

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: P190794

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190794
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-06-LED-E1-5MQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 25206.5 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

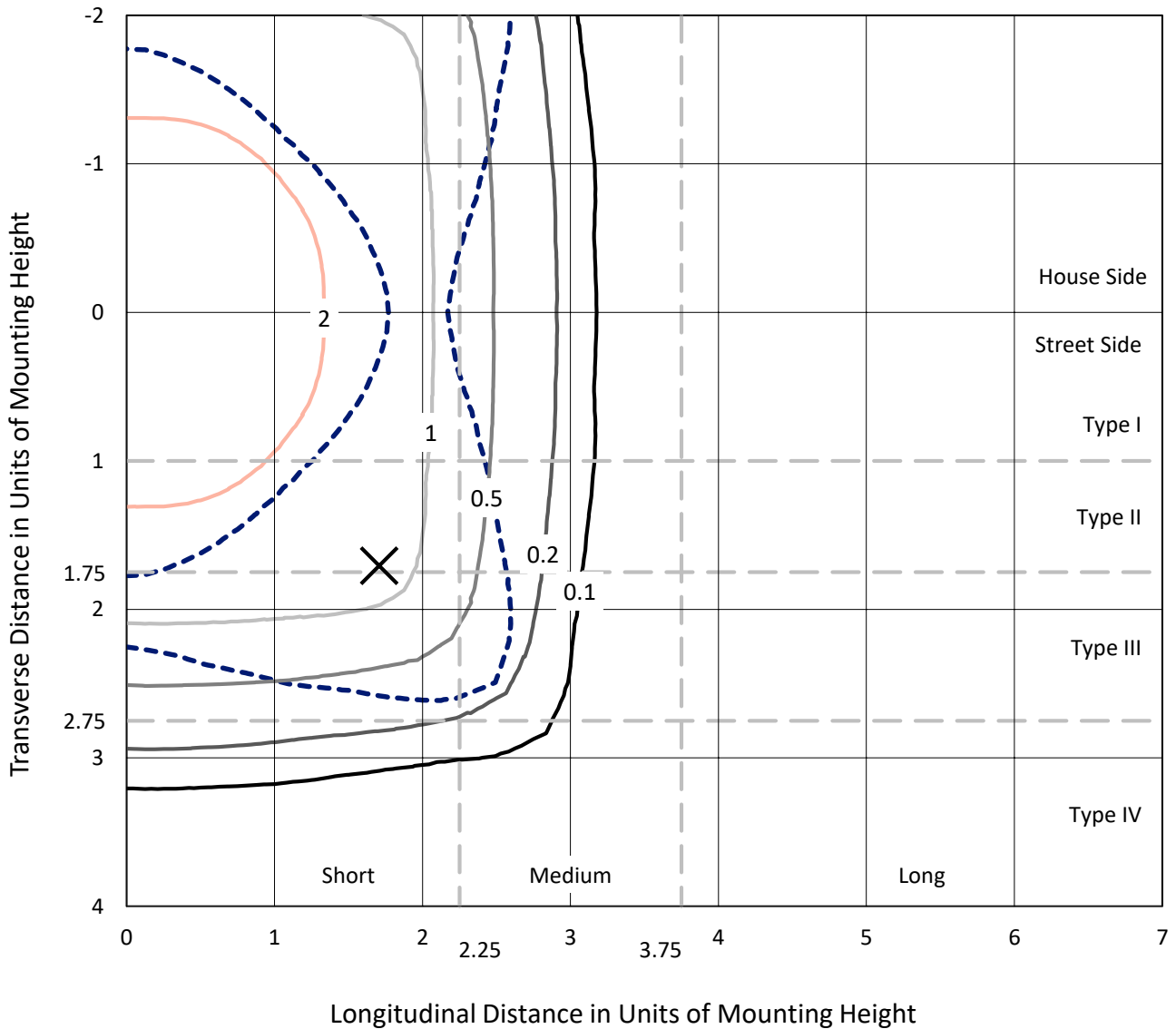
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

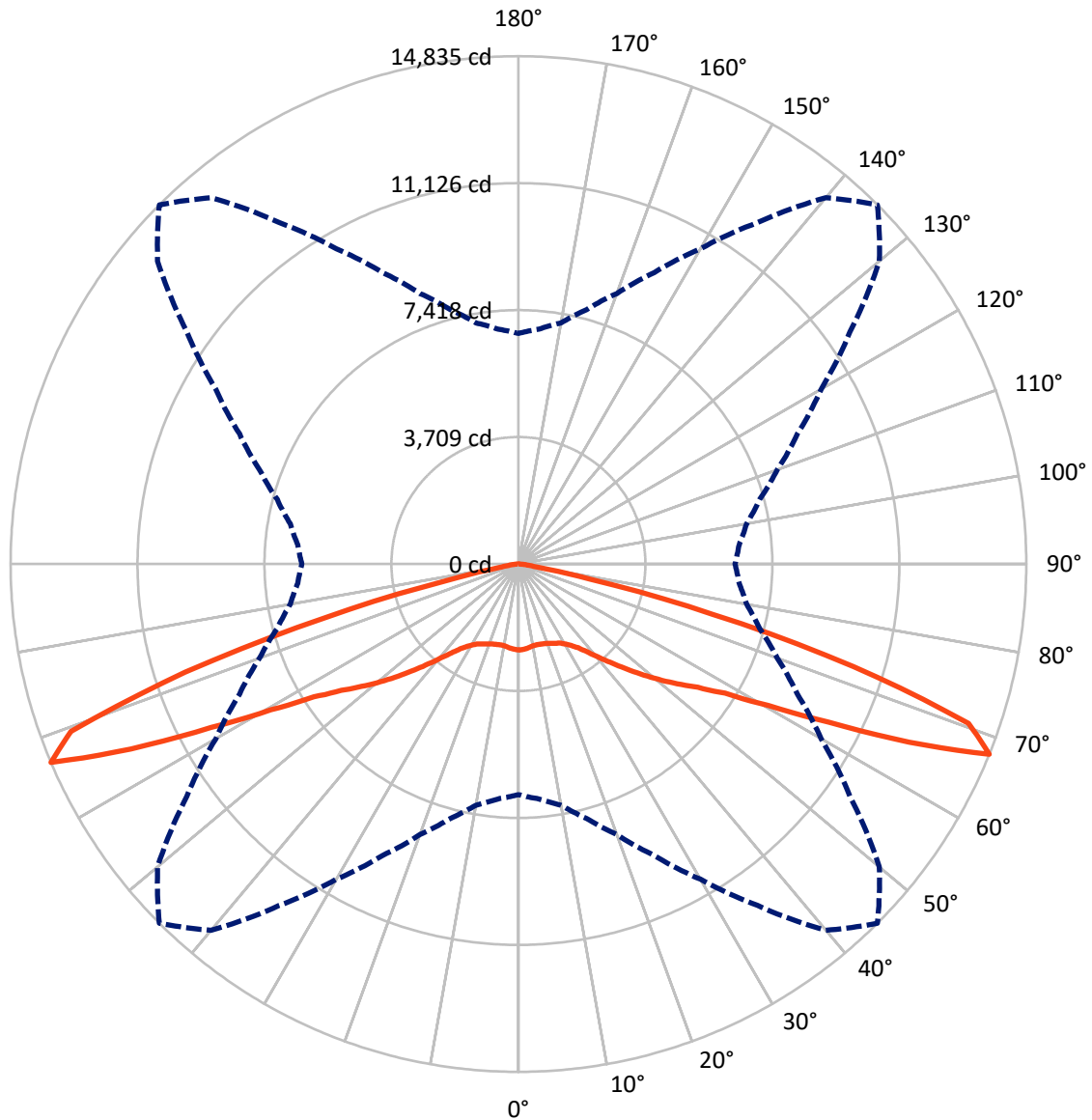
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	12603.3	0.0	12603.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12603.3	0.0	12603.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	25206.5	0.0	25206.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	0.9
10°-20°	682.2	2.7
20°-30°	1159.8	4.6
30°-40°	1895.9	7.5
40°-50°	3384.5	13.4
50°-60°	5706.4	22.6
60°-70°	8855.4	35.1
70°-80°	3111.4	12.3
80°-90°	175.8	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°	25206.5	100.0
0°-180°	25206.5	100.0



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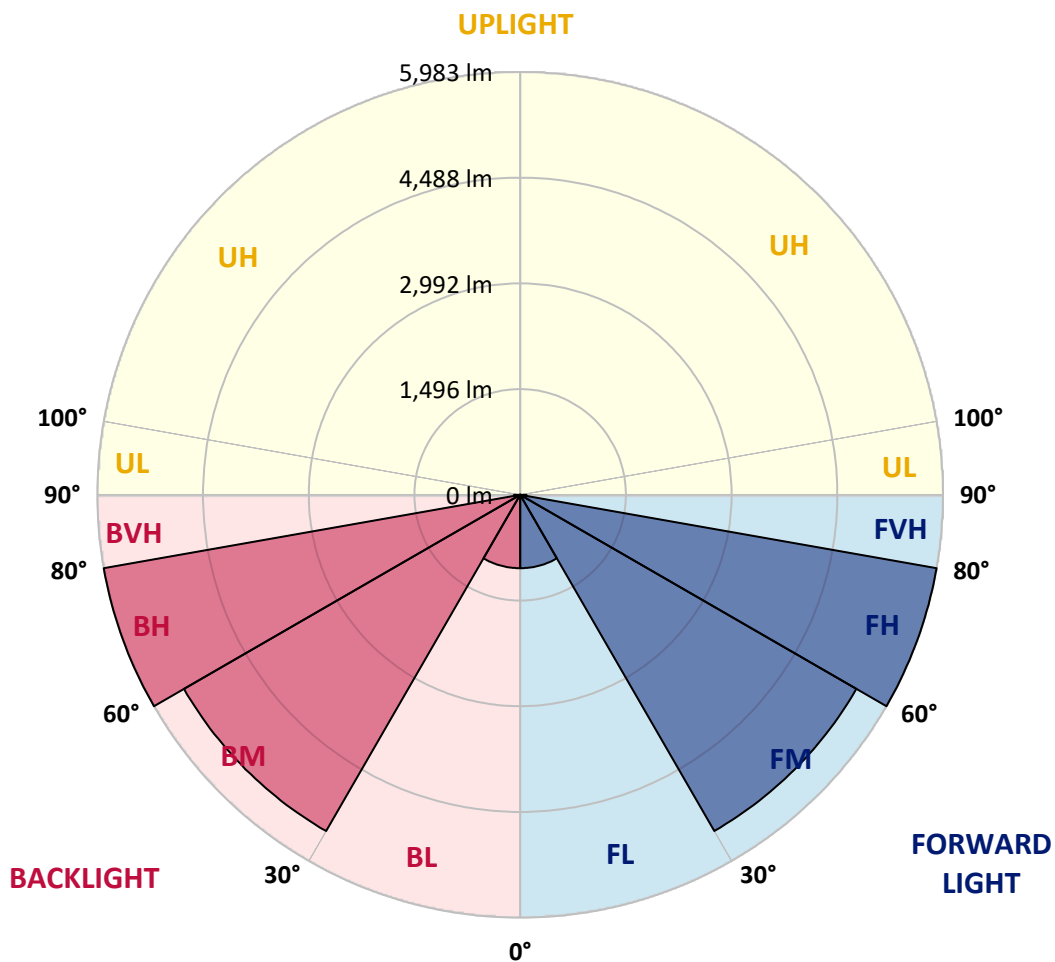
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.6	4.1			
FM (30°-60°)	5493.4	21.8			
FH (60°-80°)	5983.4	23.7			G3/7500
FVH (80°-90°)	87.9	0.3			G1/100
BL (0°-30°)	1038.6	4.1	B3/2500		
BM (30°-60°)	5493.4	21.8	B4/8500		
