

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: P269303

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269303
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-05-LED-E1-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21346.2 lumens
Efficiency: N/A
Efficacy: 101.6 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

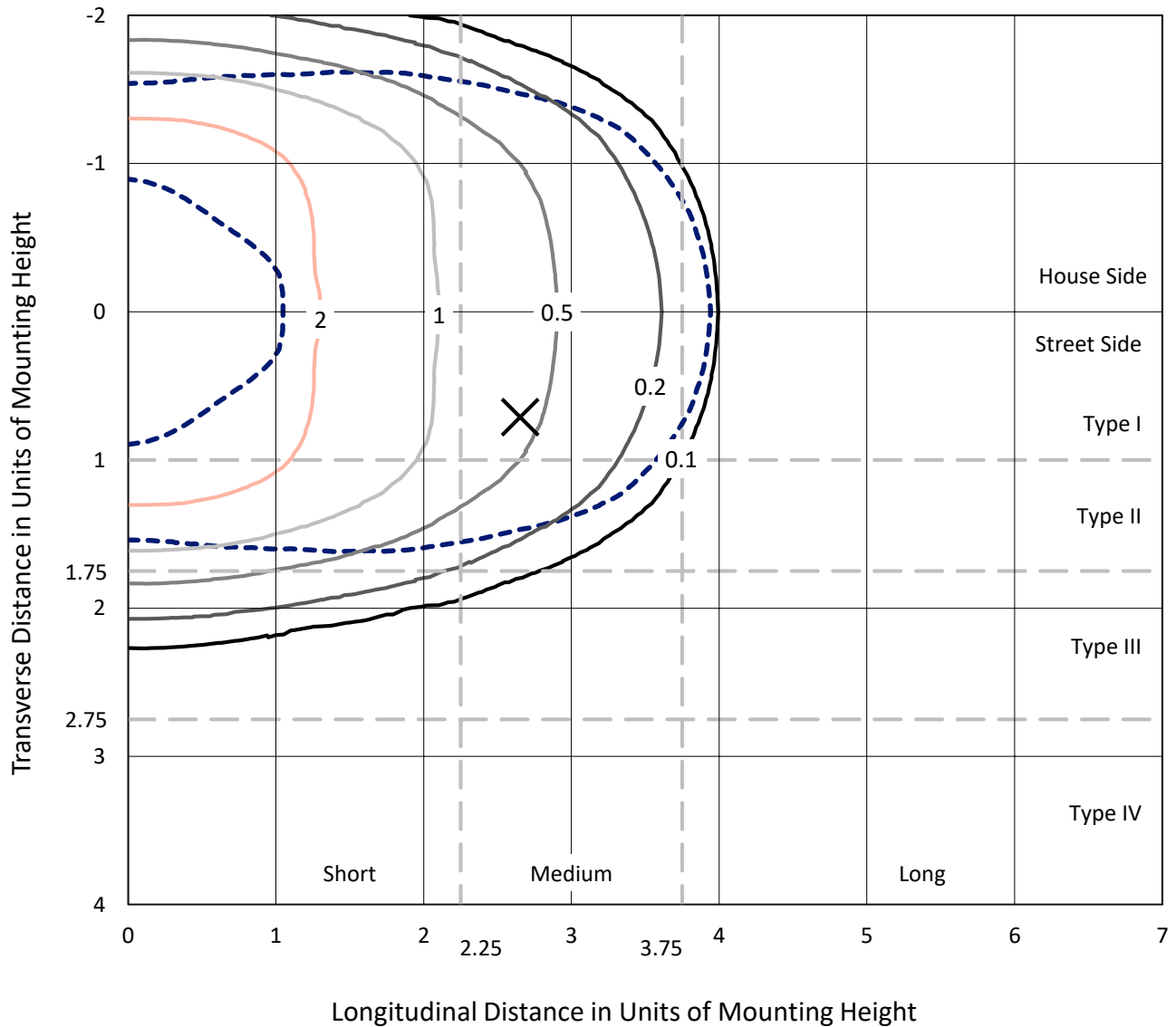


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

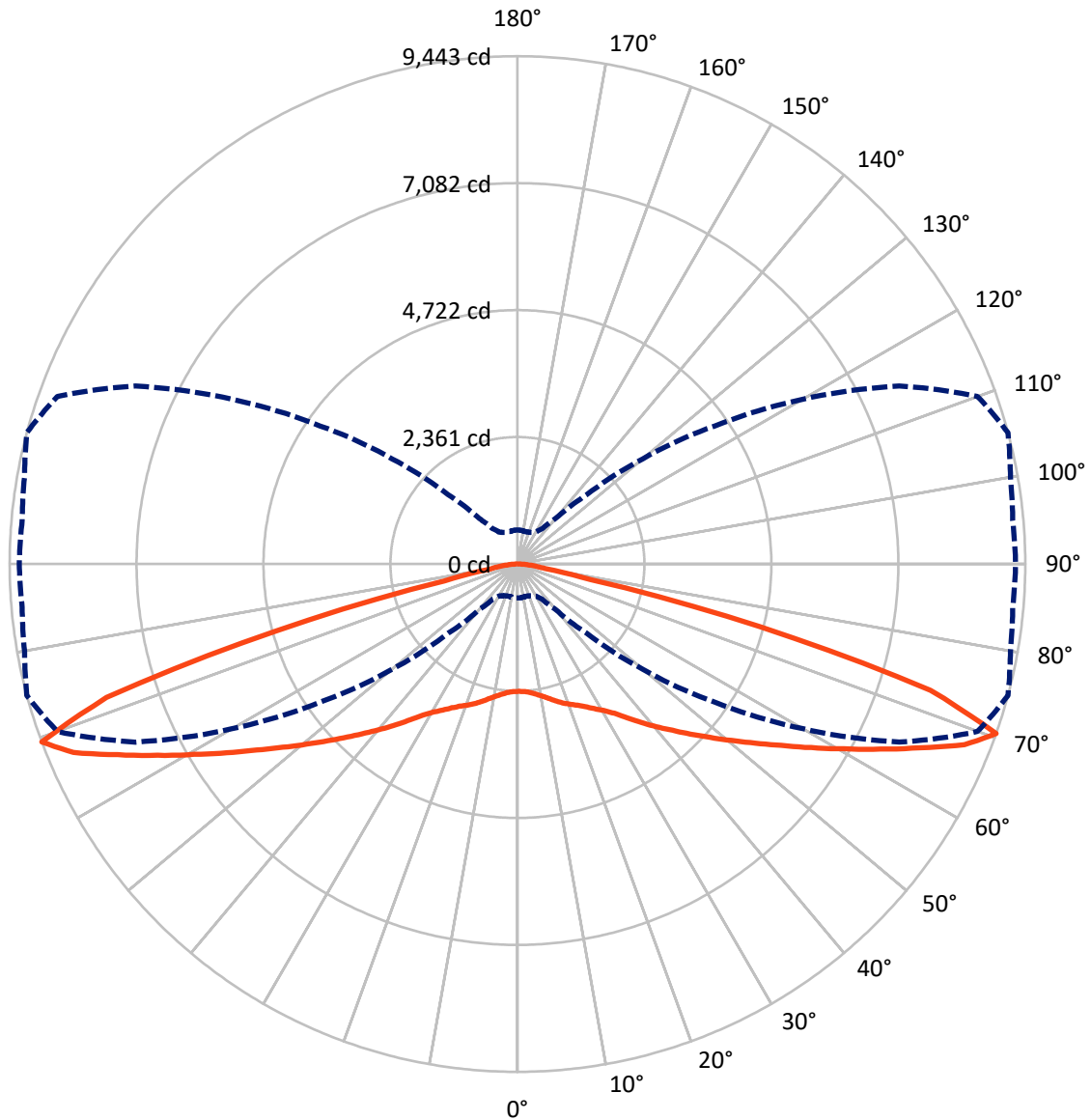


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - Full Cutoff

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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	10673.1	0.0	10673.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10673.1	0.0	10673.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21346.2	0.0	21346.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	1.1
10°-20°	705.6	3.3
20°-30°	1328.1	6.2
30°-40°	2351.7	11.0
40°-50°	3932.8	18.4
50°-60°	5480.4	25.7
60°-70°	5082.2	23.8
70°-80°	2025.4	9.5
80°-90°	212.9	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°	21346.2	100.0
0°-180°	21346.2	100.0



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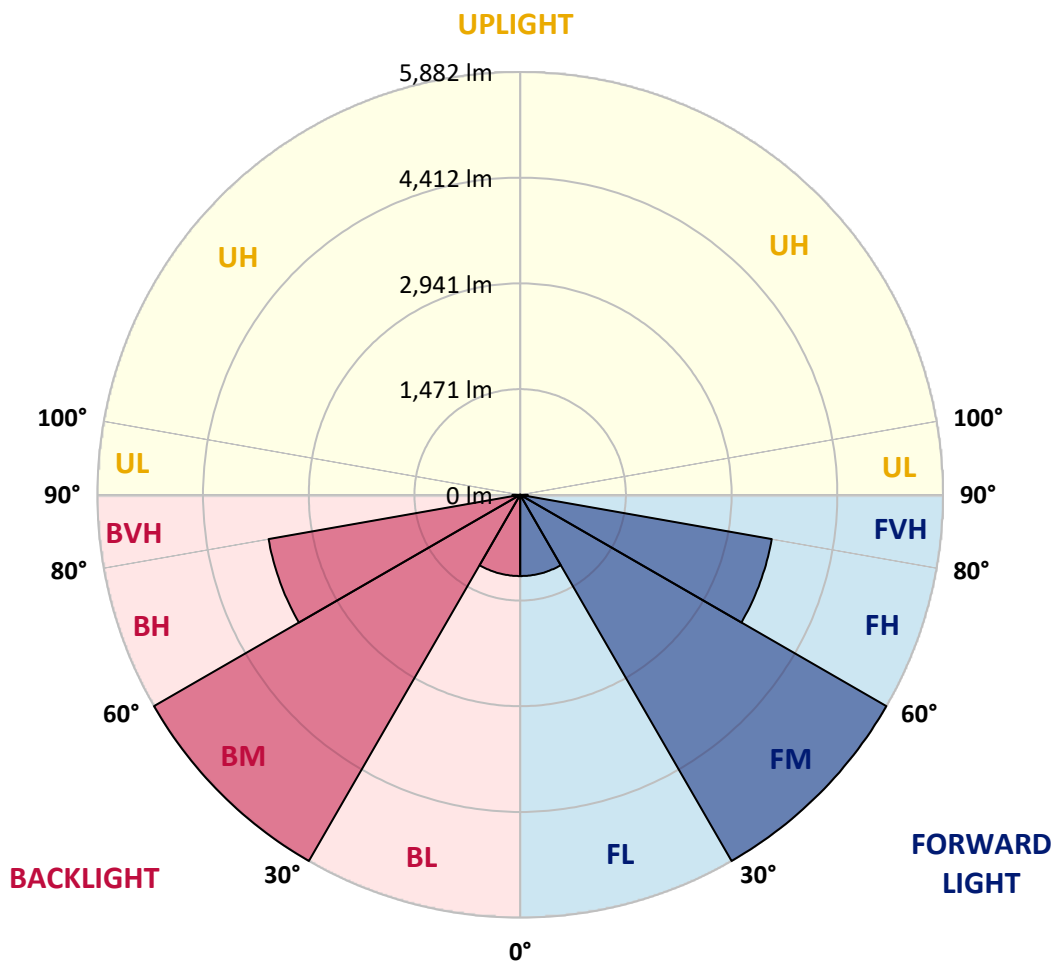
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1130.4	5.3			
FM	(30°-60°)	5882.5	27.6			
