

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: P299978

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299978
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: GLNA-AF-08-LED-E1-5WQ-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31906.5 lumens
Efficiency: N/A
Efficacy: 124.1 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

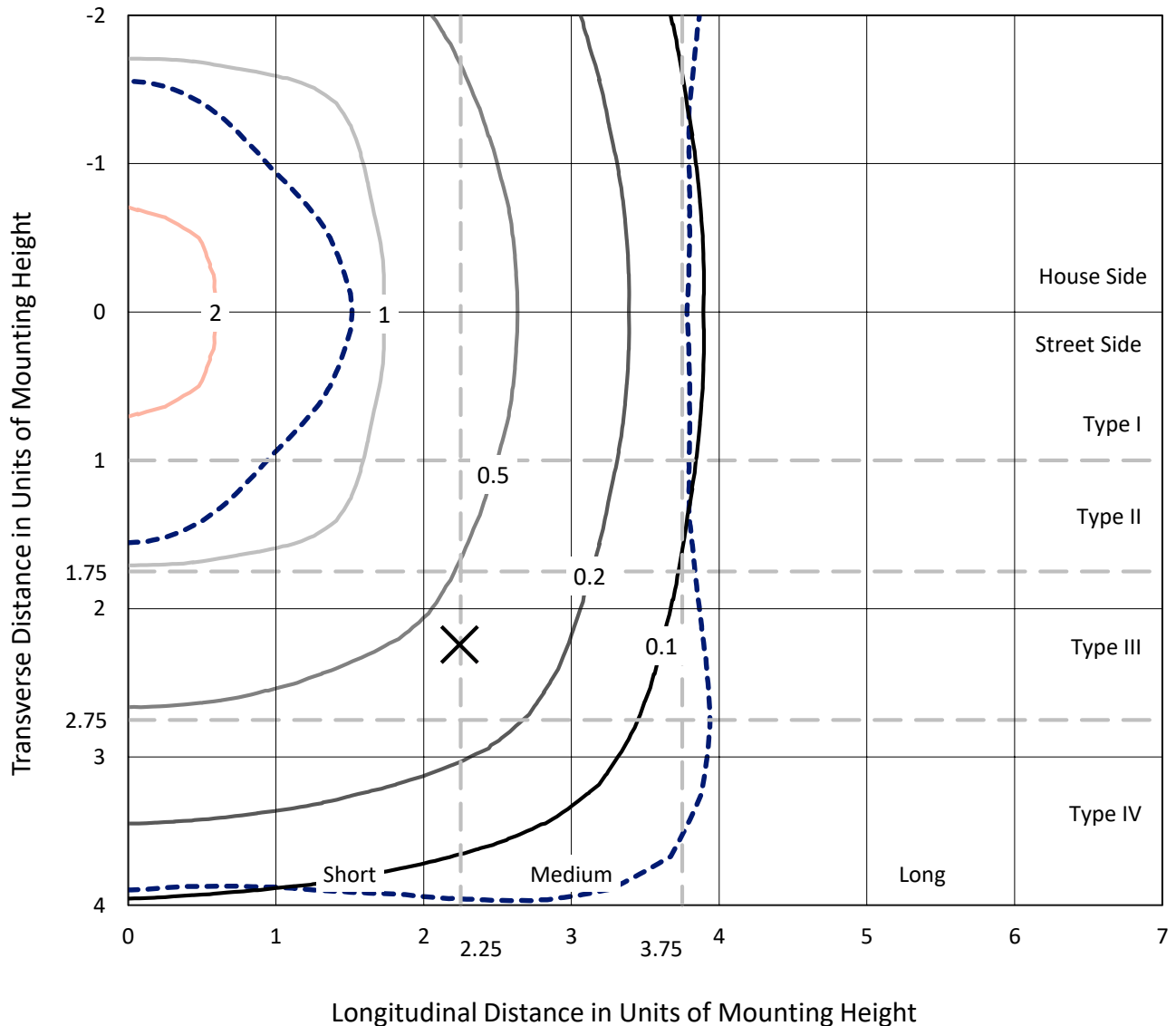


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

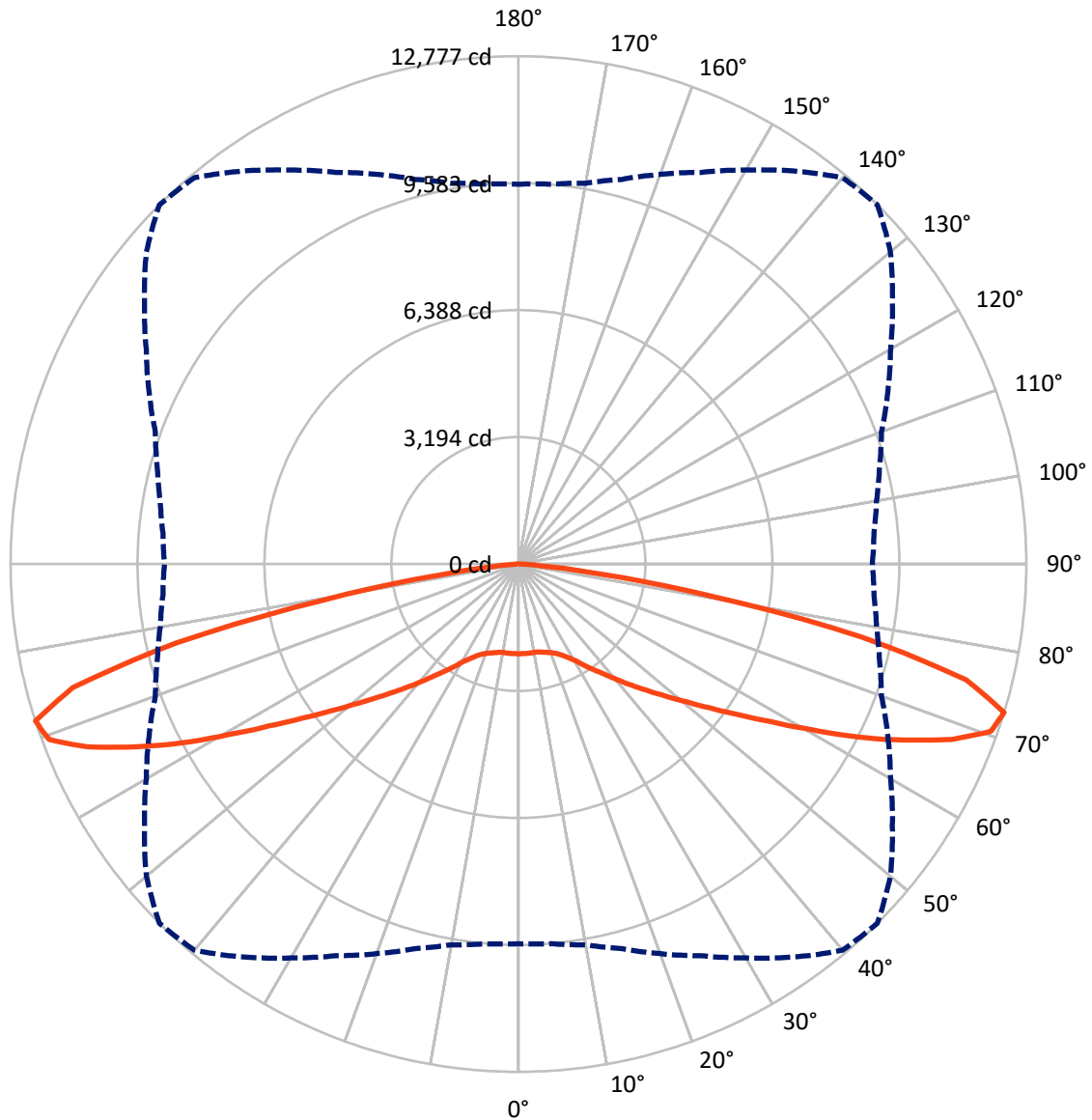


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15953.3	0.0	15953.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15953.3	0.0	15953.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	31906.5	0.0	31906.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	0.7
10°-20°	655.3	2.1
20°-30°	1197.4	3.8
30°-40°	2064.6	6.5
40°-50°	3529.4	11.1
50°-60°	5720.7	17.9
60°-70°	9490.5	29.7
70°-80°	8358.9	26.2
80°-90°	674.0	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°	31906.5	100.0
0°-180°	31906.5	100.0



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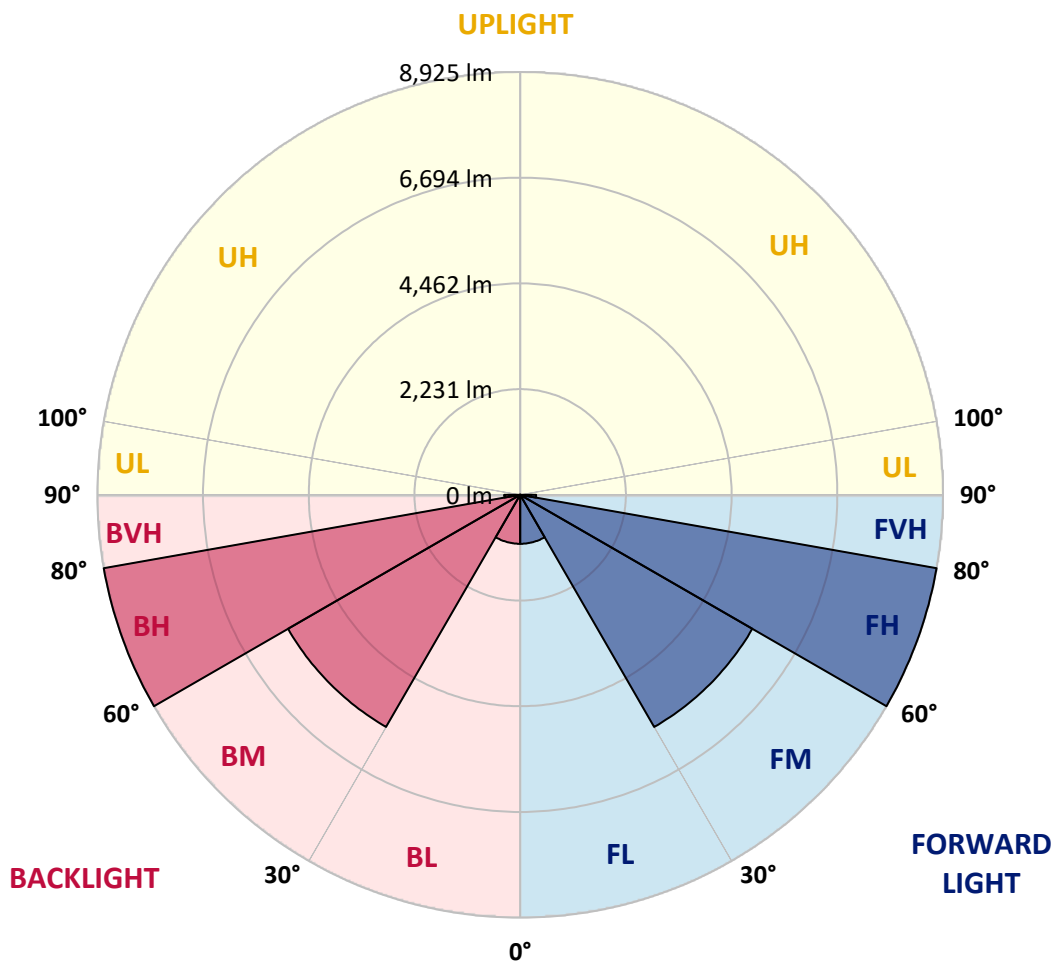
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.2	3.2			
FM	(30°-60°)	5657.4	17.7			
FH	(60°-80°)	8924.7	28.0			G4/12000
FVH	(80°-90°)	337.0	1.1			G3/500
BL	(0°-30°)	1034.2	3.2	B3/2500		
BM	(30°-60°)	5657.4	17.7	B4/8500		