BH (60°-80°)	5983.4	23.7	B5		G3/7500
BVH (80°-90°)	87.9	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°	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2502.6	2505.0	2505.0	2505.0	2503.8	2503.8	2501.5	2503.8	2502.6	2499.2	2500.3
5°	2481.8	2484.1	2484.1	2483.0	2486.4	2485.3	2481.8	2484.1	2483.0	2480.7	2481.8
7.5°	2451.7	2455.2	2455.2	2454.0	2457.4	2456.3	2454.0	2455.2	2455.2	2451.7	2451.7
10°	2418.1	2420.4	2420.4	2419.2	2425.0	2425.0	2423.9	2427.4	2428.5	2425.0	2422.7
12.5°	2386.7	2390.2	2390.2	2394.8	2400.7	2403.0	2408.7	2413.4	2418.1	2416.9	2412.2
15°	2368.2	2370.5	2375.2	2380.9	2390.2	2398.3	2407.6	2418.1	2427.4	2429.6	2422.7
17.5°	2356.6	2360.0	2367.0	2375.2	2387.9	2401.8	2415.7	2429.6	2442.4	2447.0	2438.9
20°	2353.1	2355.4	2362.4	2376.3	2393.7	2414.6	2434.3	2450.5	2467.9	2473.7	2467.9
22.5°	2360.0	2364.8	2372.8	2389.1	2412.2	2438.9	2462.1	2484.1	2506.1	2516.6	2508.5
25°	2391.4	2396.1	2406.5	2427.4	2452.8	2480.7	2507.3	2532.8	2552.5	2562.9	2557.2
27.5°	2449.4	2455.2	2467.9	2488.7	2516.6	2546.7	2575.7	2596.6	2612.8	2616.3	2609.3
30°	2536.3	2549.0	2564.1	2587.2	2619.8	2645.2	2674.2	2692.8	2712.5	2712.5	2706.7
32.5°	2671.9	2684.6	2700.9	2722.9	2748.4	2776.2	2801.8	2817.9	2838.8	2840.0	2826.1
35°	2874.8	2880.5	2894.4	2908.4	2931.6	2955.9	2977.9	2988.3	3005.7	3006.9	2994.2
