

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: P191594

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191594
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 24641 lumens
Efficiency: N/A
Efficacy: 127.7 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

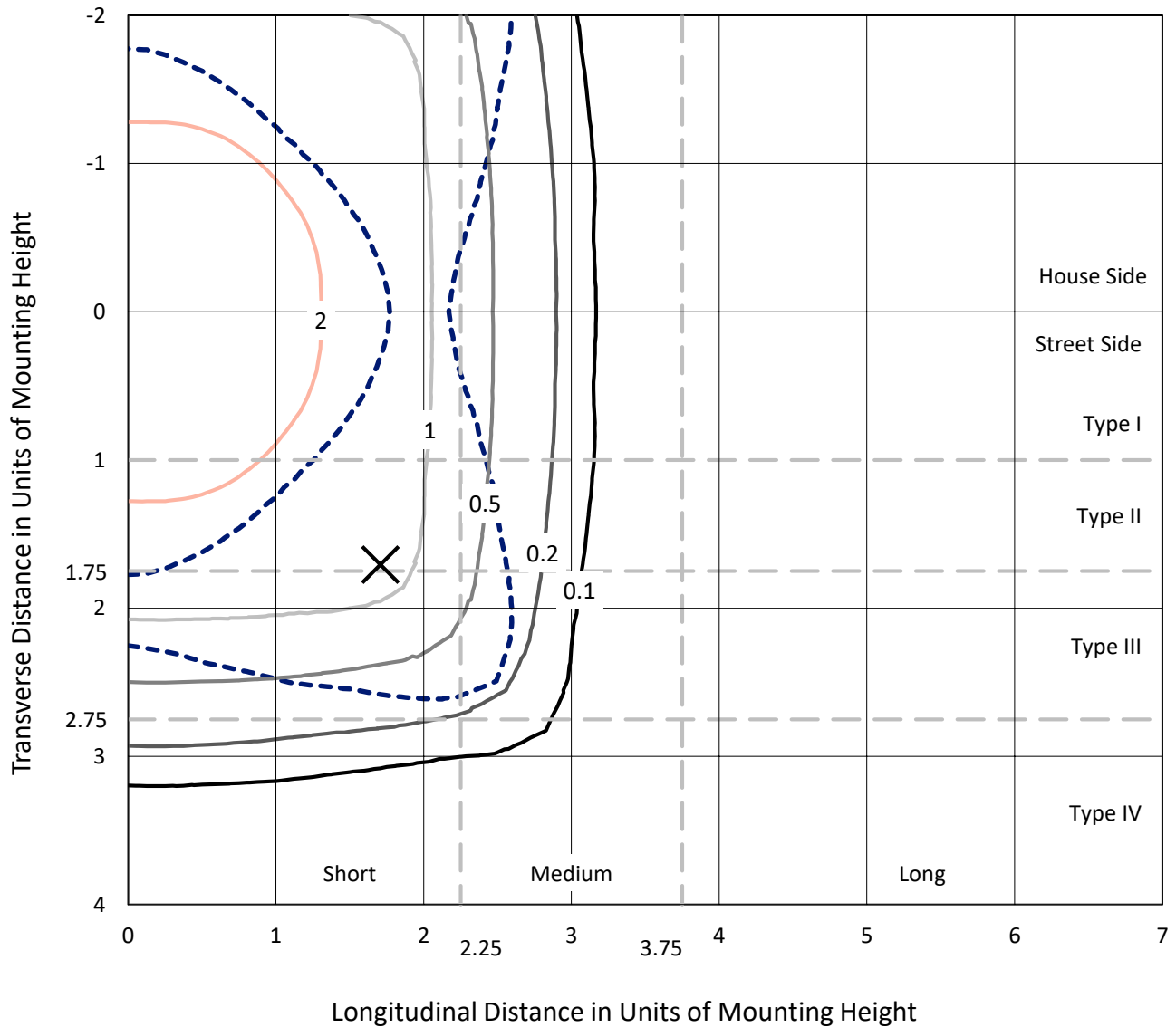


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

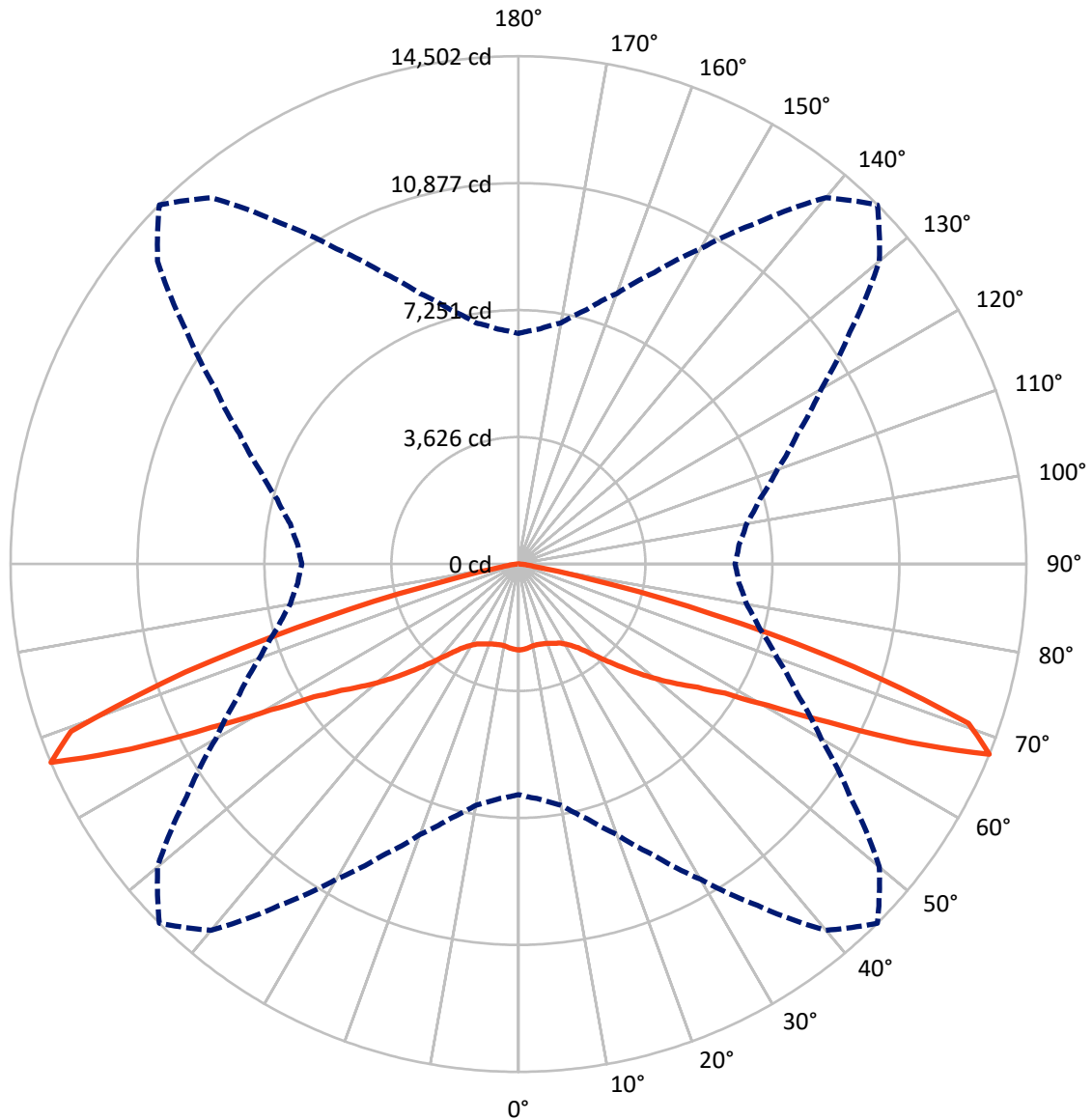


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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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	12320.5	0.0	12320.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12320.5	0.0	12320.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24641.0	0.0	24641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	0.9
10°-20°	666.9	2.7
20°-30°	1133.8	4.6
30°-40°	1853.3	7.5
40°-50°	3308.6	13.4
50°-60°	5578.3	22.6
60°-70°	8656.7	35.1
70°-80°	3041.6	12.3
80°-90°	171.9	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°	24641.0	100.0
0°-180°	24641.0	100.0



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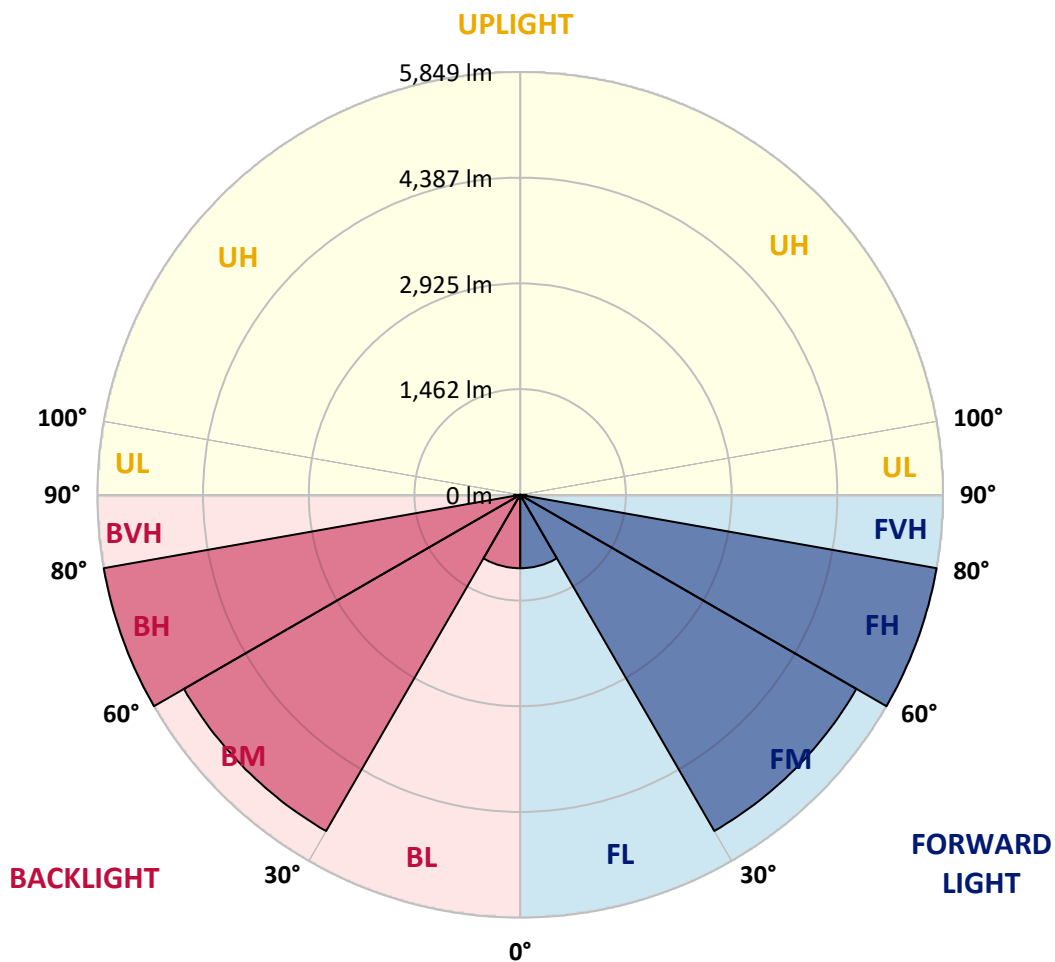
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.3	4.1			
FM	(30°-60°)	5370.1	21.8			
FH	(60°-80°)	5849.2	23.7			G3/7500
FVH	(80°-90°)	85.9	0.3			G1/100
BL	(0°-30°)	1015.3	4.1	B3/2500		
