

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: P522761

Luminaire Tested: **GALN-SA5A-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522761  
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-SA5A-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22918 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

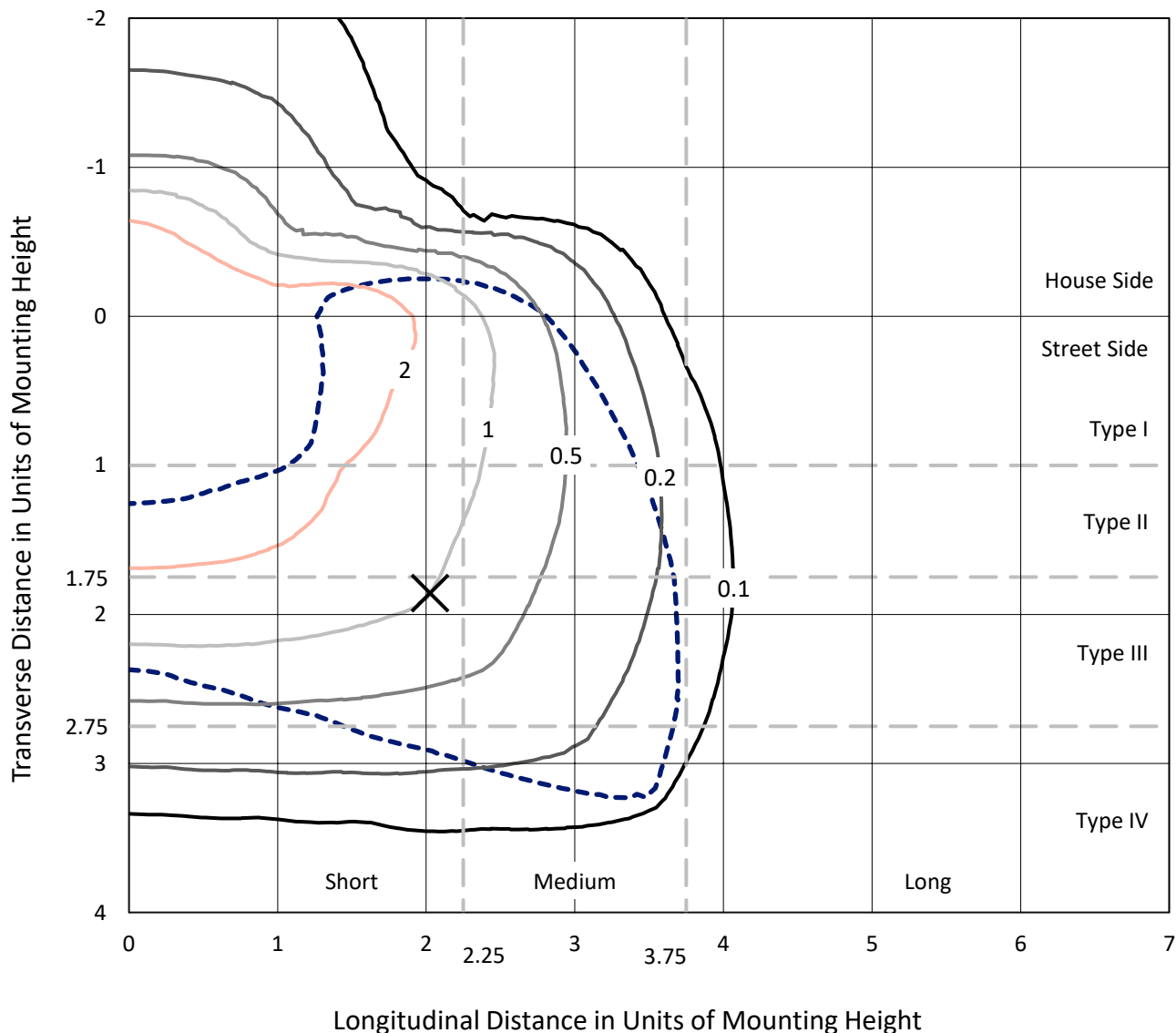
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

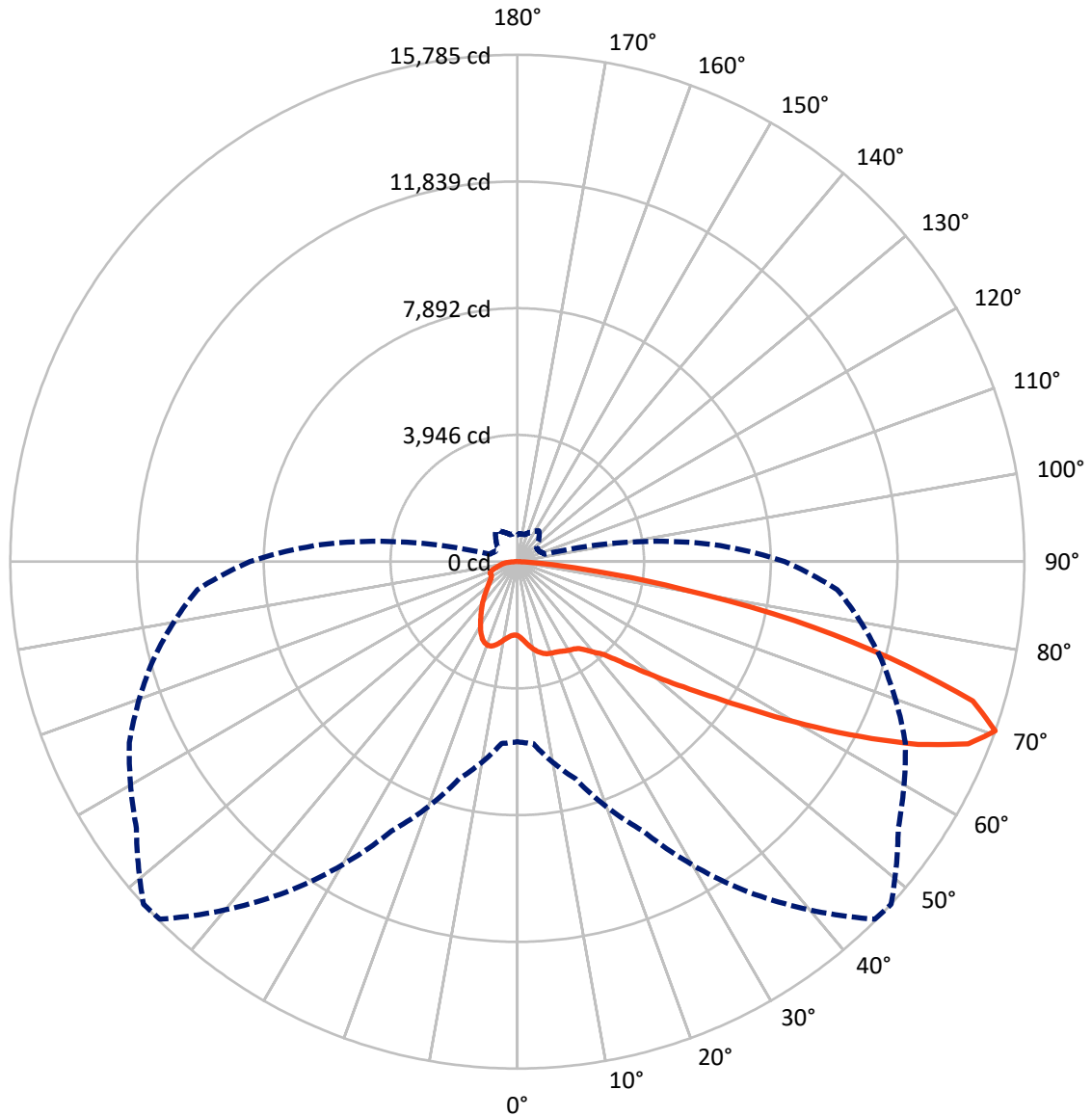
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	5189.1	0.0	5189.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17728.9	0.0	17728.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	22918.0	0.0	22918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.2	1.0
10°-20°	792.8	3.5
20°-30°	1318.5	5.8
30°-40°	1868.7	8.2
40°-50°	2758.6	12.0
50°-60°	4778.0	20.8
60°-70°	6749.1	29.4
70°-80°	3879.8	16.9
80°-90°	535.3	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°	22918.0	100.0
0°-180°	22918.0	100.0

**Coefficient of Utilization**



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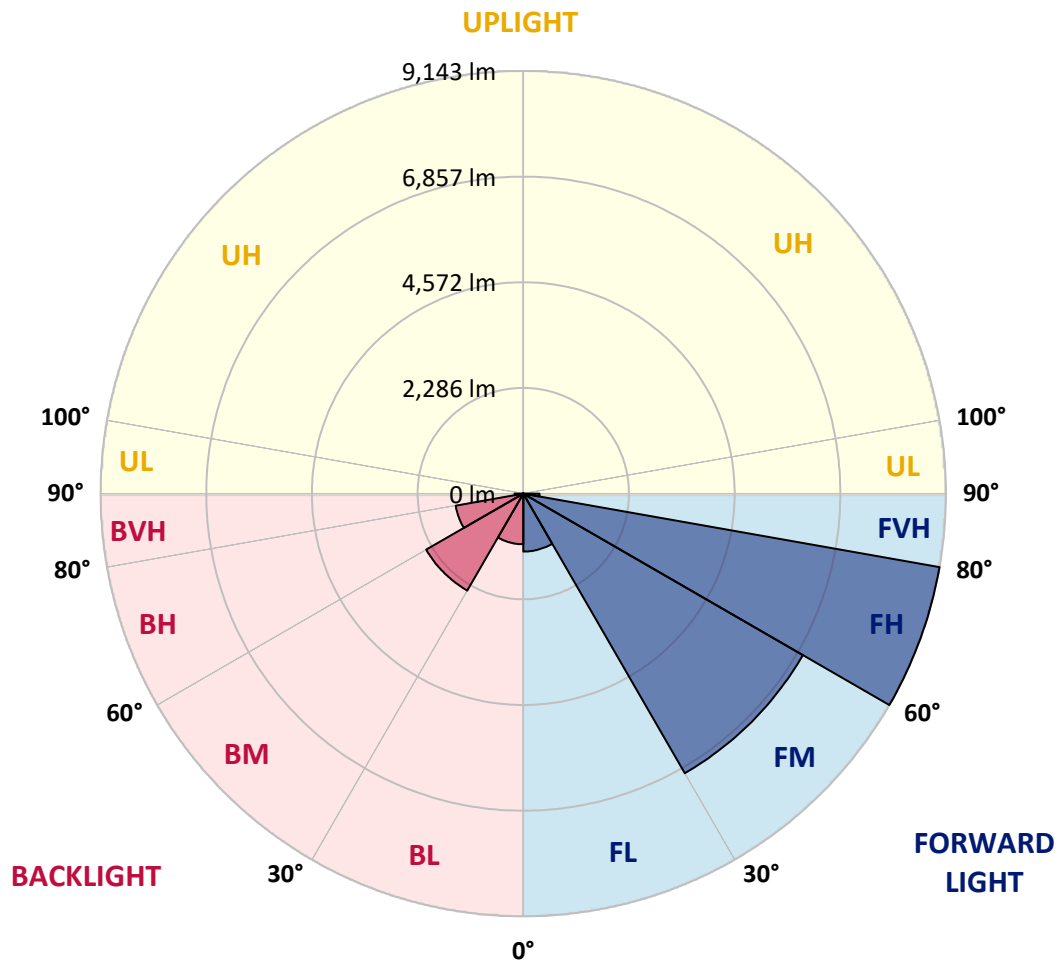
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.2	5.5			
FM (30°-60°)	6982.7	30.5			
FH (60°-80°)	9143.3	39.9			G4/12000
FVH (80°-90°)	349.7	1.5			G3/500
BL (0°-30°)	1095.2	4.8	B3/2500		
BM (30°-60°)	2422.7	10.6	B2/2500		
BH (60°-80°)	1485.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.6	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°	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7