FH	(60°-80°)	3553.8	16.6			G2/5000
FVH	(80°-90°)	106.4	0.5			G2/225
BL	(0°-30°)	1130.4	5.3	B3/2500		
BM	(30°-60°)	5882.5	27.6	B4/8500		
BH	(60°-80°)	3553.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	106.4	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°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2363.8	2361.7	2363.8	2362.7	2364.8	2364.8	2366.8	2370.8	2370.8	2373.9	2372.9
5°	2340.5	2339.5	2342.6	2345.7	2348.6	2354.6	2360.7	2369.8	2376.8	2381.9	2386.9
7.5°	2295.2	2295.2	2299.2	2306.3	2313.3	2326.4	2340.5	2358.7	2376.8	2391.9	2405.1
10°	2257.8	2259.9	2264.8	2277.1	2289.2	2309.4	2328.4	2354.6	2379.9	2405.1	2425.3
12.5°	2235.6	2238.7	2247.7	2266.0	2286.0	2313.3	2342.6	2375.8	2404.1	2434.3	2454.6
15°	2242.7	2244.8	2257.8	2280.0	2306.3	2340.5	2379.9	2419.2	2452.6	2484.8	2512.1
17.5°	2282.1	2285.1	2300.2	2325.4	2352.8	2393.1	2435.3	2479.9	2521.2	2557.5	2590.7
20°	2352.8	2355.6	2374.8	2402.1	2434.3	2475.8	2518.0	2564.5	2611.0	2649.3	2686.7
22.5°	2452.6	2457.7	2475.8	2502.9	2539.2	2583.6	2634.1	2683.5	2728.0	2763.2	2796.6
25°	2583.6	2594.8	2611.9	2642.3	2680.5	2720.8	2775.4	2825.8	2868.2	2901.4	2925.7
27.5°	2769.4	2784.4	2797.6	2826.8	2864.2	2902.6	2957.0	3001.3	3041.8	3074.0	3092.1
30°	3015.5	3030.6	3043.7	3071.9	3106.2	3142.6	3194.1	3233.4	3258.6	3283.8	3282.9
32.5°	3314.0	3330.2	3335.2	3365.6	3400.9	3440.1	3486.6	3508.8	3529.0	3532.0	3513.9
