

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: P269224

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269224
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-04-LED-E1-RW-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23392.6 lumens
Efficiency: N/A
Efficacy: 90.7 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): 258
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

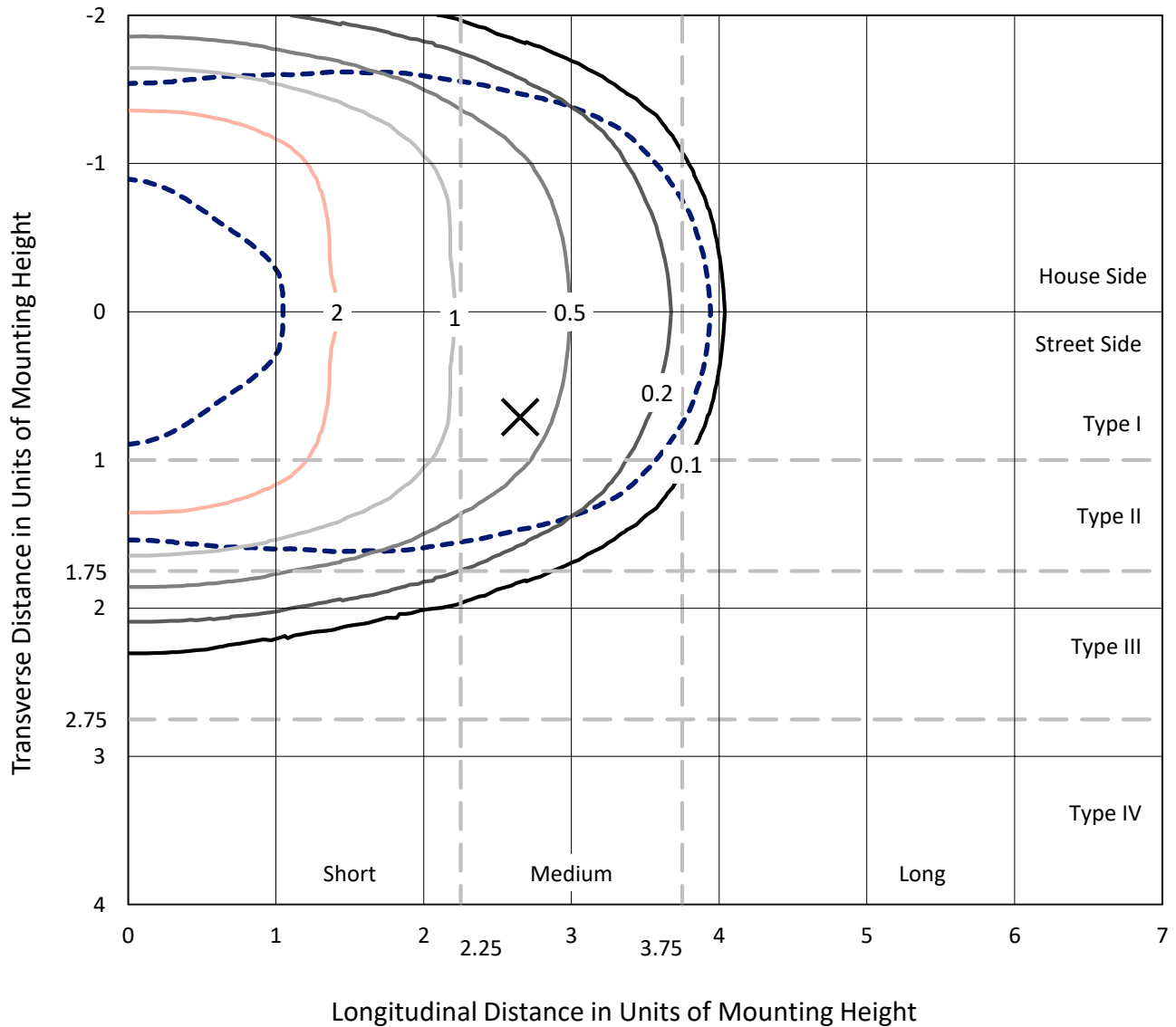


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

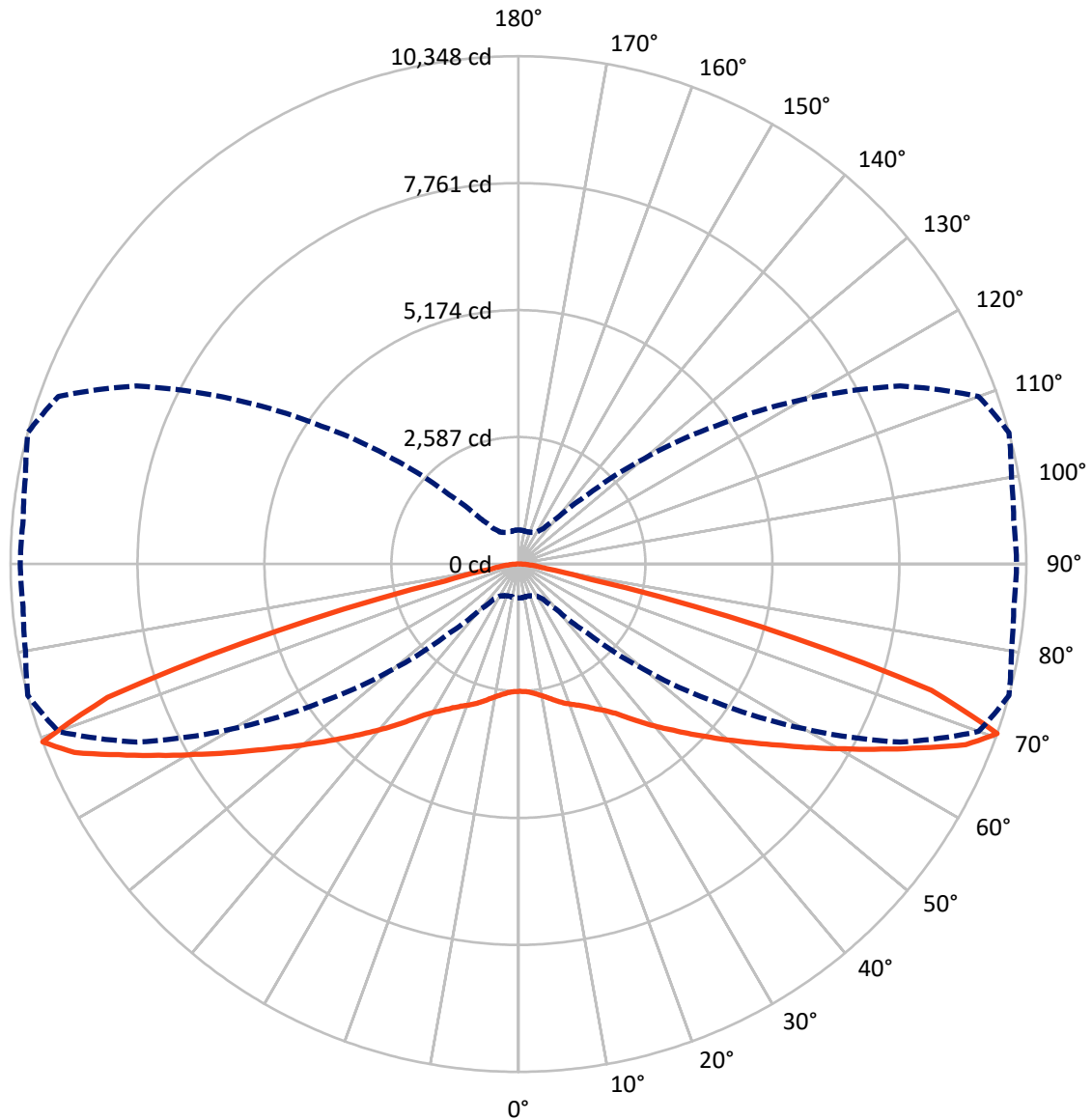


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - Full Cutoff

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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	11696.3	0.0	11696.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11696.3	0.0	11696.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	23392.6	0.0	23392.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.1
10°-20°	773.2	3.3
20°-30°	1455.4	6.2
30°-40°	2577.2	11.0
40°-50°	4309.9	18.4
50°-60°	6005.8	25.7
60°-70°	5569.4	23.8
70°-80°	2219.6	9.5
80°-90°	233.3	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°	23392.6	100.0
0°-180°	23392.6	100.0



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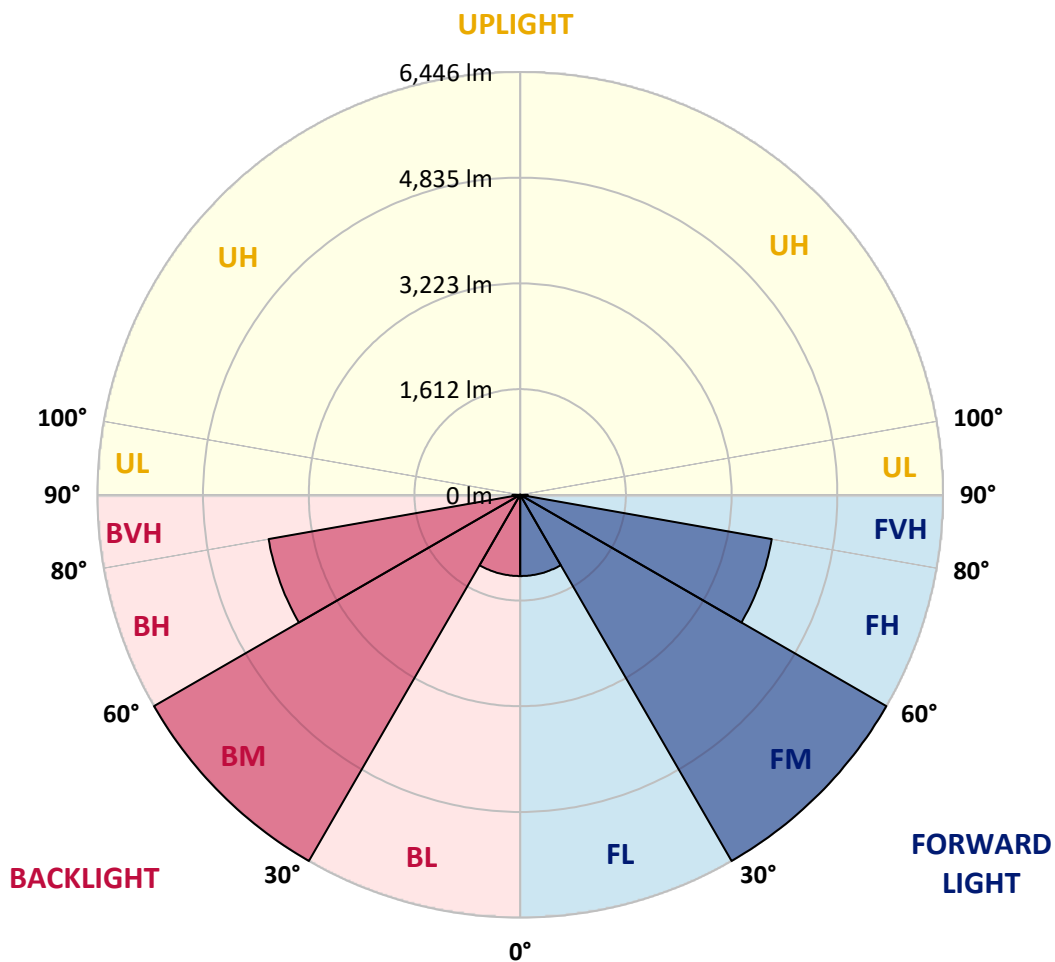
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.7	5.3			