37.5°	3142.5	3143.7	3152.9	3157.6	3178.5	3205.1	3226.0	3232.9	3249.2	3246.8	3234.1
40°	3454.3	3460.1	3463.6	3470.6	3492.6	3518.1	3540.1	3543.6	3561.0	3557.5	3541.3
42.5°	3814.9	3817.1	3836.9	3847.3	3868.2	3881.0	3908.7	3912.2	3933.0	3923.8	3905.3
45°	4219.4	4240.2	4258.9	4279.7	4301.7	4316.8	4338.8	4334.1	4348.1	4334.1	4323.7
47.5°	4644.8	4659.8	4701.6	4734.1	4770.0	4782.8	4814.1	4800.2	4814.1	4794.4	4790.9
50°	5113.1	5139.8	5175.7	5212.9	5251.1	5272.0	5312.5	5295.1	5313.7	5295.1	5284.7
52.5°	5574.5	5581.4	5660.3	5714.7	5768.1	5792.5	5816.7	5808.6	5809.7	5808.6	5798.2
55°	6012.7	6028.9	6107.7	6181.9	6274.6	6343.0	6384.7	6380.1	6369.7	6359.3	6341.9
57.5°	6506.5	6522.6	6613.1	6704.7	6810.2	6907.6	6992.2	7079.1	7112.7	7122.0	7083.7
60°	7174.2	7173.0	7293.5	7404.8	7555.5	7700.4	7885.9	8074.9	8291.6	8392.5	8259.1
62.5°	7853.4	7881.2	8055.1	8252.1	8562.8	8865.4	9207.4	9543.5	9886.6	10166.0	9869.2
65°	7772.3	7879.0	8137.5	8583.7	9157.5	9839.0	10576.3	11356.5	12061.2	12545.8	12002.1
67.5°	6736.0	6887.8	7150.9	7693.4	8411.0	9394.0	10631.9	12174.9	13968.1	14835.1	13760.6
70°	4882.4	5054.0	5329.9	5859.7	6570.2	7504.5	8849.1	10701.5	13075.6	13949.6	12766.0
72.5°	2429.6	2522.4	2692.8	3030.1	3568.0	4326.1	5545.5	7326.0	9426.4	10228.6	9147.0
75°	825.3	868.2	897.2	1007.3	1177.7	1475.6	2081.9	3202.8	4885.9	5857.3	4816.4
