

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: P646922

Luminaire Tested: **GALN-SA4C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P646922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21792.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

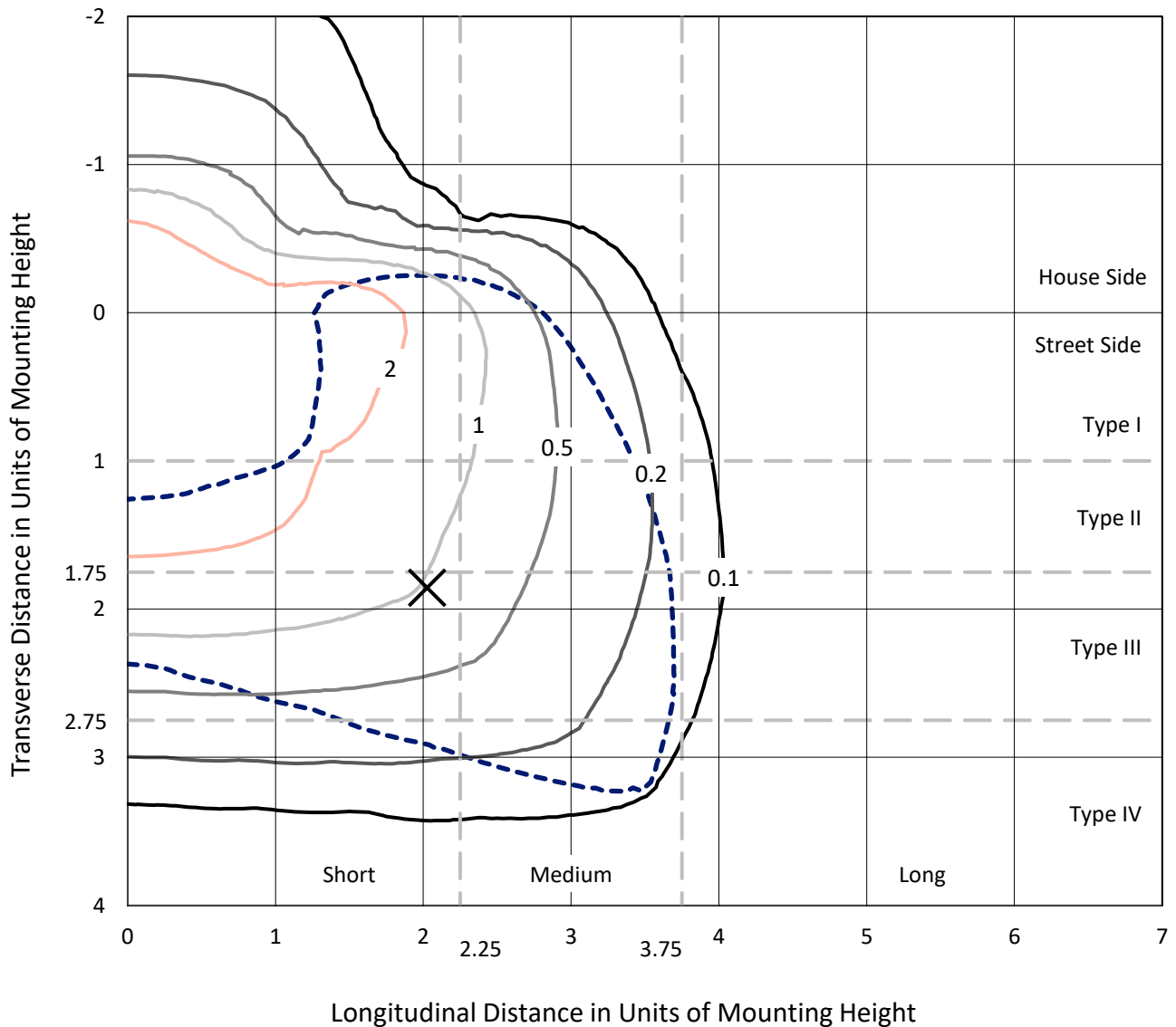
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

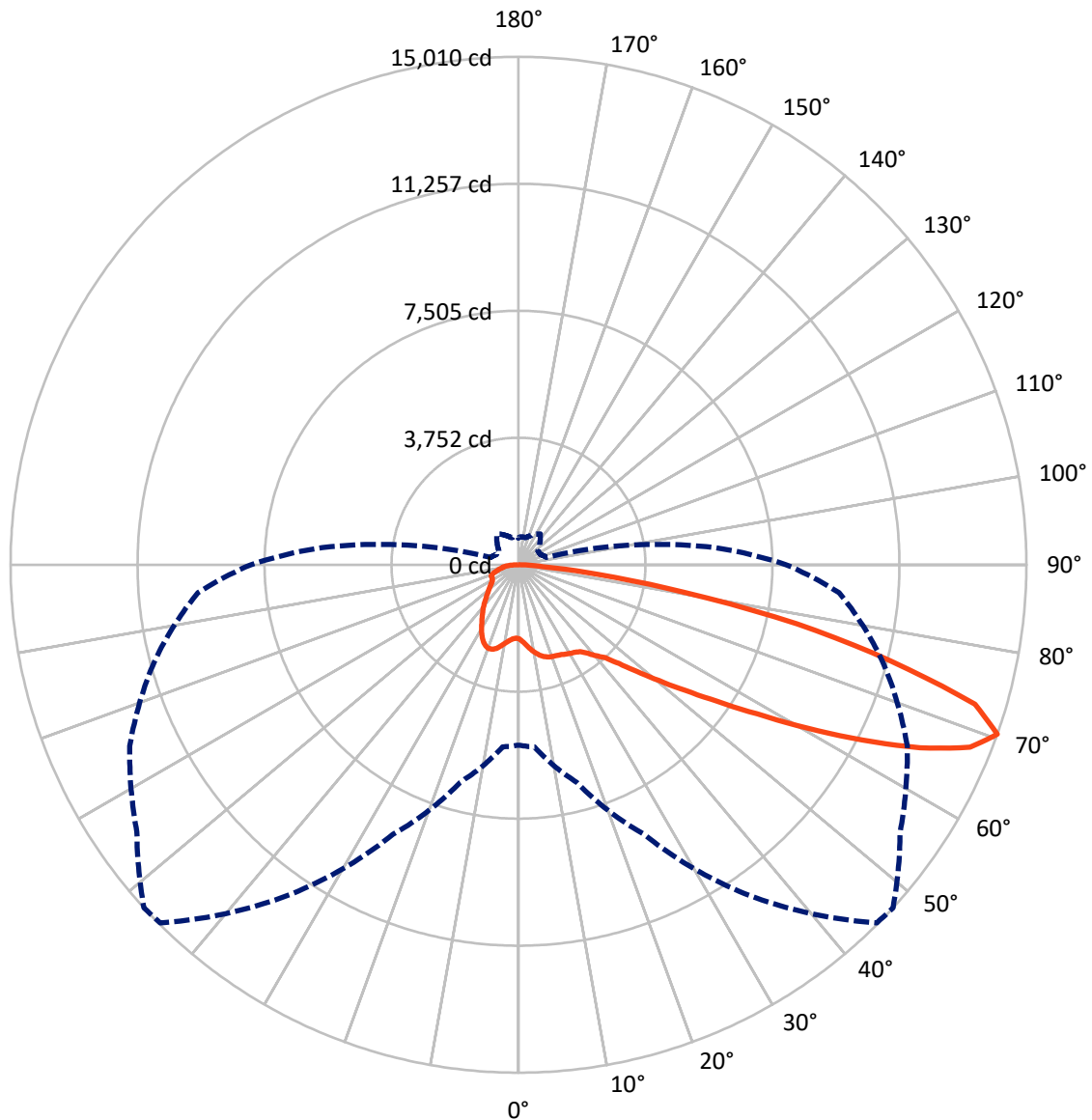
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4934.2	0.0	4934.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16858.2	0.0	16858.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	21792.5	0.0	21792.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.0
10°-20°	753.9	3.5
20°-30°	1253.7	5.8
30°-40°	1776.9	8.2
40°-50°	2623.1	12.0
50°-60°	4543.4	20.8
60°-70°	6417.7	29.4
70°-80°	3689.2	16.9
80°-90°	509.0	2.3
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°	21792.5	100.0
0°-180°	21792.5	100.0

Coefficient of Utilization



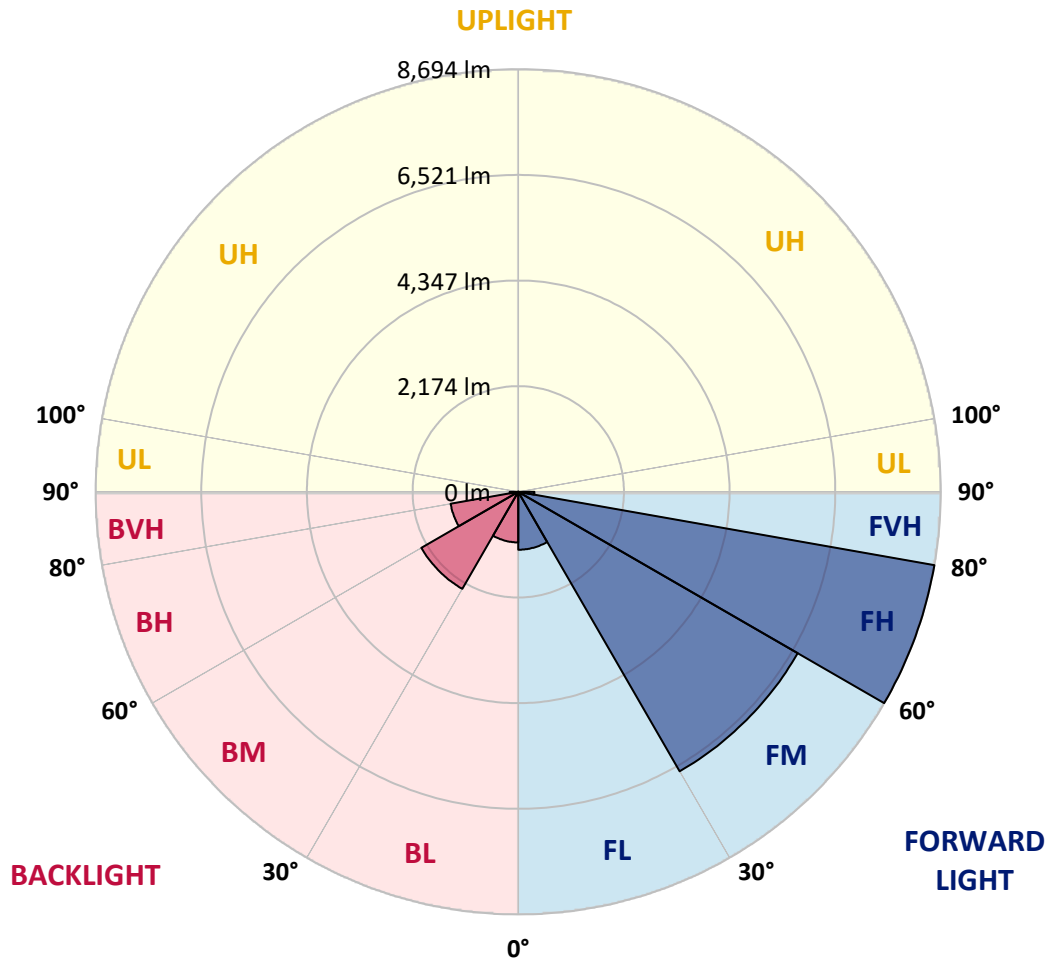
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.7	5.5			
FM (30°-60°)	6639.7	30.5			
FH (60°-80°)	8694.3	39.9			G4/12000
FVH (80°-90°)	332.5	1.5			G3/500
BL (0°-30°)	1041.4	4.8	B3/2500		
BM (30°-60°)	2303.7	10.6	B2/2500		
BH (60°-80°)	1412.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7
2.5°	2328.8	2320.7	2319.5	2302.0	2292.6	2275.2	2268.2	2251.8	2232.0	2212.2	2193.5