BM	(30°-60°)	5370.1	21.8	B4/8500		
BH	(60°-80°)	5849.2	23.7	B5		G3/7500
BVH	(80°-90°)	85.9	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°	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6
2.5°	2446.5	2448.8	2448.8	2448.8	2447.6	2447.6	2445.4	2447.6	2446.5	2443.1	2444.2
5°	2426.1	2428.4	2428.4	2427.3	2430.6	2429.5	2426.1	2428.4	2427.3	2425.0	2426.1
7.5°	2396.7	2400.1	2400.1	2398.9	2402.3	2401.2	2398.9	2400.1	2400.1	2396.7	2396.7
10°	2363.8	2366.1	2366.1	2364.9	2370.6	2370.6	2369.5	2372.9	2374.0	2370.6	2368.3
12.5°	2333.2	2336.6	2336.6	2341.1	2346.8	2349.1	2354.7	2359.3	2363.8	2362.7	2358.1
15°	2315.1	2317.3	2321.9	2327.5	2336.6	2344.5	2353.6	2363.8	2372.9	2375.1	2368.3
17.5°	2303.7	2307.1	2313.9	2321.9	2334.3	2347.9	2361.5	2375.1	2387.6	2392.1	2384.2
20°	2300.3	2302.6	2309.4	2323.0	2340.0	2360.4	2379.7	2395.5	2412.5	2418.2	2412.5
22.5°	2307.1	2311.7	2319.6	2335.5	2358.1	2384.2	2406.9	2428.4	2449.9	2460.1	2452.2
25°	2337.7	2342.3	2352.5	2372.9	2397.8	2425.0	2451.0	2476.0	2495.2	2505.4	2499.8
27.5°	2394.4	2400.1	2412.5	2432.9	2460.1	2489.6	2517.9	2538.3	2554.2	2557.6	2550.8
30°	2479.4	2491.8	2506.6	2529.2	2561.0	2585.9	2614.2	2632.4	2651.6	2651.6	2646.0
32.5°	2612.0	2624.4	2640.3	2661.8	2686.7	2713.9	2738.9	2754.7	2775.1	2776.3	2762.7
35°	2810.3	2815.9	2829.5	2843.1	2865.8	2889.6	2911.1	2921.3	2938.3	2939.4	2927.0
