

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: P193562

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193562  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21971 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

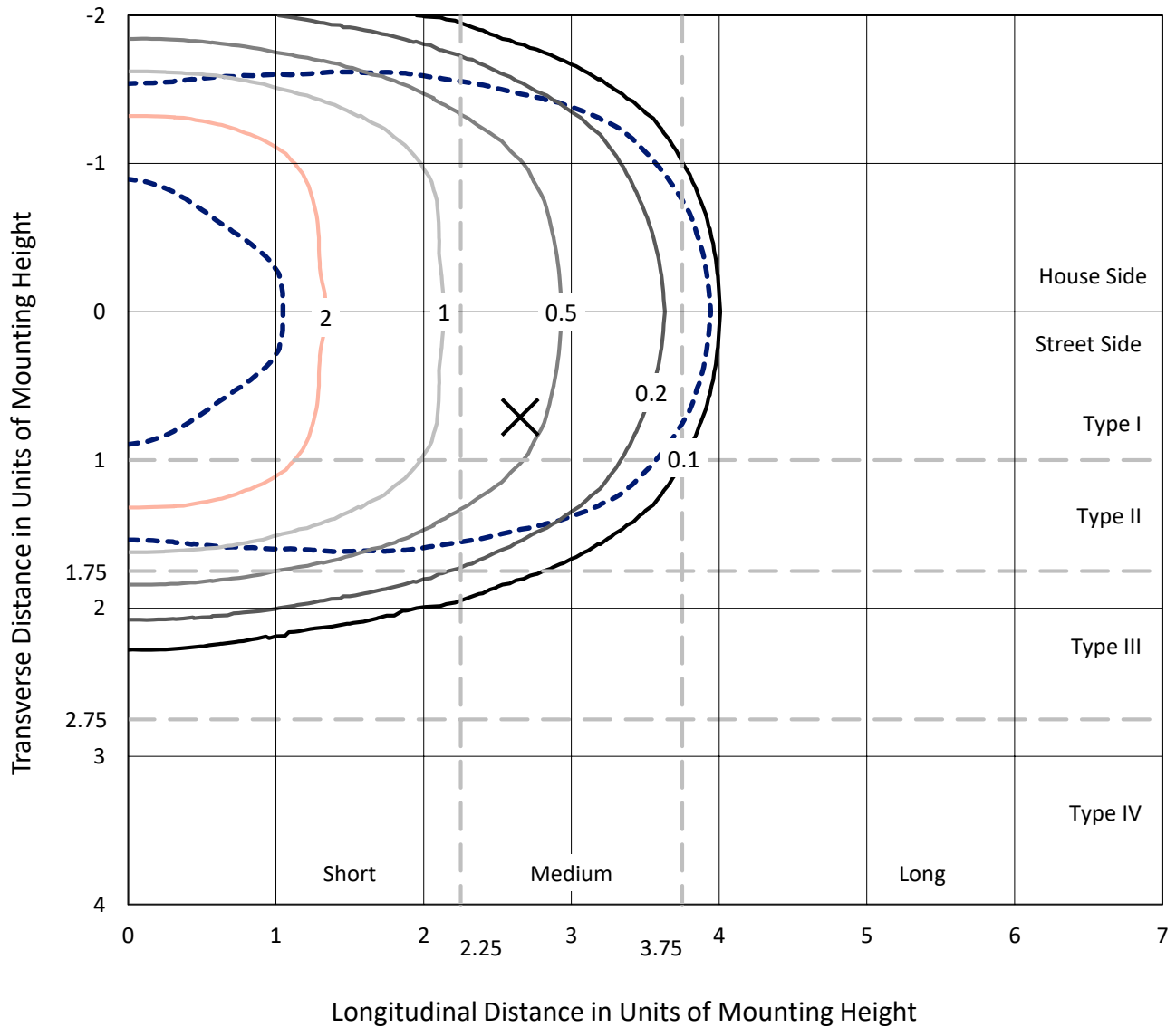


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

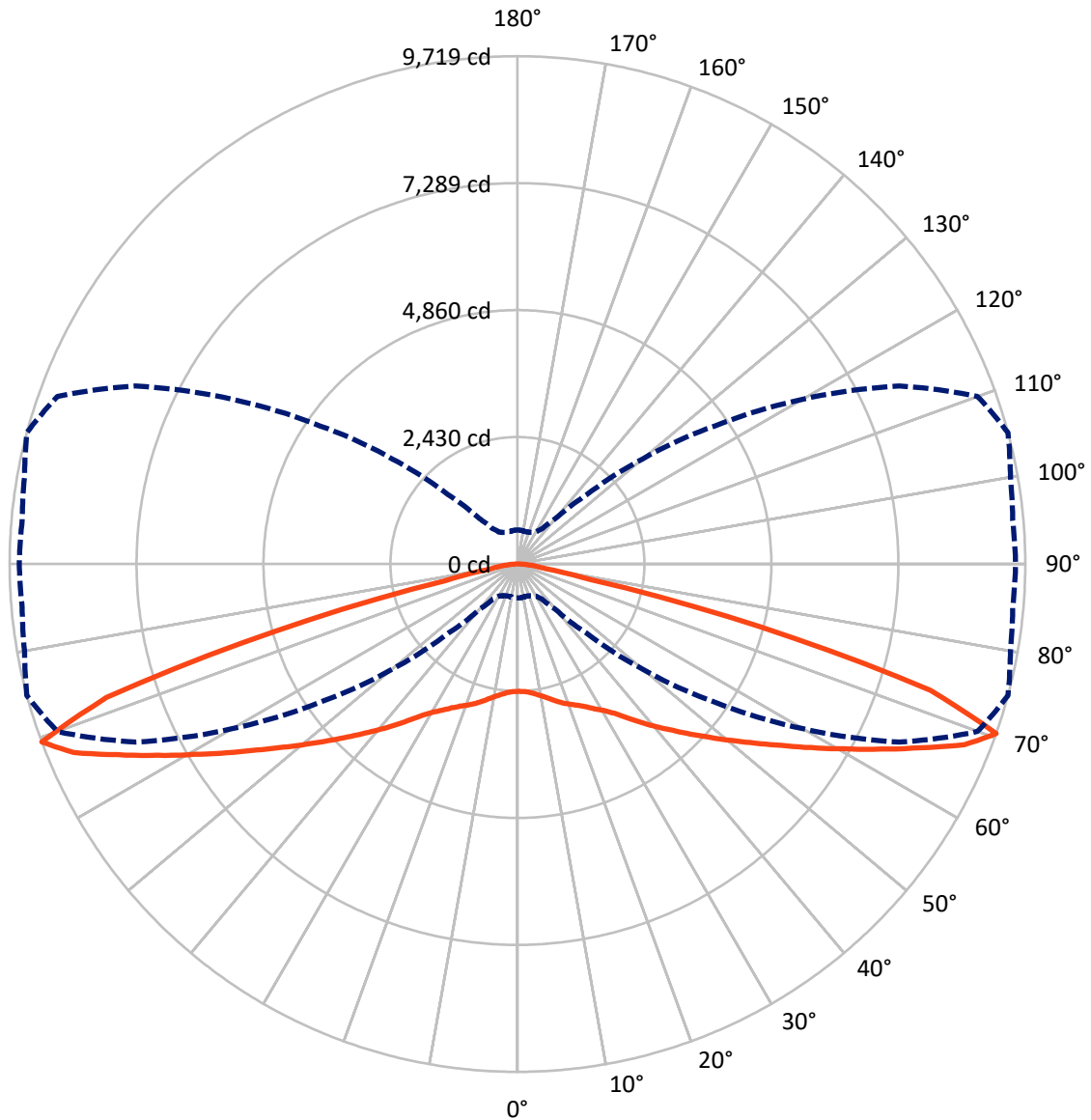


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Medium - Full Cutoff

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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
<b>House Side</b>	Lumens	10985.5	0.0	10985.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10985.5	0.0	10985.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21971.0	0.0	21971.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.7	1.1
10°-20°	726.3	3.3
20°-30°	1366.9	6.2
30°-40°	2420.6	11.0
40°-50°	4047.9	18.4
50°-60°	5640.8	25.7
60°-70°	5230.9	23.8
70°-80°	2084.7	9.5
80°-90°	219.1	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°	21971.0	100.0
0°-180°	21971.0	100.0



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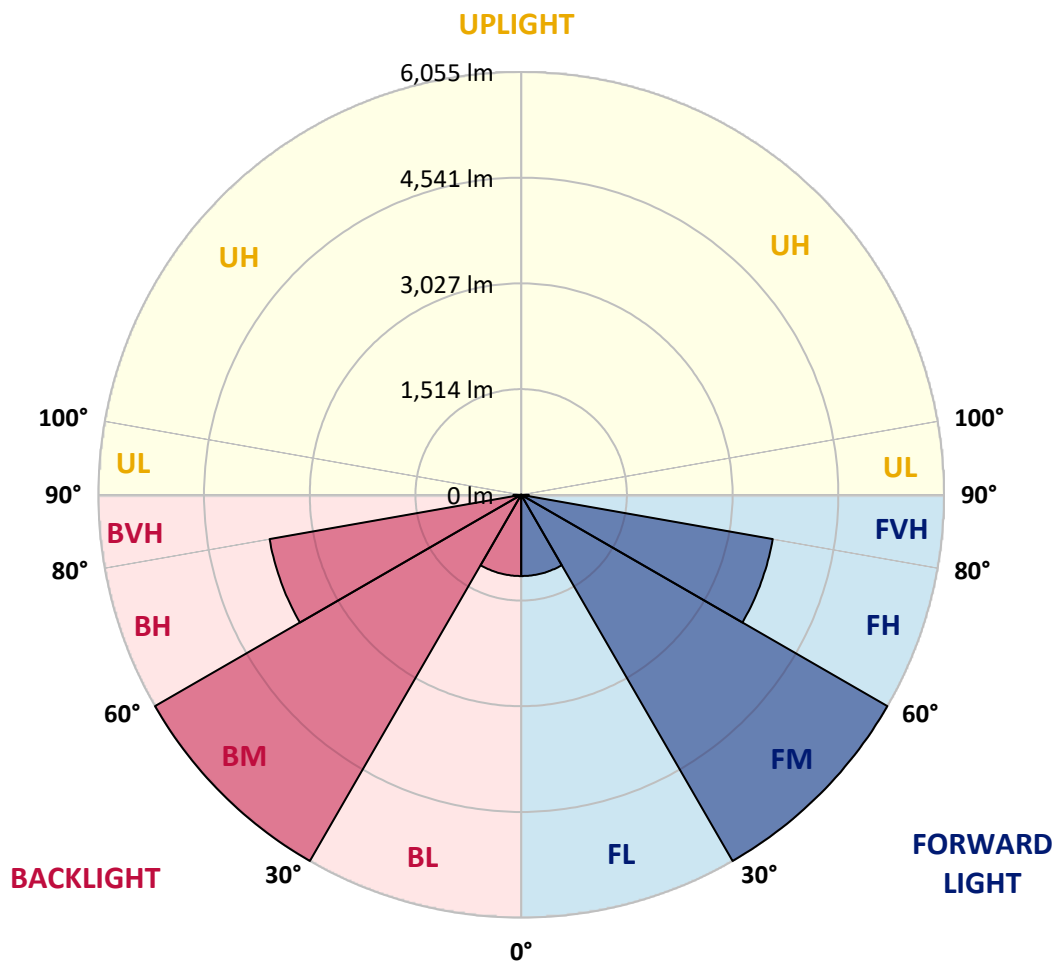
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.5	5.3			
FM	(30°-60°)	6054.7	27.6			
FH	(60°-80°)	3657.8	16.6			G2/5000
FVH	(80°-90°)	109.6	0.5			G2/225