BH	(60°-80°)	8924.7	28.0	B5		G4/12000
BVH	(80°-90°)	337.0	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°	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2259.5	2260.9	2262.4	2260.9	2260.9	2259.5	2258.0	2259.5	2258.0	2255.1	2256.6
5°	2266.8	2269.7	2269.7	2266.8	2268.3	2266.8	2263.9	2265.3	2262.4	2258.0	2258.0
7.5°	2275.6	2277.0	2277.0	2274.1	2275.6	2272.6	2269.7	2268.3	2265.3	2259.5	2255.1
10°	2288.7	2290.2	2288.7	2285.8	2285.8	2281.4	2274.1	2271.2	2265.3	2256.6	2252.2
12.5°	2303.4	2304.8	2303.4	2300.5	2299.0	2291.7	2285.8	2281.4	2277.0	2269.7	2262.4
15°	2323.9	2326.8	2323.9	2318.0	2313.6	2307.8	2304.8	2306.3	2307.8	2301.9	2294.6
17.5°	2361.9	2363.4	2359.0	2345.8	2340.0	2334.1	2334.1	2337.0	2341.4	2338.5	2331.2
20°	2432.2	2427.8	2417.5	2401.4	2394.1	2383.9	2382.4	2383.9	2383.9	2382.4	2376.5
22.5°	2520.0	2517.0	2503.9	2483.4	2473.1	2467.3	2458.5	2451.2	2449.7	2445.3	2439.5
25°	2625.3	2623.9	2607.8	2590.2	2582.9	2575.6	2568.3	2558.0	2549.2	2539.0	2533.1
27.5°	2760.0	2754.1	2730.7	2721.9	2711.7	2707.3	2697.0	2685.3	2678.0	2664.8	2657.5
30°	2907.8	2907.8	2888.7	2885.8	2885.8	2875.6	2863.9	2843.4	2830.2	2817.0	2812.6
32.5°	3055.6	3057.0	3038.0	3043.9	3048.2	3055.6	3058.5	3051.2	3042.4	3040.9	3032.1
35°	3269.2	3263.4	3244.3	3248.7	3247.3	3245.8	3245.8	3261.9	3264.8	3267.8	3250.2
