

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: P269204

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269204  
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-04-LED-E1-5MQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24040.4 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

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

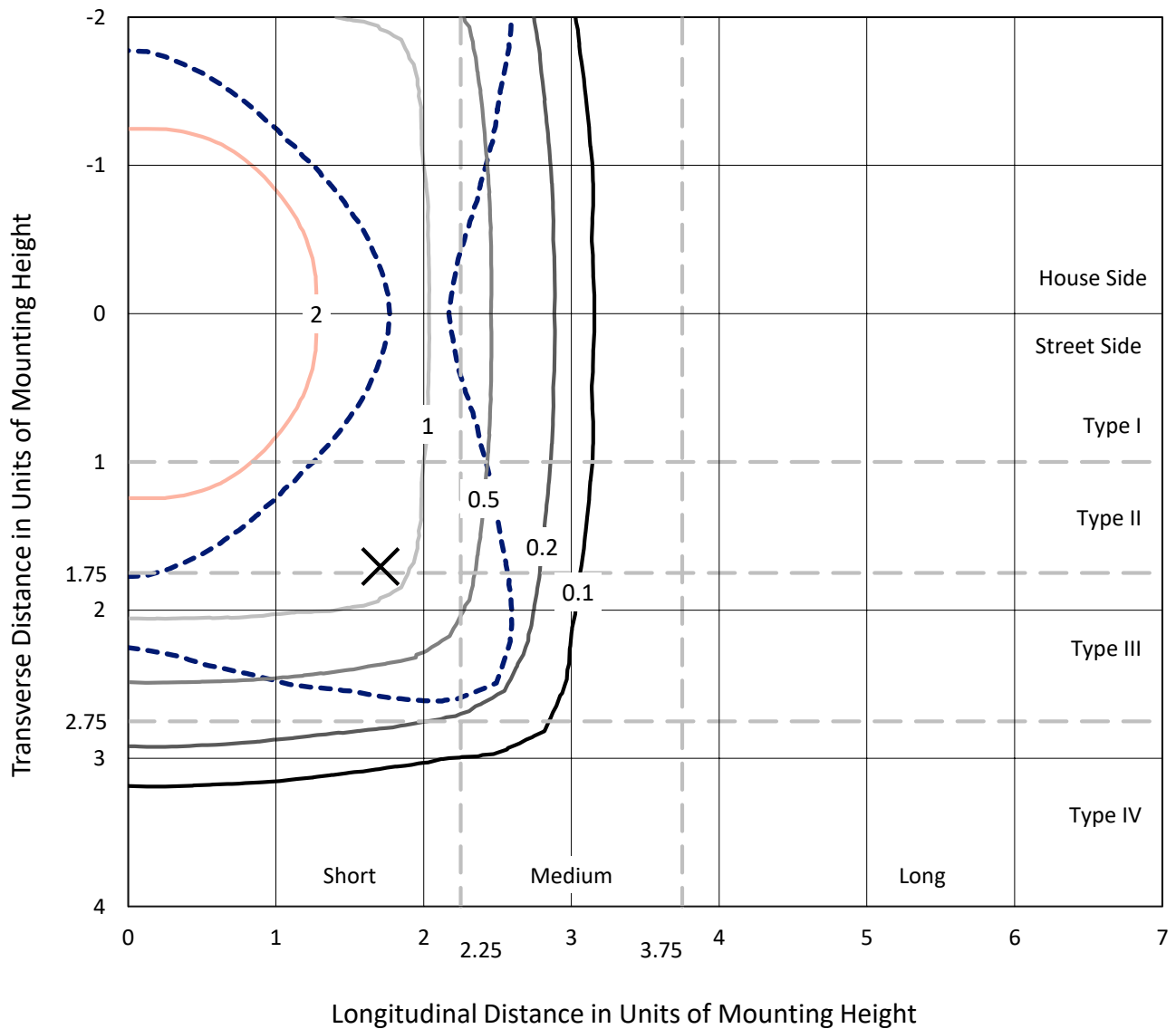


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### Iso-Footcandle Lines of Horizontal Illumination

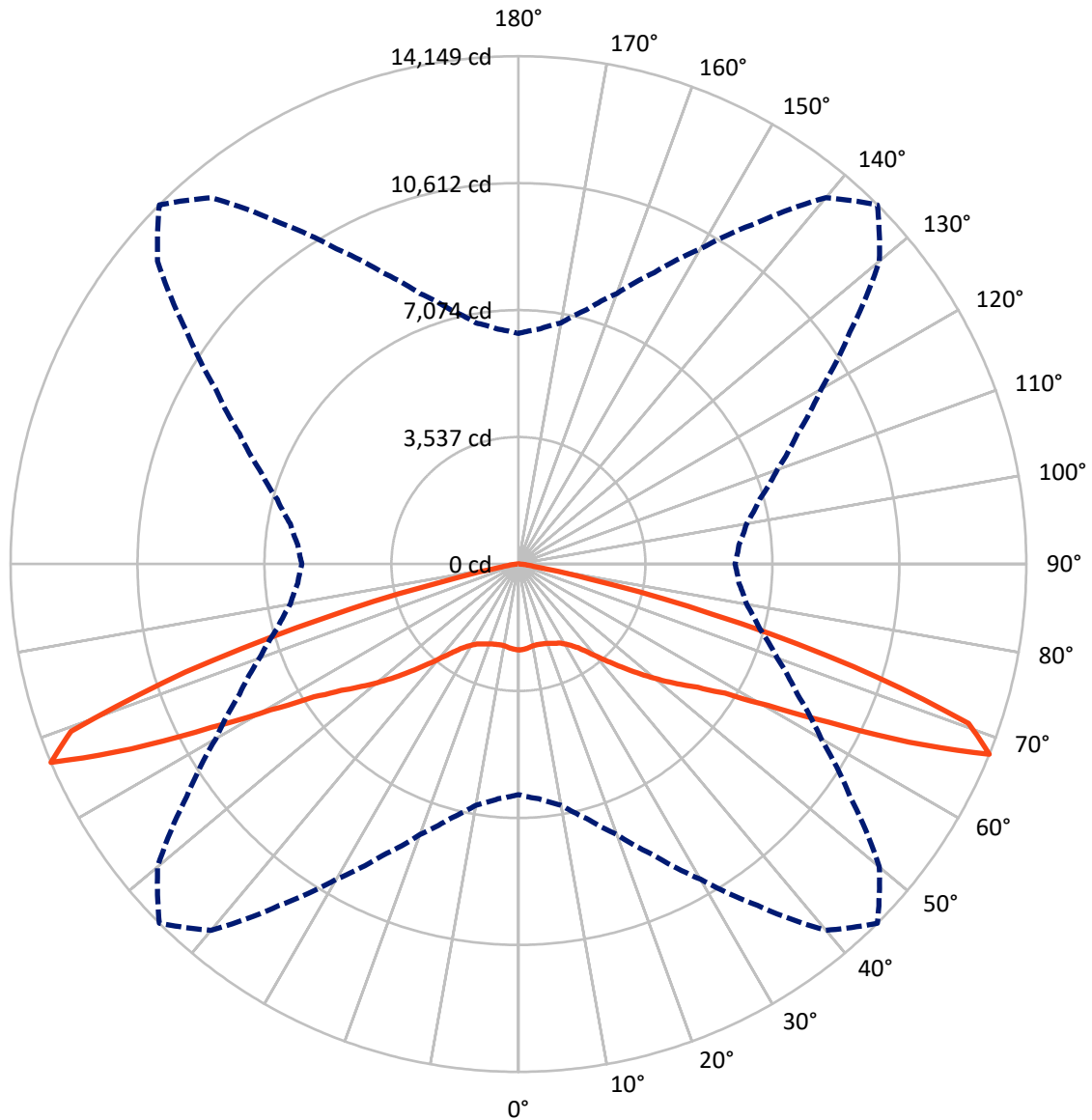
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	12020.2	0.0	12020.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12020.2	0.0	12020.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24040.4	0.0	24040.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	0.9
10°-20°	650.7	2.7
20°-30°	1106.1	4.6
30°-40°	1808.2	7.5
40°-50°	3227.9	13.4
50°-60°	5442.4	22.6
60°-70°	8445.7	35.1
70°-80°	2967.5	12.3
80°-90°	167.7	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°	24040.4	100.0
0°-180°	24040.4	100.0



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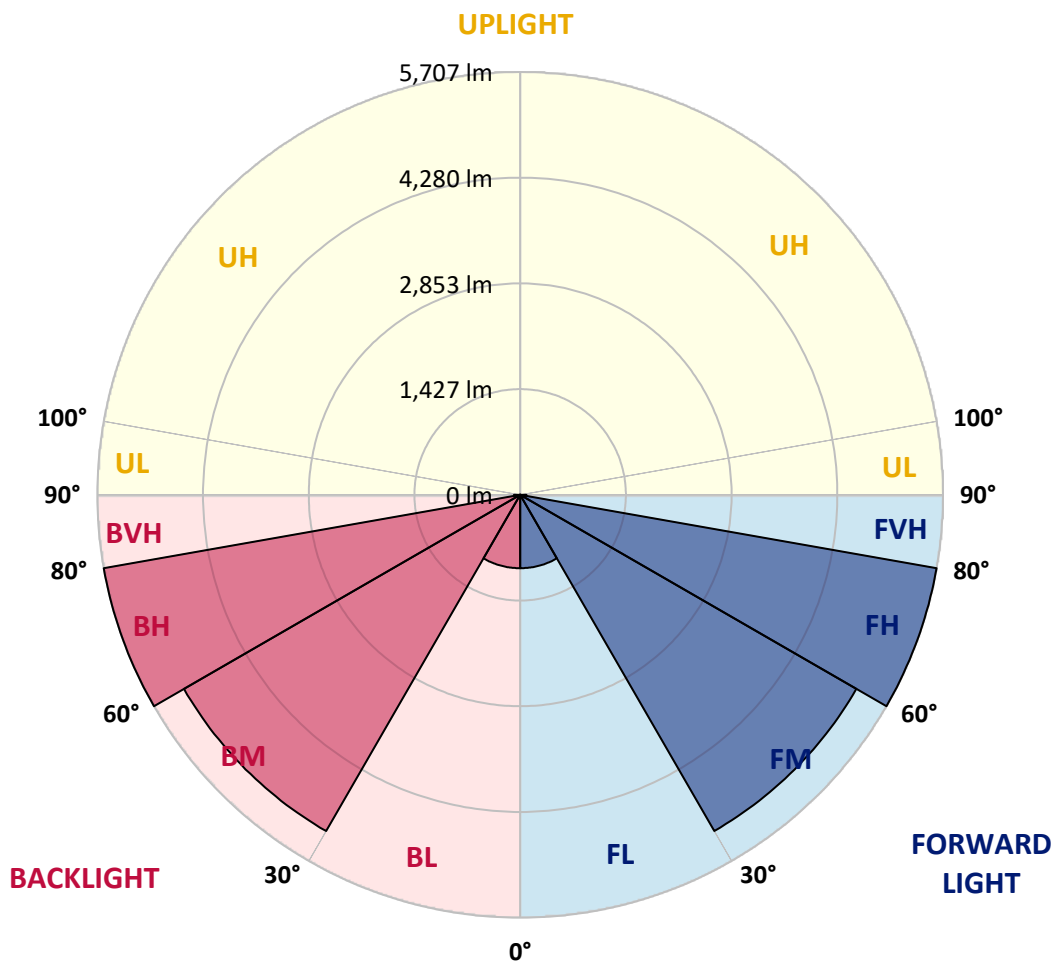
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.5	4.1			
FM	(30°-60°)	5239.2	21.8			
FH	(60°-80°)	5706.6	23.7			G3/7500
FVH	(80°-90°)	83.9	0.3			G1/100
