

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: P193336

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26944 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 257
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

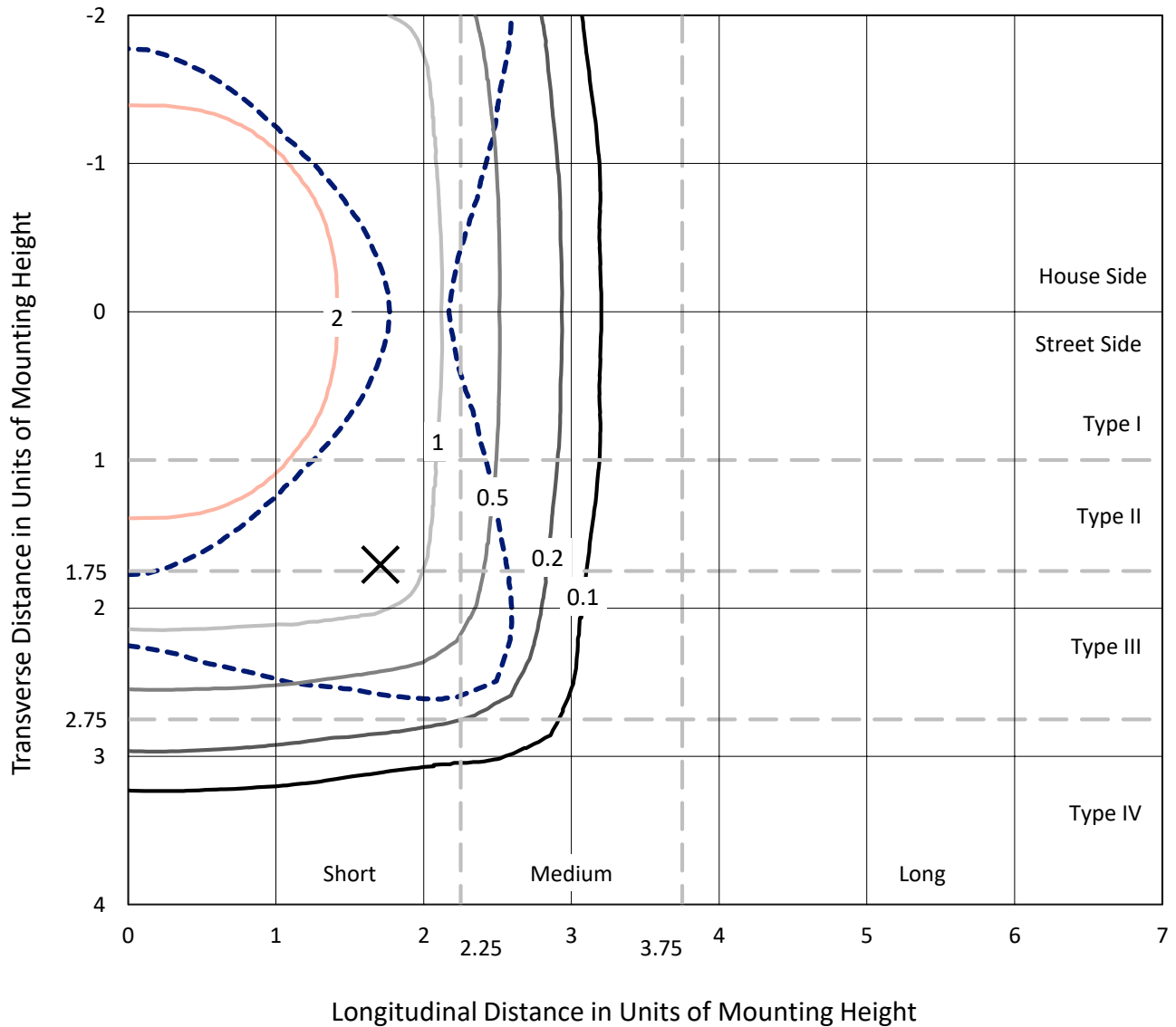


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

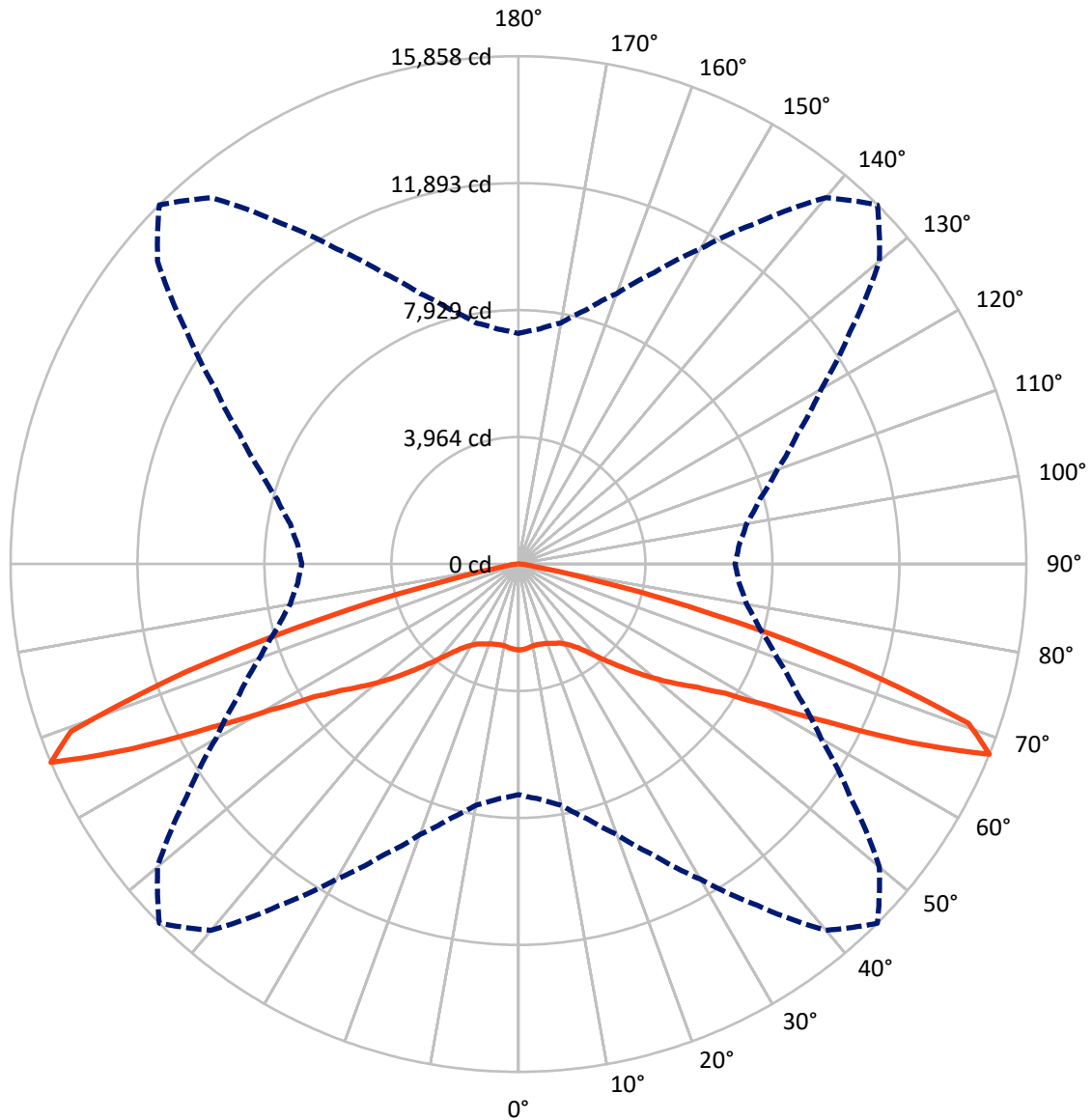


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13472.0	0.0	13472.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13472.0	0.0	13472.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26944.0	0.0	26944.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	0.9
10°-20°	729.3	2.7
20°-30°	1239.7	4.6
30°-40°	2026.6	7.5
40°-50°	3617.8	13.4
50°-60°	6099.7	22.6
60°-70°	9465.8	35.1
70°-80°	3325.9	12.3
80°-90°	188.0	0.7
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°	26944.0	100.0
0°-180°	26944.0	100.0



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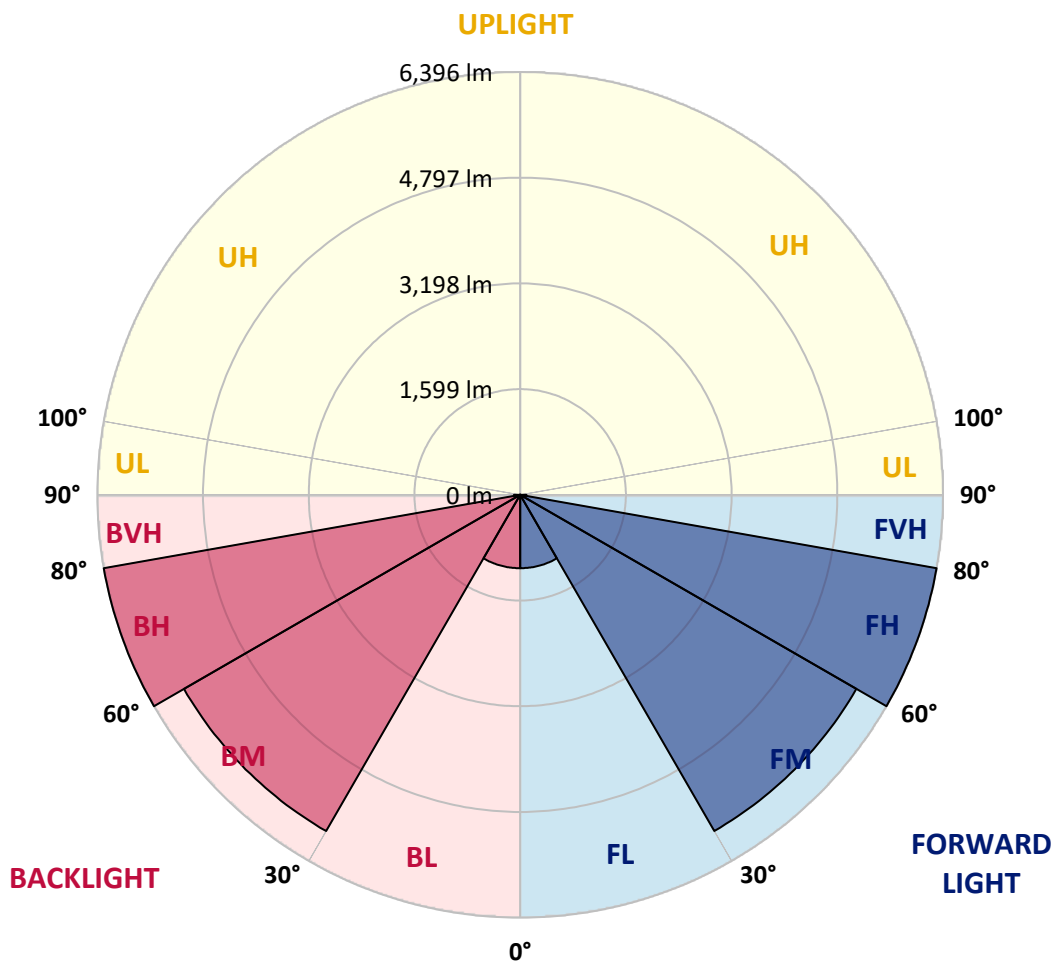
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.1	4.1			
FM	(30°-60°)	5872.0	21.8			
FH	(60°-80°)	6395.9	23.7			G3/7500
FVH	(80°-90°)	94.0	0.3			G1/100
BL	(0°-30°)	1110.1	4.1	B3/2500		
BM	(30°-60°)	5872.0	21.8	B4/8500		
BH	(60°-80°)	6395.9	23.7	B5		G3/7500
