

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: P192616

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32018.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 257
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

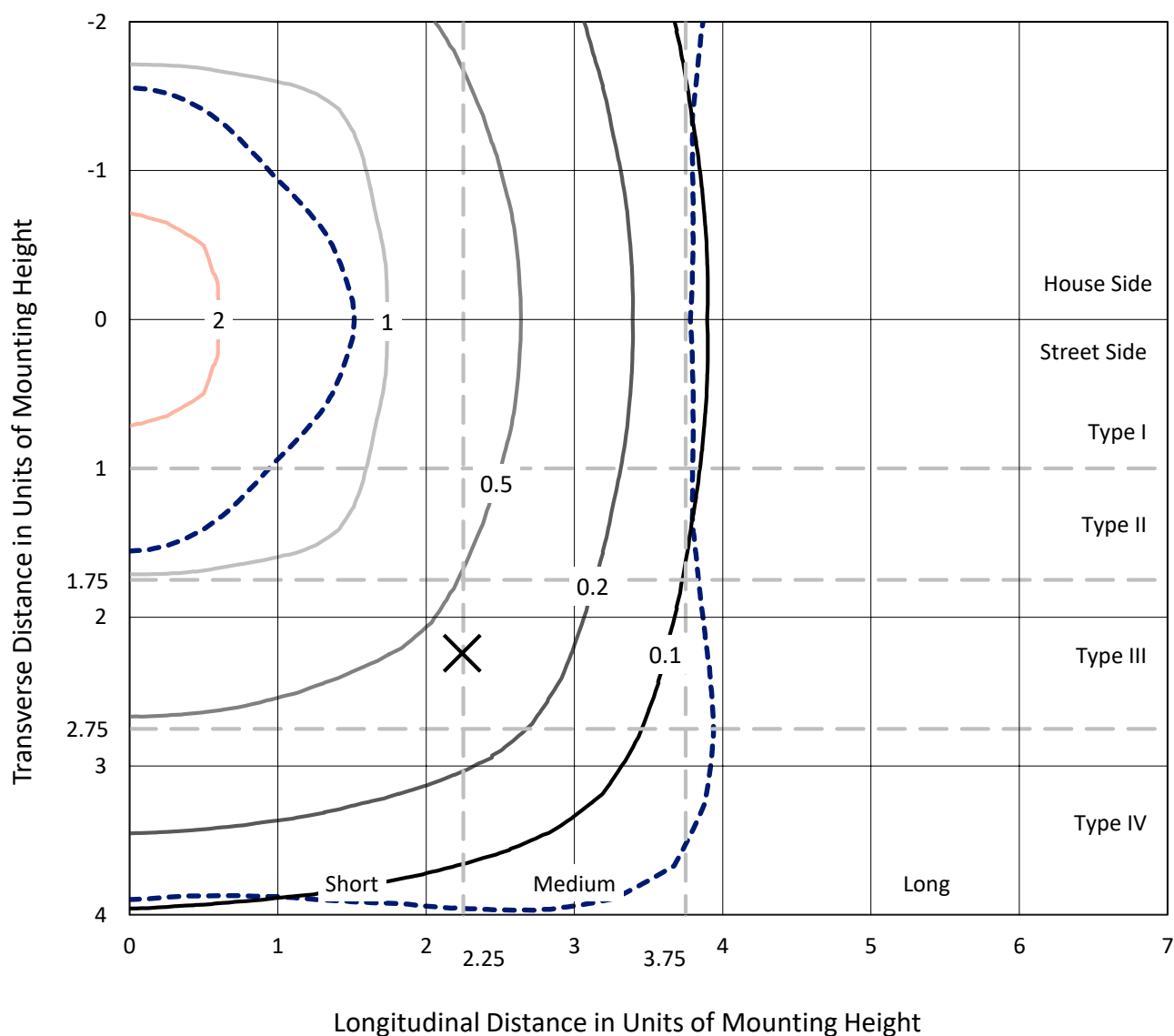


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

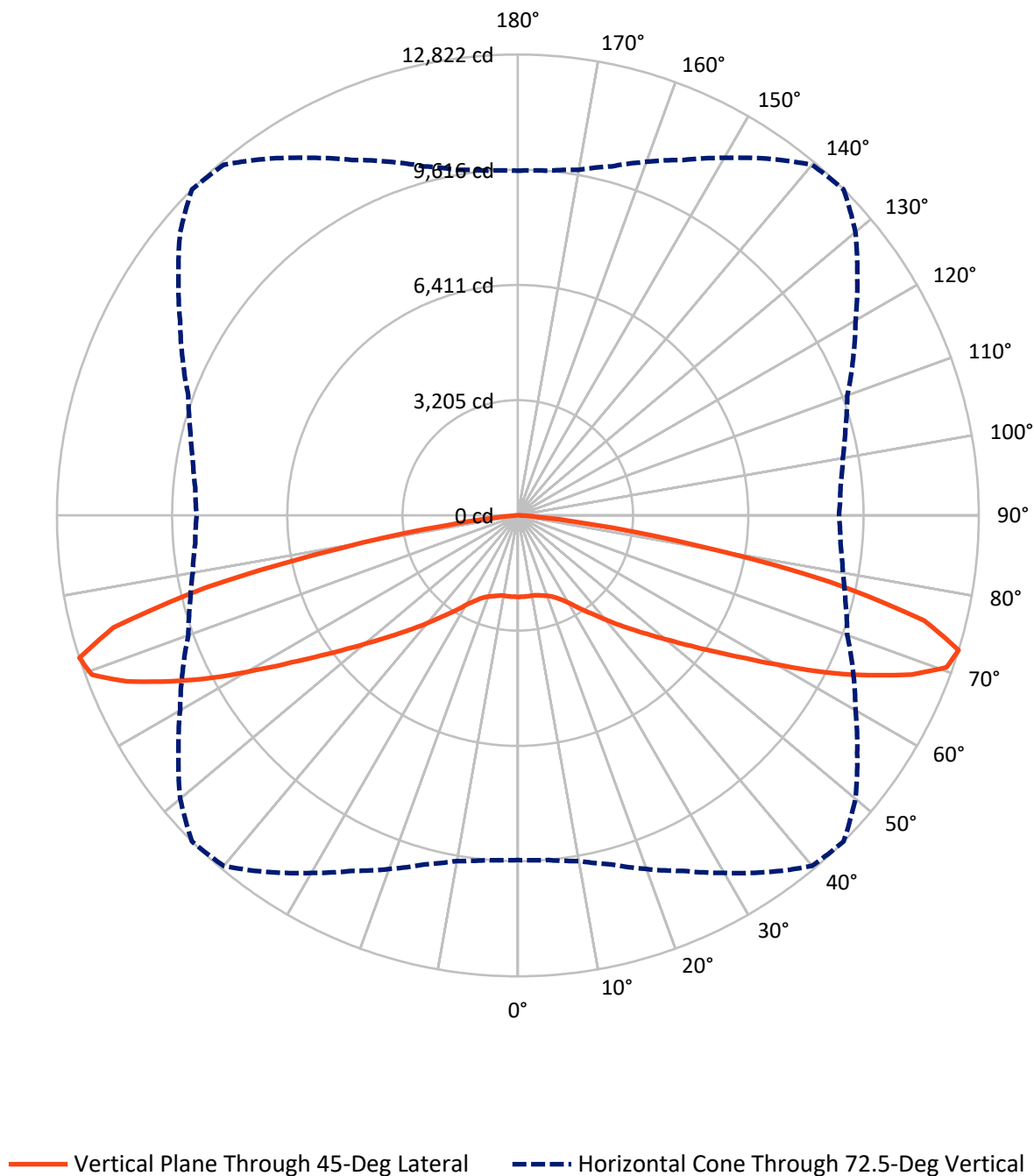


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16009.2	0.0	16009.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16009.2	0.0	16009.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32018.4	0.0	32018.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	0.7
10°-20°	657.6	2.1
20°-30°	1201.6	3.8
30°-40°	2071.8	6.5
40°-50°	3541.8	11.1
50°-60°	5740.8	17.9
60°-70°	9523.8	29.7
70°-80°	8388.2	26.2
80°-90°	676.3	2.1
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°	32018.4	100.0
0°-180°	32018.4	100.0

Coefficient of Utilization



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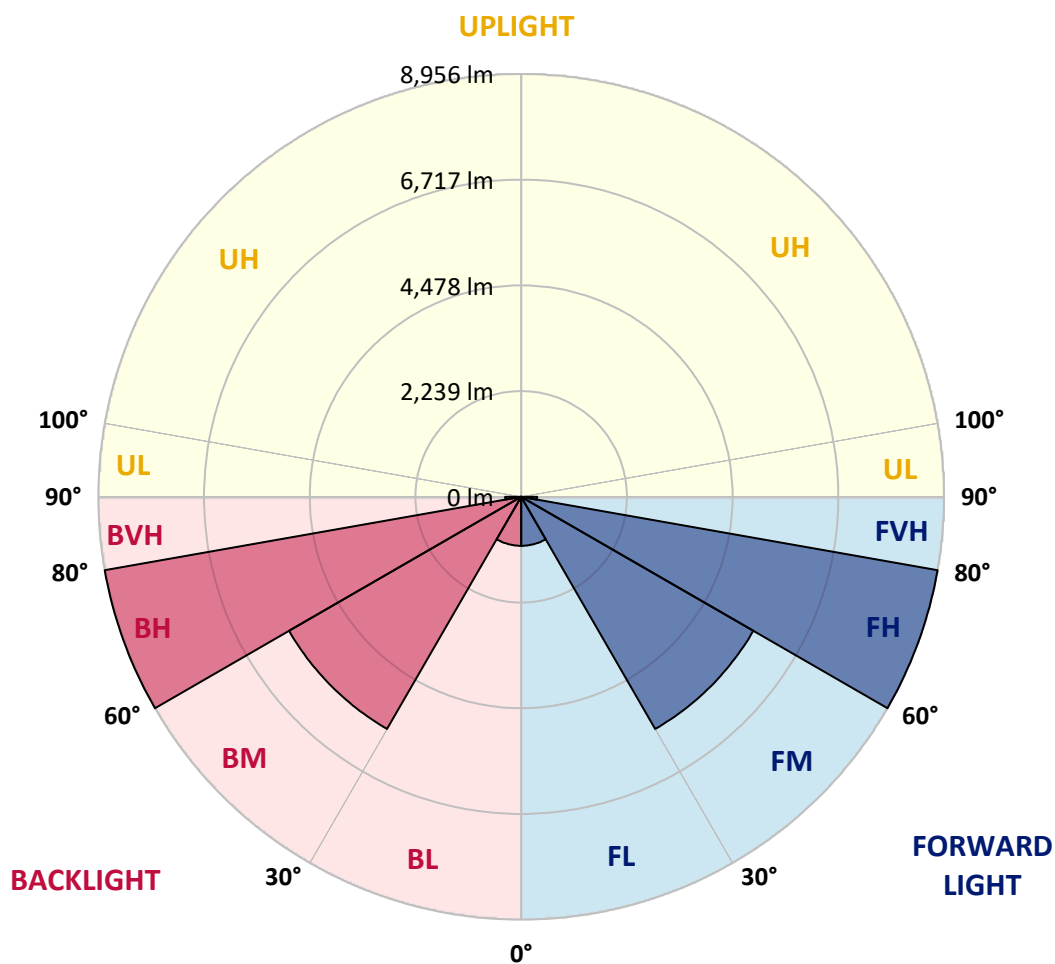
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.9	3.2			
FM	(30°-60°)	5677.2	17.7			
FH	(60°-80°)	8956.0	28.0			G4/12000
FVH	(80°-90°)	338.2	1.1			G3/500
BL	(0°-30°)	1037.9	3.2	B3/2500		
BM	(30°-60°)	5677.2	17.7	B4/8500		
BH	(60°-80°)	8956.0	28.0	B5		G4/12000