37.5°	3072.0	3073.2	3082.2	3086.8	3107.2	3133.2	3153.6	3160.4	3176.3	3174.0	3161.5
40°	3376.8	3382.5	3385.9	3392.7	3414.2	3439.2	3460.7	3464.1	3481.1	3477.7	3461.8
42.5°	3729.3	3731.5	3750.8	3761.0	3781.4	3793.9	3821.0	3824.4	3844.8	3835.8	3817.7
45°	4124.7	4145.1	4163.3	4183.7	4205.2	4219.9	4241.5	4236.9	4250.5	4236.9	4226.7
47.5°	4540.6	4555.3	4596.1	4627.9	4663.0	4675.5	4706.1	4692.5	4706.1	4686.8	4683.4
50°	4998.4	5024.5	5059.6	5095.9	5133.3	5153.7	5193.3	5176.3	5194.5	5176.3	5166.1
52.5°	5449.4	5456.2	5533.3	5586.5	5638.7	5662.5	5686.2	5678.3	5679.4	5678.3	5668.1
55°	5877.8	5893.6	5970.7	6043.2	6133.8	6200.7	6241.5	6237.0	6226.8	6216.6	6199.6
57.5°	6360.5	6376.3	6464.7	6554.3	6657.4	6752.6	6835.3	6920.3	6953.1	6962.2	6924.8
60°	7013.2	7012.1	7129.9	7238.7	7386.0	7527.6	7709.0	7893.7	8105.6	8204.2	8073.8
62.5°	7677.2	7704.4	7874.4	8067.0	8370.7	8666.5	9000.8	9329.4	9664.8	9937.9	9647.8
65°	7597.9	7702.2	7954.9	8391.1	8952.0	9618.3	10339.0	11101.7	11790.6	12264.3	11732.8
67.5°	6584.9	6733.3	6990.5	7520.8	8222.3	9183.2	10393.4	11901.7	13654.7	14502.3	13451.9
70°	4772.9	4940.6	5210.3	5728.2	6422.8	7336.1	8650.6	10461.4	12782.2	13636.6	12479.6
72.5°	2375.1	2465.8	2632.4	2962.1	3487.9	4229.0	5421.1	7161.6	9214.9	9999.1	8941.8
