

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: P193553

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193553
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24815 lumens
Efficiency: N/A
Efficacy: 88.9 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

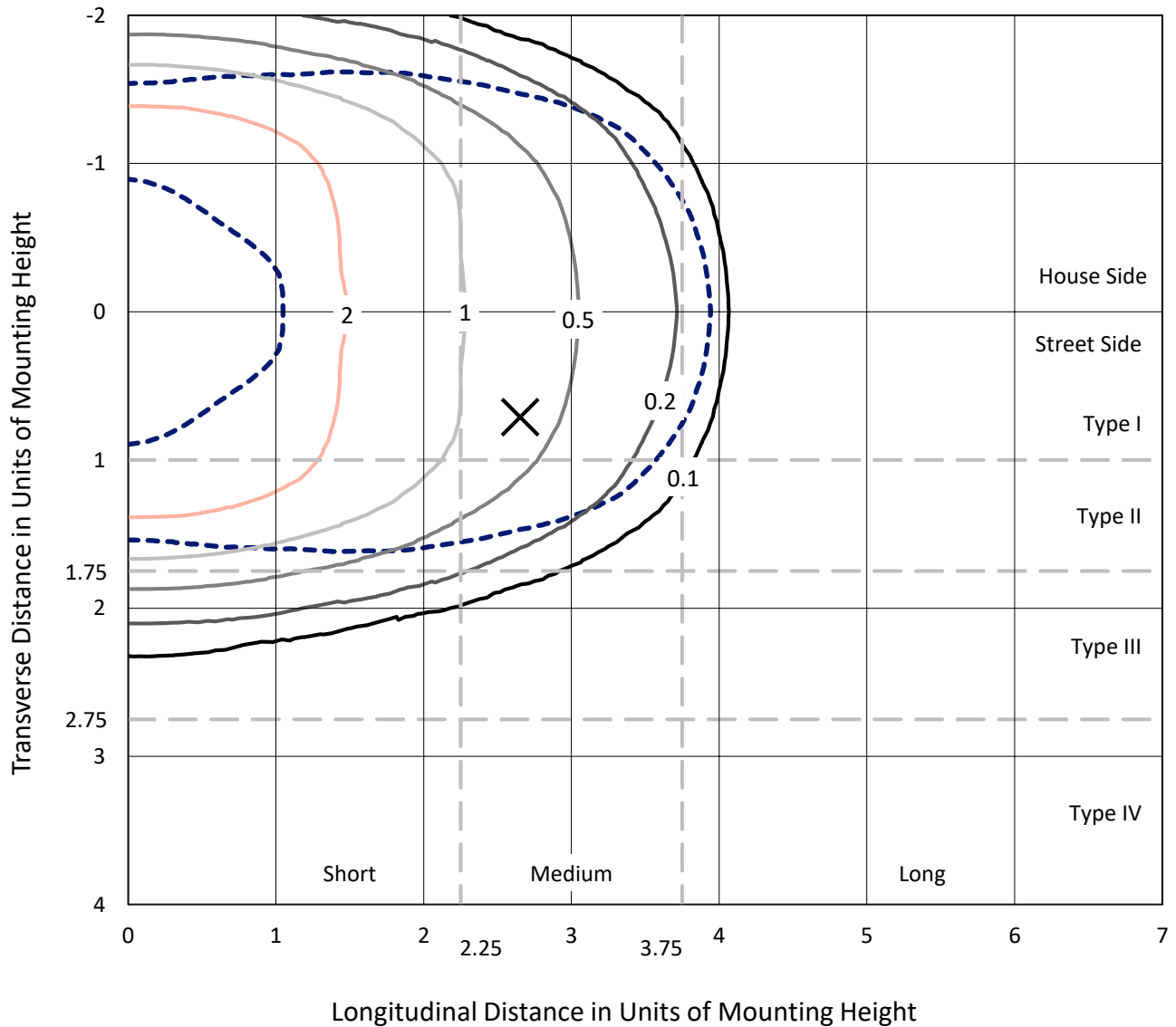
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

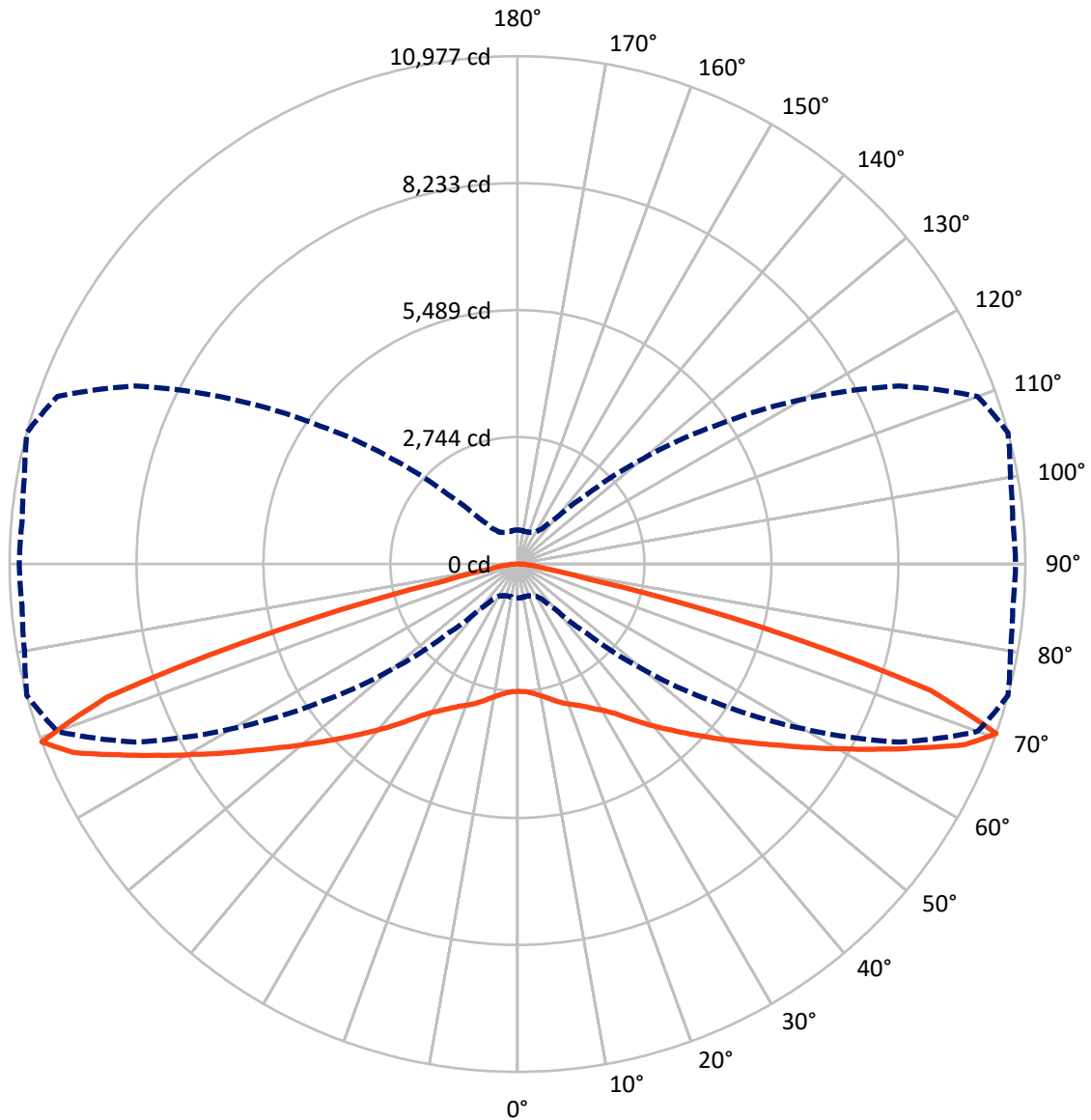
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	12407.5	0.0	12407.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12407.5	0.0	12407.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24815.0	0.0	24815.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	1.1
10°-20°	820.3	3.3
20°-30°	1543.9	6.2
30°-40°	2733.9	11.0
40°-50°	4571.9	18.4
50°-60°	6371.0	25.7
60°-70°	5908.1	23.8
70°-80°	2354.5	9.5
80°-90°	247.5	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°	24815.0	100.0
0°-180°	24815.0	100.0



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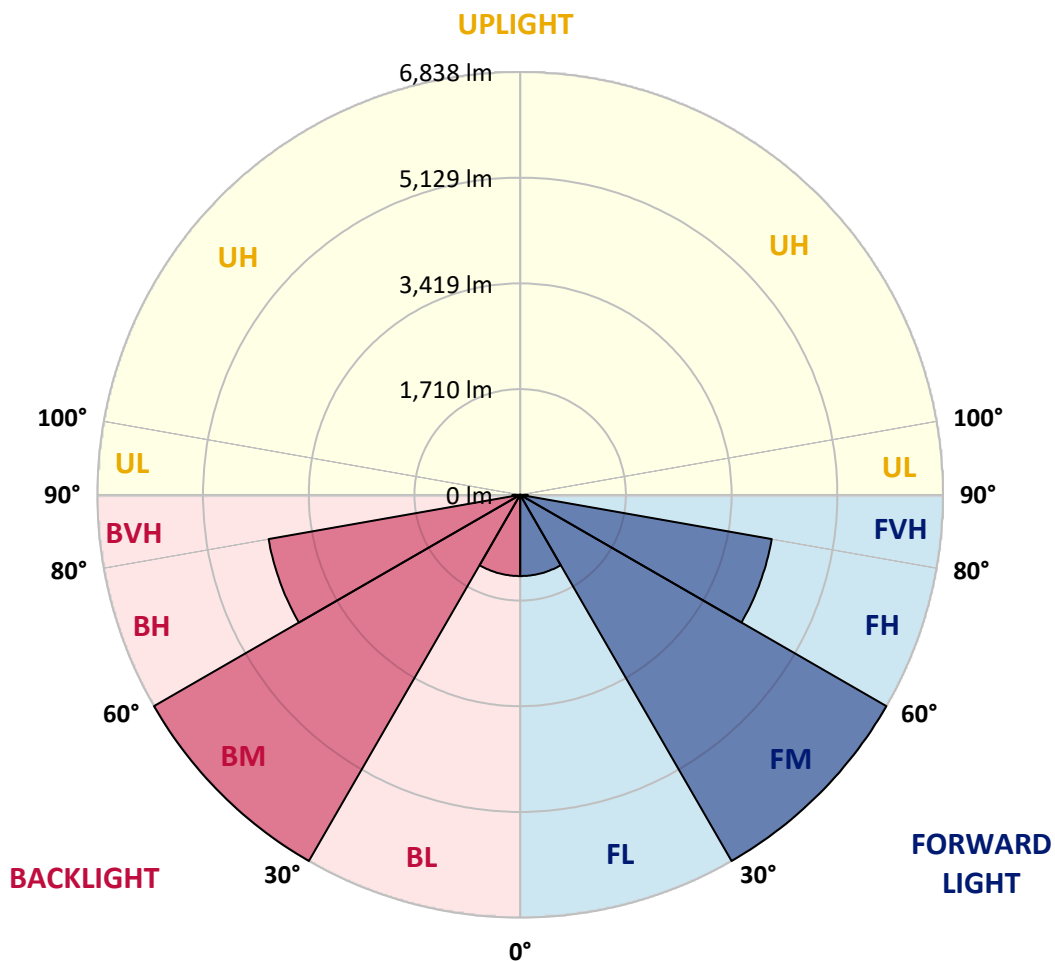
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.1	5.3			
FM	(30°-60°)	6838.4	27.6			
FH	(60°-80°)	4131.3	16.6			G2/5000
FVH	(80°-90°)	123.8	0.5			G2/225
BL	(0°-30°)	1314.1	5.3	B3/2500		
BM	(30°-60°)	6838.4	27.6	B4/8500		