BVH	(80°-90°)	338.2	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3
2.5°	2267.3	2268.9	2270.3	2268.9	2268.9	2267.3	2265.9	2267.3	2265.9	2263.0	2264.5
5°	2274.8	2277.7	2277.7	2274.8	2276.2	2274.8	2271.8	2273.2	2270.3	2265.9	2265.9
7.5°	2283.5	2285.0	2285.0	2282.1	2283.5	2280.6	2277.7	2276.2	2273.2	2267.3	2263.0
10°	2296.7	2298.3	2296.7	2293.8	2293.8	2289.4	2282.1	2279.1	2273.2	2264.5	2260.0
12.5°	2311.5	2312.9	2311.5	2308.5	2307.0	2299.7	2293.8	2289.4	2285.0	2277.7	2270.3
15°	2332.0	2335.0	2332.0	2326.1	2321.8	2315.9	2312.9	2314.4	2315.9	2310.0	2302.6
17.5°	2370.2	2371.7	2367.2	2354.0	2348.2	2342.3	2342.3	2345.2	2349.6	2346.7	2339.3
20°	2440.7	2436.3	2426.0	2409.8	2402.5	2392.2	2390.8	2392.2	2392.2	2390.8	2384.9
22.5°	2528.8	2525.8	2512.6	2492.1	2481.9	2476.0	2467.1	2459.8	2458.4	2453.9	2448.1
25°	2634.6	2633.0	2616.9	2599.3	2591.9	2584.6	2577.2	2566.9	2558.2	2547.9	2542.0
27.5°	2769.6	2763.7	2740.2	2731.5	2721.2	2716.7	2706.5	2694.8	2687.4	2674.2	2666.8
30°	2918.0	2918.0	2898.8	2895.9	2895.9	2885.6	2873.9	2853.3	2840.0	2826.9	2822.5
32.5°	3066.3	3067.8	3048.7	3054.6	3058.9	3066.3	3069.2	3061.9	3053.0	3051.6	3042.8
35°	3280.7	3274.8	3255.7	3260.1	3258.6	3257.2	3257.2	3273.3	3276.2	3279.2	3261.6
37.5°	3546.4	3546.4	3527.4	3527.4	3518.5	3509.7	3498.1	3508.4	3524.4	3528.8	3517.2
