

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: P522769

Luminaire Tested: **GALN-SA5B-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522769  
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-SA5B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26564 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

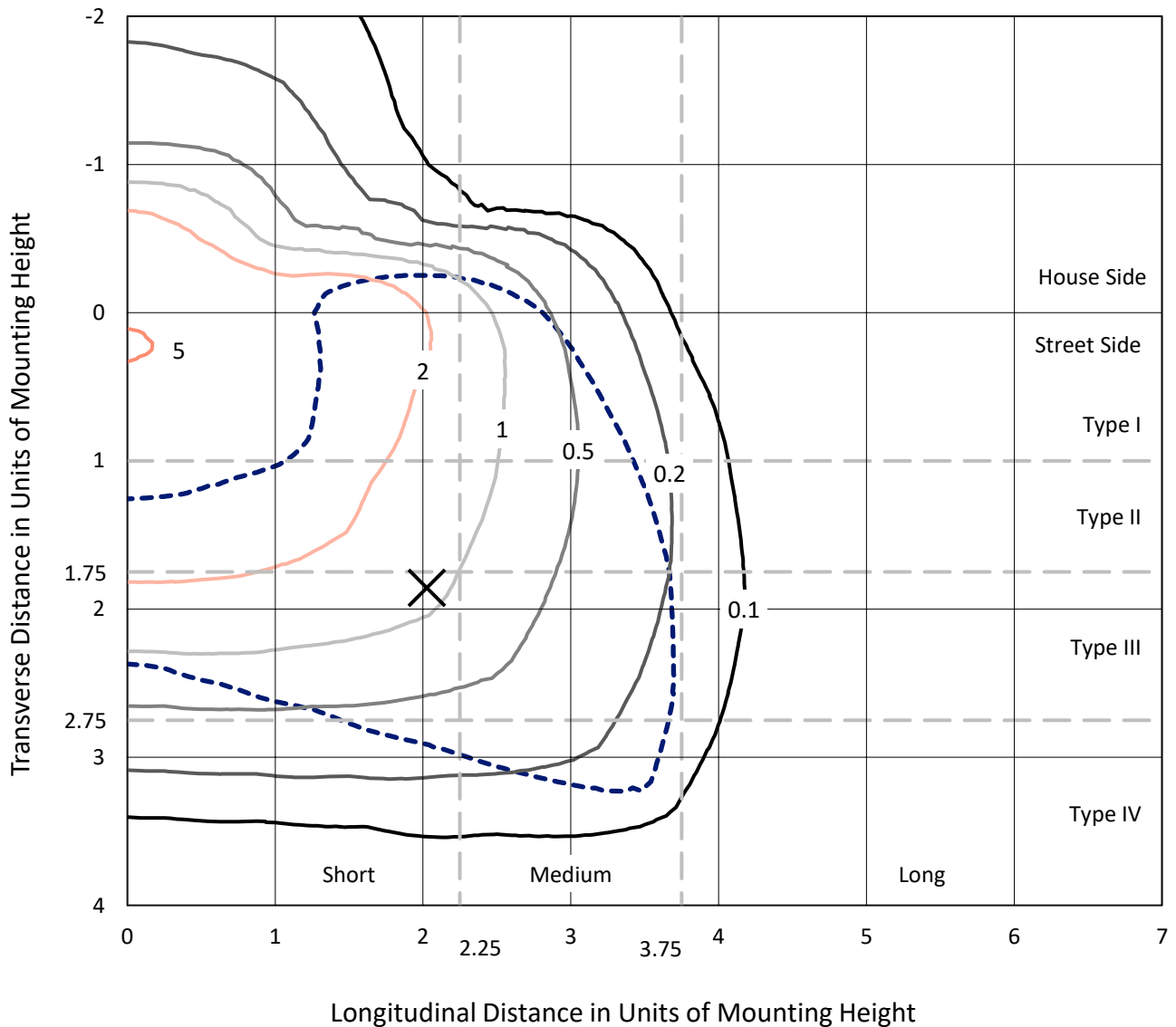
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522769  
 CATALOG NUMBER: GALN-SA5B-735-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