BL	(0°-30°)	1163.5	5.3	B3/2500		
BM	(30°-60°)	6054.7	27.6	B4/8500		
BH	(60°-80°)	3657.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	109.6	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°	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1
2.5°	2432.9	2430.9	2432.9	2431.9	2434.0	2434.0	2436.1	2440.2	2440.2	2443.3	2442.3
5°	2409.1	2408.0	2411.1	2414.3	2417.4	2423.6	2429.8	2439.2	2446.4	2451.6	2456.8
7.5°	2362.3	2362.3	2366.5	2373.8	2381.0	2394.5	2409.1	2427.8	2446.4	2462.0	2475.5
10°	2323.9	2326.0	2331.2	2343.6	2356.1	2376.9	2396.6	2423.6	2449.6	2475.5	2496.3
12.5°	2301.1	2304.2	2313.5	2332.2	2353.0	2381.0	2411.1	2445.4	2474.5	2505.6	2526.4
15°	2308.3	2310.4	2323.9	2346.8	2373.8	2409.1	2449.6	2490.1	2524.3	2557.5	2585.6
17.5°	2348.8	2351.9	2367.5	2393.5	2421.5	2463.1	2506.7	2552.4	2594.9	2632.3	2666.6
20°	2421.5	2424.6	2444.4	2472.4	2505.6	2548.2	2591.8	2639.6	2687.3	2726.8	2765.2
22.5°	2524.3	2529.5	2548.2	2576.2	2613.6	2659.3	2711.2	2762.1	2807.8	2844.1	2878.4
25°	2659.3	2670.7	2688.4	2719.5	2759.0	2800.5	2856.6	2908.5	2952.1	2986.4	3011.3
27.5°	2850.4	2866.0	2879.4	2909.6	2948.0	2987.4	3043.5	3089.2	3130.7	3164.0	3182.7
30°	3103.7	3119.3	3132.8	3161.9	3197.2	3234.6	3287.5	3328.0	3354.0	3380.0	3378.9
32.5°	3411.1	3427.7	3432.9	3464.1	3500.4	3540.9	3588.7	3611.5	3632.3	3635.4	3616.7