2.5°	2449.1	2440.5	2439.3	2420.9	2411.1	2392.7	2385.3	2368.1	2347.3	2326.4	2306.8
5°	2641.6	2641.6	2633.0	2607.3	2566.8	2525.1	2506.7	2473.6	2414.7	2366.9	2326.4
7.5°	2839.1	2841.5	2824.4	2786.3	2728.7	2661.2	2644.1	2595.0	2511.6	2441.7	2381.6
10°	3009.5	3009.5	2986.2	2934.7	2862.4	2788.8	2771.6	2716.4	2623.2	2536.2	2457.7
12.5°	3139.5	3139.5	3108.9	3041.4	2962.9	2896.7	2877.1	2824.4	2737.3	2640.4	2541.1
15°	3224.2	3218.0	3183.7	3107.7	3031.6	2974.0	2960.5	2916.3	2836.6	2738.5	2626.9
17.5°	3227.8	3225.4	3192.3	3128.5	3062.3	3023.0	3014.4	2985.0	2922.5	2829.3	2711.5
20°	3156.7	3161.6	3139.5	3094.2	3062.3	3045.1	3041.4	3031.6	2987.5	2900.4	2782.7
22.5°	3080.7	3089.3	3068.4	3043.9	3041.4	3058.6	3061.0	3063.5	3035.3	2950.7	2842.8
25°	3062.3	3068.4	3047.6	3025.5	3039.0	3084.3	3094.2	3104.0	3081.9	3010.8	2913.9
27.5°	3155.5	3150.6	3110.1	3062.3	3070.9	3132.2	3145.7	3156.7	3145.7	3084.3	3002.2
30°	3419.2	3403.2	3322.3	3182.5	3138.3	3181.2	3194.7	3225.4	3225.4	3180.0	3097.8
32.5°	3860.6	3830.0	3681.6	3406.9	3253.6	3227.8	3241.3	3291.6	3317.4	3281.8	3192.3
35°	4396.6	4364.7	4152.5	3783.4	3464.5	3321.0	3317.4	3373.8	3442.5	3362.7	3246.2
37.5°	4935.0	4901.8	4646.8	4232.2	3772.3	3517.3	3495.2	3514.8	3544.2	3398.3	3321.0
40°	5473.3	5434.1	5210.9	4733.8	4148.8	3777.3	3719.6	3631.3	3619.1	3514.8	3465.8
42.5°	6006.8	5971.3	5858.4	5296.7	4600.2	4031.1	3942.8	3790.7	3837.3	3774.8	3731.9