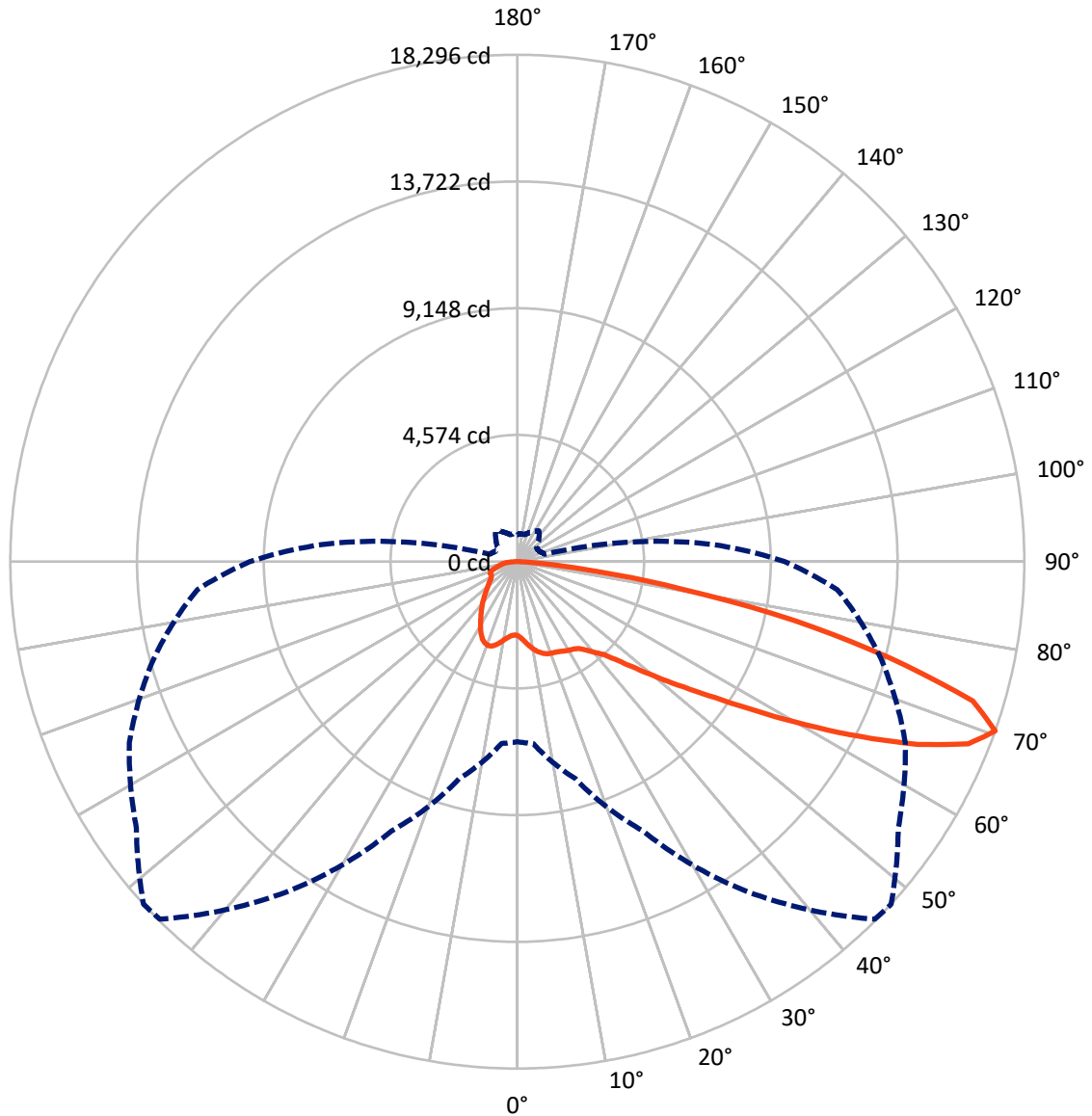
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522769  
CATALOG NUMBER: GALN-SA5B-735-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P522769