75°	806.8	848.7	877.1	984.7	1151.3	1442.5	2035.2	3130.9	4776.3	5725.9	4708.3
77.5°	465.7	466.9	486.1	505.4	533.7	565.5	644.8	846.5	1464.1	2079.4	1515.0
80°	301.4	300.3	316.2	330.9	350.1	366.0	370.5	392.1	452.1	536.0	479.3
82.5°	156.4	175.6	210.8	230.0	266.3	273.1	264.0	256.1	270.8	281.0	287.8
85°	86.1	74.8	112.2	145.0	160.9	163.2	163.2	154.1	159.8	156.4	170.0
87.5°	39.7	36.3	44.2	71.4	75.9	64.6	68.0	60.1	43.1	41.9	47.6
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°	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6
2.5°	2444.2	2445.4	2445.4	2448.8	2449.9	2452.2	2454.4	2455.6
5°	2425.0	2428.4	2426.1	2429.5	2429.5	2431.8	2431.8	2432.9
7.5°	2396.7	2400.1	2400.1	2400.1	2398.9	2402.3	2402.3	2402.3
10°	2367.2	2369.5	2368.3	2366.1	2363.8	2367.2	2366.1	2364.9
12.5°	2358.1	2352.5	2347.9	2345.7	2341.1	2342.3	2338.9	2338.9
15°	2363.8	2353.6	2345.7	2342.3	2337.7	2335.5	2333.2	2334.3
17.5°	2378.5	2366.1	2355.9	2350.2	2344.5	2341.1	2336.6	2337.7
20°	2404.6	2389.9	2375.1	2363.8	2353.6	2347.9	2344.5	2343.4
22.5°	2443.1	2421.6	2400.1	2383.1	2369.5	2361.5	2358.1	2355.9
25°	2487.3	2463.5	2438.6	2419.3	2405.7	2395.5	2388.7	2388.7
27.5°	2542.8	2523.6	2500.9	2478.2	2465.8	2455.6	2451.0	2448.8
30°	2635.8	2617.6	2599.5	2578.0	2562.1	2551.9	2544.0	2537.2
32.5°	2754.7	2740.0	2725.3	2709.4	2694.7	2681.1	2668.6	2662.9