BH	(60°-80°)	4131.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	123.8	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°	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6
2.5°	2747.9	2745.5	2747.9	2746.7	2749.0	2749.0	2751.4	2756.1	2756.1	2759.6	2758.4
5°	2720.9	2719.7	2723.2	2726.8	2730.3	2737.3	2744.4	2754.9	2763.1	2769.0	2774.8
7.5°	2668.1	2668.1	2672.8	2681.0	2689.2	2704.5	2720.9	2742.0	2763.1	2780.7	2796.0
10°	2624.7	2627.1	2632.9	2647.0	2661.1	2684.5	2706.8	2737.3	2766.6	2796.0	2819.4
12.5°	2598.9	2602.4	2613.0	2634.1	2657.6	2689.2	2723.2	2761.9	2794.8	2830.0	2853.4
15°	2607.1	2609.5	2624.7	2650.5	2681.0	2720.9	2766.6	2812.4	2851.1	2888.6	2920.3
17.5°	2652.9	2656.4	2674.0	2703.3	2735.0	2781.9	2831.1	2882.7	2930.8	2973.0	3011.8
20°	2735.0	2738.5	2760.8	2792.4	2830.0	2878.1	2927.3	2981.3	3035.2	3079.8	3123.2
22.5°	2851.1	2856.9	2878.1	2909.7	2951.9	3003.5	3062.2	3119.6	3171.3	3212.3	3251.0
25°	3003.5	3016.4	3036.4	3071.6	3116.1	3163.0	3226.4	3285.0	3334.3	3373.0	3401.1
27.5°	3219.3	3236.9	3252.2	3286.2	3329.6	3374.1	3437.5	3489.1	3536.0	3573.5	3594.6
30°	3505.5	3523.1	3538.3	3571.2	3611.1	3653.3	3713.1	3758.8	3788.1	3817.5	3816.3
32.5°	3852.6	3871.4	3877.3	3912.5	3953.5	3999.2	4053.2	4079.0	4102.5	4106.0	4084.9
35°	4240.8	4250.2	4273.7	4320.6	4367.5	4405.0	4456.6	4469.5	4469.5	4451.9	4405.0
