

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: P192643

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192643
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-05-LED-E1-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33246.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
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

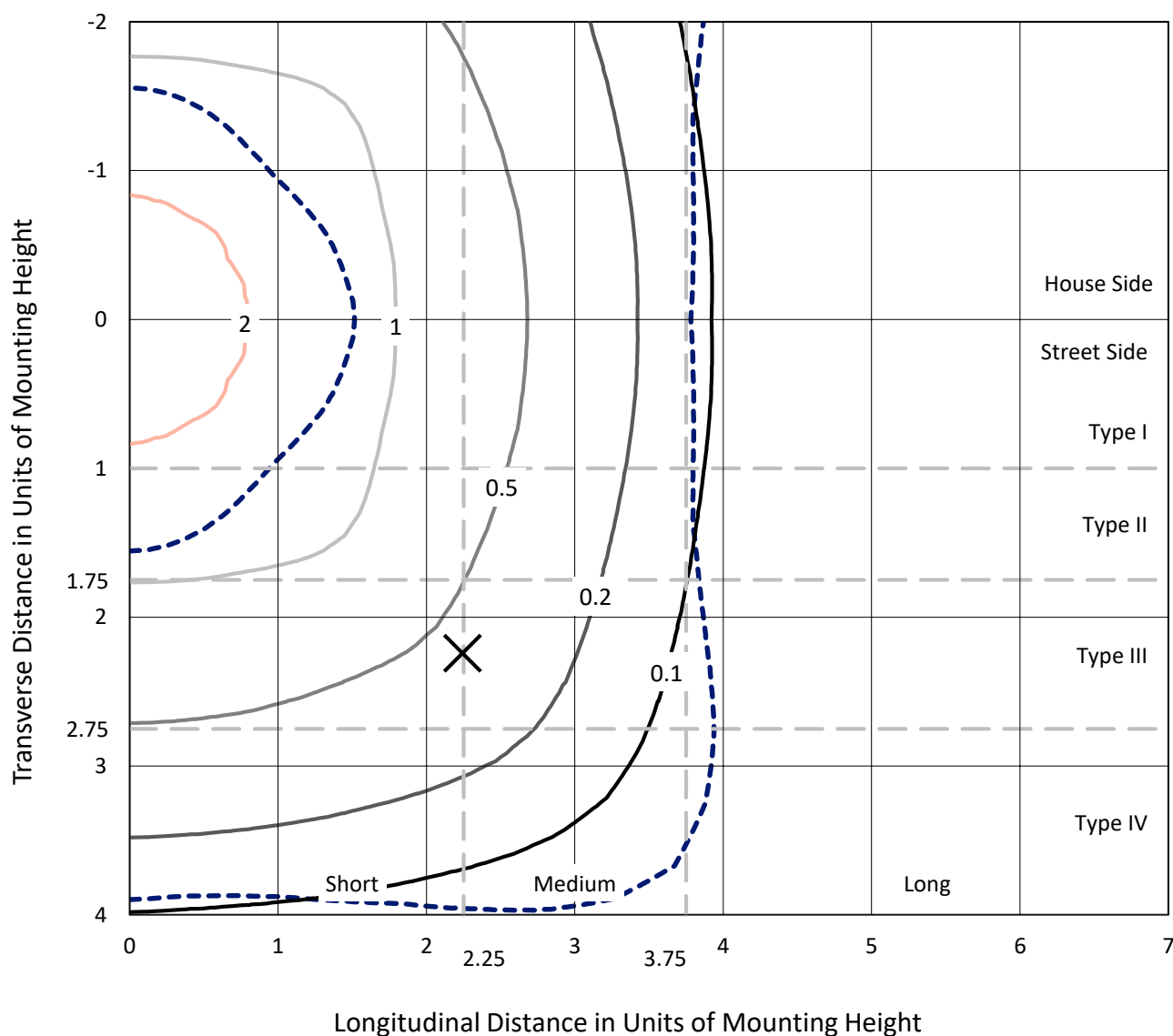


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

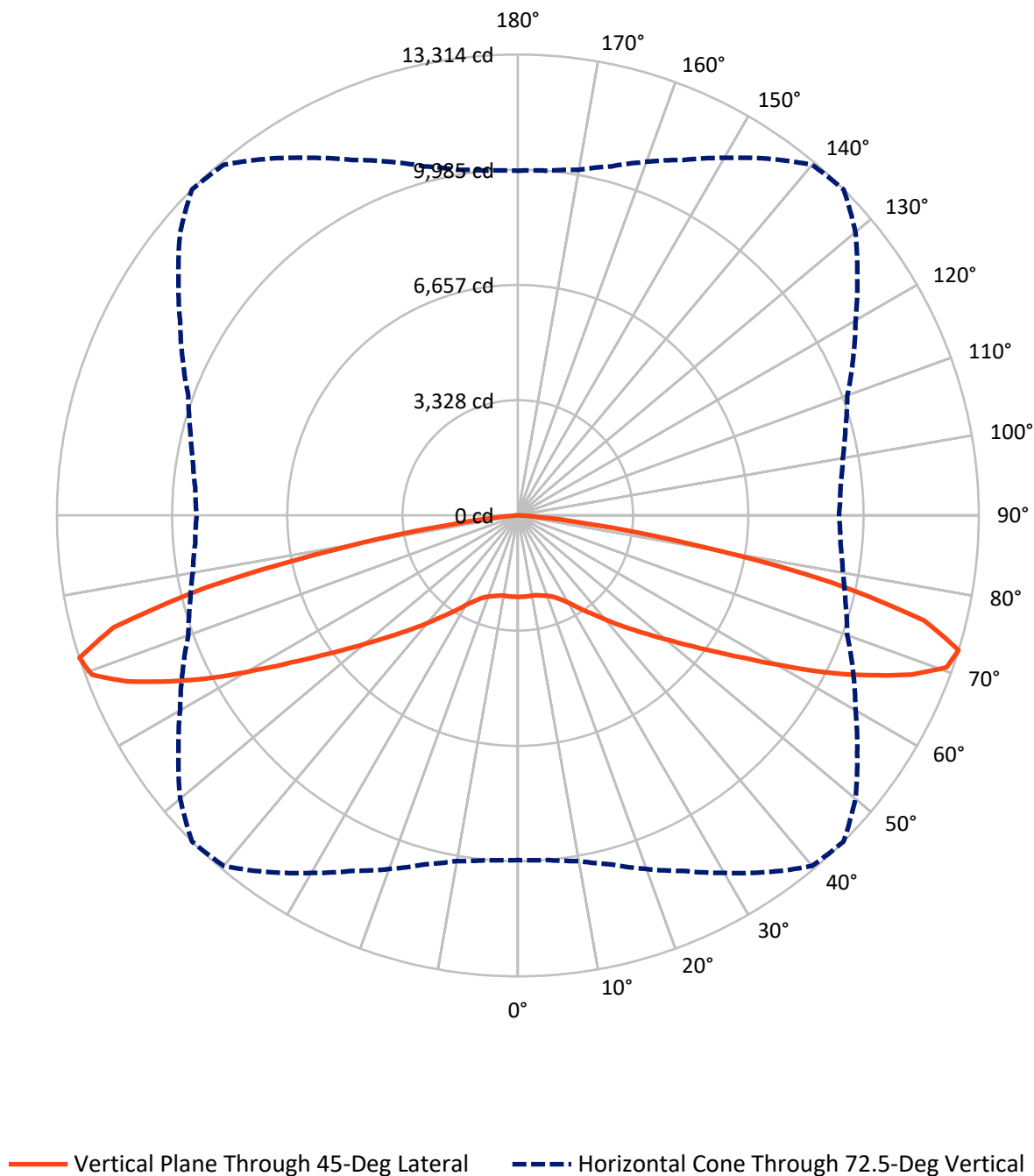


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16623.3	0.0	16623.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16623.3	0.0	16623.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	33246.5	0.0	33246.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	0.7
10°-20°	682.8	2.1
20°-30°	1247.7	3.8
30°-40°	2151.3	6.5
40°-50°	3677.6	11.1
50°-60°	5961.0	17.9
60°-70°	9889.1	29.7
70°-80°	8709.9	26.2
80°-90°	702.3	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°	33246.5	100.0
0°-180°	33246.5	100.0

Coefficient of Utilization



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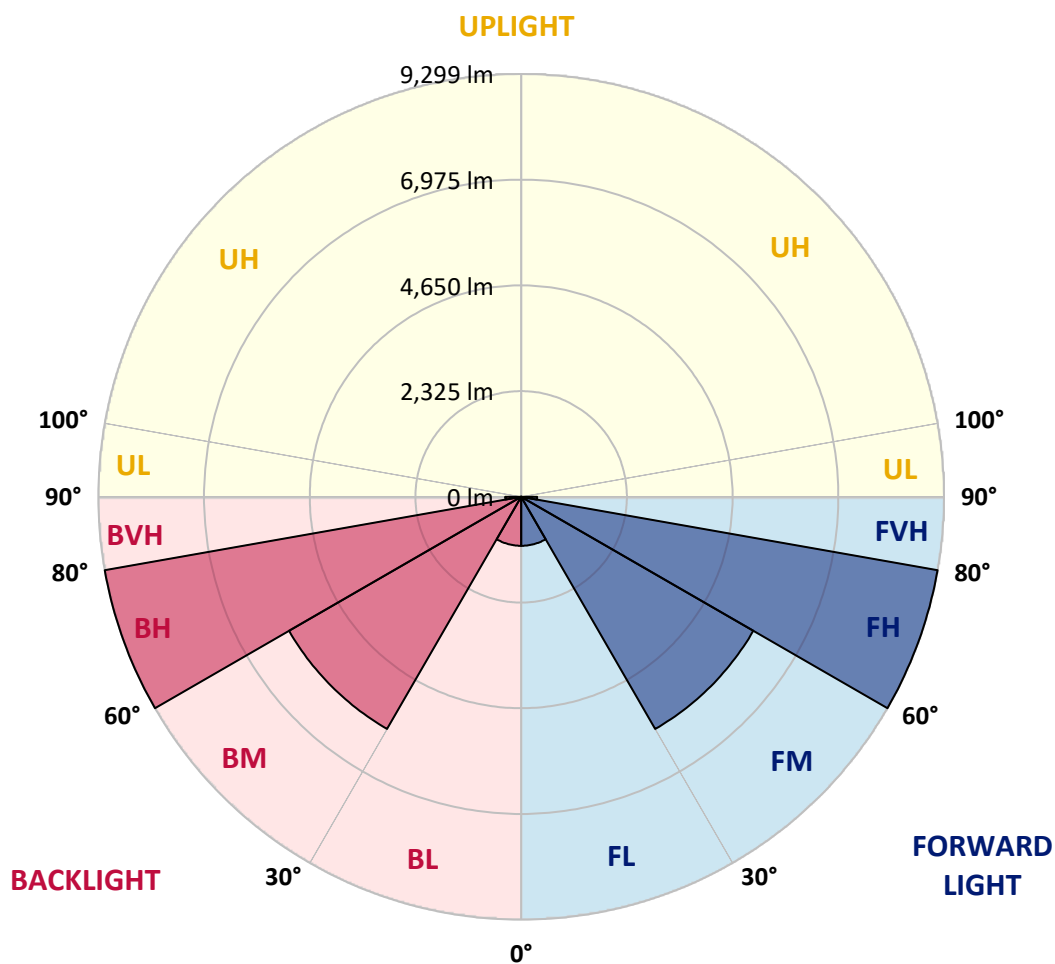
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.7	3.2			
FM	(30°-60°)	5895.0	17.7			
FH	(60°-80°)	9299.5	28.0			G4/12000
FVH	(80°-90°)	351.1	1.1			G3/500
BL	(0°-30°)	1077.7	3.2	B3/2500		