40°	3850.6	3860.7	3837.3	3835.8	3838.8	3810.9	3797.7	3813.8	3824.1	3841.7	3828.5
42.5°	4208.7	4201.4	4178.0	4175.1	4158.9	4150.1	4138.3	4151.6	4167.7	4179.3	4183.9
45°	4552.4	4546.6	4520.2	4520.2	4504.0	4496.7	4502.5	4524.5	4531.8	4548.0	4564.2
47.5°	4891.6	4884.3	4866.7	4874.0	4875.4	4888.7	4907.8	4928.3	4948.9	4971.0	4978.3
50°	5238.2	5239.7	5220.6	5238.2	5260.3	5297.0	5348.3	5382.1	5424.7	5452.6	5461.5
52.5°	5553.9	5559.8	5580.4	5621.5	5665.5	5737.5	5825.6	5907.8	5978.3	6025.3	6022.4
55°	5932.9	5941.6	5991.6	6062.0	6134.1	6242.7	6373.4	6518.7	6636.3	6703.8	6661.2
57.5°	6417.5	6436.6	6492.3	6587.8	6695.0	6836.1	7015.1	7233.9	7416.1	7507.1	7438.1
60°	7082.7	7094.4	7162.0	7267.7	7397.0	7571.6	7811.1	8104.8	8361.8	8482.3	8402.9
62.5°	7959.4	7981.4	8035.8	8143.0	8275.2	8473.4	8765.7	9132.8	9452.9	9620.3	9441.1
65°	9006.5	9076.9	9122.5	9231.1	9354.4	9564.4	9869.9	10263.5	10607.1	10717.2	10510.2
67.5°	10043.2	10105.0	10184.2	10309.0	10433.8	10670.3	10953.7	11335.5	11712.9	11812.8	11491.3
70°	10497.0	10532.3	10655.6	10826.0	11065.3	11344.4	11671.8	12100.7	12567.6	12649.8	12241.6
72.5°	9588.0	9623.2	9761.3	10050.5	10467.7	10911.1	11482.4	12112.4	12729.1	12821.7	12259.2
75°	7251.5	7194.2	7398.4	7781.7	8344.1	8962.4	9761.3	10664.5	11555.8	11671.8	11000.8
77.5°	3747.7	3740.4	3894.5	4370.4	5041.4	5744.9	6624.5	7645.1	8517.5	8869.8	8323.6
