

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: P192552

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192552
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24395.4 lumens
Efficiency: N/A
Efficacy: 108.4 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): 225
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

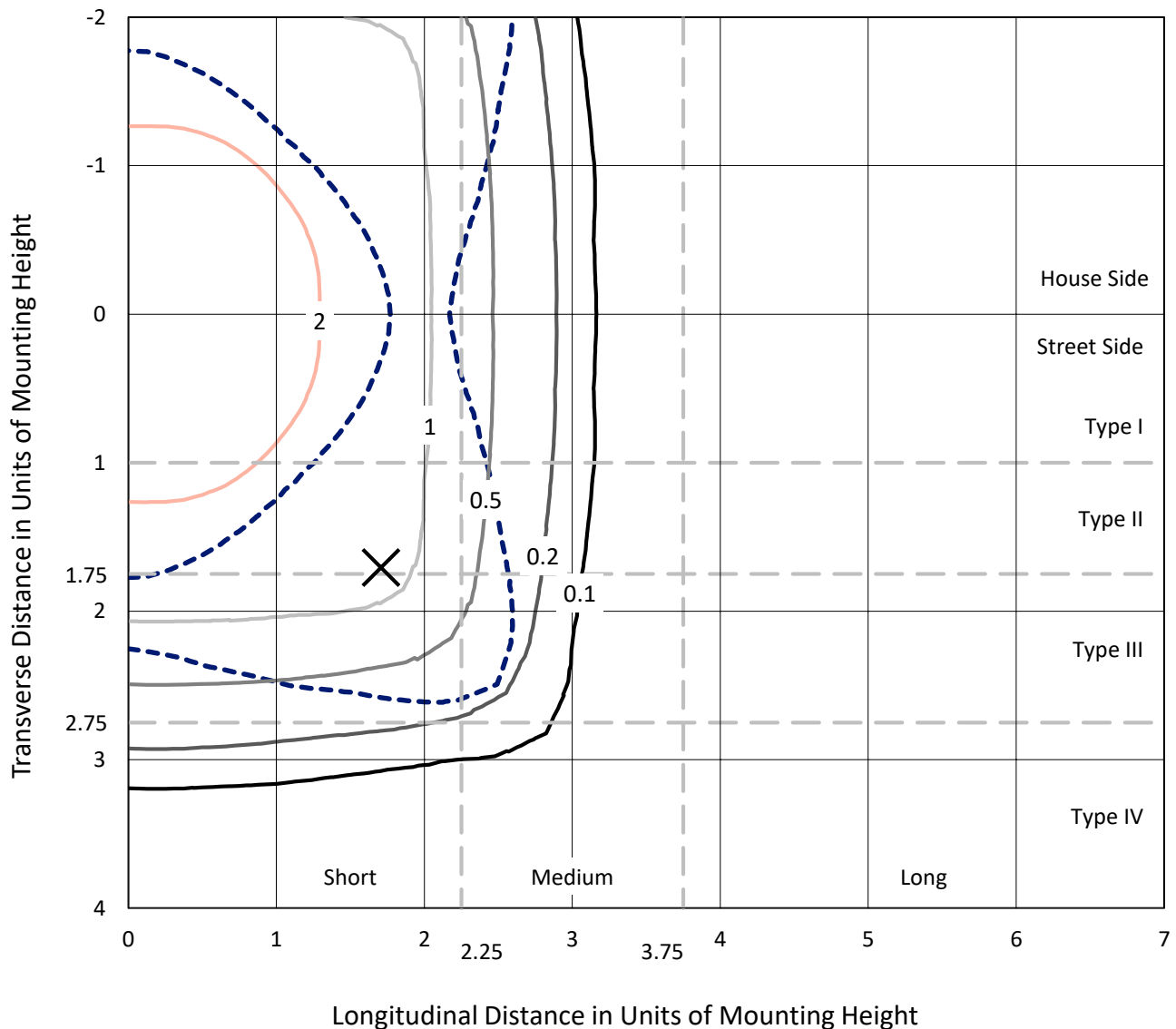


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

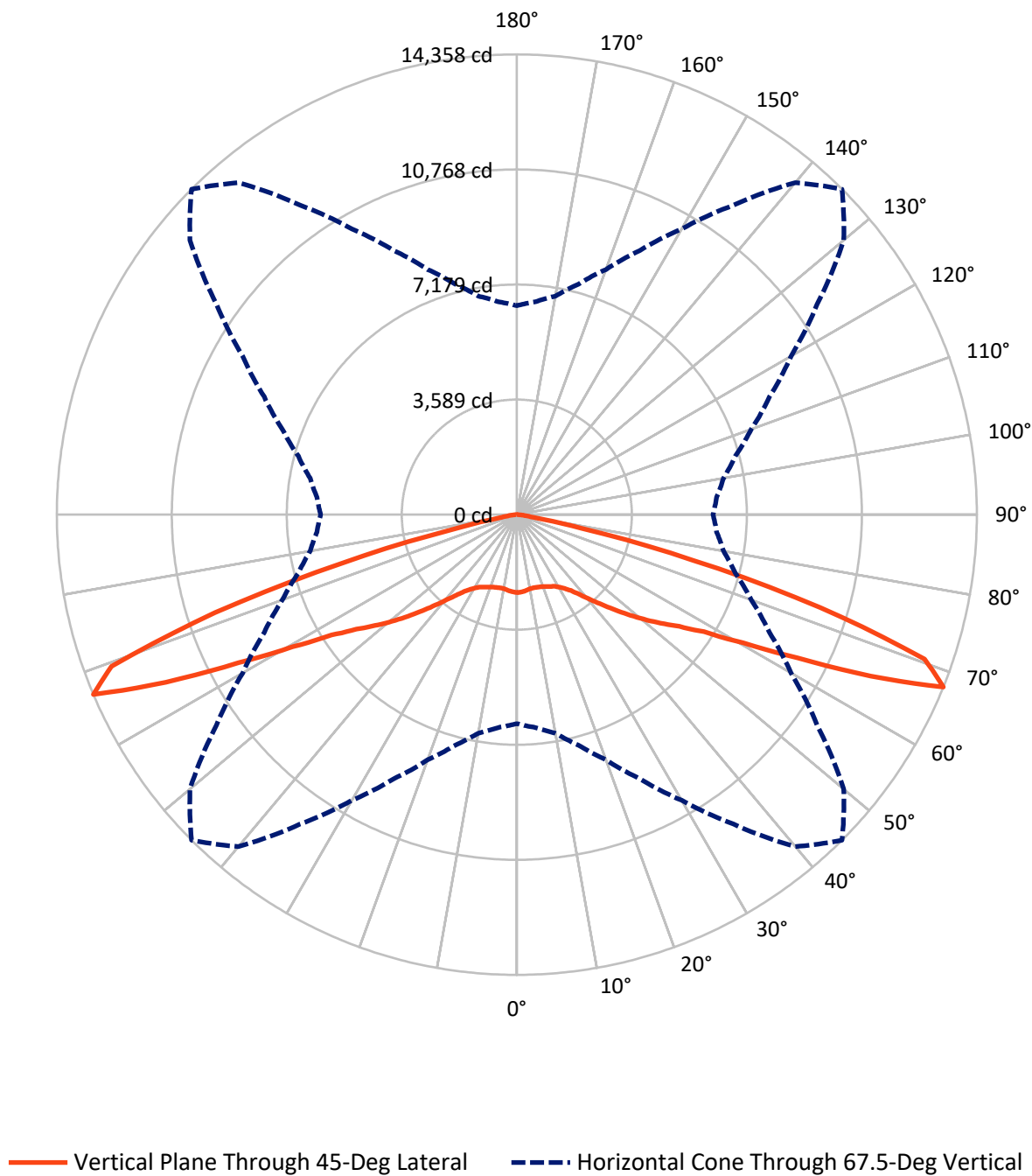


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12197.7	0.0	12197.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12197.7	0.0	12197.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24395.4	0.0	24395.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	0.9
10°-20°	660.3	2.7
20°-30°	1122.5	4.6
30°-40°	1834.9	7.5
40°-50°	3275.6	13.4
50°-60°	5522.7	22.6
60°-70°	8570.5	35.1
70°-80°	3011.3	12.3
80°-90°	170.2	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°	24395.4	100.0
0°-180°	24395.4	100.0

Coefficient of Utilization



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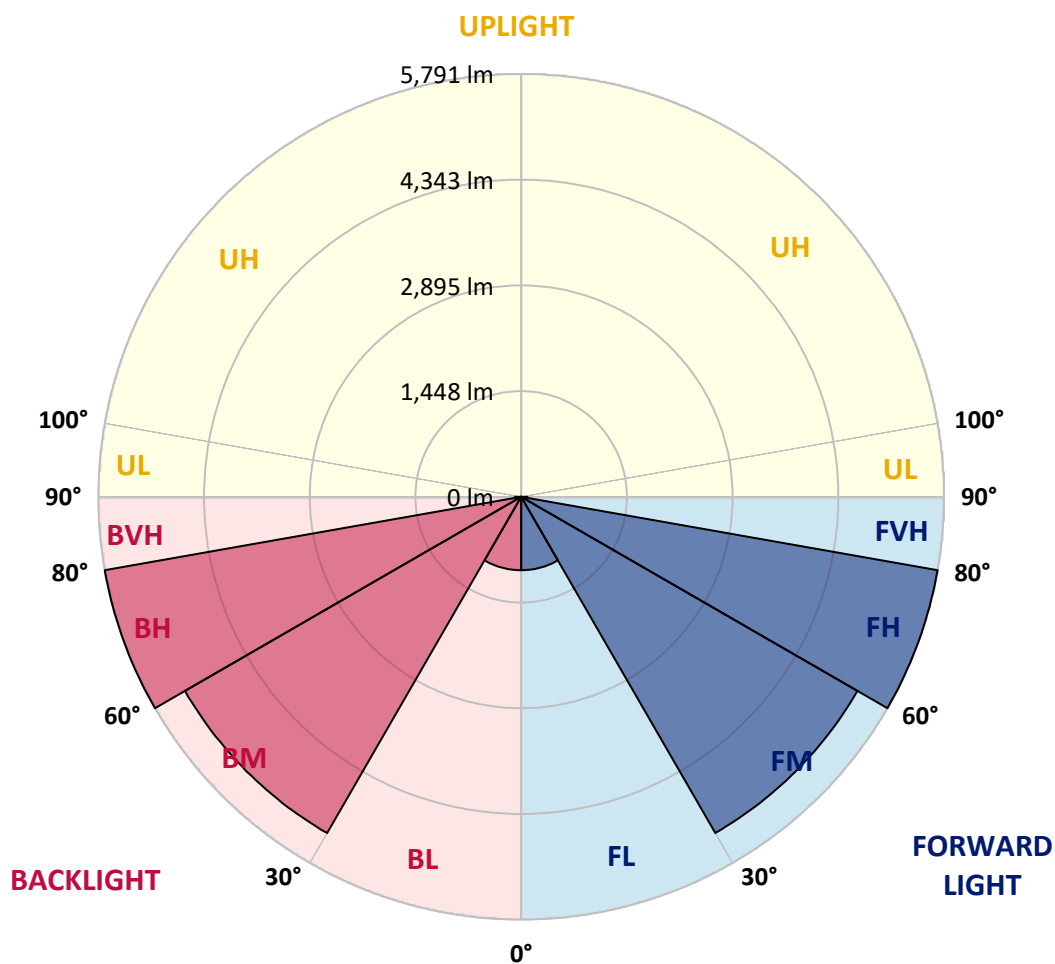
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	4.1			
FM	(30°-60°)	5316.6	21.8			
FH	(60°-80°)	5790.9	23.7			G3/7500
FVH	(80°-90°)	85.1	0.3			G1/100
BL	(0°-30°)	1005.1	4.1	B3/2500		