BM	(30°-60°)	5895.0	17.7	B4/8500		
BH	(60°-80°)	9299.5	28.0	B5		G4/12000
BVH	(80°-90°)	351.1	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°	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3
2.5°	2354.3	2355.8	2357.4	2355.8	2355.8	2354.3	2352.9	2354.3	2352.9	2349.8	2351.4
5°	2361.9	2365.0	2365.0	2361.9	2363.5	2361.9	2358.9	2360.4	2357.4	2352.9	2352.9
7.5°	2371.2	2372.7	2372.7	2369.7	2371.2	2368.0	2365.0	2363.5	2360.4	2354.3	2349.8
10°	2384.9	2386.4	2384.9	2381.9	2381.9	2377.3	2369.7	2366.5	2360.4	2351.4	2346.8
12.5°	2400.1	2401.6	2400.1	2397.0	2395.5	2387.9	2381.9	2377.3	2372.7	2365.0	2357.4
15°	2421.5	2424.5	2421.5	2415.4	2410.8	2404.7	2401.6	2403.1	2404.7	2398.6	2390.9
17.5°	2461.1	2462.6	2458.0	2444.3	2438.2	2432.1	2432.1	2435.2	2439.8	2436.7	2429.1
20°	2534.3	2529.7	2519.1	2502.2	2494.6	2484.0	2482.5	2484.0	2484.0	2482.5	2476.4
22.5°	2625.8	2622.8	2609.0	2587.7	2577.0	2570.9	2561.8	2554.2	2552.7	2548.0	2541.9
25°	2735.7	2734.1	2717.3	2699.0	2691.4	2683.7	2676.1	2665.5	2656.3	2645.6	2639.4
27.5°	2875.8	2869.8	2845.3	2836.3	2825.6	2821.0	2810.2	2798.1	2790.5	2776.8	2769.1
30°	3029.9	3029.9	3010.1	3007.1	3007.1	2996.3	2984.1	2962.8	2949.0	2935.4	2930.8
32.5°	3184.0	3185.5	3165.6	3171.7	3176.2	3184.0	3187.0	3179.3	3170.1	3168.6	3159.4
35°	3406.4	3400.3	3380.6	3385.2	3383.6	3382.1	3382.1	3398.8	3401.9	3404.9	3386.7
