

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: P300619

Luminaire Tested: **GLNA-AF-05-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300619
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-05-LED-E1-RW-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21273.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 210
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

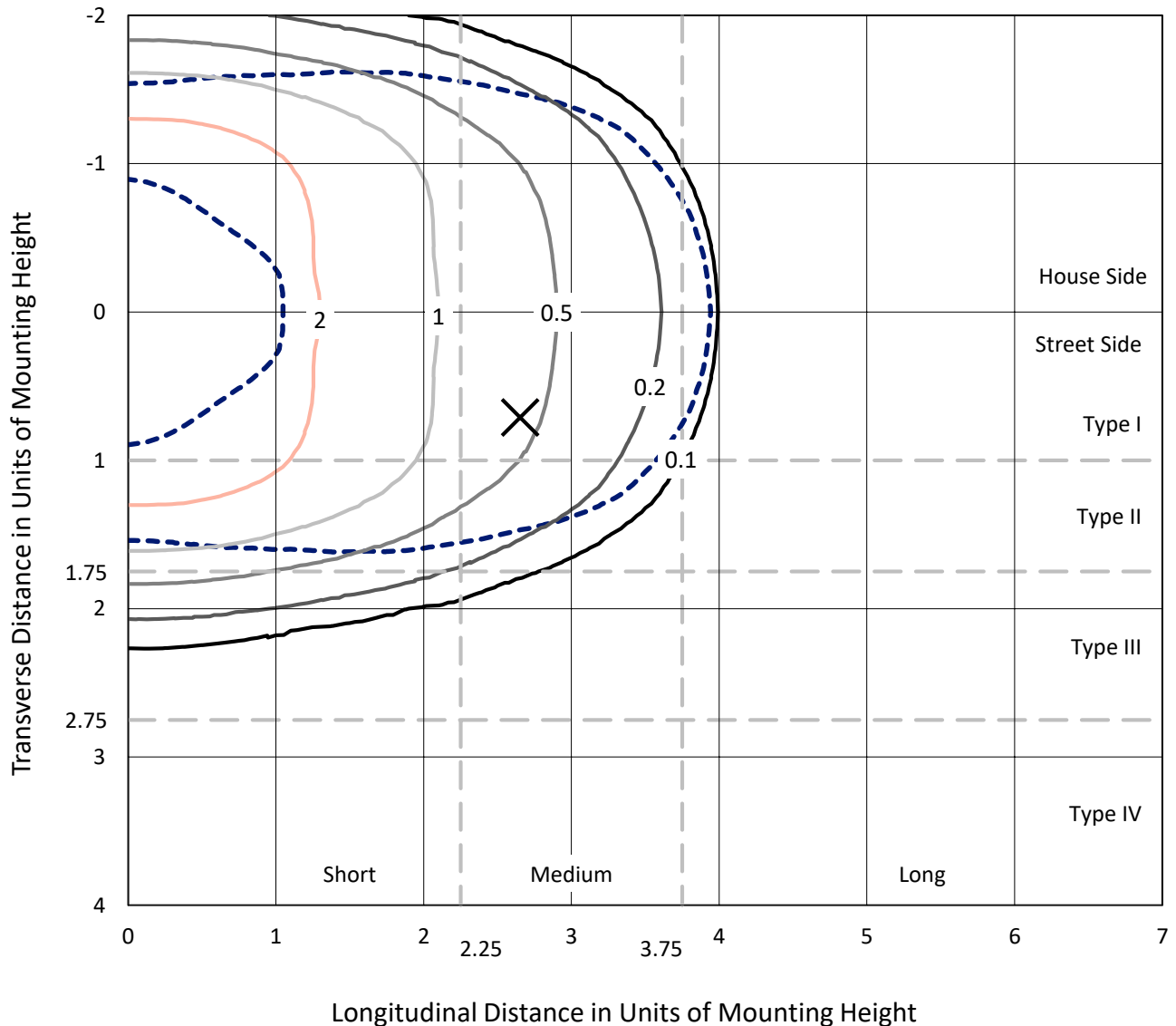


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Iso-Footcandle Lines of Horizontal Illumination

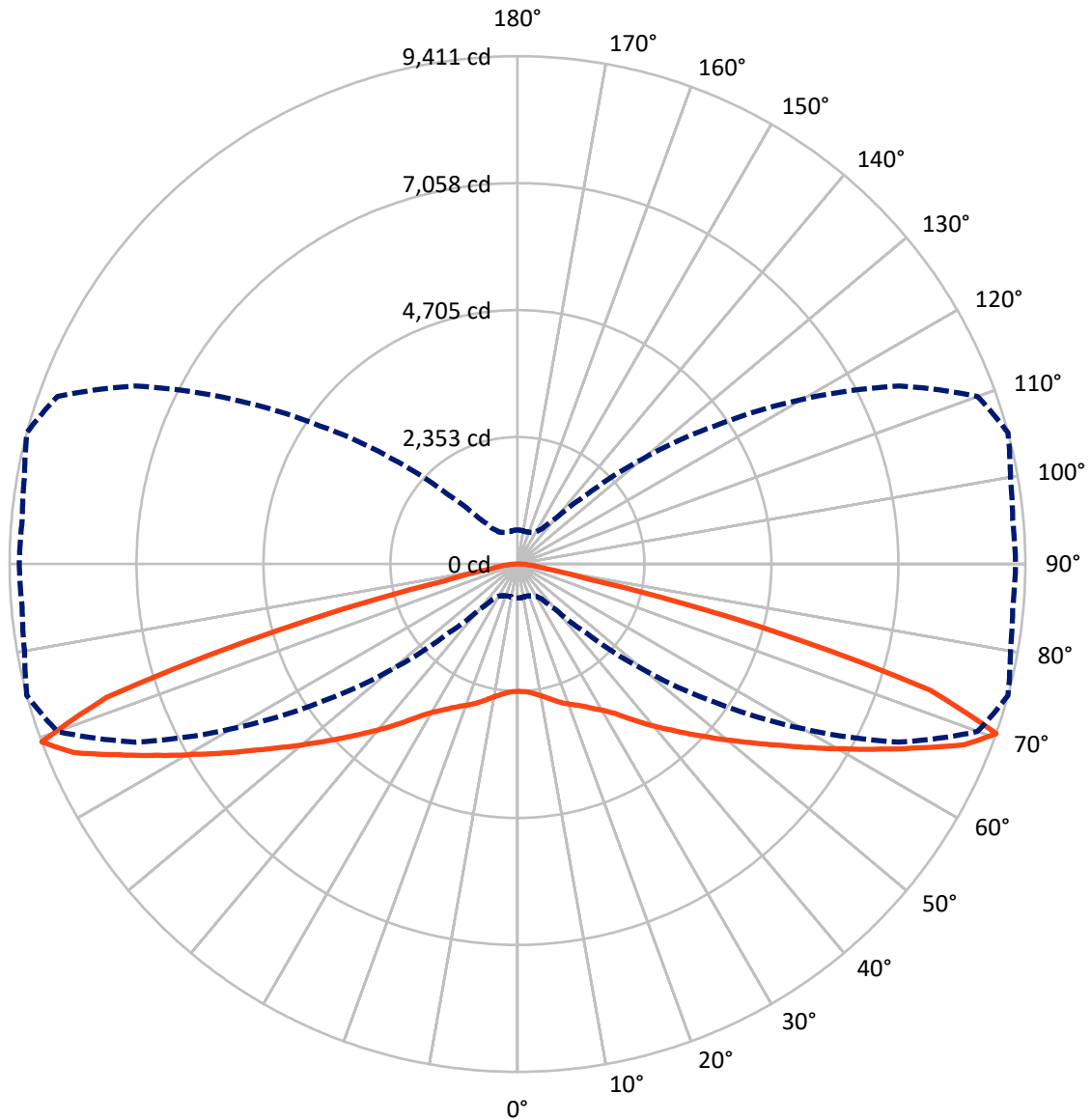
× Max cd
 - - - 1/2 Max cd



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

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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	10636.5	0.0	10636.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10636.5	0.0	10636.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21273.1	0.0	21273.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	1.1
10°-20°	703.2	3.3
20°-30°	1323.5	6.2
30°-40°	2343.7	11.0
40°-50°	3919.4	18.4
50°-60°	5461.6	25.7
60°-70°	5064.8	23.8
70°-80°	2018.5	9.5
80°-90°	212.2	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°	21273.1	100.0
0°-180°	21273.1	100.0



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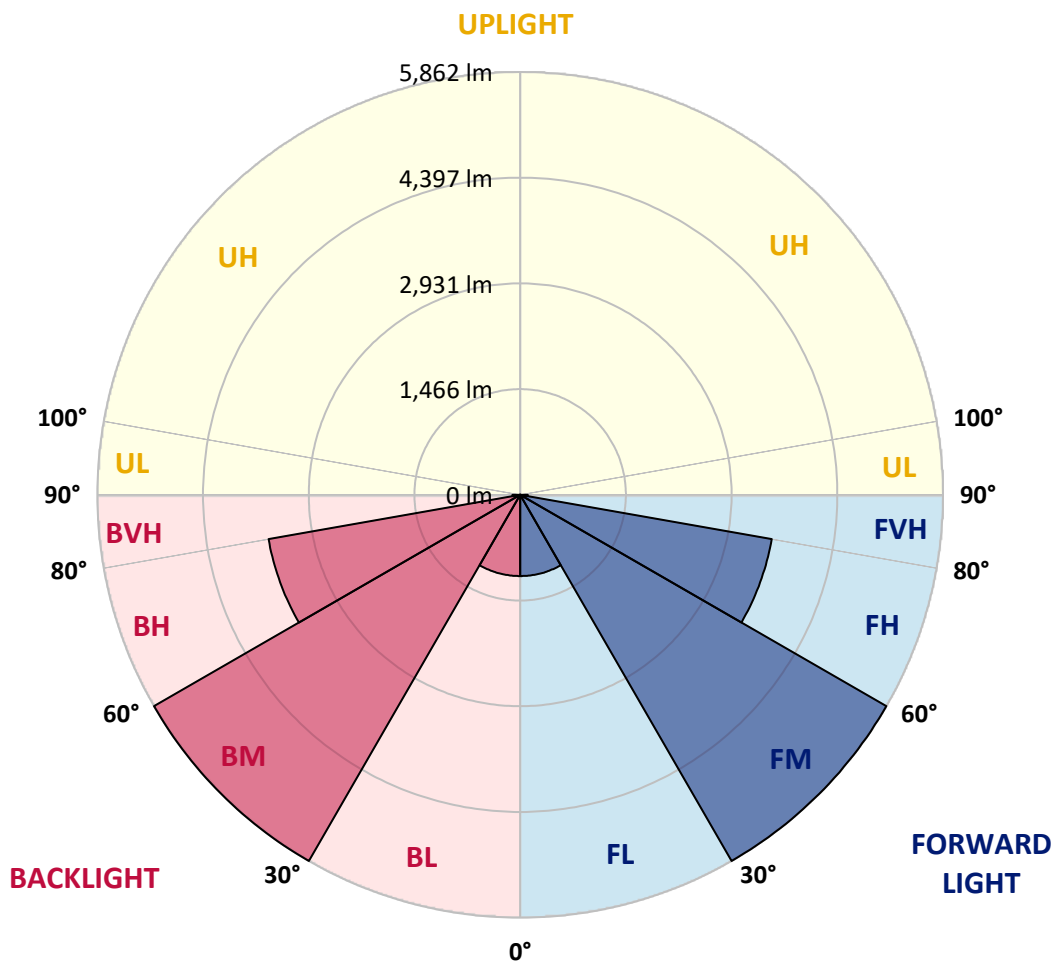