BM	(30°-60°)	5316.6	21.8	B4/8500		
BH	(60°-80°)	5790.9	23.7	B5		G3/7500
BVH	(80°-90°)	85.1	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°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2422.2	2424.4	2424.4	2424.4	2423.3	2423.3	2420.9	2423.3	2422.2	2418.8	2419.9
5°	2401.9	2404.1	2404.1	2403.0	2406.4	2405.4	2401.9	2404.1	2403.0	2400.9	2401.9
7.5°	2372.8	2376.2	2376.2	2375.0	2378.3	2377.3	2375.0	2376.2	2376.2	2372.8	2372.8
10°	2340.3	2342.5	2342.5	2341.3	2347.0	2347.0	2345.8	2349.2	2350.2	2347.0	2344.7
12.5°	2310.0	2313.3	2313.3	2317.8	2323.4	2325.7	2331.3	2335.8	2340.3	2339.1	2334.7
15°	2292.0	2294.2	2298.7	2304.4	2313.3	2321.2	2330.2	2340.3	2349.2	2351.5	2344.7
17.5°	2280.8	2284.2	2290.8	2298.7	2311.1	2324.5	2338.0	2351.5	2363.9	2368.3	2360.4
20°	2277.4	2279.7	2286.4	2299.8	2316.7	2336.8	2355.9	2371.7	2388.5	2394.1	2388.5
22.5°	2284.2	2288.7	2296.5	2312.2	2334.7	2360.4	2382.8	2404.1	2425.4	2435.6	2427.7
25°	2314.4	2318.9	2329.0	2349.2	2373.8	2400.9	2426.6	2451.3	2470.4	2480.5	2474.8
27.5°	2370.5	2376.2	2388.5	2408.6	2435.6	2464.8	2492.9	2513.0	2528.7	2532.1	2525.3
30°	2454.6	2467.0	2481.6	2504.0	2535.5	2560.2	2588.2	2606.2	2625.2	2625.2	2619.6
32.5°	2585.9	2598.3	2613.9	2635.4	2659.9	2686.9	2711.6	2727.3	2747.5	2748.6	2735.1
35°	2782.3	2787.9	2801.3	2814.7	2837.3	2860.7	2882.2	2892.2	2909.0	2910.1	2897.8