FM	(30°-60°)	6446.4	27.6			
FH	(60°-80°)	3894.5	16.6			G2/5000
FVH	(80°-90°)	116.7	0.5			G2/225
BL	(0°-30°)	1238.7	5.3	B3/2500		
BM	(30°-60°)	6446.4	27.6	B4/8500		
BH	(60°-80°)	3894.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	116.7	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°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2.5°	2590.4	2588.1	2590.4	2589.3	2591.5	2591.5	2593.6	2598.1	2598.1	2601.4	2600.4
5°	2564.9	2563.9	2567.1	2570.5	2573.7	2580.4	2587.1	2597.0	2604.7	2610.3	2615.8
7.5°	2515.2	2515.2	2519.6	2527.3	2535.0	2549.5	2564.9	2584.9	2604.7	2621.3	2635.6
10°	2474.3	2476.4	2481.9	2495.3	2508.5	2530.6	2551.6	2580.4	2608.0	2635.6	2657.8
12.5°	2449.9	2453.4	2463.2	2483.2	2505.3	2535.0	2567.1	2603.6	2634.5	2667.7	2689.9
15°	2457.8	2459.9	2474.3	2498.5	2527.3	2564.9	2608.0	2651.2	2687.6	2723.0	2752.9
17.5°	2500.8	2504.1	2520.7	2548.3	2578.1	2622.4	2668.9	2717.6	2762.8	2802.6	2839.2
20°	2578.1	2581.5	2602.5	2632.4	2667.7	2713.2	2759.6	2810.3	2861.2	2903.2	2944.1
22.5°	2687.6	2693.2	2713.2	2743.0	2782.7	2831.4	2886.7	2940.8	2989.5	3028.1	3064.7
25°	2831.4	2843.6	2862.3	2895.4	2937.5	2981.7	3041.4	3096.6	3143.2	3179.6	3206.2
27.5°	3034.8	3051.5	3065.7	3097.9	3138.8	3180.8	3240.5	3289.1	3333.3	3368.7	3388.5
30°	3304.5	3321.2	3335.5	3366.5	3404.0	3443.8	3500.2	3543.4	3571.0	3598.7	3597.5