CATALOG NUMBER: GALN-SA5B-735-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6014.6	0.0	6014.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	20549.4	0.0	20549.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	26564.0	0.0	26564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.9	1.0
10°-20°	919.0	3.5
20°-30°	1528.2	5.8
30°-40°	2166.0	8.2
40°-50°	3197.5	12.0
50°-60°	5538.2	20.8
60°-70°	7822.8	29.4
70°-80°	4497.0	16.9
80°-90°	620.5	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°	26564.0	100.0
0°-180°	26564.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P522769

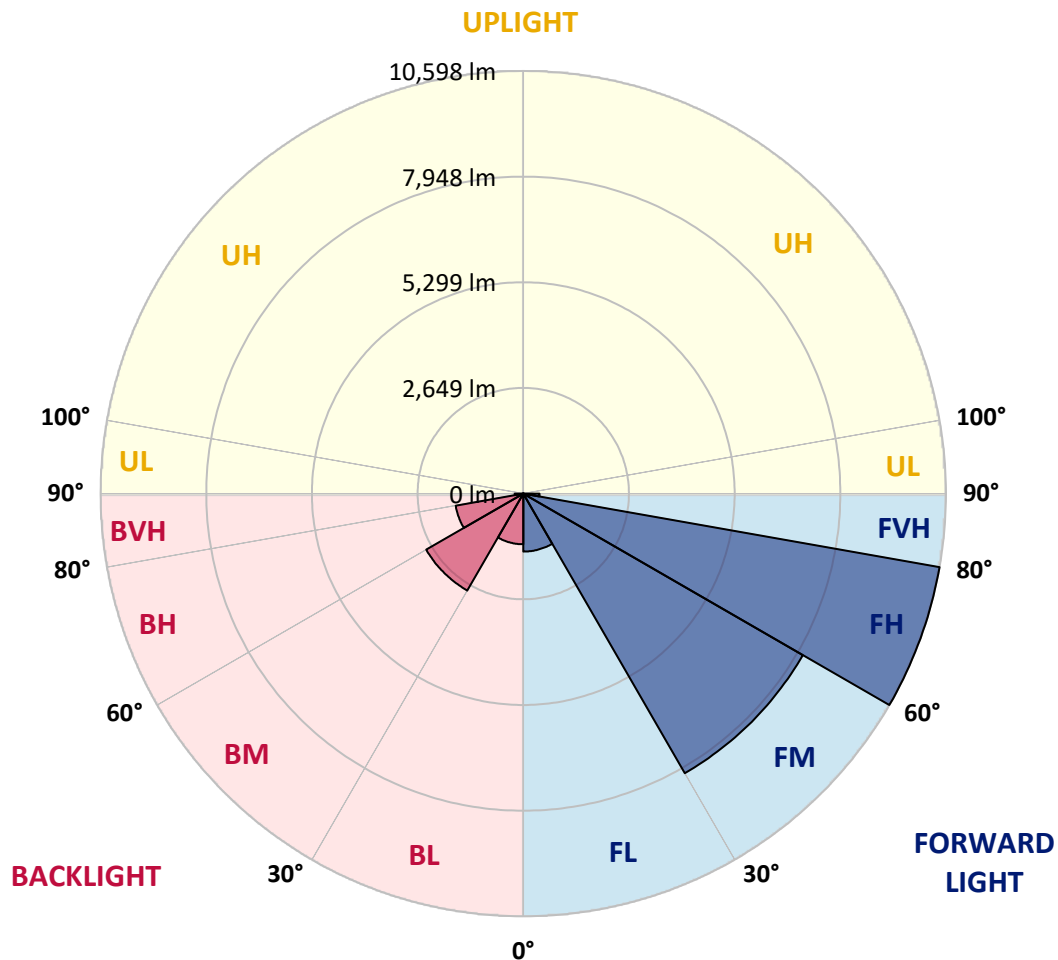
CATALOG NUMBER: GALN-SA5B-735-U-T4W

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1452.6	5.5			
FM	(30°-60°)	8093.5	30.5			
FH	(60°-80°)	10597.9	39.9			G4/12000
FVH	(80°-90°)	405.3	1.5			G3/500
BL	(0°-30°)	1269.4	4.8	B3/2500		
BM	(30°-60°)	2808.1	10.6	B3/5000		
BH	(60°-80°)	1721.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	215.2	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