BL	(0°-30°)	990.5	4.1	B2/1000		
BM	(30°-60°)	5239.2	21.8	B4/8500		
BH	(60°-80°)	5706.6	23.7	B5		G3/7500
BVH	(80°-90°)	83.9	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°	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7
2.5°	2386.8	2389.1	2389.1	2389.1	2388.0	2388.0	2385.8	2388.0	2386.8	2383.6	2384.7
5°	2366.9	2369.2	2369.2	2368.1	2371.3	2370.3	2366.9	2369.2	2368.1	2365.9	2366.9
7.5°	2338.3	2341.5	2341.5	2340.4	2343.8	2342.7	2340.4	2341.5	2341.5	2338.3	2338.3
10°	2306.2	2308.4	2308.4	2307.2	2312.7	2312.7	2311.7	2315.0	2316.1	2312.7	2310.6
12.5°	2276.3	2279.7	2279.7	2284.1	2289.6	2291.8	2297.3	2301.7	2306.2	2305.1	2300.6
15°	2258.7	2260.9	2265.3	2270.7	2279.7	2287.4	2296.2	2306.2	2315.0	2317.3	2310.6
17.5°	2247.6	2251.0	2257.5	2265.3	2277.5	2290.7	2304.0	2317.3	2329.3	2333.8	2326.2
20°	2244.2	2246.5	2253.0	2266.3	2283.0	2302.8	2321.7	2337.1	2353.6	2359.3	2353.6
22.5°	2251.0	2255.4	2263.1	2278.6	2300.6	2326.2	2348.2	2369.2	2390.2	2400.1	2392.5
25°	2280.7	2285.2	2295.1	2315.0	2339.4	2365.9	2391.3	2415.6	2434.4	2444.4	2438.9
27.5°	2336.0	2341.5	2353.6	2373.6	2400.1	2428.8	2456.5	2476.4	2491.9	2495.2	2488.6
30°	2419.0	2431.2	2445.5	2467.6	2498.5	2522.9	2550.5	2568.3	2586.9	2586.9	2581.5
32.5°	2548.3	2560.4	2575.9	2596.9	2621.3	2647.8	2672.1	2687.5	2707.5	2708.6	2695.4