77.5°	476.4	477.6	497.3	517.0	545.9	578.5	659.6	865.9	1497.7	2127.1	1549.8
80°	308.3	307.2	323.5	338.5	358.1	374.4	379.0	401.1	462.5	548.3	490.3
82.5°	160.0	179.6	215.6	235.3	272.4	279.4	270.1	262.0	277.0	287.4	294.4
85°	88.1	76.5	114.8	148.3	164.6	166.9	166.9	157.6	163.5	160.0	173.9
87.5°	40.6	37.1	45.2	73.0	77.6	66.1	69.6	61.5	44.1	42.9	48.7
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°	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2500.3	2501.5	2501.5	2505.0	2506.1	2508.5	2510.7	2512.0
5°	2480.7	2484.1	2481.8	2485.3	2485.3	2487.6	2487.6	2488.7
7.5°	2451.7	2455.2	2455.2	2455.2	2454.0	2457.4	2457.4	2457.4
10°	2421.5	2423.9	2422.7	2420.4	2418.1	2421.5	2420.4	2419.2
12.5°	2412.2	2406.5	2401.8	2399.5	2394.8	2396.1	2392.6	2392.6
15°	2418.1	2407.6	2399.5	2396.1	2391.4	2389.1	2386.7	2387.9
17.5°	2433.1	2420.4	2410.0	2404.1	2398.3	2394.8	2390.2	2391.4
20°	2459.8	2444.8	2429.6	2418.1	2407.6	2401.8	2398.3	2397.2
22.5°	2499.2	2477.2	2455.2	2437.8	2423.9	2415.7	2412.2	2410.0
25°	2544.4	2520.0	2494.6	2474.8	2460.9	2450.5	2443.5	2443.5
27.5°	2601.2	2581.5	2558.3	2535.1	2522.4	2512.0	2507.3	2505.0
30°	2696.3	2677.7	2659.2	2637.2	2620.9	2610.5	2602.4	2595.4
32.5°	2817.9	2802.9	2787.8	2771.6	2756.5	2742.6	2729.8	2724.0
35°	2989.5	2977.9	2967.5	2949.0	2943.1	2935.1	2928.1	2922.3
