

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: P522741

Luminaire Tested: **GALN-SA4C-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522741  
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-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 25347 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

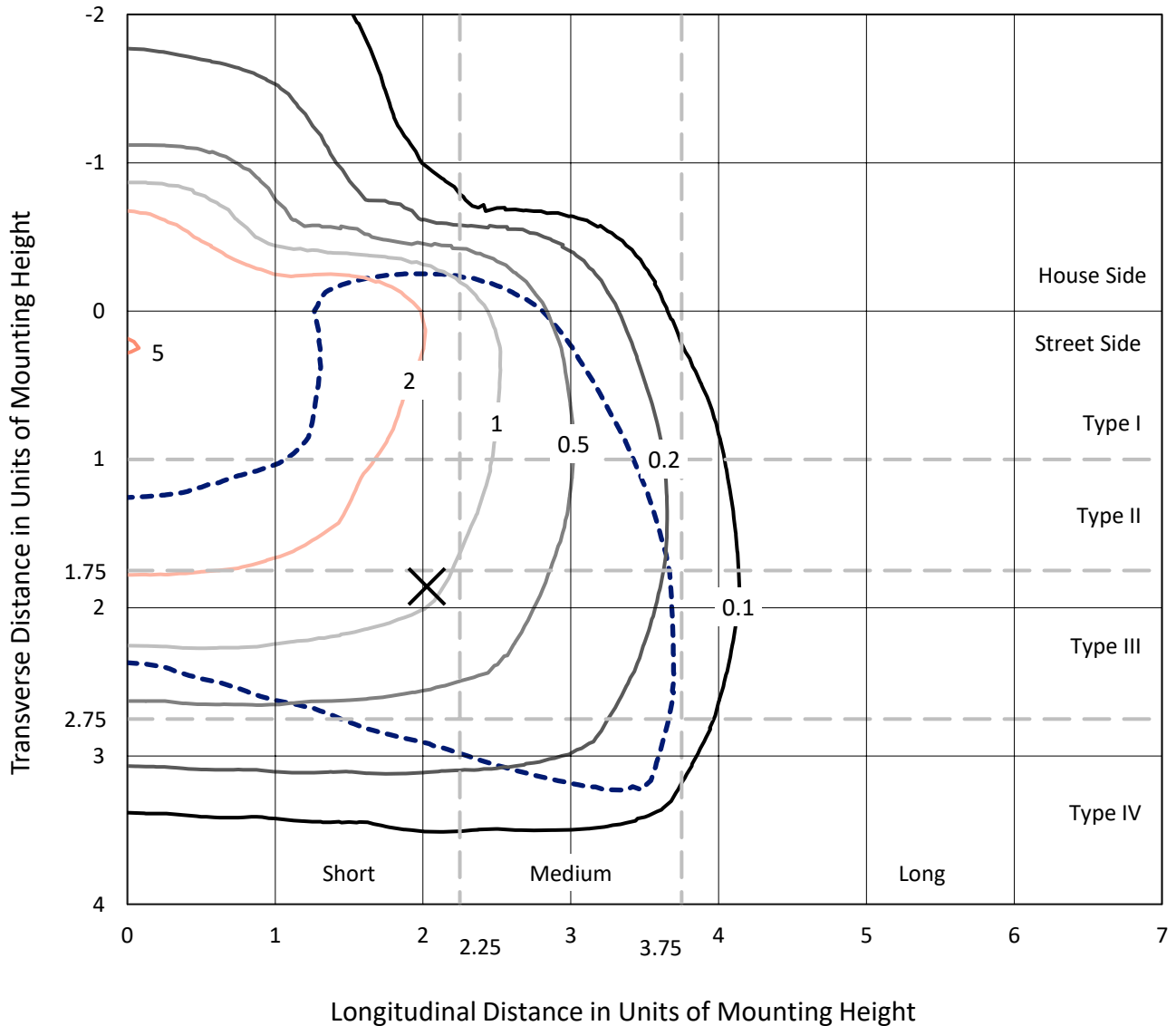
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

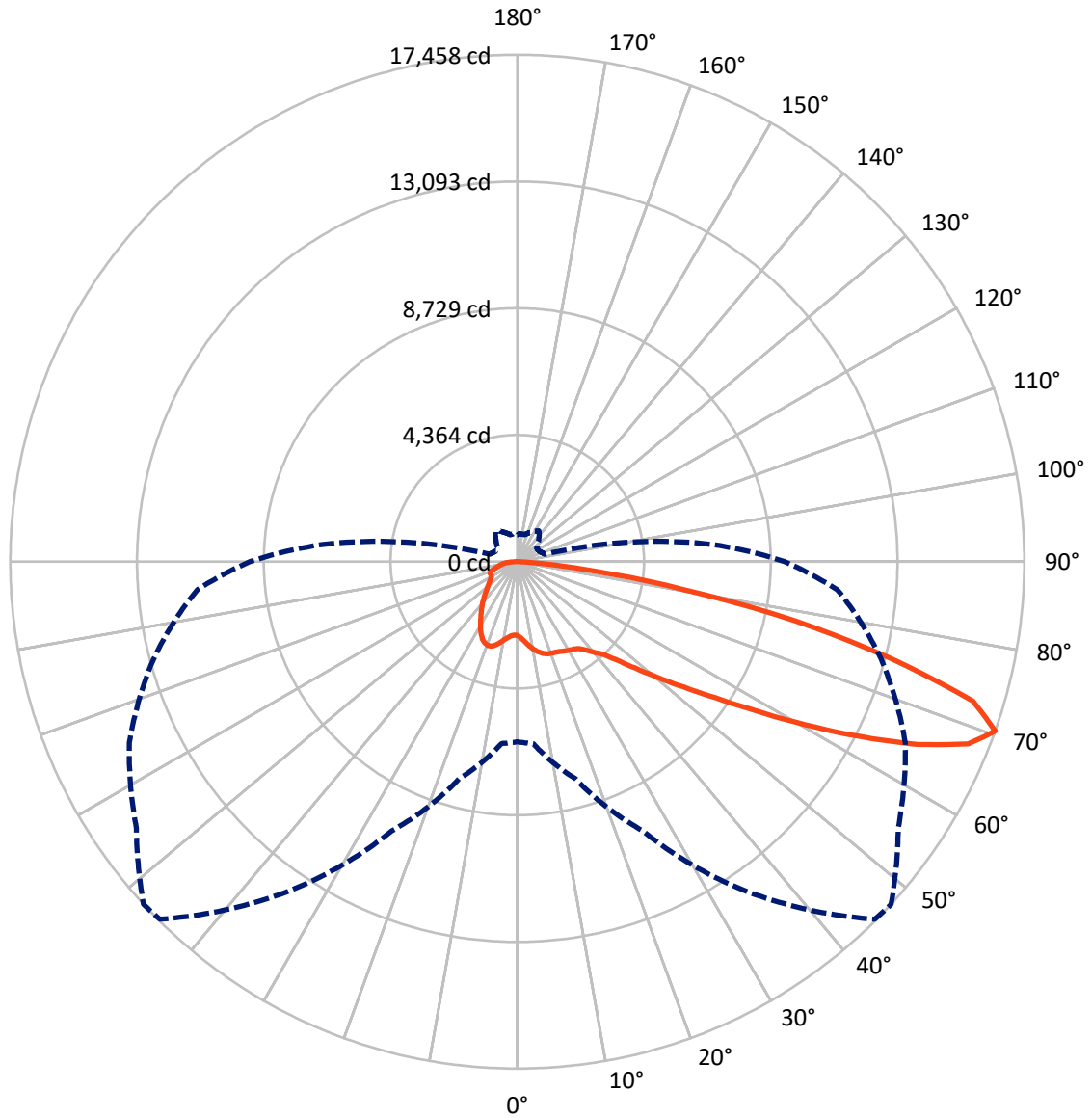
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	5739.1	0.0	5739.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	19607.9	0.0	19607.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	25347.0	0.0	25347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.3	1.0
10°-20°	876.9	3.5
20°-30°	1458.2	5.8
30°-40°	2066.8	8.2
40°-50°	3051.0	12.0
50°-60°	5284.4	20.8
60°-70°	7464.4	29.4
70°-80°	4291.0	16.9
80°-90°	592.1	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°	25347.0	100.0
0°-180°	25347.0	100.0

**Coefficient of Utilization**



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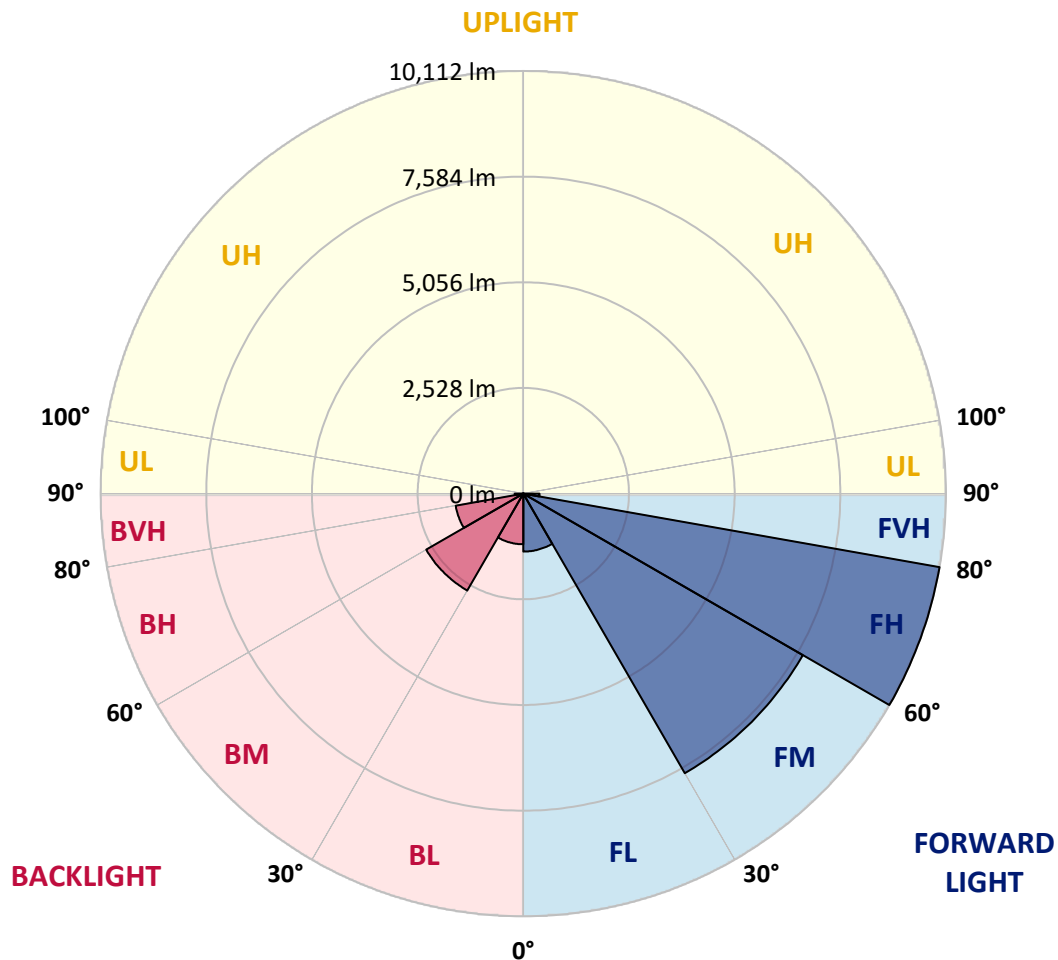
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.1	5.5			
FM	(30°-60°)	7722.7	30.5			
FH	(60°-80°)	10112.4	39.9			G4/12000
FVH	(80°-90°)	386.7	1.5			G3/500
BL	(0°-30°)	1211.3	4.8	B3/2500		
BM	(30°-60°)	2679.5	10.6	B3/5000		
BH	(60°-80°)	1643.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	205.3	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°	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5