32.5°	3631.8	3649.5	3655.1	3688.3	3726.9	3769.9	3820.9	3845.1	3867.4	3870.6	3850.8
35°	3997.7	4006.6	4028.7	4072.9	4117.1	4152.5	4201.3	4213.3	4213.3	4196.8	4152.5
37.5°	4399.1	4404.6	4435.7	4485.3	4530.6	4567.2	4600.3	4624.7	4612.4	4577.0	4503.1
40°	4839.1	4849.1	4893.2	4937.5	4988.4	5022.7	5057.9	5062.5	5050.4	4998.3	4897.6
42.5°	5259.2	5268.1	5312.2	5381.9	5448.3	5495.8	5529.0	5535.6	5496.9	5449.4	5324.4
45°	5620.8	5644.1	5701.5	5783.3	5879.4	5946.9	5992.2	6011.0	5976.8	5914.8	5770.1
47.5°	5907.1	5930.3	6012.1	6109.5	6228.8	6338.4	6413.4	6453.2	6444.4	6398.0	6239.8
50°	6117.2	6139.2	6227.7	6347.2	6486.4	6622.5	6750.7	6845.8	6879.0	6857.9	6713.0
52.5°	6141.5	6178.0	6281.8	6442.1	6623.6	6809.2	6991.7	7153.1	7262.5	7279.1	7171.9
55°	5802.1	5838.5	5982.3	6220.0	6489.7	6792.7	7084.6	7356.5	7572.2	7682.7	7626.3
57.5°	5001.7	5066.9	5218.3	5496.9	5893.8	6347.2	6812.6	7295.8	7734.5	8027.7	8083.9
60°	3833.1	3910.4	4063.0	4359.3	4801.5	5342.1	5963.5	6677.7	7452.7	8111.6	8505.2
62.5°	2458.8	2531.8	2692.1	2949.7	3310.2	3896.0	4562.8	5410.8	6452.2	7492.6	8430.1
65°	1263.6	1303.5	1387.5	1543.4	1824.2	2262.0	2860.2	3705.9	4896.7	6180.2	7535.6
67.5°	800.4	808.1	827.0	849.1	920.9	1072.3	1351.1	1878.4	2857.9	4196.8	5783.3
70°	692.1	692.1	683.3	679.9	688.8	709.8	752.9	875.6	1206.2	1992.3	3335.5
72.5°	633.5	626.8	611.3	599.2	597.1	597.1	605.8	624.6	677.7	811.4	1305.6
