

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: P300691

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-RW-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24549 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - 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

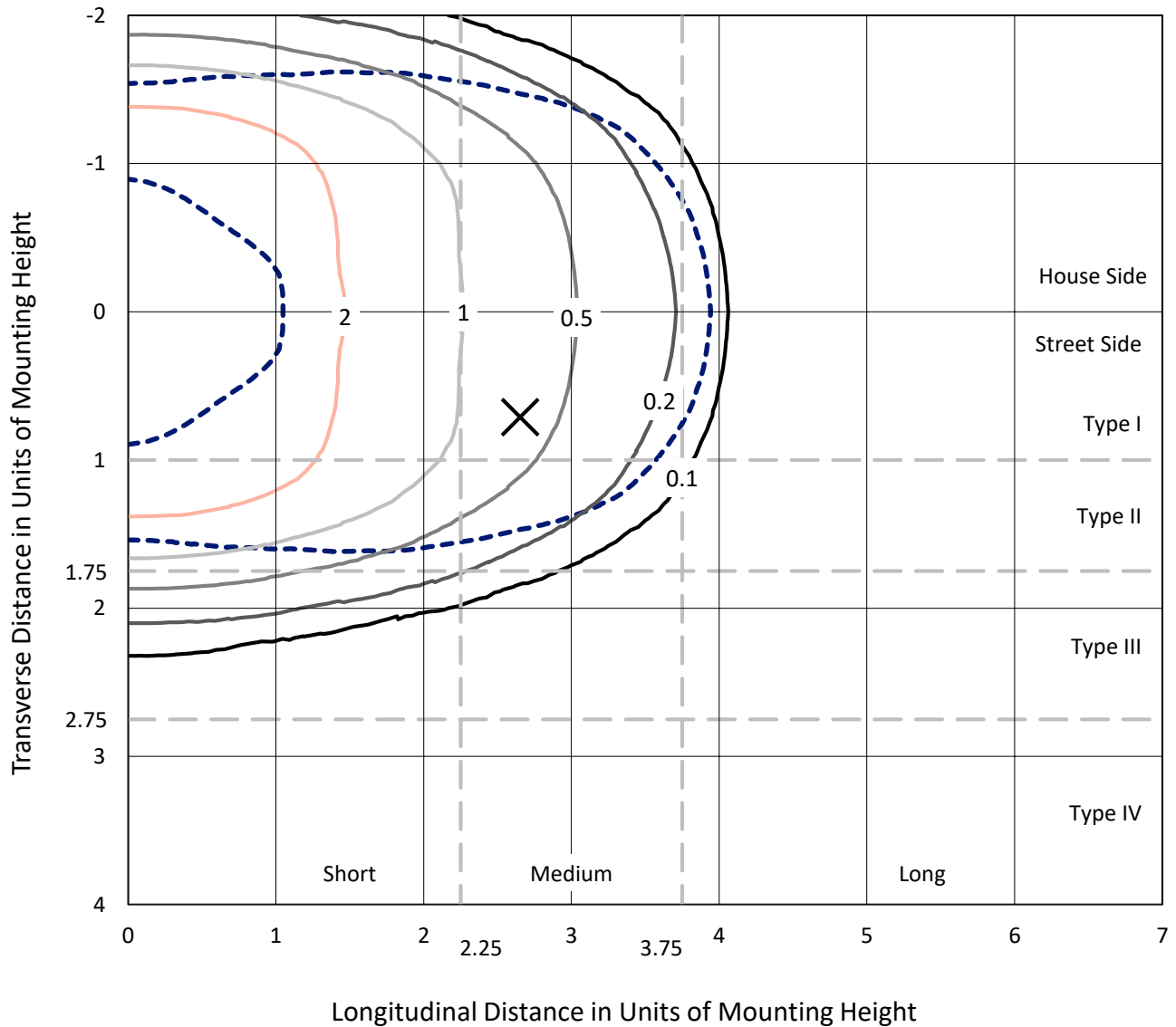


REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

Iso-Footcandle Lines of Horizontal Illumination

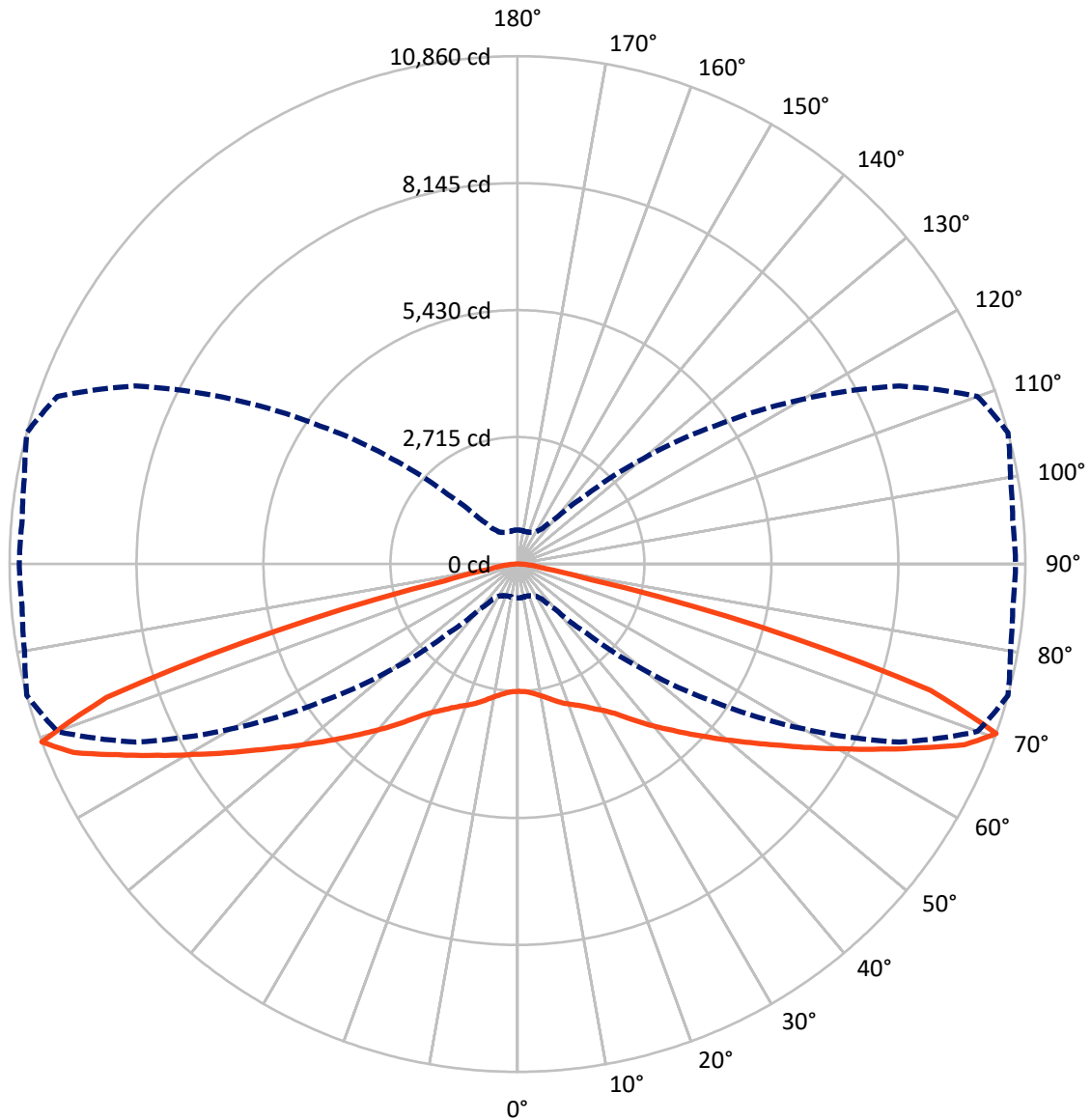
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300691
CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12274.5	0.0	12274.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12274.5	0.0	12274.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24549.0	0.0	24549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.1
10°-20°	811.5	3.3
20°-30°	1527.3	6.2
30°-40°	2704.6	11.0
40°-50°	4522.9	18.4
50°-60°	6302.7	25.7
60°-70°	5844.7	23.8
70°-80°	2329.3	9.5
80°-90°	244.8	1.0
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°	24549.0	100.0
0°-180°	24549.0	100.0