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.5	5.3			
FM	(30°-60°)	5862.3	27.6			
FH	(60°-80°)	3541.6	16.6			G2/5000
FVH	(80°-90°)	106.1	0.5			G2/225
BL	(0°-30°)	1126.5	5.3	B3/2500		
BM	(30°-60°)	5862.3	27.6	B4/8500		
BH	(60°-80°)	3541.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	106.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2355.7	2353.6	2355.7	2354.7	2356.7	2356.7	2358.7	2362.7	2362.7	2365.7	2364.7
5°	2332.5	2331.5	2334.5	2337.6	2340.6	2346.6	2352.6	2361.7	2368.7	2373.8	2378.8
7.5°	2287.3	2287.3	2291.3	2298.4	2305.4	2318.5	2332.5	2350.6	2368.7	2383.8	2396.9
10°	2250.1	2252.1	2257.1	2269.2	2281.3	2301.4	2320.5	2346.6	2371.7	2396.9	2417.0
12.5°	2228.0	2231.0	2240.0	2258.1	2278.2	2305.4	2334.5	2367.7	2395.9	2426.0	2446.1
15°	2235.0	2237.0	2250.1	2272.2	2298.4	2332.5	2371.7	2411.0	2444.1	2476.3	2503.5
17.5°	2274.2	2277.2	2292.3	2317.5	2344.6	2384.8	2427.0	2471.3	2512.5	2548.7	2581.9
20°	2344.6	2347.6	2366.7	2393.9	2426.0	2467.3	2509.5	2555.7	2602.0	2640.2	2677.4
22.5°	2444.1	2449.2	2467.3	2494.4	2530.6	2574.8	2625.1	2674.4	2718.6	2753.8	2787.0
25°	2574.8	2585.9	2603.0	2633.2	2671.4	2711.6	2765.9	2816.1	2858.4	2891.5	2915.7
27.5°	2759.8	2774.9	2788.0	2817.1	2854.3	2892.5	2946.8	2991.1	3031.3	3063.5	3081.6
30°	3005.2	3020.2	3033.3	3061.5	3095.6	3131.8	3183.1	3222.3	3247.5	3272.6	3271.6