5°	2511.9	2511.9	2503.7	2479.2	2440.8	2401.1	2383.6	2352.1	2296.1	2250.7	2212.2
7.5°	2699.6	2702.0	2685.6	2649.5	2594.7	2530.6	2514.2	2467.5	2388.3	2321.8	2264.7
10°	2861.7	2861.7	2839.5	2790.6	2721.8	2651.9	2635.5	2583.0	2494.4	2411.6	2336.9
12.5°	2985.3	2985.3	2956.2	2892.1	2817.4	2754.4	2735.8	2685.6	2602.8	2510.7	2416.3
15°	3065.8	3060.0	3027.3	2955.0	2882.7	2827.9	2815.1	2773.1	2697.3	2604.0	2497.9
17.5°	3069.3	3067.0	3035.5	2974.9	2911.9	2874.5	2866.4	2838.4	2778.9	2690.3	2578.3
20°	3001.7	3006.3	2985.3	2942.2	2911.9	2895.5	2892.1	2882.7	2840.7	2758.0	2646.0
22.5°	2929.4	2937.5	2917.7	2894.4	2892.1	2908.4	2910.7	2913.1	2886.2	2805.7	2703.2
25°	2911.9	2917.7	2897.9	2876.9	2889.7	2932.9	2942.2	2951.5	2930.5	2862.9	2770.8
27.5°	3000.5	2995.8	2957.4	2911.9	2920.0	2978.4	2991.2	3001.7	2991.2	2932.9	2854.7
30°	3251.3	3236.1	3159.1	3026.1	2984.2	3025.0	3037.8	3067.0	3067.0	3023.9	2945.7
32.5°	3671.0	3641.9	3500.8	3239.6	3093.8	3069.3	3082.1	3130.0	3154.5	3120.6	3035.5
35°	4180.7	4150.4	3948.6	3597.6	3294.4	3157.9	3154.5	3208.1	3273.4	3197.6	3086.8
37.5°	4692.6	4661.1	4418.5	4024.4	3587.1	3344.5	3323.5	3342.2	3370.2	3231.4	3157.9
40°	5204.5	5167.3	4955.0	4501.3	3945.1	3591.8	3537.0	3453.0	3441.3	3342.2	3295.6
42.5°	5711.8	5678.0	5570.7	5036.6	4374.2	3833.2	3749.2	3604.5	3648.9	3589.4	3548.6
45°	6223.8	6226.1	6111.8	5637.2	4892.0	4278.6	4165.5	3939.3	4044.2	4022.0	4045.4