REPORT NUMBER: P300691

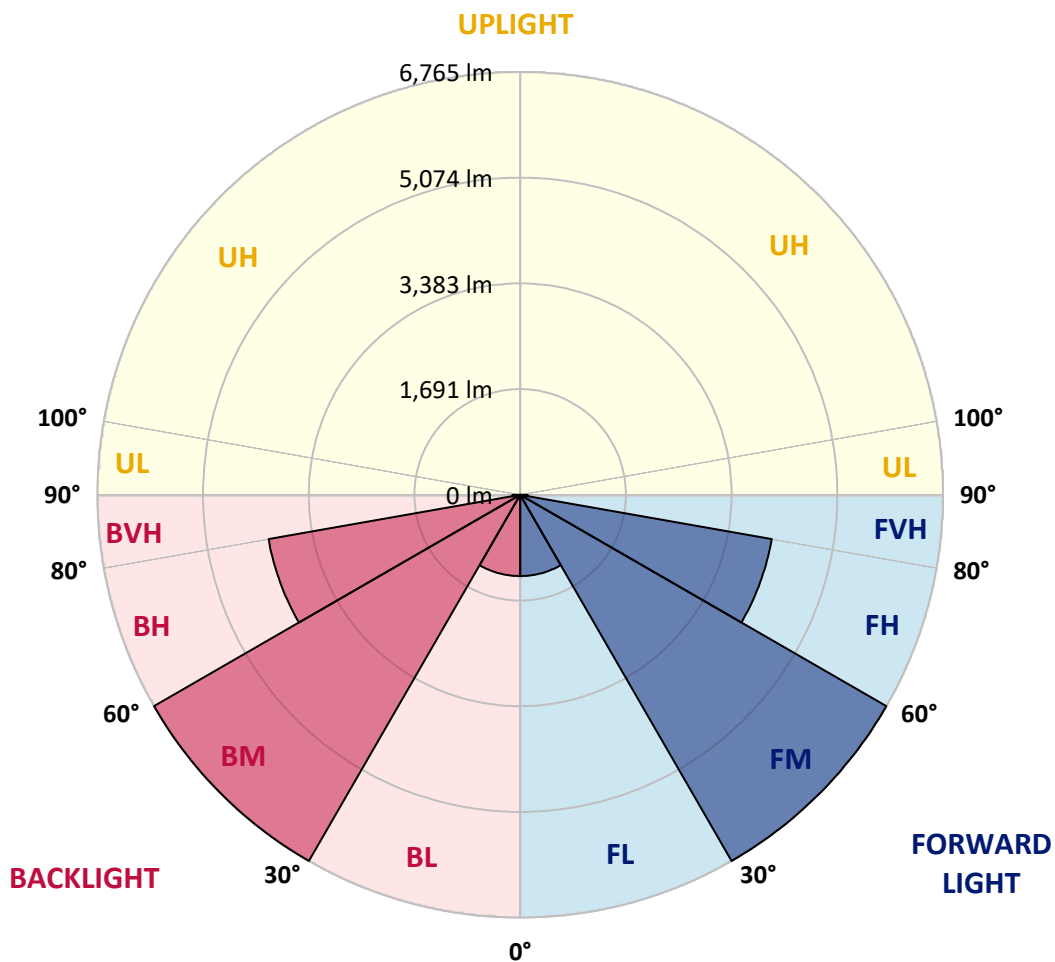
CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1300.0	5.3			
FM	(30°-60°)	6765.1	27.6			
FH	(60°-80°)	4087.0	16.6			G2/5000
FVH	(80°-90°)	122.4	0.5			G2/225
BL	(0°-30°)	1300.0	5.3	B3/2500		
BM	(30°-60°)	6765.1	27.6	B4/8500		
BH	(60°-80°)	4087.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1
2.5°	2718.4	2716.1	2718.4	2717.3	2719.6	2719.6	2721.9	2726.5	2726.5	2730.0	2728.9
5°	2691.7	2690.6	2694.0	2697.5	2701.0	2708.0	2714.9	2725.4	2733.5	2739.3	2745.1
7.5°	2639.5	2639.5	2644.2	2652.3	2660.4	2675.5	2691.7	2712.6	2733.5	2750.9	2766.0
10°	2596.6	2598.9	2604.7	2618.6	2632.6	2655.8	2677.8	2708.0	2737.0	2766.0	2789.2
12.5°	2571.1	2574.5	2585.0	2605.9	2629.1	2660.4	2694.0	2732.3	2764.8	2799.6	2822.8
15°	2579.2	2581.5	2596.6	2622.1	2652.3	2691.7	2737.0	2782.2	2820.5	2857.6	2889.0
17.5°	2624.4	2627.9	2645.3	2674.3	2705.7	2752.1	2800.8	2851.8	2899.4	2941.2	2979.5
20°	2705.7	2709.1	2731.2	2762.5	2799.6	2847.2	2895.9	2949.3	3002.7	3046.8	3089.7
22.5°	2820.5	2826.3	2847.2	2878.5	2920.3	2971.3	3029.4	3086.2	3137.3	3177.9	3216.2
25°	2971.3	2984.1	3003.8	3038.6	3082.7	3129.1	3191.8	3249.8	3298.5	3336.8	3364.7
27.5°	3184.8	3202.2	3217.3	3251.0	3293.9	3338.0	3400.6	3451.7	3498.1	3535.2	3556.1
30°	3467.9	3485.3	3500.4	3532.9	3572.3	3614.1	3673.3	3718.5	3747.5	3776.5	3775.4
32.5°	3811.3	3829.9	3835.7	3870.5	3911.1	3956.4	4009.7	4035.3	4058.5	4062.0	4041.1
35°	4195.4	4204.7	4227.9	4274.3	4320.7	4357.8	4408.9	4421.6	4421.6	4404.2	4357.8
37.5°	4616.5	4622.3	4654.8	4707.0	4754.6	4792.9	4827.7	4853.2	4840.5	4803.3	4725.6