2.5°	2708.7	2699.2	2697.8	2677.5	2666.6	2646.3	2638.1	2619.1	2596.1	2573.0	2551.3
5°	2921.6	2921.6	2912.1	2883.6	2838.9	2792.7	2772.4	2735.8	2670.7	2617.8	2573.0
7.5°	3140.0	3142.7	3123.7	3081.7	3017.9	2943.3	2924.3	2870.1	2777.8	2700.5	2634.1
10°	3328.5	3328.5	3302.7	3245.8	3165.7	3084.4	3065.4	3004.3	2901.3	2805.0	2718.1
12.5°	3472.3	3472.3	3438.4	3363.8	3277.0	3203.7	3182.0	3123.7	3027.4	2920.2	2810.4
15°	3565.9	3559.1	3521.1	3437.0	3352.9	3289.2	3274.3	3225.4	3137.3	3028.8	2905.3
17.5°	3569.9	3567.2	3530.6	3460.1	3386.8	3343.4	3333.9	3301.4	3232.2	3129.1	2998.9
20°	3491.3	3496.7	3472.3	3422.1	3386.8	3367.8	3363.8	3352.9	3304.1	3207.8	3077.6
22.5°	3407.2	3416.7	3393.6	3366.5	3363.8	3382.8	3385.5	3388.2	3357.0	3263.4	3144.0
25°	3386.8	3393.6	3370.6	3346.1	3361.1	3411.2	3422.1	3433.0	3408.5	3329.9	3222.7
27.5°	3489.9	3484.5	3439.7	3386.8	3396.3	3464.1	3479.1	3491.3	3479.1	3411.2	3320.4
30°	3781.5	3763.9	3674.4	3519.8	3470.9	3518.4	3533.3	3567.2	3567.2	3517.0	3426.2
32.5°	4269.8	4235.9	4071.8	3768.0	3598.4	3569.9	3584.9	3640.5	3669.0	3629.6	3530.6
35°	4862.6	4827.3	4592.6	4184.4	3831.7	3673.0	3669.0	3731.3	3807.3	3719.1	3590.3
37.5°	5458.0	5421.4	5139.3	4680.8	4172.2	3890.0	3865.6	3887.3	3919.9	3758.5	3673.0
40°	6053.4	6010.0	5763.2	5235.6	4588.6	4177.6	4113.8	4016.2	4002.6	3887.3	3833.1
42.5°	6643.5	6604.1	6479.3	5858.1	5087.7	4458.4	4360.7	4192.5	4244.1	4174.9	4127.4