35°	3648.0	3656.1	3676.4	3716.6	3757.0	3789.3	3833.6	3844.7	3844.7	3829.7	3789.3
37.5°	4014.3	4019.2	4047.6	4092.9	4134.3	4167.5	4197.9	4220.1	4209.0	4176.7	4109.0
40°	4415.8	4425.0	4465.3	4505.5	4552.0	4583.2	4615.5	4619.5	4608.5	4561.1	4469.2
42.5°	4799.1	4807.2	4847.6	4911.2	4971.7	5015.1	5045.3	5051.3	5016.0	4972.7	4858.7
45°	5129.1	5150.3	5202.8	5277.4	5365.0	5426.8	5468.1	5485.2	5453.9	5397.3	5265.2
47.5°	5390.3	5411.5	5486.2	5575.1	5683.9	5783.7	5852.4	5888.7	5880.7	5838.3	5693.9
50°	5582.0	5602.2	5682.9	5791.8	5919.0	6043.1	6160.0	6246.9	6277.1	6258.0	6125.8
52.5°	5604.3	5637.6	5732.4	5878.6	6044.1	6213.5	6380.0	6527.4	6627.2	6642.3	6544.5
55°	5294.5	5327.8	5458.9	5675.9	5921.9	6198.5	6464.8	6712.9	6909.8	7010.6	6959.1
57.5°	4564.1	4623.5	4761.8	5016.0	5378.2	5791.8	6216.6	6657.5	7058.1	7325.3	7376.8
60°	3497.7	3568.3	3707.6	3978.0	4381.6	4874.8	5441.8	6093.6	6800.7	7402.0	7761.1
62.5°	2243.6	2310.4	2456.5	2691.6	3020.6	3555.2	4163.6	4937.4	5887.8	6837.0	7692.5
65°	1153.2	1189.4	1266.2	1408.4	1664.6	2064.1	2609.9	3381.7	4468.2	5639.5	6876.3
67.5°	730.4	737.5	754.7	774.8	840.4	978.7	1232.8	1714.1	2607.9	3829.7	5277.4
70°	631.6	631.6	623.5	620.5	628.5	647.7	687.1	799.0	1100.7	1818.0	3043.7
72.5°	578.1	572.0	557.8	546.8	544.8	544.8	552.8	570.1	618.5	740.6	1191.4