35°	2922.4	2911.1	2900.9	2882.8	2877.1	2869.2	2862.4	2856.7
37.5°	3153.6	3149.1	3149.1	3129.8	3125.3	3121.9	3115.1	3116.2
40°	3457.3	3461.8	3456.2	3449.4	3446.0	3436.9	3436.9	3444.8
42.5°	3816.5	3819.9	3832.4	3821.0	3833.5	3822.2	3815.4	3821.0
45°	4233.5	4246.0	4270.9	4259.6	4267.5	4248.3	4224.5	4225.6
47.5°	4701.5	4712.9	4723.1	4715.1	4716.3	4684.5	4652.8	4644.9
50°	5187.7	5192.2	5197.9	5186.5	5188.8	5153.7	5117.4	5118.5
52.5°	5668.1	5689.6	5712.3	5681.7	5674.9	5635.3	5584.3	5563.9
55°	6217.7	6248.3	6222.2	6169.0	6115.7	6062.5	5995.6	5984.3
57.5°	6895.3	6843.2	6761.6	6660.8	6587.1	6512.3	6444.3	6416.0
60°	7838.1	7642.1	7494.8	7345.2	7251.2	7159.4	7069.8	7056.3
62.5°	9170.7	8831.9	8538.4	8229.1	7976.4	7779.2	7621.7	7577.5
65°	10841.0	10039.9	9345.3	8697.1	8133.9	7709.0	7441.5	7323.7
67.5°	11559.5	9977.6	8786.6	7866.5	7129.9	6615.4	6326.5	6182.6
70°	10157.7	8274.4	6979.2	6057.9	5387.1	4838.6	4576.9	4422.8
72.5°	6988.3	5263.6	4162.1	3397.2	2861.3	2402.3	2221.0	2207.4
75°	3137.7	2078.2	1432.3	1103.7	929.2	808.0	770.6	742.2
77.5°	878.2	649.3	579.0	541.7	505.4	463.5	447.6	451.0
80°	427.2	403.4	387.5	363.7	330.9	295.8	279.9	286.7
82.5°	283.3	279.9	290.1	273.1	225.5	191.5	160.9	147.3
85°	172.2	174.5	177.9	179.0	151.8	106.5	72.5	81.6
87.5°	68.0	78.2	85.0	88.4	82.7	51.0	40.8	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)