47.5°	6677.3	6671.6	6630.8	6220.2	5534.6	4852.3	4706.6	4444.2	4623.8	4705.4	4883.8
50°	7117.0	7113.6	7115.8	6881.5	6280.9	5534.6	5373.7	5098.4	5503.1	5786.4	6106.0
52.5°	7746.8	7766.6	7625.5	7563.6	7188.2	6340.3	6163.1	5878.6	6542.1	6988.7	7612.6
55°	8378.8	8362.4	8251.7	8315.9	8137.4	7294.3	7108.9	6882.6	7698.9	8187.5	9125.2
57.5°	8750.8	8756.6	8869.7	9183.4	9309.4	8483.7	8315.9	8140.9	8999.2	9345.6	10470.9
60°	9085.5	9112.3	9437.7	10030.1	10371.8	9945.0	9795.6	9625.4	10192.2	10329.8	11639.4
62.5°	9190.5	9273.2	9841.1	10727.4	11407.3	11593.9	11408.5	11032.9	11328.0	11274.3	12431.1
65°	8666.9	8779.9	9798.0	10988.6	12332.0	13158.9	13041.1	12343.7	12295.9	11972.9	12560.7
67.5°	7288.5	7401.5	8708.8	10440.5	12714.6	14513.9	14396.2	13300.0	12883.6	12038.2	11581.0
70°	5332.8	5404.0	6654.1	8790.4	11946.1	14968.7	15009.6	13766.4	12673.7	11150.7	9508.8
72.5°	3072.8	3230.3	4106.1	6184.1	9759.5	13818.9	14102.3	12796.2	11346.7	9302.4	6648.2
75°	1321.2	1324.8	1898.5	3411.0	6609.8	11107.6	11381.6	10607.3	8910.5	6432.5	3549.7
77.5°	628.6	640.2	835.0	1523.0	3638.4	7674.4	8413.8	7493.7	5699.0	3090.3	1341.0
80°	408.2	416.3	510.8	755.7	1784.2	4450.0	4965.5	4322.9	2514.2	1104.3	578.4
82.5°	247.2	249.5	341.7	461.8	981.9	2015.1	2375.5	1876.3	1072.9	661.2	340.5
85°	150.4	151.6	207.6	285.7	595.9	696.2	714.9	709.0	629.7	432.6	181.9
87.5°	72.3	74.6	107.3	135.3	234.4	215.7	204.0	236.7	297.4	233.3	78.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7	2187.7