35°	3754.8	3763.1	3783.9	3825.4	3867.0	3900.2	3945.9	3957.3	3957.3	3941.7	3900.2
37.5°	4131.7	4136.9	4166.0	4212.7	4255.3	4289.6	4320.7	4343.6	4332.2	4298.9	4229.4
40°	4545.0	4554.4	4595.9	4637.4	4685.2	4717.4	4750.6	4754.8	4743.4	4694.6	4600.1
42.5°	4939.6	4947.9	4989.5	5054.9	5117.2	5161.8	5193.0	5199.2	5162.9	5118.2	5000.9
45°	5279.2	5301.0	5355.0	5431.8	5522.1	5585.5	5628.1	5645.7	5613.5	5555.4	5419.3
47.5°	5548.1	5569.9	5646.8	5738.1	5850.3	5953.1	6023.7	6061.1	6052.8	6009.1	5860.7
50°	5745.4	5766.2	5849.2	5961.4	6092.2	6219.9	6340.4	6429.7	6460.8	6441.1	6305.1
52.5°	5768.2	5802.5	5900.1	6050.7	6221.0	6395.4	6566.8	6718.4	6821.2	6836.7	6736.0
55°	5449.5	5483.7	5618.7	5842.0	6095.3	6379.9	6654.0	6909.4	7111.9	7215.8	7162.8
57.5°	4697.7	4758.9	4901.2	5162.9	5535.6	5961.4	6398.5	6852.3	7264.6	7539.7	7592.7
60°	3600.1	3672.8	3816.1	4094.4	4509.7	5017.5	5601.1	6271.9	6999.8	7618.7	7988.3
62.5°	2309.4	2377.9	2528.5	2770.4	3108.9	3659.3	4285.4	5081.9	6060.0	7037.2	7917.7
65°	1186.9	1224.3	1303.2	1449.6	1713.3	2124.5	2686.3	3480.7	4599.0	5804.6	7077.7
67.5°	751.8	759.1	776.7	797.5	865.0	1007.2	1268.9	1764.2	2684.2	3941.7	5431.8
70°	650.0	650.0	641.7	638.6	646.9	666.6	707.1	822.4	1132.9	1871.2	3132.8
72.5°	595.0	588.8	574.2	562.8	560.7	560.7	569.0	586.7	636.5	762.2	1226.3
75°	548.3	530.6	510.9	497.4	492.2	487.0	486.0	489.1	499.5	519.2	585.7