37.5°	3534.1	3534.1	3515.1	3515.1	3506.3	3497.5	3485.8	3496.0	3512.1	3516.5	3504.8
40°	3837.0	3847.3	3823.8	3822.4	3825.3	3797.5	3784.3	3800.4	3810.7	3828.2	3815.1
42.5°	4194.1	4186.8	4163.4	4160.4	4144.3	4135.5	4123.8	4137.0	4153.1	4164.8	4169.2
45°	4536.5	4530.7	4504.3	4504.3	4488.2	4480.9	4486.8	4508.7	4516.0	4532.1	4548.2
47.5°	4874.6	4867.2	4849.7	4857.0	4858.5	4871.6	4890.7	4911.1	4931.6	4953.6	4960.9
50°	5219.9	5221.4	5202.4	5219.9	5241.9	5278.5	5329.7	5363.3	5405.8	5433.6	5442.4
52.5°	5534.5	5540.4	5560.9	5601.9	5645.8	5717.5	5805.3	5887.2	5957.5	6004.3	6001.4
55°	5912.1	5920.9	5970.6	6040.9	6112.6	6220.9	6351.1	6496.0	6613.1	6680.4	6637.9
57.5°	6395.0	6414.0	6469.7	6564.8	6671.6	6812.1	6990.6	7208.7	7390.1	7480.9	7412.1
60°	7057.9	7069.6	7137.0	7242.3	7371.1	7545.3	7783.8	8076.5	8332.6	8452.6	8373.5
62.5°	7931.6	7953.5	8007.7	8114.5	8246.2	8443.8	8735.0	9100.8	9419.9	9586.7	9408.1
65°	8975.0	9045.2	9090.6	9198.9	9321.8	9531.1	9835.5	10227.6	10570.1	10679.8	10473.5
67.5°	10008.1	10069.6	10148.6	10273.0	10397.4	10633.0	10915.4	11295.9	11672.0	11771.5	11451.0
70°	10460.3	10495.4	10618.4	10788.1	11026.7	11304.7	11631.0	12058.4	12523.7	12605.7	12198.8
72.5°	9554.5	9589.6	9727.2	10015.5	10431.1	10873.0	11442.3	12070.1	12684.7	12776.9	12216.4
75°	7226.2	7169.2	7372.6	7754.5	8315.0	8931.1	9727.2	10627.2	11515.4	11631.0	10962.3