37.5°	3041.4	3042.6	3051.5	3056.0	3076.2	3102.0	3122.2	3128.9	3144.6	3142.4	3130.1
40°	3343.3	3348.8	3352.2	3358.8	3380.3	3404.8	3426.3	3429.5	3446.4	3443.1	3427.4
42.5°	3692.1	3694.4	3713.4	3723.5	3743.7	3756.0	3783.0	3786.4	3806.5	3797.6	3779.6
45°	4083.7	4103.8	4121.8	4142.0	4163.4	4177.8	4199.2	4194.7	4208.1	4194.7	4184.6
47.5°	4495.4	4509.9	4550.3	4581.8	4616.5	4628.9	4659.2	4645.7	4659.2	4640.1	4636.8
50°	4948.6	4974.3	5009.2	5045.0	5082.0	5102.3	5141.5	5124.7	5142.8	5124.7	5114.7
52.5°	5395.1	5401.9	5478.2	5530.8	5582.5	5606.0	5629.6	5621.7	5622.8	5621.7	5611.7
55°	5819.1	5834.9	5911.2	5982.9	6072.7	6138.9	6179.2	6174.8	6164.7	6154.6	6137.7
57.5°	6297.0	6312.8	6400.3	6488.9	6591.1	6685.2	6767.2	6851.3	6883.9	6892.8	6855.8
60°	6943.3	6942.2	7058.8	7166.6	7312.4	7452.6	7632.1	7815.0	8024.8	8122.4	7993.4
62.5°	7600.7	7627.6	7795.8	7986.7	8287.4	8580.1	8911.0	9236.4	9568.5	9838.9	9551.7
65°	7522.2	7625.4	7875.5	8307.5	8862.8	9522.5	10236.0	10991.1	11673.1	12142.1	11615.9
67.5°	6519.2	6666.2	6920.8	7445.9	8140.4	9091.7	10289.8	11783.1	13518.6	14357.8	13317.8
70°	4725.4	4891.4	5158.3	5671.1	6358.8	7263.0	8564.4	10357.1	12654.7	13500.6	12355.2
72.5°	2351.5	2441.2	2606.2	2932.6	3453.1	4186.9	5367.1	7090.3	9123.1	9899.4	8852.7
