

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: P522796

Luminaire Tested: **GALN-SA6A-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522796  
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-SA6A-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 25280 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

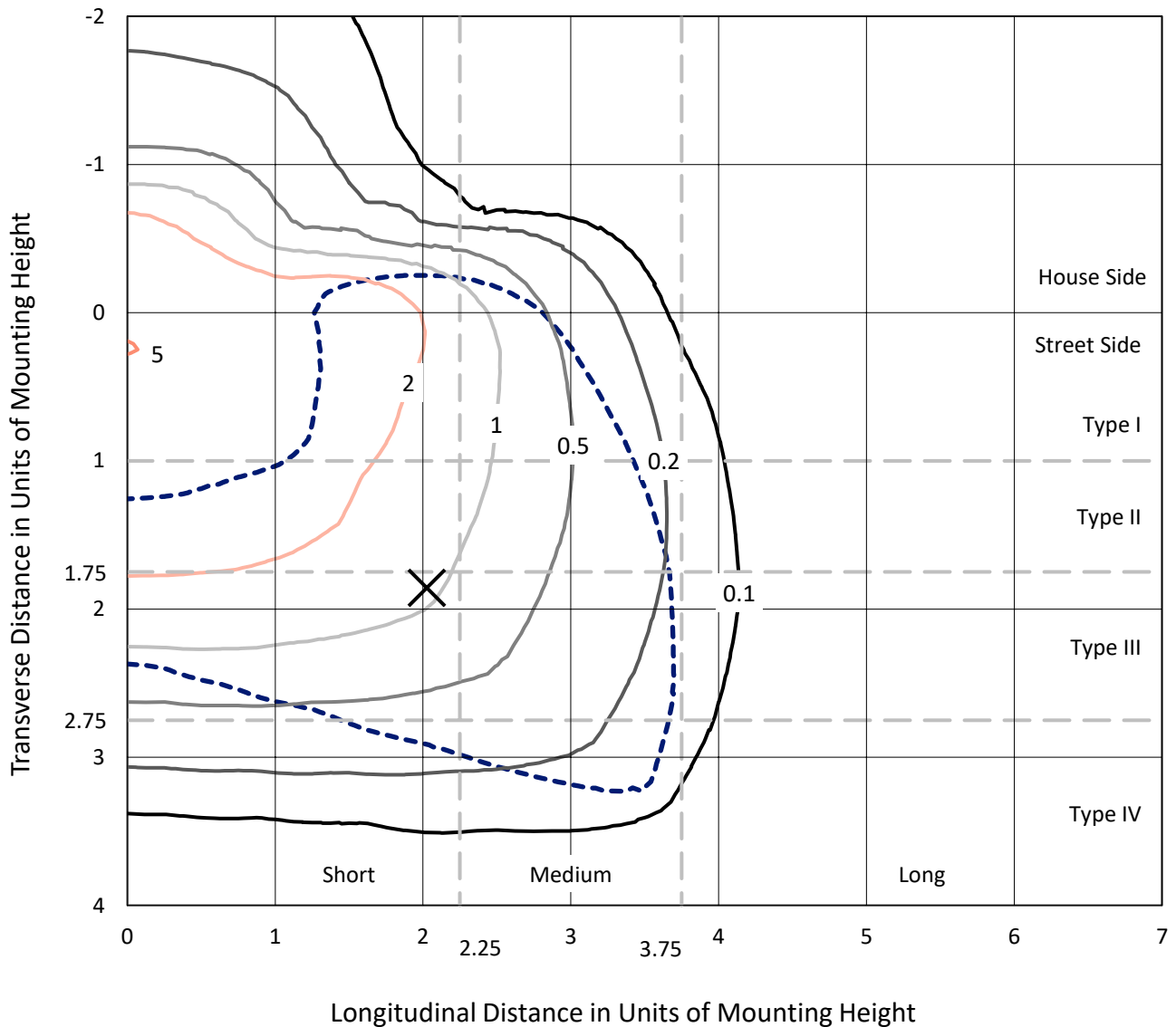
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

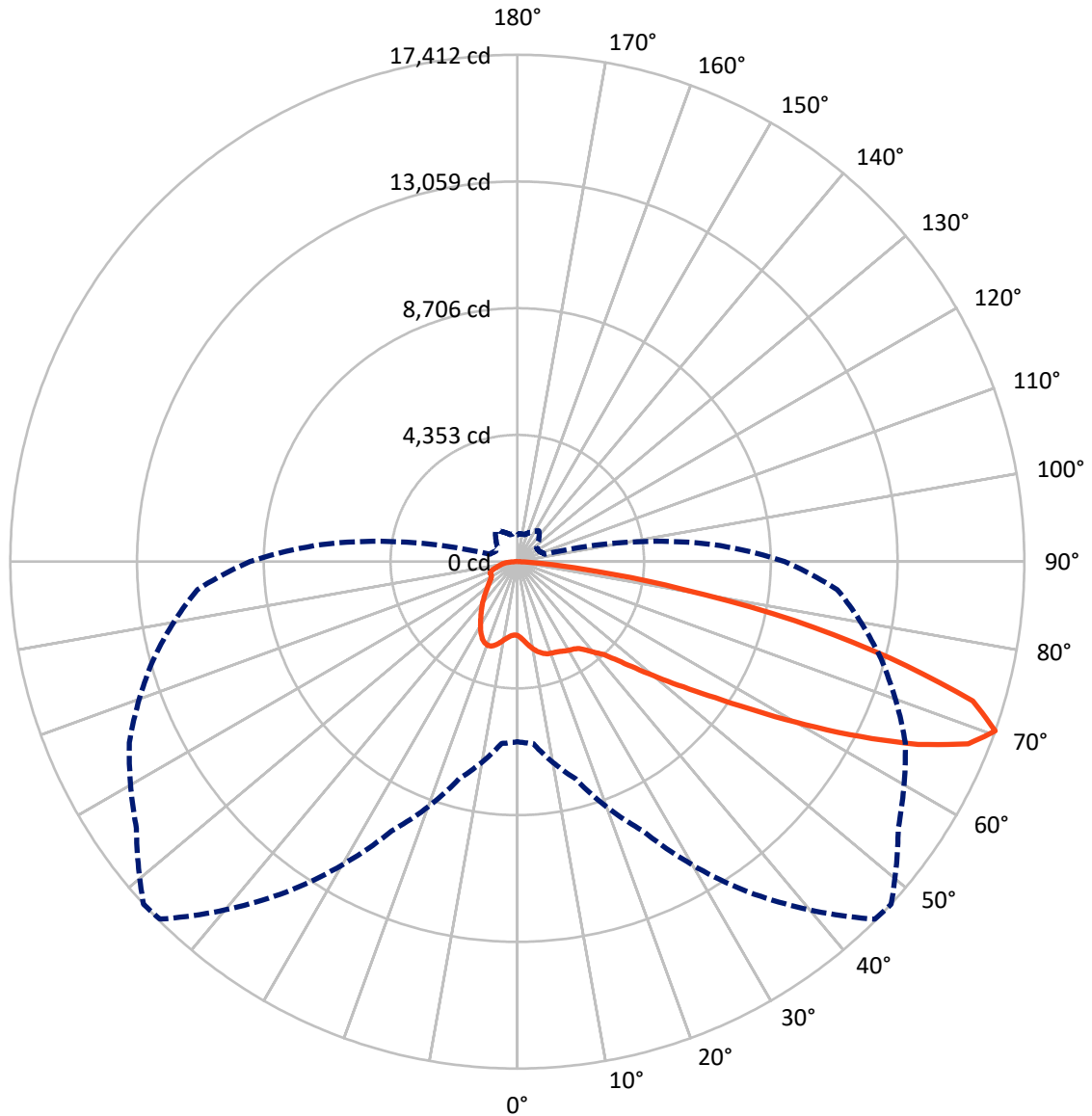
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	5723.9	0.0	5723.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	19556.1	0.0	19556.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	25280.0	0.0	25280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.6	1.0
10°-20°	874.5	3.5
20°-30°	1454.3	5.8
30°-40°	2061.3	8.2
40°-50°	3042.9	12.0
50°-60°	5270.5	20.8
60°-70°	7444.7	29.4
70°-80°	4279.6	16.9
80°-90°	590.5	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°	25280.0	100.0
0°-180°	25280.0	100.0

**Coefficient of Utilization**



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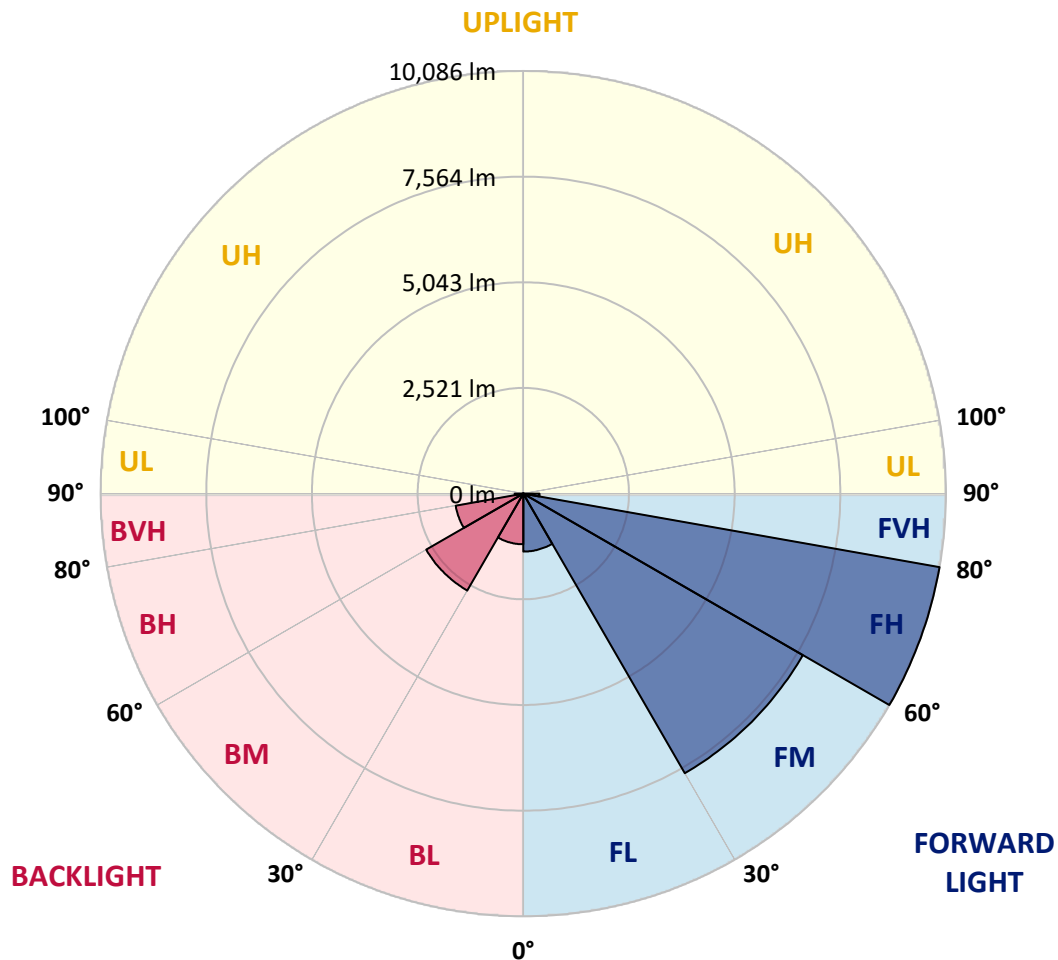
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.4	5.5			
FM (30°-60°)	7702.3	30.5			
FH (60°-80°)	10085.7	39.9			G4/12000
FVH (80°-90°)	385.7	1.5			G3/500
BL (0°-30°)	1208.1	4.8	B3/2500		
BM (30°-60°)	2672.4	10.6	B3/5000		
BH (60°-80°)	1638.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	204.8	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°	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8