32.5°	3302.8	3318.8	3323.9	3354.0	3389.2	3428.4	3474.7	3496.8	3516.9	3519.9	3501.8
35°	3635.5	3643.6	3663.7	3703.9	3744.1	3776.3	3820.5	3831.6	3831.6	3816.5	3776.3
37.5°	4000.5	4005.5	4033.7	4078.9	4120.1	4153.3	4183.5	4205.6	4194.5	4162.4	4095.0
40°	4400.7	4409.7	4449.9	4490.1	4536.4	4567.5	4599.7	4603.7	4592.7	4545.4	4453.9
42.5°	4782.7	4790.7	4831.0	4894.3	4954.6	4997.9	5028.0	5034.1	4998.9	4955.6	4842.0
45°	5111.5	5132.6	5184.9	5259.3	5346.7	5408.1	5449.3	5466.4	5435.2	5378.9	5247.2
47.5°	5371.9	5393.0	5467.4	5555.9	5664.4	5764.0	5832.3	5868.5	5860.5	5818.3	5674.5
50°	5562.9	5583.0	5663.4	5772.0	5898.7	6022.4	6139.0	6225.5	6255.6	6236.5	6104.8
52.5°	5585.0	5618.2	5712.7	5858.5	6023.4	6192.3	6358.2	6505.0	6604.5	6619.6	6522.1
55°	5276.4	5309.5	5440.2	5656.4	5901.7	6177.2	6442.6	6690.0	6886.0	6986.5	6935.3
57.5°	4548.4	4607.8	4745.5	4998.9	5359.8	5772.0	6195.3	6634.7	7033.8	7300.2	7351.5
60°	3485.7	3556.1	3694.9	3964.3	4366.5	4858.1	5423.1	6072.6	6777.4	7376.6	7734.6
62.5°	2236.0	2302.4	2448.2	2682.4	3010.2	3543.0	4149.3	4920.4	5867.5	6813.6	7666.2
65°	1149.2	1185.4	1261.8	1403.5	1658.9	2057.1	2601.0	3370.1	4452.9	5620.2	6852.8
67.5°	727.9	734.9	752.0	772.1	837.5	975.2	1228.6	1708.2	2599.0	3816.5	5259.3
70°	629.4	629.4	621.3	618.3	626.4	645.5	684.7	796.3	1096.9	1811.7	3033.3