45°	6545.2	6547.7	6427.5	5928.3	5144.7	4499.6	4380.6	4142.7	4253.1	4229.8	4254.3
47.5°	7022.3	7016.1	6973.2	6541.5	5820.4	5103.0	4949.7	4673.7	4862.6	4948.4	5136.1
50°	7484.6	7480.9	7483.4	7236.9	6605.3	5820.4	5651.2	5361.7	5787.3	6085.3	6421.3
52.5°	8146.9	8167.7	8019.3	7954.3	7559.4	6667.8	6481.4	6182.2	6880.0	7349.7	8005.8
55°	8811.6	8794.4	8677.9	8745.3	8557.7	7671.0	7476.0	7238.1	8096.6	8610.4	9596.4
57.5°	9202.8	9208.9	9327.9	9657.8	9790.2	8921.9	8745.3	8561.4	9464.0	9828.2	11011.7
60°	9554.7	9582.9	9925.1	10548.1	10907.4	10458.6	10301.6	10122.6	10718.6	10863.3	12240.5
62.5°	9665.1	9752.2	10349.4	11281.5	11996.5	12192.7	11997.7	11602.8	11913.1	11856.7	13073.2
65°	9114.5	9233.4	10304.1	11556.2	12969.0	13838.5	13714.6	12981.2	12931.0	12591.3	13209.4
67.5°	7664.9	7783.8	9158.6	10979.8	13371.2	15263.5	15139.7	13986.9	13549.1	12659.9	12179.2
70°	5608.2	5683.1	6997.7	9244.5	12563.1	15741.8	15784.8	14477.4	13328.3	11726.7	9999.9
72.5°	3231.5	3397.1	4318.1	6503.5	10263.6	14532.6	14830.6	13457.1	11932.7	9782.8	6991.6
75°	1389.5	1393.2	1996.5	3587.2	6951.1	11681.3	11969.5	11155.2	9370.8	6764.7	3733.1
77.5°	661.0	673.3	878.1	1601.7	3826.3	8070.8	8848.3	7880.7	5993.3	3249.9	1410.3
80°	429.2	437.8	537.2	794.7	1876.4	4679.9	5221.9	4546.2	2644.1	1161.4	608.3
82.5°	260.0	262.4	359.3	485.6	1032.6	2119.2	2498.1	1973.2	1128.3	695.4	358.1
85°	158.2	159.4	218.3	300.5	626.7	732.1	751.8	745.6	662.2	455.0	191.3
87.5°	76.0	78.5	112.8	142.3	246.5	226.9	214.6	249.0	312.7	245.3	82.2