2.5°	2701.5	2692.0	2690.7	2670.4	2659.6	2639.3	2631.1	2612.2	2589.2	2566.2	2544.6
5°	2913.9	2913.9	2904.4	2876.0	2831.4	2785.4	2765.1	2728.5	2663.6	2610.9	2566.2
7.5°	3131.7	3134.4	3115.4	3073.5	3009.9	2935.5	2916.6	2862.5	2770.5	2693.4	2627.1
10°	3319.7	3319.7	3294.0	3237.2	3157.4	3076.2	3057.3	2996.4	2893.6	2797.5	2711.0
12.5°	3463.1	3463.1	3429.3	3354.9	3268.3	3195.3	3173.6	3115.4	3019.4	2912.5	2803.0
15°	3556.4	3549.7	3511.8	3427.9	3344.1	3280.5	3265.6	3216.9	3129.0	3020.7	2897.6
17.5°	3560.5	3557.8	3521.3	3450.9	3377.9	3334.6	3325.1	3292.7	3223.7	3120.9	2991.0
20°	3482.0	3487.5	3463.1	3413.1	3377.9	3358.9	3354.9	3344.1	3295.4	3199.3	3069.4
22.5°	3398.2	3407.6	3384.6	3357.6	3354.9	3373.8	3376.5	3379.2	3348.1	3254.8	3135.7
25°	3377.9	3384.6	3361.6	3337.3	3352.2	3402.2	3413.1	3423.9	3399.5	3321.1	3214.2
27.5°	3480.7	3475.3	3430.6	3377.9	3387.4	3455.0	3469.9	3482.0	3469.9	3402.2	3311.6
30°	3771.5	3754.0	3664.7	3510.5	3461.8	3509.1	3524.0	3557.8	3557.8	3507.7	3417.1
32.5°	4258.5	4224.7	4061.0	3758.0	3588.9	3560.5	3575.4	3630.9	3659.3	3620.0	3521.3
35°	4849.7	4814.5	4580.5	4173.3	3821.6	3663.3	3659.3	3721.5	3797.2	3709.3	3580.8
37.5°	5443.6	5407.0	5125.7	4668.4	4161.1	3879.8	3855.4	3877.1	3909.5	3748.5	3663.3
40°	6037.4	5994.2	5747.9	5221.7	4576.4	4166.6	4103.0	4005.6	3992.0	3877.1	3822.9
42.5°	6625.9	6586.7	6462.2	5842.6	5074.3	4446.6	4349.2	4181.4	4232.8	4163.8	4116.5
