

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: P193535

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193535
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: GLEON-AF-07-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23138 lumens
Efficiency: N/A
Efficacy: 102.4 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

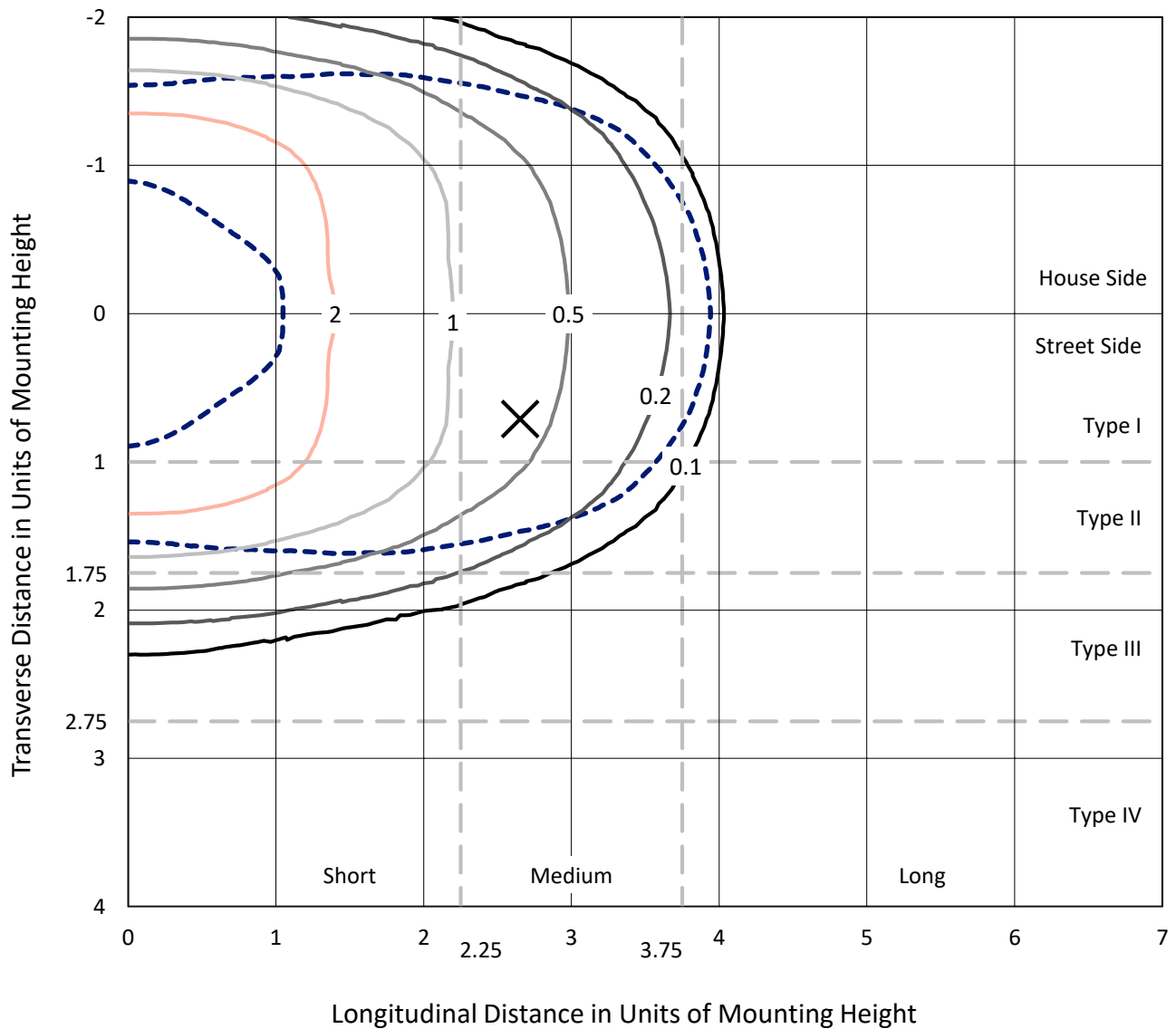
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

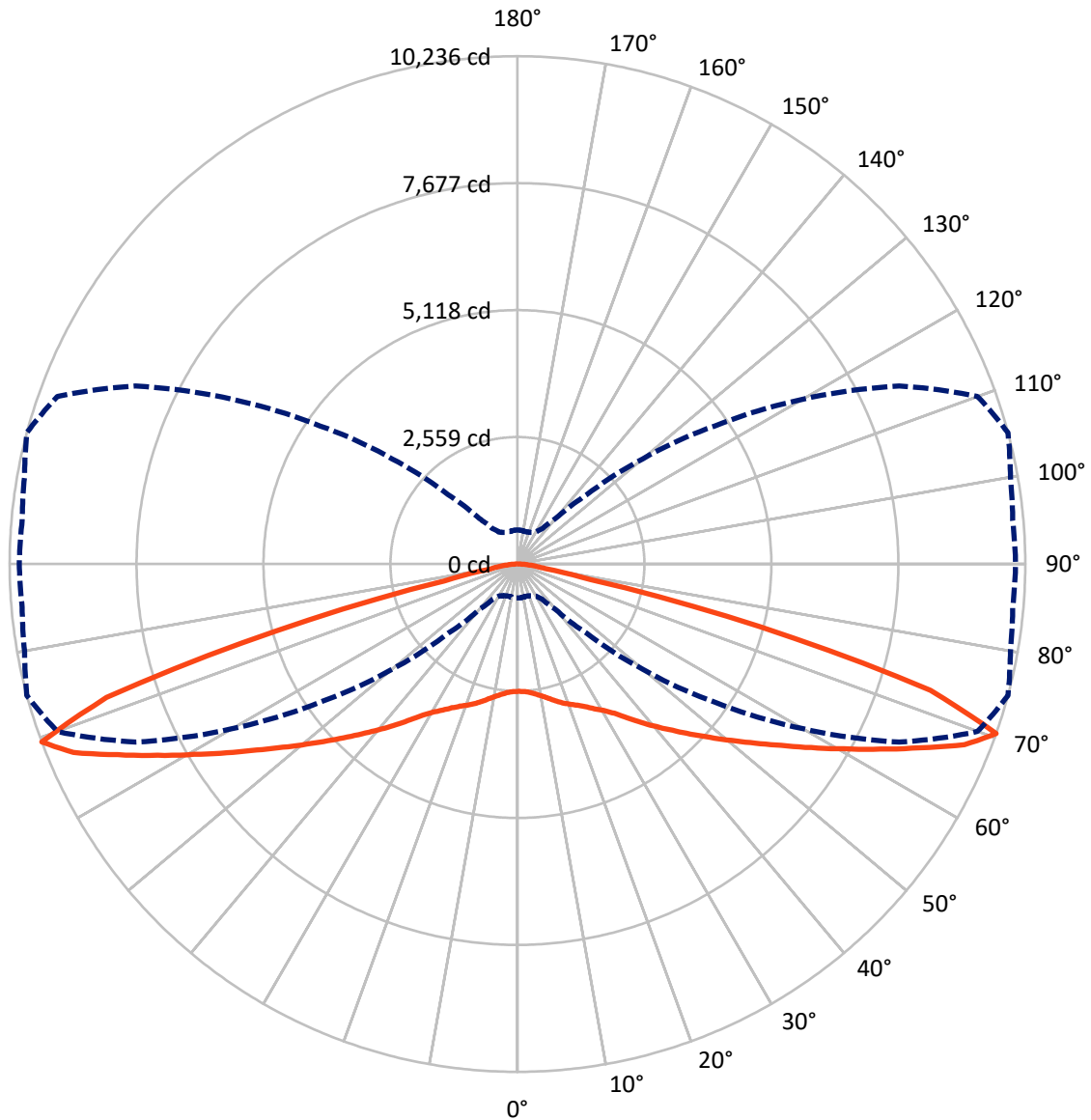
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	11569.0	0.0	11569.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11569.0	0.0	11569.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23138.0	0.0	23138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.1
10°-20°	764.8	3.3
20°-30°	1439.5	6.2
30°-40°	2549.1	11.0
40°-50°	4263.0	18.4
50°-60°	5940.4	25.7
60°-70°	5508.8	23.8
70°-80°	2195.4	9.5
80°-90°	230.8	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°	23138.0	100.0
0°-180°	23138.0	100.0



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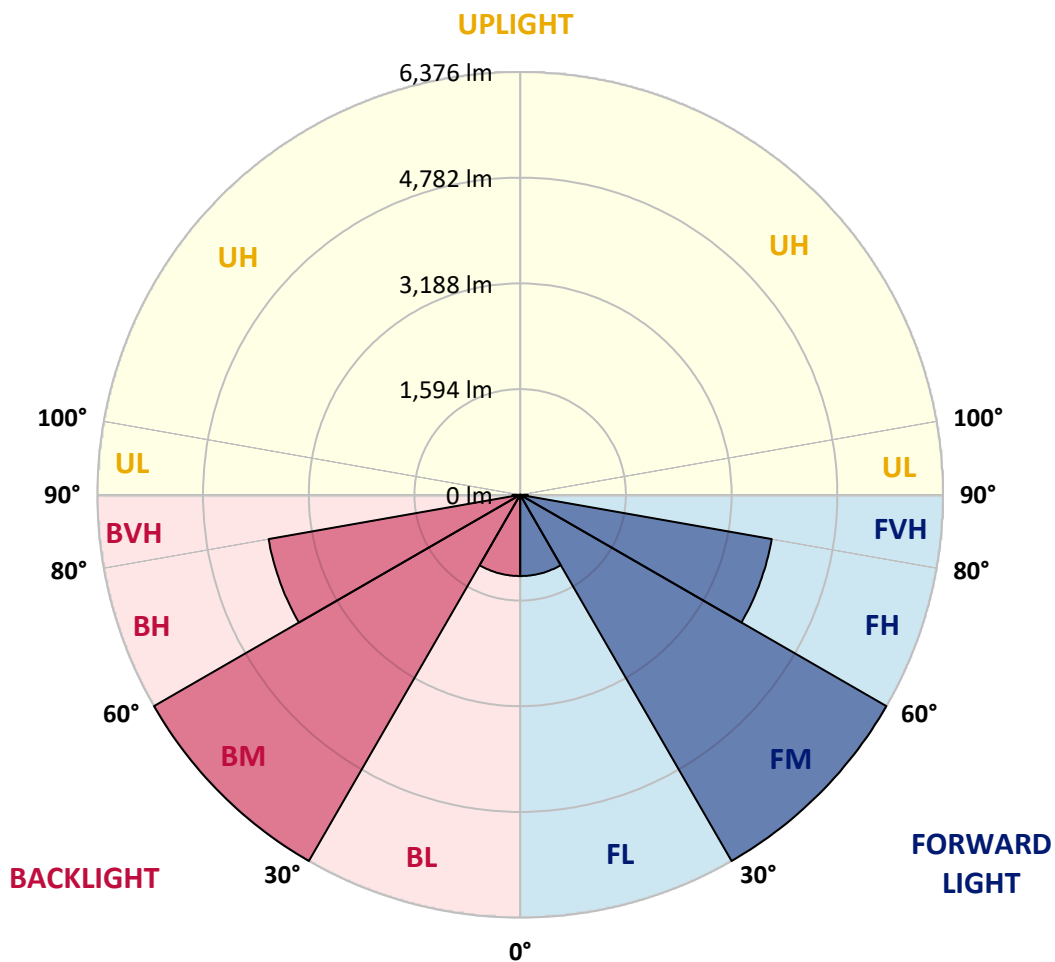
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.3	5.3			
FM	(30°-60°)	6376.3	27.6			
FH	(60°-80°)	3852.1	16.6			G2/5000
FVH	(80°-90°)	115.4	0.5			G2/225
BL	(0°-30°)	1225.3	5.3	B3/2500		