37.5°	3682.5	3682.5	3662.7	3662.7	3653.5	3644.4	3632.3	3642.8	3659.6	3664.2	3652.0
40°	3998.2	4008.8	3984.4	3982.9	3986.0	3957.0	3943.2	3960.0	3970.7	3989.0	3975.3
42.5°	4370.3	4362.6	4338.2	4335.2	4318.4	4309.1	4297.0	4310.8	4327.5	4339.8	4344.2
45°	4727.0	4721.0	4693.4	4693.4	4676.8	4669.0	4675.2	4698.0	4705.7	4722.5	4739.2
47.5°	5079.3	5071.7	5053.3	5061.0	5062.5	5076.1	5096.1	5117.3	5138.8	5161.6	5169.3
50°	5439.2	5440.7	5420.8	5439.2	5462.0	5500.1	5553.5	5588.6	5632.8	5661.9	5670.9
52.5°	5767.0	5773.0	5794.4	5837.1	5882.8	5957.6	6049.0	6134.5	6207.7	6256.5	6253.5
55°	6160.4	6169.6	6221.4	6294.5	6369.3	6482.2	6617.9	6768.8	6890.8	6960.9	6916.7
57.5°	6663.6	6683.4	6741.4	6840.5	6951.8	7098.1	7284.2	7511.5	7700.5	7795.0	7723.3
60°	7354.4	7366.6	7436.7	7546.5	7680.7	7862.1	8110.7	8415.7	8682.5	8807.5	8725.2
62.5°	8264.7	8287.6	8344.0	8455.2	8592.5	8798.4	9101.9	9483.0	9815.5	9989.2	9803.3
65°	9351.9	9425.1	9472.3	9585.2	9713.2	9931.3	10248.5	10657.1	11014.0	11128.4	10913.4
67.5°	10428.5	10492.5	10574.8	10704.4	10834.0	11079.6	11373.9	11770.3	12162.2	12265.9	11931.9
70°	10899.6	10936.2	11064.3	11241.2	11489.7	11779.5	12119.5	12564.9	13049.7	13135.0	12711.1
72.5°	9955.7	9992.3	10135.7	10436.1	10869.1	11329.6	11922.8	12577.0	13217.4	13313.5	12729.5
75°	7529.7	7470.3	7682.2	8080.2	8664.1	9306.1	10135.7	11073.4	11999.1	12119.5	11422.6