45°	7219.8	7222.5	7089.9	6539.3	5674.9	4963.3	4832.1	4569.7	4691.4	4665.7	4692.8
47.5°	7746.0	7739.2	7691.9	7215.7	6420.3	5628.9	5459.8	5155.4	5363.8	5458.5	5665.4
50°	8256.0	8251.9	8254.6	7982.7	7286.1	6420.3	6233.6	5914.3	6383.8	6712.5	7083.1
52.5°	8986.5	9009.5	8845.8	8774.1	8338.5	7355.0	7149.4	6819.3	7589.1	8107.2	8830.9
55°	9719.7	9700.8	9572.2	9646.6	9439.7	8461.6	8246.5	7984.1	8931.0	9497.8	10585.5
57.5°	10151.2	10158.0	10289.2	10653.1	10799.2	9841.4	9646.6	9443.7	10439.4	10841.1	12146.6
60°	10539.5	10570.6	10948.0	11635.2	12031.6	11536.5	11363.3	11165.8	11823.3	11982.9	13502.1
62.5°	10661.2	10757.3	11416.1	12444.2	13232.9	13449.3	13234.2	12798.6	13140.9	13078.6	14420.6
65°	10053.8	10185.1	11366.0	12747.2	14305.6	15264.7	15128.1	14319.1	14263.7	13889.0	14570.8
67.5°	8454.9	8586.1	10102.5	12111.4	14749.3	16836.7	16700.0	15428.4	14945.5	13964.7	13434.4
70°	6186.2	6268.8	7718.9	10197.2	13857.8	17364.2	17411.6	15969.5	14702.0	12935.2	11030.5
72.5°	3564.6	3747.2	4763.1	7173.8	11321.4	16030.4	16359.1	14844.0	13162.5	10791.1	7712.2
75°	1532.7	1536.8	2202.3	3956.9	7667.5	12885.2	13203.1	12304.9	10336.6	7461.9	4117.9
77.5°	729.1	742.7	968.6	1766.7	4220.7	8902.6	9760.3	8692.9	6611.0	3584.9	1555.7
80°	473.5	482.9	592.5	876.6	2069.7	5162.2	5760.1	5014.7	2916.6	1281.1	671.0
82.5°	286.8	289.5	396.4	535.7	1139.0	2337.6	2755.6	2176.6	1244.6	767.0	395.0
85°	174.5	175.9	240.8	331.4	691.3	807.6	829.3	822.5	730.5	501.9	211.0