BM	(30°-60°)	6376.3	27.6	B4/8500		
BH	(60°-80°)	3852.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	115.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5
2.5°	2562.2	2560.0	2562.2	2561.1	2563.3	2563.3	2565.4	2569.8	2569.8	2573.1	2572.0
5°	2537.0	2535.9	2539.2	2542.5	2545.8	2552.3	2558.9	2568.7	2576.4	2581.9	2587.3
7.5°	2487.8	2487.8	2492.2	2499.8	2507.5	2521.7	2537.0	2556.7	2576.4	2592.8	2607.0
10°	2447.3	2449.5	2455.0	2468.1	2481.2	2503.1	2523.9	2552.3	2579.7	2607.0	2628.9
12.5°	2423.3	2426.6	2436.4	2456.1	2478.0	2507.5	2539.2	2575.3	2605.9	2638.7	2660.6
15°	2430.9	2433.1	2447.3	2471.4	2499.8	2537.0	2579.7	2622.3	2658.4	2693.4	2722.9
17.5°	2473.6	2476.9	2493.3	2520.6	2550.1	2593.9	2639.8	2687.9	2732.8	2772.1	2808.2
20°	2550.1	2553.4	2574.2	2603.7	2638.7	2683.6	2729.5	2779.8	2830.1	2871.6	2912.1
22.5°	2658.4	2663.9	2683.6	2713.1	2752.4	2800.6	2855.2	2908.8	2956.9	2995.2	3031.3
25°	2800.6	2812.6	2831.2	2864.0	2905.5	2949.3	3008.3	3063.0	3108.9	3145.0	3171.3
27.5°	3001.8	3018.2	3032.4	3064.1	3104.6	3146.1	3205.2	3253.3	3297.0	3332.0	3351.7
30°	3268.6	3285.0	3299.2	3329.8	3367.0	3406.4	3462.2	3504.8	3532.1	3559.5	3558.4
32.5°	3592.3	3609.8	3615.3	3648.1	3686.3	3729.0	3779.3	3803.3	3825.2	3828.5	3808.8
35°	3954.2	3963.0	3984.9	4028.6	4072.4	4107.3	4155.5	4167.5	4167.5	4151.1	4107.3