75°	583.8	564.9	544.0	529.6	524.0	518.5	517.5	520.7	531.7	552.7	623.6
77.5°	523.0	498.6	474.2	459.9	453.3	445.6	438.9	431.1	425.6	432.3	463.3
80°	450.1	422.4	403.5	394.6	388.1	377.0	362.6	349.4	337.3	335.0	353.8
82.5°	362.6	330.5	331.7	335.0	322.9	307.3	291.9	277.4	256.5	245.4	256.5
85°	292.9	276.4	268.7	289.7	271.9	248.7	224.4	199.1	165.8	139.2	151.5
87.5°	113.8	113.8	170.3	262.0	235.4	192.3	164.7	140.4	87.3	67.5	68.5
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°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2.5°	2599.2	2601.4	2600.4	2599.2	2599.2	2598.1	2599.2	2599.2
5°	2619.1	2624.7	2624.7	2626.9	2626.9	2627.9	2629.1	2627.9
7.5°	2648.9	2659.0	2665.5	2673.3	2674.3	2675.5	2677.7	2675.5
10°	2678.8	2698.7	2713.2	2727.4	2734.1	2736.2	2738.6	2738.6
12.5°	2716.5	2744.1	2769.5	2794.8	2807.1	2813.8	2813.8	2818.2
15°	2778.3	2805.9	2835.8	2870.1	2891.0	2902.2	2905.5	2905.5
17.5°	2865.7	2889.9	2915.4	2948.5	2975.0	2989.5	2992.9	2991.6
20°	2967.5	2990.5	3005.0	3026.0	3049.1	3065.7	3070.1	3070.1
22.5°	3083.4	3096.6	3099.0	3105.6	3124.3	3146.5	3156.5	3158.6
25°	3211.7	3215.0	3206.2	3206.2	3218.4	3239.4	3249.3	3250.3
27.5°	3377.5	3361.0	3338.8	3331.2	3338.8	3363.2	3375.3	3379.8
30°	3584.2	3544.5	3493.6	3466.0	3461.6	3493.6	3515.7	3519.0
32.5°	3820.9	3763.4	3695.9	3639.6	3625.2	3645.1	3671.6	3670.6