45°	7238.9	7241.6	7108.7	6556.7	5689.9	4976.5	4844.9	4581.8	4703.9	4678.1	4705.2
47.5°	7766.5	7759.7	7712.3	7234.8	6437.3	5643.8	5474.3	5169.1	5378.0	5472.9	5680.4
50°	8277.9	8273.8	8276.5	8003.9	7305.4	6437.3	6250.1	5930.0	6400.7	6730.3	7101.9
52.5°	9010.3	9033.4	8869.2	8797.4	8360.6	7374.5	7168.4	6837.4	7609.2	8128.7	8854.3
55°	9745.5	9726.5	9597.6	9672.2	9464.7	8484.0	8268.4	8005.2	8954.7	9523.0	10613.5
57.5°	10178.1	10184.9	10316.5	10681.3	10827.8	9867.5	9672.2	9468.8	10467.0	10869.9	12178.8
60°	10567.4	10598.6	10977.0	11666.1	12063.5	11567.0	11393.4	11195.4	11854.6	12014.6	13537.8
62.5°	10689.5	10785.8	11446.3	12477.2	13267.9	13484.9	13269.3	12832.5	13175.7	13113.3	14458.8
65°	10080.5	10212.0	11396.1	12781.0	14343.5	15305.2	15168.2	14357.1	14301.5	13925.8	14609.4
67.5°	8477.3	8608.8	10129.3	12143.5	14788.4	16881.3	16744.3	15469.3	14985.1	14001.7	13470.0
70°	6202.6	6285.4	7739.4	10224.3	13894.6	17410.3	17457.7	16011.8	14740.9	12969.5	11059.8
72.5°	3574.0	3757.1	4775.7	7192.8	11351.4	16072.9	16402.5	14883.4	13197.4	10819.7	7732.6
75°	1536.8	1540.8	2208.2	3967.4	7687.9	12919.3	13238.1	12337.5	10364.0	7481.7	4128.8
77.5°	731.1	744.6	971.2	1771.4	4231.8	8926.2	9786.1	8716.0	6628.5	3594.4	1559.8
80°	474.7	484.2	594.1	878.9	2075.2	5175.9	5775.4	5028.0	2924.3	1284.5	672.8
82.5°	287.5	290.3	397.4	537.1	1142.1	2343.8	2762.9	2182.4	1247.9	769.1	396.1
85°	175.0	176.3	241.4	332.3	693.1	809.7	831.4	824.7	732.4	503.2	211.6
87.5°	84.1	86.8	124.8	157.3	272.6	250.9	237.4	275.3	345.9	271.3	90.9