37.5°	3226.0	3221.4	3221.4	3201.6	3197.0	3193.6	3186.6	3187.7
40°	3536.6	3541.3	3535.5	3528.6	3525.1	3515.8	3515.8	3523.9
42.5°	3904.1	3907.6	3920.4	3908.7	3921.5	3909.9	3903.0	3908.7
45°	4330.7	4343.4	4368.9	4357.4	4365.4	4345.8	4321.5	4322.6
47.5°	4809.4	4821.1	4831.5	4823.3	4824.5	4792.0	4759.6	4751.5
50°	5306.8	5311.4	5317.2	5305.5	5307.9	5272.0	5234.8	5236.0
52.5°	5798.2	5820.2	5843.4	5812.1	5805.1	5764.6	5712.5	5691.6
55°	6360.4	6391.7	6365.0	6310.6	6256.1	6201.6	6133.2	6121.6
57.5°	7053.6	7000.3	6916.8	6813.7	6738.3	6661.8	6592.2	6563.3
60°	8018.0	7817.5	7666.8	7513.8	7417.6	7323.7	7232.1	7218.2
62.5°	9381.2	9034.6	8734.4	8418.0	8159.5	7957.7	7796.6	7751.4
65°	11089.8	10270.3	9559.8	8896.7	8320.6	7885.9	7612.3	7491.8
67.5°	11824.8	10206.6	8988.3	8047.0	7293.5	6767.2	6471.7	6324.5
70°	10390.8	8464.3	7139.4	6196.9	5510.7	4949.6	4681.9	4524.3
72.5°	7148.7	5384.4	4257.6	3475.2	2927.0	2457.4	2272.0	2258.1
75°	3209.7	2125.9	1465.2	1129.0	950.5	826.5	788.3	759.2
77.5°	898.4	664.2	592.3	554.1	517.0	474.1	457.9	461.4
80°	437.0	412.7	396.4	372.0	338.5	302.6	286.3	293.3
82.5°	289.8	286.3	296.8	279.4	230.7	195.9	164.6	150.7
85°	176.2	178.5	182.0	183.1	155.3	108.9	74.2	83.5
87.5°	69.6	80.0	87.0	90.4	84.6	52.2	41.7	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)