35°	4101.8	4033.1	3951.4	3879.5	3846.4	3866.1	3903.8	3908.3
37.5°	4425.6	4336.1	4242.1	4151.4	4099.4	4105.1	4144.8	4158.1
40°	4787.2	4671.0	4552.8	4431.2	4357.0	4342.6	4391.4	4399.1
42.5°	5174.1	5024.8	4875.6	4725.3	4630.1	4608.0	4664.4	4661.1
45°	5586.5	5396.3	5221.7	5055.8	4943.1	4909.9	4956.3	4956.3
47.5°	6029.9	5795.4	5587.5	5399.6	5277.0	5229.4	5273.6	5277.0
50°	6499.6	6250.9	6006.5	5797.7	5650.6	5589.9	5647.3	5656.1
52.5°	6967.3	6725.3	6478.7	6239.8	6061.9	5987.8	6054.1	6083.0
55°	7441.6	7204.0	6968.4	6735.1	6524.0	6436.6	6507.4	6544.0
57.5°	7942.5	7722.5	7498.1	7262.5	7059.2	6923.1	6998.2	7046.9
60°	8529.5	8341.7	8108.3	7848.5	7642.9	7504.6	7547.7	7590.9
62.5°	8993.9	9066.9	8869.0	8568.3	8304.0	8127.1	8169.0	8214.5
65°	8769.4	9517.9	9693.7	9389.7	9023.7	8748.5	8730.7	8754.0
67.5°	7330.0	8783.7	9844.0	10133.7	9827.5	9444.9	9374.3	9408.5
70°	4903.2	6714.1	8584.8	9977.8	10348.1	10200.1	10130.4	10151.3
72.5°	2354.8	3910.4	5824.3	7675.9	8803.7	9321.2	9486.9	9567.7
75°	861.2	1552.2	2807.1	4229.8	5106.7	5911.6	6436.6	6651.1
77.5°	519.6	626.8	896.6	1350.0	1529.1	1711.5	1640.7	1676.1
80°	384.7	434.5	492.0	552.7	572.7	572.7	550.7	532.9
82.5°	269.9	301.8	329.5	362.6	371.4	354.9	291.9	232.2
85°	173.6	187.9	200.1	221.2	215.7	205.6	138.2	122.7
87.5°	79.6	90.6	95.1	105.0	100.6	96.2	68.5	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)