BVH	(80°-90°)	94.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1
2.5°	2675.2	2677.6	2677.6	2677.6	2676.4	2676.4	2673.9	2676.4	2675.2	2671.5	2672.7
5°	2652.9	2655.3	2655.3	2654.1	2657.8	2656.6	2652.9	2655.3	2654.1	2651.6	2652.9
7.5°	2620.7	2624.4	2624.4	2623.1	2626.8	2625.6	2623.1	2624.4	2624.4	2620.7	2620.7
10°	2584.7	2587.2	2587.2	2586.0	2592.2	2592.2	2590.9	2594.6	2595.9	2592.2	2589.7
12.5°	2551.3	2555.0	2555.0	2559.9	2566.1	2568.6	2574.8	2579.8	2584.7	2583.5	2578.5
15°	2531.4	2533.9	2538.9	2545.1	2555.0	2563.7	2573.6	2584.7	2594.6	2597.1	2589.7
17.5°	2519.0	2522.8	2530.2	2538.9	2552.5	2567.4	2582.2	2597.1	2610.7	2615.7	2607.0
20°	2515.3	2517.8	2525.2	2540.1	2558.7	2581.0	2602.1	2619.4	2638.0	2644.2	2638.0
22.5°	2522.8	2527.7	2536.4	2553.7	2578.5	2607.0	2631.8	2655.3	2678.9	2690.0	2681.4
25°	2556.2	2561.2	2572.3	2594.6	2621.9	2651.6	2680.1	2707.4	2728.5	2739.6	2733.4
27.5°	2618.2	2624.4	2638.0	2660.3	2690.0	2722.3	2753.2	2775.5	2792.9	2796.6	2789.2
30°	2711.1	2724.7	2740.8	2765.6	2800.3	2827.6	2858.6	2878.4	2899.4	2899.4	2893.2
32.5°	2856.1	2869.7	2887.1	2910.6	2937.9	2967.6	2994.9	3012.2	3034.5	3035.7	3020.9
35°	3072.9	3079.1	3094.0	3108.8	3133.6	3159.7	3183.2	3194.3	3212.9	3214.2	3200.5
37.5°	3359.1	3360.4	3370.3	3375.3	3397.6	3426.1	3448.4	3455.8	3473.1	3470.7	3457.0