37.5°	4351.2	4356.7	4387.3	4436.5	4481.3	4517.4	4550.2	4574.3	4562.3	4527.3	4454.0
40°	4786.4	4796.3	4840.0	4883.8	4934.1	4968.0	5003.0	5007.3	4995.3	4943.9	4844.4
42.5°	5202.0	5210.7	5254.5	5323.4	5389.0	5436.0	5468.8	5475.4	5437.1	5390.1	5266.5
45°	5559.6	5582.5	5639.4	5720.3	5815.5	5882.2	5927.0	5945.6	5911.7	5850.5	5707.2
47.5°	5842.8	5865.8	5946.7	6042.9	6161.0	6269.3	6343.6	6383.0	6374.3	6328.3	6172.0
50°	6050.6	6072.4	6159.9	6278.0	6415.8	6550.3	6677.2	6771.2	6804.0	6783.2	6640.0
52.5°	6074.6	6110.7	6213.5	6372.1	6551.4	6735.1	6915.6	7075.2	7183.5	7199.9	7093.8
55°	5738.9	5775.0	5917.2	6152.3	6419.1	6718.7	7007.4	7276.4	7489.7	7599.0	7543.3
57.5°	4947.2	5011.7	5161.5	5437.1	5829.7	6278.0	6738.4	7216.3	7650.4	7940.2	7996.0
60°	3791.3	3867.9	4018.8	4311.8	4749.3	5284.0	5898.6	6605.0	7371.6	8023.3	8412.6
62.5°	2432.0	2504.2	2662.8	2917.6	3274.1	3853.6	4513.0	5351.8	6381.9	7410.9	8338.3
65°	1249.9	1289.3	1372.4	1526.6	1804.3	2237.4	2829.0	3665.6	4843.3	6112.9	7453.6
67.5°	791.7	799.4	818.0	839.8	910.9	1060.7	1336.3	1857.9	2826.8	4151.1	5720.3
70°	684.6	684.6	675.8	672.5	681.3	702.1	744.7	866.1	1193.1	1970.6	3299.2
72.5°	626.6	620.0	604.7	592.7	590.5	590.5	599.3	617.9	670.3	802.7	1291.5
75°	577.4	558.8	538.0	523.8	518.3	512.9	511.8	515.1	526.0	546.8	616.8