77.5°	3734.6	3727.3	3880.9	4355.1	5023.8	5724.8	6601.4	7618.4	8487.7	8838.9	8294.5
80°	1052.2	1063.9	1137.1	1372.7	1763.4	2269.7	2954.6	3907.3	4618.5	4981.4	4677.0
82.5°	412.7	444.9	472.7	516.6	567.8	642.4	857.5	1276.1	1712.2	2045.8	1675.6
85°	147.8	158.0	223.9	264.9	269.3	283.9	323.4	377.6	455.1	542.9	446.3
87.5°	55.6	61.5	71.7	118.5	117.1	106.8	130.2	136.1	102.4	93.7	115.6
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°	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2253.6	2255.1	2255.1	2256.6	2258.0	2258.0	2260.9	2260.9
5°	2255.1	2255.1	2252.2	2253.6	2252.2	2252.2	2253.6	2253.6
7.5°	2252.2	2250.7	2247.8	2246.3	2243.4	2243.4	2243.4	2243.4
10°	2247.8	2246.3	2243.4	2241.9	2240.5	2240.5	2240.5	2240.5
12.5°	2259.5	2255.1	2252.2	2250.7	2250.7	2250.7	2250.7	2250.7
15°	2290.2	2280.0	2272.6	2272.6	2274.1	2277.0	2277.0	2280.0
17.5°	2328.3	2316.5	2309.2	2303.4	2306.3	2310.7	2313.6	2316.5
20°	2373.6	2367.8	2357.5	2351.7	2351.7	2357.5	2360.5	2361.9
22.5°	2436.5	2432.2	2427.8	2420.5	2420.5	2423.4	2429.2	2429.2
25°	2530.2	2527.3	2524.4	2518.5	2517.0	2517.0	2520.0	2522.9
27.5°	2647.3	2648.7	2645.8	2644.3	2640.0	2638.5	2642.9	2641.4
30°	2803.9	2811.2	2818.5	2812.6	2805.3	2800.9	2796.5	2790.7
32.5°	3016.1	3007.3	3001.4	2991.2	2978.0	2966.3	2957.5	2947.3
35°	3216.5	3201.9	3196.0	3204.8	3203.4	3196.0	3185.8	3177.0