77.5°	3891.4	3883.8	4043.9	4538.0	5234.8	5965.2	6878.6	7938.3	8844.1	9210.1	8642.9
80°	1096.4	1108.6	1184.8	1430.3	1837.4	2365.0	3078.7	4071.3	4812.5	5190.6	4873.4
82.5°	430.1	463.6	492.5	538.3	591.6	669.4	893.5	1329.6	1784.1	2131.7	1746.0
85°	154.0	164.7	233.3	276.0	280.6	295.9	336.9	393.5	474.1	565.8	465.1
87.5°	57.9	64.0	74.8	123.5	122.1	111.3	135.7	141.8	106.7	97.6	120.5
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°	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3	2354.3
2.5°	2348.3	2349.8	2349.8	2351.4	2352.9	2352.9	2355.8	2355.8
5°	2349.8	2349.8	2346.8	2348.3	2346.8	2346.8	2348.3	2348.3
7.5°	2346.8	2345.2	2342.2	2340.7	2337.6	2337.6	2337.6	2337.6
10°	2342.2	2340.7	2337.6	2336.1	2334.6	2334.6	2334.6	2334.6
12.5°	2354.3	2349.8	2346.8	2345.2	2345.2	2345.2	2345.2	2345.2
15°	2386.4	2375.8	2368.0	2368.0	2369.7	2372.7	2372.7	2375.8
17.5°	2426.0	2413.9	2406.2	2400.1	2403.1	2407.7	2410.8	2413.9
20°	2473.3	2467.2	2456.5	2450.4	2450.4	2456.5	2459.5	2461.1
22.5°	2538.8	2534.3	2529.7	2522.1	2522.1	2525.2	2531.2	2531.2
25°	2636.4	2633.3	2630.4	2624.3	2622.8	2622.8	2625.8	2628.9
27.5°	2758.5	2760.0	2756.9	2755.4	2750.8	2749.3	2753.9	2752.3
30°	2921.6	2929.2	2936.9	2930.8	2923.1	2918.6	2914.0	2907.9
32.5°	3142.8	3133.5	3127.4	3116.8	3103.1	3090.8	3081.7	3071.1
35°	3351.6	3336.3	3330.2	3339.4	3337.9	3330.2	3319.7	3310.4