77.5°	517.2	493.2	469.1	454.9	448.4	440.7	434.1	426.5	421.0	427.6	458.2
80°	445.1	417.7	399.1	390.4	383.8	372.9	358.7	345.6	333.5	331.3	349.9
82.5°	358.7	327.0	328.1	331.3	319.3	304.0	288.7	274.5	253.7	242.8	253.7
85°	289.8	273.4	265.7	286.5	269.0	246.0	222.0	196.8	164.0	137.8	149.8
87.5°	112.6	112.6	168.4	259.2	232.9	190.3	162.9	138.9	86.4	66.7	67.8
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°	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5
2.5°	2570.9	2573.1	2572.0	2570.9	2570.9	2569.8	2570.9	2570.9
5°	2590.6	2596.1	2596.1	2598.3	2598.3	2599.3	2600.4	2599.3
7.5°	2620.1	2630.0	2636.5	2644.2	2645.3	2646.4	2648.6	2646.4
10°	2649.7	2669.3	2683.6	2697.8	2704.3	2706.5	2708.7	2708.7
12.5°	2686.8	2714.2	2739.3	2764.5	2776.5	2783.1	2783.1	2787.4
15°	2748.1	2775.4	2804.9	2838.8	2859.6	2870.5	2873.8	2873.8
17.5°	2834.5	2858.5	2883.7	2916.5	2942.7	2956.9	2960.2	2959.1
20°	2935.1	2958.0	2972.2	2993.0	3016.0	3032.4	3036.8	3036.8
22.5°	3049.9	3063.0	3065.2	3071.8	3090.4	3112.2	3122.1	3124.2
25°	3176.7	3180.0	3171.3	3171.3	3183.3	3204.1	3213.9	3215.0
27.5°	3340.8	3324.4	3302.5	3294.8	3302.5	3326.6	3338.6	3343.0
30°	3545.3	3505.9	3455.6	3428.3	3423.9	3455.6	3477.5	3480.7
32.5°	3779.3	3722.4	3655.7	3599.9	3585.7	3605.4	3631.7	3630.6
35°	4057.0	3989.2	3908.3	3837.2	3804.4	3824.1	3861.3	3865.7