87.5°	83.9	86.6	124.5	156.9	271.9	250.3	236.7	274.6	345.0	270.6	90.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8	2537.8
2.5°	2535.1	2531.0	2521.6	2517.5	2514.8	2516.2	2514.8	2514.8	2516.2	2516.2	2516.2
5°	2547.3	2540.5	2525.6	2525.6	2533.7	2552.7	2570.3	2583.8	2598.7	2597.3	2597.3
7.5°	2600.0	2587.9	2570.3	2575.7	2596.0	2625.7	2656.9	2686.6	2716.4	2719.1	2717.7
10°	2677.1	2665.0	2646.0	2652.8	2685.3	2729.9	2769.1	2812.4	2844.9	2854.4	2851.7
12.5°	2765.1	2740.7	2724.5	2743.4	2794.8	2854.4	2892.2	2924.7	2947.7	2961.2	2955.8
15°	2854.4	2831.4	2812.4	2851.7	2913.9	2969.3	2988.3	2993.7	2997.8	3011.3	3008.6
17.5°	2940.9	2909.8	2903.1	2954.5	3014.0	3038.3	3027.5	3004.5	2986.9	2997.8	2996.4
20°	3018.0	2993.7	2991.0	3042.4	3065.4	3042.4	2996.4	2955.8	2924.7	2927.4	2926.1
22.5°	3091.1	3072.2	3074.9	3096.5	3060.0	2981.5	2905.8	2850.3	2816.5	2823.2	2827.3
25°	3172.3	3153.3	3160.1	3124.9	3004.5	2867.9	2758.3	2711.0	2697.4	2711.0	2720.4
27.5°	3277.8	3265.6	3261.5	3126.3	2905.8	2700.1	2575.7	2558.1	2570.3	2600.0	2614.9
30°	3391.4	3391.4	3369.8	3103.3	2770.5	2498.6	2390.4	2393.1	2435.0	2476.9	2491.8
32.5°	3501.0	3524.0	3456.3	3041.0	2596.0	2302.4	2219.9	2222.6	2259.1	2310.5	2324.1
35°	3591.6	3657.9	3530.7	2927.4	2390.4	2137.4	2075.2	2038.6	2040.0	2079.2	2090.0
37.5°	3716.1	3839.2	3574.0	2758.3	2171.2	1996.7	1926.4	1862.8	1820.8	1804.6	1804.6
40°	3932.5	4113.8	3584.9	2508.0	1964.2	1862.8	1762.7	1686.9	1605.7	1532.7	1519.2
42.5°	4299.1	4527.7	3563.2	2219.9	1777.5	1715.3	1617.9	1524.6	1412.3	1309.5	1301.4