35°	2741.7	2747.2	2760.5	2773.8	2796.0	2819.2	2840.1	2850.1	2866.8	2867.7	2855.6
37.5°	2997.1	2998.3	3007.0	3011.5	3031.4	3056.8	3076.8	3083.4	3098.9	3096.6	3084.5
40°	3294.5	3300.1	3303.3	3310.1	3331.1	3355.3	3376.4	3379.7	3396.2	3393.0	3377.4
42.5°	3638.3	3640.7	3659.3	3669.3	3689.2	3701.3	3728.0	3731.2	3751.1	3742.2	3724.6
45°	4024.1	4044.1	4061.7	4081.7	4102.6	4117.1	4138.1	4133.6	4146.9	4133.6	4123.7
47.5°	4429.9	4444.4	4484.1	4515.2	4549.3	4561.6	4591.3	4578.1	4591.3	4572.6	4569.3
50°	4876.5	4902.1	4936.2	4971.7	5008.1	5028.1	5066.7	5050.1	5067.9	5050.1	5040.2
52.5°	5316.6	5323.3	5398.5	5450.3	5501.2	5524.4	5547.7	5539.8	5541.0	5539.8	5530.0
55°	5734.5	5750.1	5825.1	5895.8	5984.4	6049.5	6089.4	6084.9	6075.0	6065.0	6048.5
57.5°	6205.4	6220.9	6307.2	6394.6	6495.1	6588.0	6668.7	6751.7	6783.7	6792.5	6756.1
60°	6842.3	6841.1	6956.1	7062.2	7205.9	7344.2	7521.1	7701.3	7908.0	8004.2	7877.1
62.5°	7490.1	7516.7	7682.5	7870.4	8166.8	8455.2	8781.4	9101.9	9429.2	9695.6	9412.7
65°	7412.8	7514.4	7760.9	8186.7	8733.9	9384.0	10087.1	10831.0	11503.2	11965.3	11446.8
67.5°	6424.4	6569.1	6820.1	7337.5	8021.9	8959.3	10140.1	11611.6	13321.9	14148.8	13124.0
70°	4656.5	4820.1	5083.2	5588.5	6266.2	7157.3	8439.8	10206.5	12470.6	13304.2	12175.4
72.5°	2317.3	2405.8	2568.3	2889.8	3402.9	4125.9	5289.0	6987.0	8990.3	9755.4	8723.9