72.5°	576.1	570.1	556.0	544.9	542.9	542.9	551.0	568.1	616.3	738.0	1187.4
75°	530.9	513.8	494.7	481.6	476.6	471.5	470.5	473.5	483.6	502.7	567.0
77.5°	475.6	453.4	431.3	418.2	412.2	405.2	399.1	392.1	387.1	393.1	421.3
80°	409.2	384.1	367.0	358.9	352.9	342.8	329.8	317.7	306.6	304.6	321.7
82.5°	329.8	300.6	301.6	304.6	293.6	279.5	265.4	252.4	233.3	223.2	233.3
85°	266.4	251.4	244.3	263.4	247.3	226.2	204.1	181.0	150.8	126.7	137.7
87.5°	103.6	103.6	154.8	238.3	214.2	174.9	149.8	127.7	79.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2363.7	2365.7	2364.7	2363.7	2363.7	2362.7	2363.7	2363.7
5°	2381.8	2386.8	2386.8	2388.8	2388.8	2389.8	2390.8	2389.8
7.5°	2408.9	2418.0	2424.0	2431.1	2432.1	2433.1	2435.1	2433.1
10°	2436.1	2454.2	2467.3	2480.3	2486.4	2488.4	2490.4	2490.4
12.5°	2470.3	2495.4	2518.5	2541.7	2552.7	2558.8	2558.8	2562.8
15°	2526.6	2551.7	2578.9	2610.0	2629.1	2639.2	2642.2	2642.2
17.5°	2606.0	2628.1	2651.2	2681.4	2705.5	2718.6	2721.6	2720.6
20°	2698.5	2719.6	2732.7	2751.8	2772.9	2788.0	2792.0	2792.0
22.5°	2804.1	2816.1	2818.1	2824.2	2841.3	2861.4	2870.4	2872.4
25°	2920.7	2923.7	2915.7	2915.7	2926.7	2945.8	2954.9	2955.9
27.5°	3071.5	3056.4	3036.3	3029.3	3036.3	3058.4	3069.5	3073.5
30°	3259.5	3223.3	3177.1	3151.9	3147.9	3177.1	3197.2	3200.2
32.5°	3474.7	3422.4	3361.1	3309.8	3296.7	3314.8	3338.9	3337.9