45°	4948.5	5066.1	3505.0	1920.9	1611.2	1573.3	1478.6	1377.1	1258.1	1166.1	1159.3
47.5°	5988.7	5822.3	3427.9	1655.8	1459.6	1448.8	1375.8	1258.1	1139.0	1075.5	1068.7
50°	7507.9	7012.8	3417.1	1463.7	1337.9	1343.3	1283.8	1175.6	1071.4	1018.6	1010.5
52.5°	9336.9	8450.8	3488.8	1328.4	1231.0	1251.3	1221.6	1121.5	1029.5	984.8	976.7
55°	11111.7	9744.0	3532.1	1222.9	1130.9	1168.8	1172.9	1089.0	1005.1	960.5	955.1
57.5°	12552.4	10718.0	3340.0	1126.9	1044.3	1102.5	1132.3	1070.0	992.9	959.1	953.7
60°	13554.8	11178.0	2793.5	1041.6	980.8	1049.8	1117.4	1071.4	1022.7	1026.8	1029.5
62.5°	13874.1	10973.7	2095.5	978.1	937.5	1032.2	1141.7	1126.9	1076.8	1107.9	1113.3
65°	13345.1	10129.6	1519.2	928.0	899.6	1044.3	1214.8	1167.4	1057.9	1080.9	1080.9
67.5°	11574.4	8726.8	1182.3	882.0	856.3	1067.3	1287.8	1163.4	1013.2	1040.3	1015.9
70°	9181.3	6750.4	984.8	830.6	810.3	1033.5	1294.6	1121.5	960.5	965.9	919.9
72.5°	6092.9	4438.5	846.8	781.9	740.0	929.4	1239.1	1067.3	909.1	878.0	832.0
75°	2985.6	2213.1	738.6	721.0	648.0	809.0	1163.4	1015.9	853.6	804.9	779.2
77.5°	1156.6	941.5	630.4	643.9	564.1	712.9	1063.3	942.9	780.6	714.3	694.0
80°	561.4	534.3	516.8	537.1	464.0	607.4	971.3	879.3	712.9	639.9	610.1
82.5°	349.0	330.1	396.4	418.0	357.1	554.6	921.2	825.2	627.7	530.3	505.9
85°	177.2	189.4	265.1	285.4	255.7	441.0	758.9	619.6	453.2	376.1	378.8
87.5°	67.6	90.6	139.3	150.2	136.6	232.7	418.0	361.2	290.8	197.5	182.6
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)