75°	787.2	828.1	855.6	960.7	1123.2	1407.4	1985.6	3054.6	4659.9	5586.3	4593.6
77.5°	454.5	455.5	474.2	493.1	520.7	551.6	629.1	825.8	1428.3	2028.7	1478.2
80°	294.0	292.9	308.5	322.9	341.6	357.0	361.5	382.5	441.1	523.0	467.7
82.5°	152.5	171.3	205.6	224.4	259.8	266.4	257.6	249.9	264.2	274.2	280.8
85°	84.0	72.9	109.5	141.6	157.1	159.2	159.2	150.3	155.9	152.5	165.8
87.5°	38.6	35.4	43.1	69.7	74.1	63.1	66.4	58.6	42.0	41.0	46.4
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°	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7	2395.7
2.5°	2384.7	2385.8	2385.8	2389.1	2390.2	2392.5	2394.6	2395.7
5°	2365.9	2369.2	2366.9	2370.3	2370.3	2372.6	2372.6	2373.6
7.5°	2338.3	2341.5	2341.5	2341.5	2340.4	2343.8	2343.8	2343.8
10°	2309.5	2311.7	2310.6	2308.4	2306.2	2309.5	2308.4	2307.2
12.5°	2300.6	2295.1	2290.7	2288.5	2284.1	2285.2	2281.9	2281.9
15°	2306.2	2296.2	2288.5	2285.2	2280.7	2278.6	2276.3	2277.5
17.5°	2320.5	2308.4	2298.5	2293.0	2287.4	2284.1	2279.7	2280.7
20°	2346.0	2331.6	2317.3	2306.2	2296.2	2290.7	2287.4	2286.2
22.5°	2383.6	2362.5	2341.5	2325.0	2311.7	2304.0	2300.6	2298.5
25°	2426.7	2403.4	2379.2	2360.3	2347.1	2337.1	2330.6	2330.6
27.5°	2480.8	2462.1	2439.9	2417.9	2405.8	2395.7	2391.3	2389.1
30°	2571.5	2553.8	2536.2	2515.2	2499.7	2489.7	2481.9	2475.3
32.5°	2687.5	2673.3	2658.9	2643.4	2629.0	2615.8	2603.6	2598.1