80°	1055.9	1067.6	1141.0	1377.4	1769.6	2277.7	2965.0	3921.0	4634.7	4998.8	4693.4
82.5°	414.1	446.5	474.3	518.4	569.8	644.6	860.5	1280.5	1718.2	2053.0	1681.5
85°	148.4	158.7	224.6	265.8	270.2	284.9	324.5	378.9	456.7	544.8	447.9
87.5°	55.8	61.7	72.0	119.0	117.5	107.2	130.7	136.6	102.8	94.0	116.1
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°	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3
2.5°	2261.5	2263.0	2263.0	2264.5	2265.9	2265.9	2268.9	2268.9
5°	2263.0	2263.0	2260.0	2261.5	2260.0	2260.0	2261.5	2261.5
7.5°	2260.0	2258.6	2255.6	2254.2	2251.3	2251.3	2251.3	2251.3
10°	2255.6	2254.2	2251.3	2249.7	2248.3	2248.3	2248.3	2248.3
12.5°	2267.3	2263.0	2260.0	2258.6	2258.6	2258.6	2258.6	2258.6
15°	2298.3	2288.0	2280.6	2280.6	2282.1	2285.0	2285.0	2288.0
17.5°	2336.4	2324.7	2317.3	2311.5	2314.4	2318.8	2321.8	2324.7
20°	2382.0	2376.1	2365.8	2359.9	2359.9	2365.8	2368.7	2370.2
22.5°	2445.1	2440.7	2436.3	2429.0	2429.0	2431.9	2437.8	2437.8
25°	2539.0	2536.1	2533.1	2527.3	2525.8	2525.8	2528.8	2531.7
27.5°	2656.5	2658.1	2655.1	2653.6	2649.2	2647.8	2652.2	2650.7
30°	2813.7	2821.1	2828.4	2822.5	2815.2	2810.8	2806.4	2800.5
32.5°	3026.6	3017.8	3012.0	3001.7	2988.5	2976.7	2967.9	2957.6
35°	3227.8	3213.1	3207.3	3216.0	3214.6	3207.3	3196.9	3188.1
