

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: P300553

Luminaire Tested: **GLNA-AF-04-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300553
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-04-LED-E1-RW-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21252.3 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 225
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

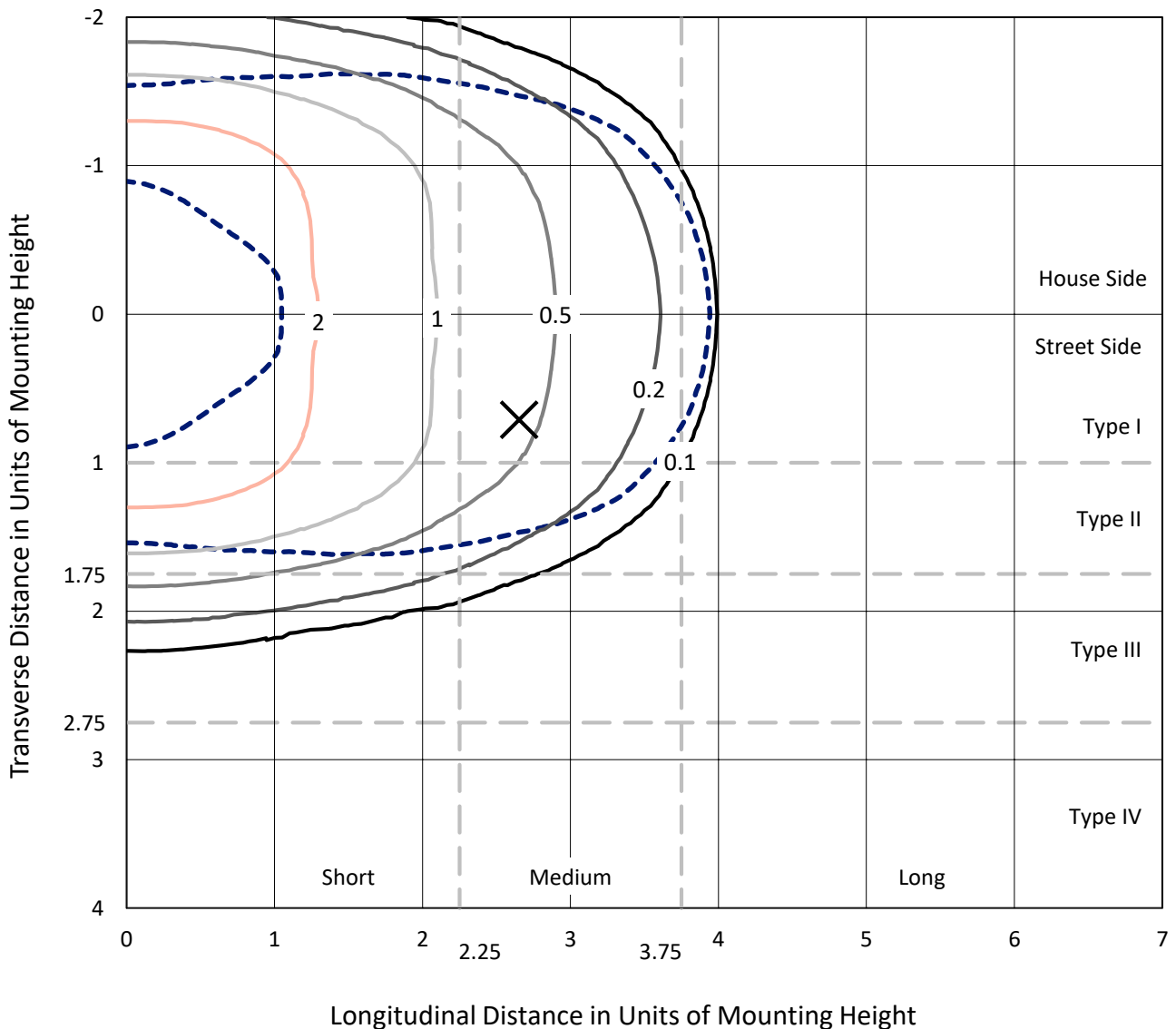


REPORT NUMBER: P300553

CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7027

Iso-Footcandle Lines of Horizontal Illumination

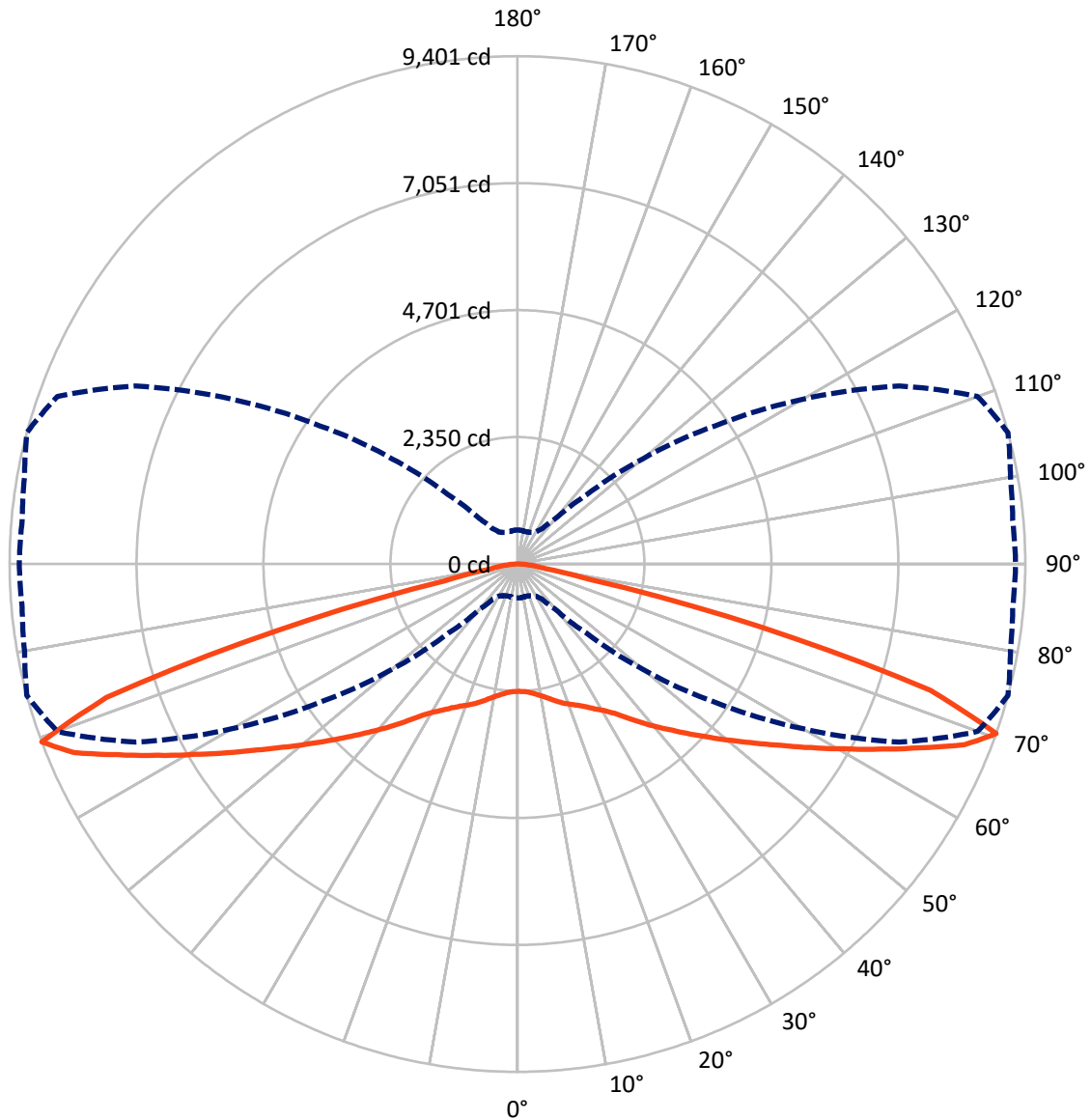
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P300553
CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7027

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10626.1	0.0	10626.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10626.1	0.0	10626.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21252.3	0.0	21252.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	1.1
10°-20°	702.5	3.3
20°-30°	1322.2	6.2
30°-40°	2341.4	11.0
40°-50°	3915.5	18.4
50°-60°	5456.3	25.7
60°-70°	5059.8	23.8
70°-80°	2016.5	9.5
80°-90°	212.0	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°	21252.3	100.0
0°-180°	21252.3	100.0