40°	3692.5	3698.6	3702.4	3709.8	3733.3	3760.6	3784.1	3787.9	3806.4	3802.7	3785.4
42.5°	4077.8	4080.3	4101.4	4112.5	4134.8	4148.4	4178.2	4181.9	4204.2	4194.3	4174.5
45°	4510.2	4532.5	4552.4	4574.7	4598.2	4614.3	4637.9	4632.9	4647.8	4632.9	4621.8
47.5°	4965.0	4981.1	5025.7	5060.4	5098.8	5112.4	5145.9	5131.0	5145.9	5124.8	5121.1
50°	5465.6	5494.1	5532.5	5572.1	5613.0	5635.3	5678.7	5660.1	5679.9	5660.1	5649.0
52.5°	5958.7	5966.2	6050.4	6108.7	6165.7	6191.7	6217.7	6209.0	6210.3	6209.0	6197.9
55°	6427.1	6444.4	6528.7	6608.0	6707.1	6780.2	6824.8	6819.9	6808.7	6797.6	6779.0
57.5°	6954.9	6972.3	7068.9	7166.8	7279.6	7383.7	7474.1	7567.1	7603.0	7612.9	7572.0
60°	7668.7	7667.4	7796.3	7915.2	8076.3	8231.2	8429.5	8631.4	8863.1	8970.9	8828.4
62.5°	8394.8	8424.5	8610.4	8821.0	9153.1	9476.5	9842.0	10201.3	10568.1	10866.7	10549.5
65°	8308.0	8422.0	8698.3	9175.4	9788.7	10517.3	11305.4	12139.3	12892.6	13410.5	12829.4
67.5°	7200.3	7362.6	7643.9	8223.8	8990.8	10041.5	11364.8	13014.0	14930.9	15857.7	14709.1
70°	5219.0	5402.4	5697.3	6263.5	7023.1	8021.8	9459.1	11439.2	13976.8	14911.1	13646.0
72.5°	2597.1	2696.2	2878.4	3239.0	3813.9	4624.2	5927.8	7831.0	10076.2	10933.6	9777.6
75°	882.2	928.1	959.0	1076.8	1258.9	1577.3	2225.4	3423.6	5222.7	6261.1	5148.4
77.5°	509.3	510.5	531.6	552.6	583.6	618.3	705.0	925.6	1600.9	2273.7	1656.6