37.5°	3474.6	3471.6	3474.6	3490.8	3487.8	3495.1	3474.6	3473.1
40°	3785.9	3788.8	3809.4	3828.5	3838.8	3848.9	3837.3	3825.5
42.5°	4147.2	4145.7	4153.0	4179.3	4197.0	4208.7	4183.9	4181.0
45°	4528.9	4518.6	4524.5	4546.6	4564.2	4577.4	4549.4	4549.4
47.5°	4948.9	4931.3	4912.2	4937.2	4947.5	4956.2	4934.2	4926.9
50°	5417.4	5380.7	5339.6	5349.9	5349.9	5346.9	5319.0	5317.5
52.5°	5954.8	5887.3	5812.4	5784.5	5768.4	5750.8	5702.2	5678.8
55°	6573.1	6471.8	6354.3	6282.3	6244.1	6195.6	6114.9	6093.0
57.5°	7295.7	7137.1	6934.3	6846.3	6761.1	6681.7	6592.1	6567.2
60°	8151.9	7918.2	7649.6	7486.6	7394.0	7317.6	7225.1	7220.7
62.5°	9106.3	8737.7	8433.7	8286.9	8219.3	8151.9	8063.7	8075.5
65°	10077.0	9692.3	9407.3	9288.4	9225.3	9169.5	9081.3	9094.5
67.5°	11034.5	10680.5	10367.8	10245.9	10175.5	10105.0	10025.6	10038.8
70°	11721.8	11282.6	10930.2	10660.0	10491.2	10300.2	10176.9	10146.1
72.5°	11525.0	10848.1	10288.5	9752.5	9438.3	9182.7	9009.4	8934.4
75°	9974.2	9049.1	8329.5	7671.5	7301.5	7000.5	6781.6	6645.0
77.5°	7407.2	6367.5	5517.3	4759.5	4160.4	3758.0	3474.6	3291.0
80°	4054.6	3084.0	2254.2	1584.6	1164.6	967.7	854.7	800.4
82.5°	1262.9	815.1	600.6	518.4	481.8	461.1	427.3	373.0
85°	402.4	352.5	327.4	312.8	298.1	259.9	179.1	163.1
87.5°	155.7	160.1	158.7	149.8	152.8	110.2	88.1	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)