40°	5078.3	5088.8	5135.2	5181.6	5234.9	5270.9	5308.0	5312.7	5299.9	5245.4	5139.8
42.5°	5519.2	5528.5	5574.9	5648.0	5717.6	5767.5	5802.3	5809.3	5768.7	5718.8	5587.7
45°	5898.6	5923.0	5983.3	6069.1	6170.1	6240.9	6288.4	6308.2	6272.2	6207.2	6055.2
47.5°	6199.1	6223.5	6309.3	6411.4	6536.7	6651.6	6730.5	6772.2	6763.0	6714.2	6548.3
50°	6419.5	6442.7	6535.6	6660.9	6807.1	6949.8	7084.3	7184.1	7218.9	7196.9	7044.9
52.5°	6445.1	6483.4	6592.4	6760.6	6950.9	7145.8	7337.3	7506.7	7621.5	7638.9	7526.4
55°	6088.9	6127.2	6278.0	6527.4	6810.5	7128.4	7434.7	7720.2	7946.4	8062.4	8003.2
57.5°	5248.9	5317.3	5476.3	5768.7	6185.2	6660.9	7149.3	7656.3	8117.0	8424.4	8483.6
60°	4022.5	4103.7	4263.8	4574.8	5038.9	5606.2	6258.3	7007.8	7821.1	8512.6	8925.6
62.5°	2580.3	2656.9	2825.2	3095.5	3473.7	4088.6	4788.3	5678.2	6771.1	7862.9	8846.7
65°	1326.1	1367.9	1456.1	1619.7	1914.4	2373.8	3001.5	3889.1	5138.6	6485.7	7908.1
67.5°	840.0	848.1	867.9	891.1	966.5	1125.4	1417.8	1971.2	2999.2	4404.2	6069.1
70°	726.3	726.3	717.0	713.5	722.8	744.9	790.1	918.9	1265.8	2090.7	3500.4
72.5°	664.8	657.8	641.6	628.8	626.5	626.5	635.8	655.5	711.2	851.6	1370.2
75°	612.6	592.9	570.8	555.7	549.9	544.1	543.0	546.5	558.1	580.1	654.4
77.5°	548.8	523.3	497.7	482.7	475.7	467.6	460.6	452.5	446.7	453.6	486.1
80°	472.2	443.2	423.5	414.2	407.2	395.6	380.6	366.6	353.9	351.5	371.3
82.5°	380.6	346.9	348.1	351.5	338.8	322.5	306.3	291.2	269.2	257.6	269.2
85°	307.5	290.1	281.9	304.0	285.4	261.1	235.5	208.8	174.0	146.2	159.0
87.5°	119.5	119.5	178.7	275.0	247.1	201.9	172.9	147.3	91.7	70.8	71.9
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: P300691

