2278.3	2277.2	2272.9
15°	2231.4	2233.6	2237.9	2243.4	2252.1	2259.8	2268.5	2278.3	2287.1	2289.3	2282.7
17.5°	2220.5	2223.7	2230.3	2237.9	2249.9	2263.1	2276.2	2289.3	2301.3	2305.6	2298.0
20°	2217.2	2219.4	2225.9	2239.0	2255.4	2275.1	2293.6	2308.9	2325.3	2330.8	2325.3
22.5°	2223.7	2228.1	2235.7	2251.0	2272.9	2298.0	2319.8	2340.6	2361.3	2371.2	2363.5
25°	2253.2	2257.6	2267.4	2287.1	2311.1	2337.3	2362.4	2386.5	2405.0	2414.9	2409.4
27.5°	2307.8	2313.3	2325.3	2345.0	2371.2	2399.6	2426.9	2446.5	2461.8	2465.1	2458.6
30°	2389.7	2401.8	2416.0	2437.8	2468.4	2492.4	2519.7	2537.2	2555.8	2555.8	2550.3
32.5°	2517.5	2529.5	2544.8	2565.6	2589.6	2615.8	2639.9	2655.2	2674.8	2675.9	2662.8
35°	2708.7	2714.1	2727.2	2740.3	2762.2	2785.1	2805.9	2815.7	2832.1	2833.2	2821.2
37.5°	2961.0	2962.1	2970.8	2975.2	2994.8	3019.9	3039.6	3046.2	3061.5	3059.3	3047.3
40°	3254.8	3260.2	3263.5	3270.1	3290.8	3314.8	3335.6	3338.9	3355.3	3352.0	3336.7
42.5°	3594.4	3596.6	3615.2	3625.0	3644.7	3656.7	3682.9	3686.2	3705.9	3697.1	3679.6
45°	3975.6	3995.3	4012.8	4032.4	4053.2	4067.4	4088.1	4083.8	4096.9	4083.8	4073.9
47.5°	4376.5	4390.7	4430.0	4460.6	4494.4	4506.4	4535.9	4522.8	4535.9	4517.4	4514.1
50°	4817.7	4842.8	4876.7	4911.6	4947.7	4967.4	5005.6	4989.2	5006.7	4989.2	4979.4
52.5°	5252.4	5259.0	5333.2	5384.6	5434.8	5457.8	5480.7	5473.0	5474.1	5473.0	5463.2
55°	5665.3	5680.6	5754.8	5824.7	5912.1	5976.5	6015.9	6011.5	6001.7	5991.8	5975.5
57.5°	6130.6	6145.8	6231.0	6317.3	6416.7	6508.5	6588.2	6670.1	6701.8	6710.5	6674.5
60°	6759.7	6758.6	6872.2	6977.0	7119.0	7255.5	7430.3	7608.3	7812.5	7907.6	7782.0
62.5°	7399.7	7425.9	7589.7	7775.4	8068.1	8353.2	8675.4	8992.1	9315.4	9578.6	9299.0
65°	7323.2	7423.7	7667.3	8087.8	8628.4	9270.6	9965.3	10700.3	11364.4	11820.9	11308.7
67.5°	6346.8	6489.9	6737.8	7249.0	7925.0	8851.2	10017.7	11471.4	13161.1	13978.0	12965.6
70°	4600.4	4762.0	5022.0	5521.1	6190.6	7070.9	8337.9	10083.2	12320.1	13143.6	12028.5
72.5°	2289.3	2376.6	2537.2	2855.0	3361.8	4076.1	5225.1	6902.7	8881.8	9637.6	8618.6
75°	777.7	818.1	845.4	949.1	1109.7	1390.4	1961.6	3017.8	4603.6	5518.9	4538.1
77.5°	448.9	450.0	468.6	487.1	514.4	545.0	621.5	815.9	1411.1	2004.2	1460.3
80°	290.5	289.4	304.7	318.9	337.5	352.8	357.2	377.9	435.8	516.6	462.0
82.5°	150.7	169.3	203.2	221.7	256.7	263.2	254.5	246.8	261.0	270.9	277.4
85°	83.0	72.1	108.1	139.8	155.1	157.3	157.3	148.5	154.0	150.7	163.8