35°	3730.0	3667.7	3593.3	3528.0	3497.8	3515.9	3550.1	3554.1
37.5°	4024.6	3943.2	3857.7	3775.3	3728.0	3733.1	3769.3	3781.3
40°	4353.4	4247.8	4140.3	4029.7	3962.3	3949.2	3993.5	4000.5
42.5°	4705.3	4569.6	4433.8	4297.1	4210.6	4190.5	4241.8	4238.8
45°	5080.3	4907.4	4748.5	4597.7	4495.2	4465.0	4507.2	4507.2
47.5°	5483.5	5270.3	5081.3	4910.4	4798.8	4755.6	4795.8	4798.8
50°	5910.8	5684.6	5462.4	5272.3	5138.6	5083.3	5135.6	5143.6
52.5°	6336.1	6115.9	5891.7	5674.5	5512.6	5445.3	5505.6	5531.7
55°	6767.4	6551.2	6337.1	6124.9	5932.9	5853.5	5917.8	5951.0
57.5°	7222.8	7022.7	6818.6	6604.5	6419.5	6295.8	6364.2	6408.4
60°	7756.7	7585.8	7373.6	7137.4	6950.4	6824.7	6863.9	6903.1
62.5°	8179.0	8245.3	8065.3	7791.9	7551.6	7390.7	7428.9	7470.1
65°	7974.9	8655.5	8815.4	8538.9	8206.1	7955.8	7939.7	7960.8
67.5°	6665.8	7987.9	8952.1	9215.5	8937.0	8589.2	8524.8	8556.0
70°	4459.0	6105.8	7807.0	9073.8	9410.6	9275.9	9212.5	9231.6
72.5°	2141.5	3556.1	5296.5	6980.5	8006.0	8476.6	8627.4	8700.8
75°	783.2	1411.6	2552.7	3846.7	4644.0	5375.9	5853.5	6048.5
77.5°	472.5	570.1	815.4	1227.6	1390.5	1556.4	1492.0	1524.2
80°	349.9	395.1	447.4	502.7	520.8	520.8	500.7	484.6
82.5°	245.3	274.5	299.6	329.8	337.8	322.7	265.4	211.1
85°	157.8	170.9	182.0	201.1	196.1	187.0	125.7	111.6
87.5°	72.4	82.4	86.5	95.5	91.5	87.5	62.3	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)