75°	798.8	840.3	868.3	974.9	1139.8	1428.1	2014.8	3099.8	4728.7	5668.8	4661.4
77.5°	461.1	462.1	481.3	500.4	528.4	559.9	638.4	838.0	1449.5	2058.7	1499.9
80°	298.4	297.3	313.0	327.6	346.7	362.4	366.9	388.2	447.6	530.7	474.5
82.5°	154.8	173.9	208.6	227.7	263.7	270.4	261.3	253.6	268.1	278.2	284.9
85°	85.2	74.1	111.1	143.5	159.3	161.6	161.6	152.5	158.2	154.8	168.3
87.5°	39.3	35.9	43.7	70.7	75.2	63.9	67.3	59.4	42.6	41.5	47.1
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°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2419.9	2420.9	2420.9	2424.4	2425.4	2427.7	2430.0	2431.1
5°	2400.9	2404.1	2401.9	2405.4	2405.4	2407.5	2407.5	2408.6
7.5°	2372.8	2376.2	2376.2	2376.2	2375.0	2378.3	2378.3	2378.3
10°	2343.6	2345.8	2344.7	2342.5	2340.3	2343.6	2342.5	2341.3
12.5°	2334.7	2329.0	2324.5	2322.3	2317.8	2318.9	2315.5	2315.5
15°	2340.3	2330.2	2322.3	2318.9	2314.4	2312.2	2310.0	2311.1
17.5°	2354.9	2342.5	2332.3	2326.7	2321.2	2317.8	2313.3	2314.4
20°	2380.6	2366.0	2351.5	2340.3	2330.2	2324.5	2321.2	2320.0
22.5°	2418.8	2397.4	2376.2	2359.4	2345.8	2338.0	2334.7	2332.3
25°	2462.4	2439.0	2414.3	2395.2	2381.8	2371.7	2364.9	2364.9
27.5°	2517.5	2498.4	2476.1	2453.5	2441.2	2431.1	2426.6	2424.4
30°	2609.4	2591.5	2573.6	2552.3	2536.6	2526.5	2518.7	2511.9
32.5°	2727.3	2712.7	2698.1	2682.5	2667.8	2654.4	2642.0	2636.4
35°	2893.3	2882.2	2872.0	2854.1	2848.4	2840.6	2833.8	2828.2