2.5°	2185.4	2181.9	2173.7	2170.2	2167.9	2169.1	2167.9	2167.9	2169.1	2169.1	2169.1
5°	2195.8	2190.1	2177.2	2177.2	2184.2	2200.5	2215.7	2227.3	2240.2	2239.0	2239.0
7.5°	2241.3	2230.8	2215.7	2220.4	2237.8	2263.5	2290.4	2316.0	2341.6	2344.0	2342.8
10°	2307.8	2297.3	2281.0	2286.8	2314.8	2353.3	2387.1	2424.4	2452.4	2460.6	2458.2
12.5°	2383.6	2362.6	2348.6	2365.0	2409.3	2460.6	2493.2	2521.2	2541.1	2552.7	2548.0
15°	2460.6	2440.8	2424.4	2458.2	2511.9	2559.7	2576.0	2580.7	2584.2	2595.9	2593.5
17.5°	2535.2	2508.4	2502.5	2546.9	2598.2	2619.2	2609.8	2590.0	2574.9	2584.2	2583.0
20°	2601.7	2580.7	2578.3	2622.7	2642.5	2622.7	2583.0	2548.0	2521.2	2523.5	2522.4
22.5°	2664.6	2648.3	2650.7	2669.3	2637.8	2570.2	2504.9	2457.1	2427.9	2433.7	2437.2
25°	2734.6	2718.3	2724.1	2693.8	2590.0	2472.2	2377.8	2336.9	2325.3	2336.9	2345.2
27.5°	2825.6	2815.1	2811.6	2695.0	2504.9	2327.6	2220.4	2205.2	2215.7	2241.3	2254.2
30°	2923.6	2923.6	2904.9	2675.1	2388.3	2153.9	2060.6	2062.9	2099.1	2135.2	2148.1
32.5°	3018.0	3037.8	2979.5	2621.5	2237.8	1984.8	1913.7	1916.0	1947.5	1991.8	2003.5
35°	3096.1	3153.3	3043.7	2523.5	2060.6	1842.6	1788.8	1757.4	1758.5	1792.4	1801.7
37.5°	3203.4	3309.5	3080.9	2377.8	1871.7	1721.3	1660.6	1605.8	1569.6	1555.7	1555.7
40°	3390.0	3546.3	3090.3	2162.0	1693.2	1605.8	1519.5	1454.2	1384.2	1321.2	1309.6
42.5°	3706.0	3903.1	3071.6	1913.7	1532.3	1478.7	1394.7	1314.3	1217.5	1128.9	1121.8