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°	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7
2.5°	2298.2	2294.6	2286.0	2282.3	2279.8	2281.1	2279.8	2279.8	2281.1	2281.1	2281.1
5°	2309.3	2303.1	2289.7	2289.7	2297.0	2314.2	2330.1	2342.4	2355.9	2354.7	2354.7
7.5°	2357.1	2346.1	2330.1	2335.0	2353.4	2380.4	2408.6	2435.6	2462.6	2465.0	2463.8
10°	2427.0	2416.0	2398.8	2404.9	2434.4	2474.8	2510.4	2549.6	2579.1	2587.7	2585.2
12.5°	2506.7	2484.6	2469.9	2487.1	2533.7	2587.7	2622.0	2651.4	2672.3	2684.5	2679.6
15°	2587.7	2566.8	2549.6	2585.2	2641.6	2691.9	2709.1	2714.0	2717.7	2729.9	2727.5
17.5°	2666.2	2637.9	2631.8	2678.4	2732.4	2754.5	2744.6	2723.8	2707.9	2717.7	2716.4
20°	2736.1	2714.0	2711.5	2758.1	2779.0	2758.1	2716.4	2679.6	2651.4	2653.9	2652.7
22.5°	2802.3	2785.1	2787.6	2807.2	2774.1	2702.9	2634.3	2584.0	2553.3	2559.5	2563.1
25°	2875.9	2858.7	2864.8	2832.9	2723.8	2599.9	2500.6	2457.7	2445.4	2457.7	2466.3
27.5°	2971.5	2960.5	2956.8	2834.2	2634.3	2447.9	2335.0	2319.1	2330.1	2357.1	2370.6
30°	3074.5	3074.5	3054.9	2813.3	2511.6	2265.1	2167.0	2169.5	2207.5	2245.5	2259.0
32.5°	3173.9	3194.7	3133.4	2756.9	2353.4	2087.3	2012.5	2014.9	2048.1	2094.7	2106.9
35°	3256.0	3316.1	3200.9	2653.9	2167.0	1937.7	1881.3	1848.2	1849.4	1884.9	1894.8
37.5°	3368.9	3480.5	3240.1	2500.6	1968.3	1810.1	1746.4	1688.7	1650.7	1636.0	1636.0
40°	3565.1	3729.4	3249.9	2273.7	1780.7	1688.7	1598.0	1529.3	1455.7	1389.5	1377.2