37.5°	3462.4	3459.5	3462.4	3478.5	3475.6	3482.9	3462.4	3460.9
40°	3772.6	3775.6	3796.0	3815.1	3825.3	3835.6	3823.8	3812.1
42.5°	4132.6	4131.2	4138.5	4164.8	4182.4	4194.1	4169.2	4166.3
45°	4513.1	4502.9	4508.7	4530.7	4548.2	4561.4	4533.6	4533.6
47.5°	4931.6	4914.1	4895.0	4919.9	4930.2	4938.9	4917.0	4909.7
50°	5398.5	5361.9	5320.9	5331.1	5331.1	5328.2	5300.4	5298.9
52.5°	5934.1	5866.7	5792.1	5764.3	5748.2	5730.6	5682.4	5658.9
55°	6550.1	6449.2	6332.1	6260.4	6222.3	6174.1	6093.6	6071.6
57.5°	7270.1	7112.1	6910.1	6822.3	6737.5	6658.4	6569.2	6544.3
60°	8123.3	7890.6	7622.8	7460.4	7368.2	7292.1	7199.9	7195.5
62.5°	9074.5	8707.2	8404.3	8257.9	8190.6	8123.3	8035.5	8047.2
65°	10041.8	9658.4	9374.5	9256.0	9193.0	9137.4	9049.6	9062.8
67.5°	10995.9	10643.3	10331.5	10210.1	10139.8	10069.6	9990.6	10003.7
70°	11680.8	11243.2	10892.0	10622.8	10454.5	10264.2	10141.3	10110.6
72.5°	11484.7	10810.1	10252.5	9718.4	9405.2	9150.6	8977.9	8903.3
75°	9939.4	9017.4	8300.4	7644.8	7276.0	6976.0	6757.9	6621.8
77.5°	7381.4	6345.3	5498.0	4742.9	4145.8	3744.8	3462.4	3279.5
80°	4040.4	3073.1	2246.3	1579.0	1160.5	964.4	851.7	797.5
82.5°	1258.5	812.2	598.5	516.6	480.0	459.5	425.8	371.7
85°	401.0	351.2	326.3	311.7	297.1	259.0	178.5	162.4
87.5°	155.1	159.5	158.0	149.3	152.2	109.8	87.8	77.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)