80°	329.6	328.4	345.7	361.8	382.9	400.2	405.2	428.7	494.4	586.1	524.1
82.5°	171.0	192.1	230.5	251.5	291.2	298.6	288.7	280.0	296.1	307.3	314.7
85°	94.2	81.8	122.7	158.6	175.9	178.4	178.4	168.5	174.7	171.0	185.9
87.5°	43.4	39.7	48.3	78.1	83.0	70.6	74.3	65.7	47.1	45.8	52.0
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°	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1	2685.1
2.5°	2672.7	2673.9	2673.9	2677.6	2678.9	2681.4	2683.8	2685.1
5°	2651.6	2655.3	2652.9	2656.6	2656.6	2659.1	2659.1	2660.3
7.5°	2620.7	2624.4	2624.4	2624.4	2623.1	2626.8	2626.8	2626.8
10°	2588.4	2590.9	2589.7	2587.2	2584.7	2588.4	2587.2	2586.0
12.5°	2578.5	2572.3	2567.4	2564.9	2559.9	2561.2	2557.5	2557.5
15°	2584.7	2573.6	2564.9	2561.2	2556.2	2553.7	2551.3	2552.5
17.5°	2600.8	2587.2	2576.0	2569.8	2563.7	2559.9	2555.0	2556.2
20°	2629.3	2613.2	2597.1	2584.7	2573.6	2567.4	2563.7	2562.4
22.5°	2671.5	2647.9	2624.4	2605.8	2590.9	2582.2	2578.5	2576.0
25°	2719.8	2693.8	2666.5	2645.4	2630.6	2619.4	2612.0	2612.0
27.5°	2780.5	2759.4	2734.6	2709.9	2696.2	2685.1	2680.1	2677.6
30°	2882.1	2862.3	2842.4	2818.9	2801.6	2790.4	2781.7	2774.3
32.5°	3012.2	2996.1	2980.0	2962.6	2946.5	2931.7	2918.0	2911.8
35°	3195.6	3183.2	3172.0	3152.2	3146.0	3137.3	3129.9	3123.7