37.5°	4377.4	4288.9	4195.9	4106.3	4054.9	4060.3	4099.7	4112.8
40°	4735.0	4620.2	4503.2	4382.9	4309.6	4295.4	4343.5	4351.2
42.5°	5117.8	4970.1	4822.5	4673.8	4579.8	4557.9	4613.7	4610.4
45°	5525.7	5337.6	5164.8	5000.8	4889.2	4856.4	4902.3	4902.3
47.5°	5964.2	5732.3	5526.8	5340.9	5219.5	5172.5	5216.2	5219.5
50°	6428.9	6182.9	5941.2	5734.5	5589.1	5528.9	5585.8	5594.6
52.5°	6891.5	6652.0	6408.2	6172.0	5995.9	5922.6	5988.2	6016.7
55°	7360.6	7125.5	6892.6	6661.9	6453.0	6366.6	6436.6	6472.7
57.5°	7856.0	7638.4	7416.4	7183.5	6982.3	6847.8	6922.1	6970.2
60°	8436.7	8250.8	8020.0	7763.1	7559.7	7423.0	7465.6	7508.3
62.5°	8896.0	8968.1	8772.4	8475.0	8213.6	8038.6	8080.2	8125.0
65°	8674.0	9414.3	9588.2	9287.5	8925.5	8653.2	8635.7	8658.7
67.5°	7250.2	8688.2	9736.9	10023.4	9720.5	9342.1	9272.1	9306.0
70°	4849.9	6641.1	8491.4	9869.2	10235.6	10089.0	10020.1	10040.9
72.5°	2329.2	3867.9	5760.8	7592.5	8707.9	9219.7	9383.7	9463.5
75°	851.9	1535.3	2776.5	4183.9	5051.1	5847.2	6366.6	6578.7
77.5°	514.0	620.0	886.9	1335.2	1512.4	1692.8	1622.8	1657.8
80°	380.6	429.8	486.6	546.8	566.5	566.5	544.6	527.1
82.5°	266.8	298.5	325.9	358.7	367.4	351.0	288.7	229.6
85°	171.7	185.9	197.9	218.7	213.2	203.4	136.7	121.4
87.5°	78.7	89.7	94.0	103.9	99.5	95.1	67.8	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)