35°	2851.2	2840.1	2830.2	2812.6	2807.1	2799.3	2792.7	2787.1
37.5°	3076.8	3072.4	3072.4	3053.5	3049.0	3045.9	3039.1	3040.3
40°	3373.0	3377.4	3372.0	3365.3	3361.9	3353.2	3353.2	3360.9
42.5°	3723.5	3726.8	3738.9	3728.0	3740.1	3729.0	3722.3	3728.0
45°	4130.3	4142.5	4166.8	4155.7	4163.6	4144.7	4121.6	4122.6
47.5°	4586.9	4598.0	4607.9	4600.2	4601.3	4570.3	4539.3	4531.7
50°	5061.2	5065.6	5071.1	5060.2	5062.3	5028.1	4992.7	4993.8
52.5°	5530.0	5550.9	5573.1	5543.3	5536.7	5497.8	5448.1	5428.3
55°	6066.2	6096.0	6070.6	6018.6	5966.6	5914.7	5849.5	5838.4
57.5°	6727.2	6676.5	6596.9	6498.3	6426.6	6353.6	6287.2	6259.6
60°	7647.1	7455.8	7312.2	7166.1	7074.4	6985.0	6897.5	6884.3
62.5°	8947.2	8616.6	8330.3	8028.5	7781.9	7589.6	7435.9	7392.8
65°	10576.9	9795.2	9117.4	8485.1	7935.6	7521.1	7260.1	7145.2
67.5°	11277.7	9734.4	8572.4	7674.7	6956.1	6454.2	6172.3	6031.8
70°	9910.1	8072.7	6809.2	5910.3	5255.9	4720.8	4465.4	4315.0
72.5°	6818.0	5135.3	4060.7	3314.4	2791.6	2343.8	2166.9	2153.5
75°	3061.2	2027.6	1397.5	1076.8	906.6	788.3	751.8	724.2
77.5°	856.9	633.5	564.9	528.5	493.1	452.1	436.7	440.0
80°	416.9	393.5	378.0	354.9	322.9	288.5	273.1	279.7
82.5°	276.4	273.1	283.1	266.4	220.1	186.8	157.1	143.6
85°	168.1	170.3	173.6	174.7	148.1	103.9	70.7	79.6
87.5°	66.4	76.3	83.0	86.2	80.7	49.8	39.9	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)