37.5°	4666.6	4672.4	4705.3	4758.0	4806.1	4844.8	4880.0	4905.8	4892.9	4855.4	4776.8
40°	5133.3	5143.9	5190.8	5237.7	5291.7	5328.0	5365.6	5370.3	5357.4	5302.2	5195.5
42.5°	5579.0	5588.4	5635.3	5709.2	5779.6	5830.0	5865.2	5872.2	5831.2	5780.7	5648.2
45°	5962.5	5987.1	6048.1	6134.9	6237.0	6308.5	6356.6	6376.5	6340.2	6274.5	6120.8
47.5°	6266.3	6290.9	6377.7	6480.9	6607.6	6723.7	6803.4	6845.6	6836.3	6787.0	6619.3
50°	6489.1	6512.6	6606.4	6733.0	6880.8	7025.1	7161.1	7262.0	7297.2	7274.9	7121.2
52.5°	6514.9	6553.6	6663.9	6833.9	7026.2	7223.3	7416.8	7588.0	7704.1	7721.7	7608.0
55°	6154.9	6193.6	6346.0	6598.2	6884.3	7205.7	7515.3	7803.8	8032.5	8149.8	8090.0
57.5°	5305.7	5374.9	5535.6	5831.2	6252.2	6733.0	7226.8	7739.3	8204.9	8515.7	8575.5
60°	4066.1	4148.2	4310.0	4624.4	5093.5	5667.0	6326.1	7083.7	7905.8	8604.8	9022.4
62.5°	2608.3	2685.7	2855.8	3129.0	3511.4	4132.9	4840.1	5739.7	6844.5	7948.1	8942.6
65°	1340.5	1382.7	1471.9	1637.2	1935.1	2399.5	3034.0	3931.2	5194.3	6556.0	7993.8
67.5°	849.1	857.3	877.3	900.7	976.9	1137.6	1433.2	1992.6	3031.7	4451.9	6134.9
70°	734.2	734.2	724.8	721.3	730.7	752.9	798.7	928.9	1279.5	2113.4	3538.3
72.5°	672.0	665.0	648.6	635.7	633.3	633.3	642.7	662.6	718.9	860.8	1385.1
75°	619.2	599.3	577.0	561.8	555.9	550.0	548.9	552.4	564.1	586.4	661.5