87.5°	38.2	35.0	42.6	68.8	73.2	62.3	65.5	57.9	41.5	40.4	45.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299726

CATALOG NUMBER: GLNA-AF-06-LED-E1-5MQ-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
2.5°	2355.9	2357.0	2357.0	2360.3	2361.3	2363.5	2365.7	2366.8
5°	2337.3	2340.6	2338.4	2341.7	2341.7	2343.9	2343.9	2345.0
7.5°	2310.0	2313.3	2313.3	2313.3	2312.2	2315.5	2315.5	2315.5
10°	2281.6	2283.8	2282.7	2280.5	2278.3	2281.6	2280.5	2279.4
12.5°	2272.9	2267.4	2263.1	2260.9	2256.5	2257.6	2254.3	2254.3
15°	2278.3	2268.5	2260.9	2257.6	2253.2	2251.0	2248.9	2249.9
17.5°	2292.5	2280.5	2270.7	2265.2	2259.8	2256.5	2252.1	2253.2
20°	2317.7	2303.5	2289.3	2278.3	2268.5	2263.1	2259.8	2258.7
22.5°	2354.8	2334.0	2313.3	2296.9	2283.8	2276.2	2272.9	2270.7
25°	2397.4	2374.5	2350.4	2331.9	2318.8	2308.9	2302.4	2302.4
27.5°	2450.9	2432.3	2410.5	2388.7	2376.6	2366.8	2362.4	2360.3
30°	2540.5	2523.0	2505.5	2484.8	2469.5	2459.6	2452.0	2445.4
32.5°	2655.2	2641.0	2626.8	2611.5	2597.3	2584.2	2572.1	2566.7
35°	2816.8	2805.9	2796.0	2778.6	2773.1	2765.5	2758.9	2753.5
37.5°	3039.6	3035.2	3035.2	3016.7	3012.3	3009.0	3002.5	3003.6
40°	3332.3	3336.7	3331.2	3324.7	3321.4	3312.7	3312.7	3320.3
42.5°	3678.5	3681.8	3693.8	3682.9	3694.9	3684.0	3677.5	3682.9
45°	4080.5	4092.5	4116.5	4105.6	4113.2	4094.7	4071.7	4072.8
47.5°	4531.6	4542.5	4552.3	4544.7	4545.8	4515.2	4484.6	4477.0
50°	5000.1	5004.5	5009.9	4999.0	5001.2	4967.4	4932.4	4933.5
52.5°	5463.2	5484.0	5505.8	5476.3	5469.8	5431.5	5382.4	5362.7
55°	5992.9	6022.4	5997.3	5946.0	5894.6	5843.3	5778.9	5767.9
57.5°	6646.1	6595.8	6517.2	6420.0	6349.0	6276.9	6211.4	6184.1
60°	7554.8	7365.8	7223.8	7079.7	6989.0	6900.6	6814.3	6801.2
62.5°	8839.2	8512.7	8229.8	7931.6	7688.0	7498.0	7346.2	7303.6
65°	10449.1	9676.9	9007.4	8382.7	7839.9	7430.3	7172.5	7058.9
67.5°	11141.6	9616.9	8469.0	7582.1	6872.2	6376.3	6097.8	5959.1
70°	9790.5	7975.3	6726.9	5838.9	5192.3	4663.7	4411.4	4262.9
72.5°	6735.6	5073.3	4011.7	3274.4	2757.8	2315.5	2140.7	2127.6
75°	3024.3	2003.1	1380.5	1063.8	895.6	778.7	742.7	715.4
77.5°	846.5	625.8	558.1	522.1	487.1	446.7	431.4	434.7
80°	411.8	388.8	373.5	350.6	318.9	285.1	269.8	276.3
82.5°	273.1	269.8	279.6	263.2	217.3	184.6	155.1	142.0
85°	166.0	168.2	171.5	172.6	146.4	102.7	69.9	78.6
87.5°	65.5	75.4	81.9	85.2	79.7	49.1	39.3	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)