45°	4265.8	4367.3	3021.5	1656.0	1388.9	1356.2	1274.6	1187.1	1084.5	1005.2	999.4
47.5°	5162.6	5019.1	2955.0	1427.3	1258.3	1249.0	1186.0	1084.5	981.9	927.1	921.3
50°	6472.1	6045.3	2945.7	1261.8	1153.4	1158.0	1106.7	1013.4	923.6	878.1	871.1
52.5°	8048.8	7285.0	3007.5	1145.1	1061.2	1078.7	1053.1	966.8	887.5	848.9	842.0
55°	9578.8	8399.8	3044.9	1054.2	974.9	1007.6	1011.1	938.7	866.5	827.9	823.3
57.5°	10820.7	9239.4	2879.2	971.4	900.3	950.4	976.1	922.5	856.0	826.8	822.2
60°	11684.9	9635.9	2408.1	897.9	845.5	904.9	963.2	923.6	881.6	885.1	887.5
62.5°	11960.0	9459.8	1806.4	843.1	808.1	889.8	984.2	971.4	928.2	955.1	959.7
65°	11504.1	8732.2	1309.6	800.0	775.5	900.3	1047.2	1006.4	912.0	931.8	931.8
67.5°	9977.6	7522.8	1019.2	760.3	738.2	920.1	1110.1	1002.9	873.4	896.8	875.8
70°	7914.6	5819.1	848.9	716.1	698.5	891.0	1116.0	966.8	827.9	832.6	792.9
72.5°	5252.4	3826.1	730.0	674.0	637.9	801.2	1068.2	920.1	783.6	756.8	717.1
75°	2573.7	1907.9	636.7	621.5	558.6	697.3	1002.9	875.8	735.9	693.9	671.7
77.5°	997.1	811.7	543.4	555.1	486.3	614.6	916.6	812.8	672.8	615.8	598.2
80°	484.0	460.6	445.4	463.0	400.0	523.6	837.3	758.0	614.6	551.6	525.9
82.5°	300.8	284.5	341.7	360.3	307.9	478.1	794.1	711.4	541.1	457.1	436.1
85°	152.8	163.3	228.6	246.1	220.4	380.1	654.2	534.1	390.6	324.2	326.5
87.5°	58.3	78.1	120.1	129.4	117.8	200.6	360.3	311.4	250.7	170.2	157.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)