77.5°	554.7	528.9	503.1	487.9	480.8	472.6	465.6	457.4	451.5	458.6	491.4
80°	477.3	448.0	428.1	418.7	411.7	399.9	384.7	370.6	357.7	355.4	375.3
82.5°	384.7	350.7	351.8	355.4	342.5	326.0	309.6	294.4	272.1	260.4	272.1
85°	310.8	293.2	285.0	307.3	288.5	263.9	238.1	211.1	175.9	147.8	160.7
87.5°	120.8	120.8	180.6	278.0	249.8	204.1	174.7	148.9	92.7	71.5	72.7
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°	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6
2.5°	2757.3	2759.6	2758.4	2757.3	2757.3	2756.1	2757.3	2757.3
5°	2778.4	2784.2	2784.2	2786.6	2786.6	2787.7	2788.9	2787.7
7.5°	2810.0	2820.6	2827.6	2835.8	2837.0	2838.2	2840.5	2838.2
10°	2841.7	2862.8	2878.1	2893.3	2900.3	2902.7	2905.0	2905.0
12.5°	2881.6	2910.9	2937.9	2964.8	2977.7	2984.8	2984.8	2989.5
15°	2947.2	2976.6	3008.2	3044.6	3066.9	3078.6	3082.1	3082.1
17.5°	3039.9	3065.7	3092.7	3127.9	3156.0	3171.3	3174.8	3173.6
20°	3147.8	3172.4	3187.7	3210.0	3234.6	3252.2	3256.9	3256.9
22.5°	3270.9	3285.0	3287.4	3294.4	3314.3	3337.8	3348.3	3350.7
25°	3407.0	3410.5	3401.1	3401.1	3414.0	3436.3	3446.9	3448.0
27.5°	3582.9	3565.3	3541.9	3533.6	3541.9	3567.7	3580.6	3585.2
30°	3802.2	3760.0	3706.0	3676.7	3672.0	3706.0	3729.5	3733.0
32.5°	4053.2	3992.2	3920.7	3860.9	3845.6	3866.7	3894.9	3893.7
35°	4351.1	4278.4	4191.6	4115.4	4080.2	4101.3	4141.2	4145.8