75°	532.6	515.5	496.4	483.3	478.2	473.1	472.1	475.2	485.3	504.4	568.9
77.5°	477.2	455.0	432.9	419.7	413.6	406.6	400.6	393.5	388.3	394.4	422.7
80°	410.6	385.5	368.2	360.2	354.1	344.1	330.8	318.8	307.7	305.8	322.9
82.5°	330.8	301.7	302.6	305.8	294.6	280.5	266.3	253.2	234.1	223.9	234.1
85°	267.3	252.2	245.1	264.3	248.2	227.0	204.9	181.5	151.4	127.1	138.2
87.5°	103.9	103.9	155.3	239.0	214.9	175.6	150.3	128.1	79.7	61.5	62.5
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°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2371.9	2373.9	2372.9	2371.9	2371.9	2370.8	2371.9	2371.9
5°	2390.0	2395.1	2395.1	2397.0	2397.0	2398.0	2399.1	2398.0
7.5°	2417.2	2426.3	2432.4	2439.4	2440.4	2441.5	2443.5	2441.5
10°	2444.5	2462.7	2475.8	2488.8	2495.0	2496.8	2498.9	2498.9
12.5°	2478.8	2503.9	2527.2	2550.4	2561.4	2567.5	2567.5	2571.6
15°	2535.2	2560.4	2587.7	2619.0	2638.1	2648.3	2651.3	2651.3
17.5°	2615.0	2637.2	2660.4	2690.7	2714.9	2728.0	2730.9	2729.9
20°	2707.9	2729.1	2742.0	2761.3	2782.4	2797.6	2801.6	2801.6
22.5°	2813.8	2825.8	2827.9	2834.0	2851.0	2871.3	2880.2	2882.3
25°	2930.7	2933.8	2925.7	2925.7	2936.7	2956.0	2965.0	2966.1
27.5°	3082.1	3067.0	3046.7	3039.7	3046.7	3069.0	3080.1	3084.2
30°	3270.6	3234.3	3188.1	3162.8	3158.7	3188.1	3208.1	3211.3
32.5°	3486.6	3434.2	3372.6	3321.2	3308.1	3326.2	3350.4	3349.4