37.5°	3122.2	3117.7	3117.7	3098.6	3094.1	3090.7	3084.1	3085.2
40°	3422.9	3427.4	3421.7	3415.0	3411.6	3402.7	3402.7	3410.5
42.5°	3778.5	3781.8	3794.1	3783.0	3795.3	3784.0	3777.3	3783.0
45°	4191.3	4203.6	4228.4	4217.1	4224.9	4205.9	4182.3	4183.4
47.5°	4654.7	4665.9	4676.0	4668.1	4669.2	4637.8	4606.4	4598.6
50°	5135.9	5140.4	5146.0	5134.8	5137.1	5102.3	5066.4	5067.6
52.5°	5611.7	5633.0	5655.4	5625.1	5618.3	5579.1	5528.6	5508.5
55°	6155.7	6186.0	6160.2	6107.5	6054.7	6002.0	5935.8	5924.6
57.5°	6826.6	6775.0	6694.2	6594.4	6521.4	6447.4	6380.0	6352.2
60°	7760.0	7565.9	7420.2	7272.0	7178.9	7087.9	6999.3	6985.9
62.5°	9079.3	8743.9	8453.4	8147.0	7896.9	7701.6	7545.8	7502.0
65°	10733.0	9939.9	9252.1	8610.4	8052.9	7632.1	7367.4	7250.7
67.5°	11444.3	9878.1	8699.0	7788.1	7058.8	6549.5	6263.4	6120.9
70°	10056.6	8191.9	6909.7	5997.6	5333.4	4790.4	4531.3	4378.7
72.5°	6918.7	5211.1	4120.6	3363.4	2832.8	2378.3	2198.9	2185.4
75°	3106.5	2057.6	1418.0	1092.7	920.0	799.9	762.8	734.9
77.5°	869.4	642.9	573.3	536.3	500.4	458.9	443.1	446.6
80°	423.0	399.4	383.7	360.1	327.6	292.9	277.1	283.8
82.5°	280.5	277.1	287.3	270.4	223.2	189.6	159.3	145.9
85°	170.6	172.7	176.1	177.2	150.3	105.4	71.8	80.8
87.5°	67.3	77.3	84.1	87.5	82.0	50.5	40.4	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)