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°	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5
2.5°	2541.8	2537.8	2528.3	2524.2	2521.5	2522.8	2521.5	2521.5	2522.8	2522.8	2522.8
5°	2554.0	2547.2	2532.3	2532.3	2540.5	2559.5	2577.1	2590.7	2605.6	2604.2	2604.2
7.5°	2606.9	2594.7	2577.1	2582.5	2602.9	2632.7	2663.9	2693.7	2723.6	2726.3	2724.9
10°	2684.2	2672.0	2653.0	2659.8	2692.4	2737.1	2776.5	2819.9	2852.4	2861.9	2859.2
12.5°	2772.4	2748.0	2731.7	2750.7	2802.2	2861.9	2899.9	2932.5	2955.5	2969.1	2963.6
15°	2861.9	2838.9	2819.9	2859.2	2921.6	2977.2	2996.2	3001.6	3005.7	3019.3	3016.5
17.5°	2948.7	2917.5	2910.8	2962.3	3022.0	3046.4	3035.5	3012.5	2994.8	3005.7	3004.3
20°	3026.0	3001.6	2998.9	3050.5	3073.5	3050.5	3004.3	2963.6	2932.5	2935.2	2933.8
22.5°	3099.3	3080.3	3083.0	3104.7	3068.1	2989.4	2913.5	2857.9	2823.9	2830.7	2834.8
25°	3180.7	3161.7	3168.5	3133.2	3012.5	2875.5	2765.6	2718.1	2704.6	2718.1	2727.6
27.5°	3286.5	3274.3	3270.2	3134.6	2913.5	2707.3	2582.5	2564.9	2577.1	2606.9	2621.8
30°	3400.4	3400.4	3378.7	3111.5	2777.8	2505.2	2396.7	2399.4	2441.5	2483.5	2498.4
32.5°	3510.3	3533.3	3465.5	3049.1	2602.9	2308.5	2225.8	2228.5	2265.1	2316.7	2330.2
35°	3601.1	3667.6	3540.1	2935.2	2396.7	2143.1	2080.7	2044.0	2045.4	2084.7	2095.6
37.5°	3725.9	3849.4	3583.5	2765.6	2177.0	2002.0	1931.5	1867.7	1825.7	1809.4	1809.4
40°	3942.9	4124.7	3594.4	2514.7	1969.4	1867.7	1767.3	1691.4	1610.0	1536.8	1523.2
42.5°	4310.5	4539.7	3572.7	2225.8	1782.3	1719.9	1622.2	1528.6	1416.0	1313.0	1304.8