35°	3742.9	3680.4	3605.6	3540.1	3509.8	3528.1	3562.3	3566.4
37.5°	4038.5	3956.8	3870.9	3788.2	3740.8	3745.9	3782.3	3794.4
40°	4368.4	4262.5	4154.5	4043.5	3975.9	3962.9	4007.2	4014.3
42.5°	4721.5	4585.3	4449.0	4311.9	4225.1	4205.0	4256.3	4253.4
45°	5097.8	4924.2	4764.9	4613.5	4510.6	4480.3	4522.7	4522.7
47.5°	5502.3	5288.4	5098.8	4927.3	4815.3	4771.8	4812.3	4815.3
50°	5931.1	5704.1	5481.2	5290.5	5156.4	5100.8	5153.2	5161.3
52.5°	6357.8	6137.0	5911.9	5693.9	5531.7	5464.0	5524.5	5550.7
55°	6790.6	6573.7	6358.8	6145.9	5953.2	5873.6	5938.2	5971.5
57.5°	7247.6	7046.9	6842.1	6627.2	6441.6	6317.5	6386.1	6430.4
60°	7783.4	7611.9	7399.0	7161.8	6974.3	6848.1	6887.5	6926.8
62.5°	8207.0	8273.7	8093.1	7818.7	7577.6	7416.1	7454.4	7495.8
65°	8002.3	8685.4	8845.7	8568.3	8234.4	7983.1	7967.0	7988.2
67.5°	6688.7	8015.3	8983.0	9247.2	8967.8	8618.7	8554.1	8585.5
70°	4474.3	6126.8	7833.8	9105.0	9443.0	9307.8	9244.2	9263.3
72.5°	2148.8	3568.3	5314.7	7004.5	8033.5	8505.7	8657.1	8730.6
75°	785.8	1416.4	2561.4	3859.8	4659.9	5394.4	5873.6	6069.3
77.5°	474.1	572.0	818.1	1231.8	1395.2	1561.8	1497.1	1529.5
80°	351.1	396.5	449.0	504.4	522.5	522.5	502.4	486.3
82.5°	246.1	275.4	300.7	330.8	339.0	323.8	266.3	211.9
85°	158.5	171.4	182.5	201.8	196.6	187.7	126.1	112.0
87.5°	72.7	82.7	86.7	95.8	91.7	87.8	62.5	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)