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1	2723.1
2.5°	2727.7	2730.0	2728.9	2727.7	2727.7	2726.5	2727.7	2727.7
5°	2748.6	2754.4	2754.4	2756.7	2756.7	2757.9	2759.0	2757.9
7.5°	2779.9	2790.3	2797.3	2805.4	2806.6	2807.8	2810.1	2807.8
10°	2811.2	2832.1	2847.2	2862.3	2869.2	2871.6	2873.9	2873.9
12.5°	2850.7	2879.7	2906.4	2933.1	2945.8	2952.8	2952.8	2957.4
15°	2915.7	2944.7	2976.0	3012.0	3034.0	3045.6	3049.1	3049.1
17.5°	3007.3	3032.8	3059.5	3094.3	3122.2	3137.3	3140.7	3139.6
20°	3114.1	3138.4	3153.5	3175.5	3199.9	3217.3	3222.0	3222.0
22.5°	3235.9	3249.8	3252.1	3259.1	3278.8	3302.0	3312.4	3314.8
25°	3370.5	3373.9	3364.7	3364.7	3377.4	3399.5	3409.9	3411.1
27.5°	3544.5	3527.1	3503.9	3495.8	3503.9	3529.4	3542.2	3546.8
30°	3761.5	3719.7	3666.3	3637.3	3632.7	3666.3	3689.5	3693.0
32.5°	4009.7	3949.4	3878.6	3819.5	3804.4	3825.3	3853.1	3852.0
35°	4304.4	4232.5	4146.7	4071.2	4036.4	4057.3	4096.8	4101.4
37.5°	4644.4	4550.4	4451.8	4356.7	4302.1	4307.9	4349.7	4363.6
40°	5023.8	4902.0	4777.8	4650.2	4572.5	4557.4	4608.4	4616.5
42.5°	5429.9	5273.2	5116.6	4958.8	4859.0	4835.8	4895.0	4891.5
45°	5862.6	5663.1	5479.8	5305.7	5187.4	5152.6	5201.3	5201.3
47.5°	6327.9	6081.9	5863.8	5666.6	5537.8	5487.9	5534.3	5537.8
50°	6821.0	6559.9	6303.5	6084.2	5929.9	5866.1	5926.4	5935.7
52.5°	7311.8	7057.7	6798.9	6548.3	6361.5	6283.8	6353.4	6383.6
55°	7809.5	7560.0	7312.9	7068.1	6846.5	6754.8	6829.1	6867.4
57.5°	8335.1	8104.2	7868.7	7621.5	7408.1	7265.3	7344.2	7395.3
60°	8951.2	8753.9	8509.1	8236.5	8020.7	7875.6	7920.9	7966.1
62.5°	9438.4	9515.0	9307.3	8991.8	8714.5	8528.8	8572.9	8620.5
65°	9202.9	9988.4	10172.9	9853.8	9469.8	9180.9	9162.3	9186.7
67.5°	7692.3	9218.0	10330.7	10634.6	10313.3	9911.8	9837.6	9873.5
70°	5145.6	7046.1	9009.2	10471.1	10859.7	10704.3	10631.2	10653.2
72.5°	2471.3	4103.7	6112.1	8055.5	9238.9	9781.9	9955.9	10040.6
75°	903.8	1629.0	2945.8	4439.0	5359.1	6203.7	6754.8	6979.9
77.5°	545.3	657.8	940.9	1416.6	1604.6	1796.0	1721.8	1758.9
80°	403.8	456.0	516.3	580.1	601.0	601.0	577.8	559.2
82.5°	283.1	316.7	345.7	380.6	389.8	372.4	306.3	243.6
85°	182.2	197.2	210.0	232.0	226.2	215.8	145.0	128.8
87.5°	83.5	95.1	99.8	110.2	105.6	100.9	71.9	60.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)