37.5°	3448.4	3443.4	3443.4	3422.3	3417.4	3413.7	3406.2	3407.5
40°	3780.4	3785.4	3779.2	3771.8	3768.0	3758.1	3758.1	3766.8
42.5°	4173.2	4176.9	4190.6	4178.2	4191.8	4179.4	4172.0	4178.2
45°	4629.2	4642.8	4670.1	4657.7	4666.4	4645.3	4619.3	4620.5
47.5°	5140.9	5153.3	5164.5	5155.8	5157.0	5122.4	5087.7	5079.0
50°	5672.5	5677.5	5683.7	5671.3	5673.7	5635.3	5595.7	5596.9
52.5°	6197.9	6221.4	6246.2	6212.7	6205.3	6161.9	6106.2	6083.9
55°	6798.8	6832.3	6803.8	6745.5	6687.3	6629.1	6556.0	6543.6
57.5°	7539.8	7482.8	7393.6	7283.3	7202.8	7121.0	7046.6	7015.7
60°	8570.7	8356.3	8195.3	8031.7	7928.9	7828.5	7730.6	7715.7
62.5°	10027.9	9657.4	9336.5	8998.2	8721.9	8506.3	8334.0	8285.7
65°	11854.3	10978.2	10218.7	9509.9	8894.1	8429.5	8137.0	8008.2
67.5°	12639.8	10910.1	9607.8	8601.7	7796.3	7233.7	6917.8	6760.4
70°	11107.1	9047.8	7631.5	6624.1	5890.6	5290.9	5004.6	4836.1
72.5°	7641.4	5755.5	4551.1	3714.8	3128.7	2626.8	2428.6	2413.7
75°	3431.0	2272.5	1566.2	1206.9	1016.0	883.5	842.6	811.6
77.5°	960.3	710.0	633.2	592.3	552.6	506.8	489.4	493.2
80°	467.1	441.1	423.8	397.7	361.8	323.4	306.1	313.5
82.5°	309.8	306.1	317.2	298.6	246.6	209.4	175.9	161.1
85°	188.3	190.8	194.5	195.8	166.0	116.5	79.3	89.2
87.5°	74.3	85.5	92.9	96.6	90.5	55.8	44.6	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)