REPORT NUMBER: P300553

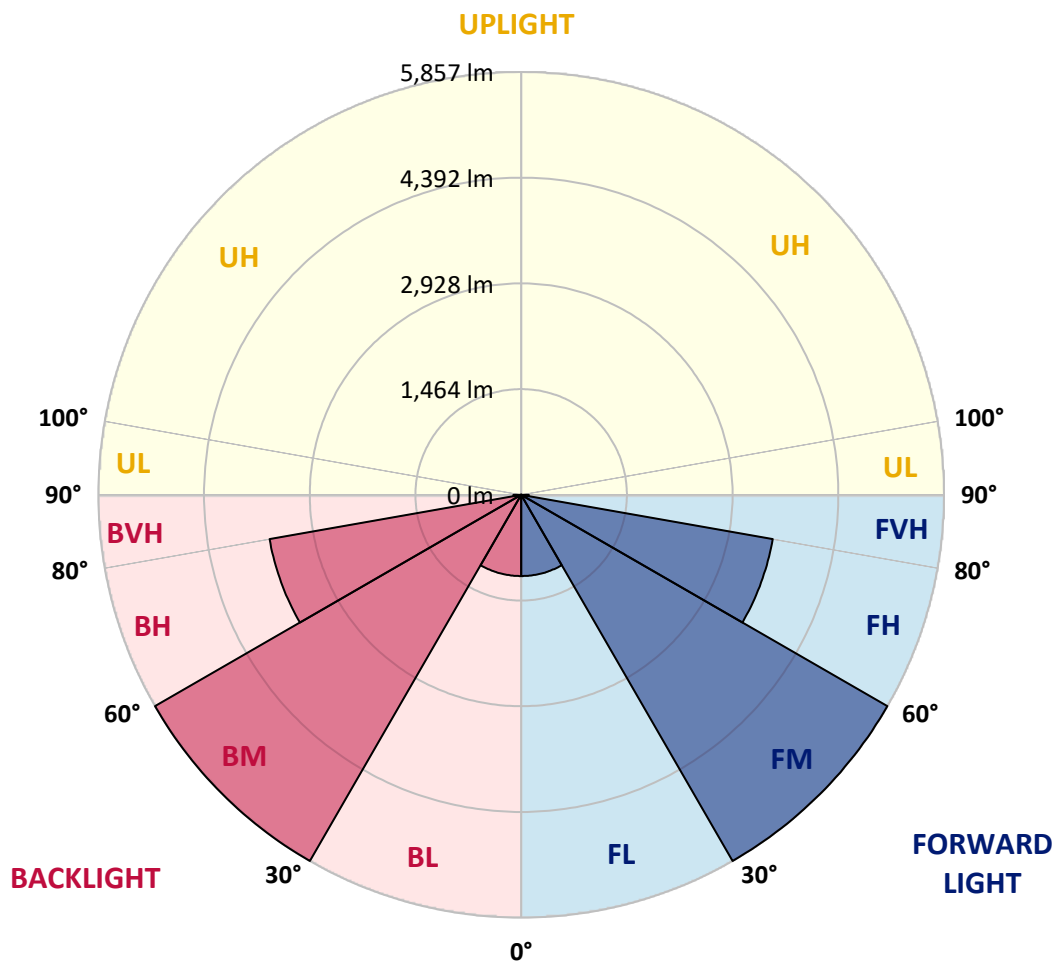
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.4	5.3			
FM	(30°-60°)	5856.6	27.6			
FH	(60°-80°)	3538.2	16.6			G2/5000
FVH	(80°-90°)	106.0	0.5			G2/225
BL	(0°-30°)	1125.4	5.3	B3/2500		
BM	(30°-60°)	5856.6	27.6	B4/8500		
BH	(60°-80°)	3538.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	106.0	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: P300553