77.5°	491.2	468.3	445.5	432.0	425.7	418.5	412.2	405.0	399.8	406.0	435.1
80°	422.6	396.7	379.0	370.7	364.5	354.1	340.6	328.1	316.7	314.6	332.3
82.5°	340.6	310.5	311.5	314.6	303.2	288.7	274.1	260.6	240.9	230.5	240.9
85°	275.2	259.6	252.3	272.1	255.4	233.6	210.8	186.9	155.8	130.8	142.3
87.5°	107.0	107.0	159.9	246.1	221.2	180.7	154.7	131.9	82.0	63.3	64.4
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°	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1	2437.1
2.5°	2441.2	2443.3	2442.3	2441.2	2441.2	2440.2	2441.2	2441.2
5°	2459.9	2465.1	2465.1	2467.2	2467.2	2468.2	2469.3	2468.2
7.5°	2488.0	2497.3	2503.6	2510.8	2511.9	2512.9	2515.0	2512.9
10°	2516.0	2534.7	2548.2	2561.7	2567.9	2570.0	2572.1	2572.1
12.5°	2551.3	2577.3	2601.2	2625.0	2636.5	2642.7	2642.7	2646.9
15°	2609.5	2635.4	2663.5	2695.7	2715.4	2725.8	2728.9	2728.9
17.5°	2691.5	2714.3	2738.2	2769.4	2794.3	2807.8	2810.9	2809.9
20°	2787.0	2808.8	2822.3	2842.1	2863.9	2879.4	2883.6	2883.6
22.5°	2896.1	2908.5	2910.6	2916.8	2934.5	2955.3	2964.6	2966.7
25°	3016.5	3019.6	3011.3	3011.3	3022.7	3042.5	3051.8	3052.9
27.5°	3172.3	3156.7	3135.9	3128.7	3135.9	3158.8	3170.2	3174.4
30°	3366.5	3329.1	3281.3	3255.3	3251.2	3281.3	3302.1	3305.2
32.5°	3588.7	3534.7	3471.3	3418.4	3404.9	3423.6	3448.5	3447.4
35°	3852.4	3788.0	3711.2	3643.7	3612.6	3631.2	3666.5	3670.7