42.5°	3897.4	4104.7	3230.3	2012.5	1611.5	1555.1	1466.8	1382.1	1280.3	1187.1	1179.8
45°	4486.1	4592.8	3177.6	1741.5	1460.6	1426.3	1340.4	1248.5	1140.5	1057.1	1051.0
47.5°	5429.2	5278.3	3107.7	1501.1	1323.3	1313.5	1247.2	1140.5	1032.6	975.0	968.8
50°	6806.4	6357.6	3097.8	1326.9	1212.9	1217.8	1163.8	1065.7	971.3	923.5	916.1
52.5°	8464.5	7661.2	3162.8	1204.3	1116.0	1134.4	1107.4	1016.7	933.3	892.8	885.4
55°	10073.5	8833.6	3202.1	1108.6	1025.3	1059.6	1063.3	987.2	911.2	870.7	865.8
57.5°	11379.6	9716.6	3027.9	1021.6	946.8	999.5	1026.5	970.1	900.2	869.5	864.6
60°	12288.3	10133.6	2532.5	944.3	889.1	951.7	1013.0	971.3	927.1	930.8	933.3
62.5°	12577.8	9948.4	1899.7	886.7	849.9	935.7	1035.1	1021.6	976.2	1004.4	1009.3
65°	12098.3	9183.1	1377.2	841.3	815.5	946.8	1101.3	1058.4	959.0	979.9	979.9
67.5°	10492.9	7911.4	1071.9	799.6	776.3	967.6	1167.5	1054.7	918.6	943.1	921.0
70°	8323.5	6119.6	892.8	753.0	734.6	937.0	1173.6	1016.7	870.7	875.6	833.9
72.5°	5523.6	4023.8	767.7	708.8	670.8	842.5	1123.4	967.6	824.1	795.9	754.2
75°	2706.6	2006.4	669.6	653.7	587.4	733.4	1054.7	921.0	773.8	729.7	706.4
77.5°	1048.6	853.6	571.5	583.8	511.4	646.3	963.9	854.8	707.6	647.5	629.1
80°	508.9	484.4	468.5	486.9	420.6	550.6	880.5	797.1	646.3	580.1	553.1
82.5°	316.4	299.2	359.3	379.0	323.8	502.8	835.2	748.1	569.0	480.7	458.7
85°	160.7	171.7	240.4	258.8	231.8	399.8	688.0	561.7	410.8	340.9	343.4
87.5°	61.3	82.2	126.3	136.1	123.9	210.9	379.0	327.4	263.7	179.1	165.6
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)