CATALOG NUMBER: GLNA-AF-04-LED-E1-RW-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4
2.5°	2353.4	2351.3	2353.4	2352.4	2354.4	2354.4	2356.4	2360.4	2360.4	2363.4	2362.4
5°	2330.3	2329.2	2332.3	2335.3	2338.3	2344.3	2350.3	2359.4	2366.4	2371.4	2376.5
7.5°	2285.1	2285.1	2289.1	2296.1	2303.1	2316.2	2330.3	2348.3	2366.4	2381.5	2394.5
10°	2247.9	2249.9	2254.9	2267.0	2279.0	2299.1	2318.2	2344.3	2369.4	2394.5	2414.6
12.5°	2225.8	2228.8	2237.8	2255.9	2276.0	2303.1	2332.3	2365.4	2393.5	2423.7	2443.8
15°	2232.8	2234.8	2247.9	2270.0	2296.1	2330.3	2369.4	2408.6	2441.7	2473.9	2501.0
17.5°	2272.0	2275.0	2290.1	2315.2	2342.3	2382.5	2424.7	2468.9	2510.0	2546.2	2579.3
20°	2342.3	2345.3	2364.4	2391.5	2423.7	2464.8	2507.0	2553.2	2599.4	2637.6	2674.8
22.5°	2441.7	2446.8	2464.8	2492.0	2528.1	2572.3	2622.5	2671.8	2716.0	2751.1	2784.3
25°	2572.3	2583.4	2600.4	2630.6	2668.7	2708.9	2763.2	2813.4	2855.6	2888.7	2912.8
27.5°	2757.1	2772.2	2785.3	2814.4	2851.5	2889.7	2944.0	2988.1	3028.3	3060.5	3078.5
30°	3002.2	3017.3	3030.3	3058.5	3092.6	3128.8	3180.0	3219.2	3244.3	3269.4	3268.4
32.5°	3299.5	3315.6	3320.6	3350.7	3385.9	3425.1	3471.3	3493.4	3513.5	3516.5	3498.4
35°	3632.0	3640.0	3660.1	3700.3	3740.5	3772.6	3816.8	3827.8	3827.8	3812.8	3772.6
37.5°	3996.6	4001.6	4029.7	4074.9	4116.1	4149.3	4179.4	4201.5	4190.4	4158.3	4091.0
40°	4396.3	4405.4	4445.6	4485.7	4531.9	4563.1	4595.2	4599.2	4588.2	4541.0	4449.6
42.5°	4778.0	4786.1	4826.2	4889.5	4949.8	4993.0	5023.1	5029.1	4994.0	4950.8	4837.3
45°	5106.5	5127.6	5179.8	5254.1	5341.5	5402.8	5444.0	5461.0	5429.9	5373.6	5242.1
47.5°	5366.6	5387.7	5462.0	5550.4	5658.9	5758.3	5826.6	5862.8	5854.8	5812.6	5668.9
50°	5557.5	5577.5	5657.9	5766.4	5892.9	6016.5	6133.0	6219.4	6249.5	6230.4	6098.8
52.5°	5579.5	5612.7	5707.1	5852.8	6017.5	6186.2	6351.9	6498.6	6598.0	6613.1	6515.7
55°	5271.2	5304.3	5434.9	5650.9	5895.9	6171.2	6436.3	6683.4	6879.3	6979.7	6928.5
57.5°	4544.0	4603.3	4740.9	4994.0	5354.6	5766.4	6189.2	6628.2	7026.9	7293.1	7344.3
60°	3482.3	3552.6	3691.2	3960.4	4362.2	4853.4	5417.8	6066.7	6770.8	7369.4	7727.0
62.5°	2233.8	2300.1	2445.8	2679.8	3007.2	3539.6	4145.2	4915.6	5861.8	6807.0	7658.7
65°	1148.1	1184.2	1260.5	1402.2	1657.3	2055.0	2598.4	3366.8	4448.6	5614.7	6846.1
67.5°	727.2	734.2	751.3	771.4	836.7	974.3	1227.4	1706.5	2596.4	3812.8	5254.1
70°	628.8	628.8	620.7	617.7	625.8	644.8	684.0	795.5	1095.8	1810.0	3030.3
72.5°	575.5	569.5	555.4	544.4	542.4	542.4	550.4	567.5	615.7	737.2	1186.2
75°	530.3	513.3	494.2	481.1	476.1	471.1	470.1	473.1	483.1	502.2	566.5
77.5°	475.1	453.0	430.9	417.8	411.8	404.8	398.8	391.7	386.7	392.7	420.9
80°	408.8	383.7	366.6	358.6	352.6	342.5	329.4	317.4	306.3	304.3	321.4
82.5°	329.4	300.3	301.3	304.3	293.3	279.2	265.2	252.1	233.0	223.0	233.0
85°	266.2	251.1	244.1	263.2	247.1	226.0	203.9	180.8	150.7	126.6	137.6
87.5°	103.5	103.5	154.7	238.0	213.9	174.8	149.7	127.6	79.3	61.3	62.3
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: P300553