37.5°	4156.7	4072.6	3984.3	3899.1	3850.3	3855.5	3892.9	3905.4
40°	4496.2	4387.2	4276.1	4161.9	4092.3	4078.8	4124.5	4131.7
42.5°	4859.7	4719.5	4579.3	4438.1	4348.8	4328.0	4381.0	4377.8
45°	5247.0	5068.4	4904.3	4748.5	4642.6	4611.5	4655.1	4655.1
47.5°	5663.4	5443.2	5248.0	5071.5	4956.2	4911.6	4953.1	4956.2
50°	6104.7	5871.0	5641.6	5445.3	5307.2	5250.1	5304.1	5312.4
52.5°	6543.9	6316.5	6085.0	5860.7	5693.5	5623.9	5686.2	5713.2
55°	6989.4	6766.1	6545.0	6325.9	6127.5	6045.5	6111.9	6146.2
57.5°	7459.8	7253.1	7042.3	6821.2	6630.1	6502.4	6573.0	6618.7
60°	8011.2	7834.6	7615.5	7371.5	7178.4	7048.6	7089.1	7129.6
62.5°	8447.3	8515.8	8329.9	8047.5	7799.3	7633.2	7672.6	7715.2
65°	8236.5	8939.5	9104.6	8819.0	8475.3	8216.8	8200.1	8222.0
67.5°	6884.5	8250.0	9245.8	9517.9	9230.2	8870.9	8804.5	8836.7
70°	4605.2	6306.1	8063.1	9371.4	9719.3	9580.2	9514.7	9534.5
72.5°	2211.8	3672.8	5470.2	7209.5	8268.7	8754.6	8910.4	8986.2
75°	808.9	1457.9	2636.5	3972.9	4796.3	5552.3	6045.5	6246.9
77.5°	488.0	588.8	842.1	1267.9	1436.1	1607.4	1541.0	1574.2
80°	361.4	408.1	462.1	519.2	537.9	537.9	517.1	500.5
82.5°	253.4	283.5	309.4	340.6	348.9	333.3	274.1	218.1
85°	163.0	176.5	187.9	207.7	202.5	193.1	129.8	115.3
87.5°	74.8	85.1	89.3	98.6	94.5	90.3	64.4	54.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)