37.5°	4694.7	4599.7	4500.0	4403.9	4348.7	4354.6	4396.8	4410.9
40°	5078.2	4955.1	4829.6	4700.6	4622.0	4606.8	4658.4	4666.6
42.5°	5488.7	5330.4	5172.0	5012.5	4911.7	4888.2	4948.0	4944.5
45°	5926.2	5724.4	5539.1	5363.2	5243.6	5208.4	5257.7	5257.7
47.5°	6396.5	6147.8	5927.3	5728.0	5597.8	5547.3	5594.3	5597.8
50°	6894.9	6631.0	6371.8	6150.2	5994.2	5929.7	5990.7	6000.0
52.5°	7391.0	7134.1	6872.6	6619.3	6430.5	6351.9	6422.3	6452.7
55°	7894.1	7642.0	7392.2	7144.7	6920.7	6828.0	6903.1	6941.8
57.5°	8425.4	8192.0	7953.9	7704.1	7488.3	7344.1	7423.8	7475.4
60°	9048.2	8848.8	8601.3	8325.7	8107.6	7961.0	8006.7	8052.4
62.5°	9540.7	9618.1	9408.2	9089.2	8808.9	8621.3	8665.8	8713.9
65°	9302.7	10096.6	10283.1	9960.6	9572.4	9280.4	9261.6	9286.2
67.5°	7775.7	9317.9	10442.6	10749.9	10425.0	10019.2	9944.2	9980.5
70°	5201.4	7122.4	9106.8	10584.5	10977.4	10820.3	10746.4	10768.7
72.5°	2498.1	4148.2	6178.3	8142.8	9339.0	9887.9	10063.8	10149.4
75°	913.6	1646.6	2977.7	4487.1	5417.2	6271.0	6828.0	7055.6
77.5°	551.2	665.0	951.1	1432.0	1622.0	1815.5	1740.4	1778.0
80°	408.1	460.9	521.9	586.4	607.5	607.5	584.1	565.3
82.5°	286.2	320.2	349.5	384.7	394.1	376.5	309.6	246.3
85°	184.1	199.4	212.3	234.6	228.7	218.1	146.6	130.2
87.5°	84.4	96.2	100.9	111.4	106.7	102.0	72.7	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)