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4	2357.4
2.5°	2361.4	2363.4	2362.4	2361.4	2361.4	2360.4	2361.4	2361.4
5°	2379.5	2384.5	2384.5	2386.5	2386.5	2387.5	2388.5	2387.5
7.5°	2406.6	2415.6	2421.7	2428.7	2429.7	2430.7	2432.7	2430.7
10°	2433.7	2451.8	2464.8	2477.9	2483.9	2485.9	2487.9	2487.9
12.5°	2467.9	2493.0	2516.1	2539.2	2550.2	2556.2	2556.2	2560.3
15°	2524.1	2549.2	2576.3	2607.5	2626.6	2636.6	2639.6	2639.6
17.5°	2603.5	2625.6	2648.7	2678.8	2702.9	2716.0	2719.0	2718.0
20°	2695.9	2717.0	2730.0	2749.1	2770.2	2785.3	2789.3	2789.3
22.5°	2801.3	2813.4	2815.4	2821.4	2838.5	2858.6	2867.6	2869.6
25°	2917.8	2920.9	2912.8	2912.8	2923.9	2942.9	2952.0	2953.0
27.5°	3068.5	3053.4	3033.3	3026.3	3033.3	3055.4	3066.5	3070.5
30°	3256.3	3220.2	3174.0	3148.9	3144.8	3174.0	3194.1	3197.1
32.5°	3471.3	3419.0	3357.8	3306.5	3293.5	3311.6	3335.7	3334.7
35°	3726.4	3664.1	3589.8	3524.5	3494.4	3512.5	3546.6	3550.6
37.5°	4020.7	3939.3	3854.0	3771.6	3724.4	3729.4	3765.6	3777.6
40°	4349.1	4243.7	4136.2	4025.7	3958.4	3945.4	3989.6	3996.6
42.5°	4700.7	4565.1	4429.5	4292.9	4206.5	4186.4	4237.6	4234.6
45°	5075.3	4902.6	4743.9	4593.2	4490.8	4460.6	4502.8	4502.8
47.5°	5478.1	5265.2	5076.3	4905.6	4794.1	4750.9	4791.1	4794.1
50°	5905.0	5679.0	5457.0	5267.2	5133.6	5078.3	5130.6	5138.6
52.5°	6329.9	6109.9	5885.9	5668.9	5507.2	5439.9	5500.2	5526.3
55°	6760.7	6544.8	6330.9	6118.9	5927.1	5847.7	5912.0	5945.2
57.5°	7215.7	7015.9	6812.0	6598.0	6413.2	6289.7	6358.0	6402.2
60°	7749.1	7578.3	7366.4	7130.4	6943.6	6818.0	6857.2	6896.3
62.5°	8171.0	8237.2	8057.5	7784.3	7544.2	7383.5	7421.7	7462.8
65°	7967.1	8647.0	8806.7	8530.5	8198.1	7948.0	7931.9	7953.0
67.5°	6659.3	7980.1	8943.4	9206.5	8928.3	8580.8	8516.5	8547.6
70°	4454.6	6099.8	7799.3	9064.9	9401.4	9266.8	9203.5	9222.6
72.5°	2139.4	3552.6	5291.3	6973.7	7998.2	8468.3	8618.9	8692.2
75°	782.4	1410.2	2550.2	3842.9	4639.4	5370.6	5847.7	6042.6
77.5°	472.1	569.5	814.6	1226.4	1389.1	1554.8	1490.6	1522.7
80°	349.5	394.7	447.0	502.2	520.3	520.3	500.2	484.1
82.5°	245.1	274.2	299.3	329.4	337.5	322.4	265.2	210.9
85°	157.7	170.8	181.8	200.9	195.9	186.8	125.6	111.5
87.5°	72.3	82.4	86.4	95.4	91.4	87.4	62.3	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)