37.5°	3607.8	3604.8	3607.8	3624.5	3621.5	3629.1	3607.8	3606.3
40°	3931.0	3934.1	3955.5	3975.3	3986.0	3996.6	3984.4	3972.2
42.5°	4306.1	4304.7	4312.3	4339.8	4358.1	4370.3	4344.2	4341.2
45°	4702.6	4691.9	4698.0	4721.0	4739.2	4753.0	4724.0	4724.0
47.5°	5138.8	5120.4	5100.7	5126.6	5137.3	5146.3	5123.5	5115.8
50°	5625.2	5587.1	5544.4	5555.1	5555.1	5552.0	5523.0	5521.5
52.5°	6183.3	6113.2	6035.4	6006.4	5989.6	5971.3	5921.0	5896.6
55°	6825.2	6720.0	6598.0	6523.4	6483.7	6433.3	6349.5	6326.6
57.5°	7575.5	7410.7	7200.3	7108.9	7020.5	6938.1	6845.1	6819.1
60°	8464.5	8222.0	7942.9	7773.7	7677.6	7598.3	7502.3	7497.7
62.5°	9455.7	9072.9	8757.2	8604.7	8534.6	8464.5	8373.0	8385.1
65°	10463.5	10064.0	9768.3	9644.7	9579.1	9521.2	9429.6	9443.4
67.5°	11457.7	11090.3	10765.5	10638.9	10565.7	10492.5	10410.1	10423.9
70°	12171.4	11715.5	11349.5	11068.8	10893.4	10695.3	10567.2	10535.3
72.5°	11967.0	11264.1	10683.2	10126.4	9800.2	9534.8	9355.0	9277.2
75°	10356.8	9396.1	8649.0	7965.8	7581.6	7268.9	7041.8	6899.9
77.5°	7691.3	6611.8	5728.9	4942.1	4319.9	3902.0	3607.8	3417.2
80°	4210.1	3202.2	2340.7	1645.3	1209.2	1004.8	887.5	831.0
82.5°	1311.3	846.3	623.7	538.3	500.2	478.8	443.7	387.4
85°	417.8	366.0	340.1	324.8	309.5	269.9	186.1	169.3
87.5°	161.6	166.2	164.7	155.5	158.5	114.4	91.4	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)