45°	4961.6	5079.6	3514.3	1926.0	1615.4	1577.4	1482.5	1380.8	1261.4	1169.2	1162.4
47.5°	6004.6	5837.8	3437.0	1660.2	1463.5	1452.7	1379.4	1261.4	1142.1	1078.3	1071.5
50°	7527.8	7031.4	3426.2	1467.6	1341.4	1346.9	1287.2	1178.7	1074.2	1021.3	1013.2
52.5°	9361.6	8473.2	3498.1	1331.9	1234.3	1254.6	1224.8	1124.4	1032.2	987.4	979.3
55°	11141.2	9769.9	3541.5	1226.2	1133.9	1171.9	1176.0	1091.9	1007.8	963.0	957.6
57.5°	12585.7	10746.5	3348.9	1129.8	1047.1	1105.4	1135.3	1072.9	995.6	961.7	956.2
60°	13590.7	11207.6	2800.9	1044.4	983.4	1052.5	1120.4	1074.2	1025.4	1029.5	1032.2
62.5°	13910.8	11002.8	2101.0	980.6	940.0	1034.9	1144.8	1129.8	1079.7	1110.9	1116.3
65°	13380.5	10156.4	1523.2	930.5	902.0	1047.1	1218.0	1170.5	1060.7	1083.7	1083.7
67.5°	11605.0	8749.9	1185.5	884.3	858.6	1070.2	1291.3	1166.5	1015.9	1043.0	1018.6
70°	9205.6	6768.2	987.4	832.8	812.5	1036.3	1298.0	1124.4	963.0	968.4	922.3
72.5°	6109.1	4450.2	849.1	784.0	741.9	931.8	1242.4	1070.2	911.5	880.3	834.2
75°	2993.5	2219.0	740.6	722.9	649.7	811.1	1166.5	1018.6	855.9	807.0	781.3
77.5°	1159.7	944.0	632.1	645.6	565.6	714.8	1066.1	945.4	782.6	716.2	695.8
80°	562.9	535.8	518.1	538.5	465.2	609.0	973.9	881.6	714.8	641.6	611.7
82.5°	349.9	331.0	397.4	419.1	358.1	556.1	923.7	827.4	629.4	531.7	507.3
85°	177.7	189.9	265.8	286.2	256.4	442.2	760.9	621.2	454.4	377.1	379.8
87.5°	67.8	90.9	139.7	150.6	137.0	233.3	419.1	362.1	291.6	198.0	183.1
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)