REPORT NUMBER: P522769

CATALOG NUMBER: GALN-SA5B-735-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7
2.5°	2838.7	2828.8	2827.3	2806.0	2794.6	2773.3	2764.8	2744.9	2720.7	2696.6	2673.8
5°	3061.9	3061.9	3051.9	3022.1	2975.2	2926.8	2905.5	2867.1	2798.9	2743.5	2696.6
7.5°	3290.7	3293.6	3273.7	3229.6	3162.8	3084.6	3064.7	3007.9	2911.2	2830.2	2760.5
10°	3488.3	3488.3	3461.3	3401.6	3317.7	3232.5	3212.6	3148.6	3040.6	2939.6	2848.7
12.5°	3639.0	3639.0	3603.5	3525.3	3434.3	3357.5	3334.8	3273.7	3172.8	3060.5	2945.3
15°	3737.1	3730.0	3690.2	3602.0	3513.9	3447.1	3431.5	3380.3	3287.9	3174.2	3044.8
17.5°	3741.3	3738.5	3700.1	3626.2	3549.4	3504.0	3494.0	3459.9	3387.4	3279.4	3142.9
20°	3658.9	3664.6	3639.0	3586.4	3549.4	3529.5	3525.3	3513.9	3462.7	3361.8	3225.3
22.5°	3570.8	3580.7	3556.6	3528.1	3525.3	3545.2	3548.0	3550.9	3518.2	3420.1	3295.0
25°	3549.4	3556.6	3532.4	3506.8	3522.4	3575.0	3586.4	3597.8	3572.2	3489.7	3377.4
27.5°	3657.5	3651.8	3604.9	3549.4	3559.4	3630.5	3646.1	3658.9	3646.1	3575.0	3479.8
30°	3963.1	3944.6	3850.8	3688.8	3637.6	3687.3	3703.0	3738.5	3738.5	3685.9	3590.7
32.5°	4474.8	4439.3	4267.3	3948.9	3771.2	3741.3	3757.0	3815.3	3845.1	3803.9	3700.1
35°	5096.0	5059.1	4813.1	4385.3	4015.7	3849.4	3845.1	3910.5	3990.1	3897.7	3762.7
37.5°	5720.1	5681.7	5386.0	4905.5	4372.5	4076.8	4051.2	4074.0	4108.1	3938.9	3849.4
40°	6344.1	6298.6	6039.9	5486.9	4808.9	4378.2	4311.4	4209.0	4194.8	4074.0	4017.1
42.5°	6962.4	6921.2	6790.4	6139.4	5332.0	4672.4	4570.1	4393.8	4447.8	4375.3	4325.6
45°	7586.5	7589.3	7450.0	6871.5	5963.1	5215.4	5077.5	4801.8	4929.7	4902.7	4931.1
47.5°	8139.4	8132.3	8082.6	7582.2	6746.4	5914.8	5737.1	5417.3	5636.2	5735.7	5953.2
50°	8675.3	8671.1	8673.9	8388.2	7656.1	6746.4	6550.2	6214.7	6708.0	7053.4	7442.9
52.5°	9442.9	9467.1	9295.1	9219.8	8762.0	7728.6	7512.5	7165.7	7974.5	8519.0	9279.5
55°	10213.4	10193.5	10058.4	10136.6	9919.1	8891.4	8665.4	8389.6	9384.6	9980.2	11123.1
57.5°	10666.8	10673.9	10811.8	11194.2	11347.7	10341.3	10136.6	9923.4	10969.6	11391.8	12763.5
60°	11074.8	11107.5	11504.1	12226.2	12642.7	12122.4	11940.5	11732.9	12423.8	12591.5	14187.8
62.5°	11202.7	11303.6	11995.9	13076.2	13905.0	14132.4	13906.4	13448.7	13808.3	13742.9	15153.0
65°	10564.5	10702.4	11943.3	13394.7	15032.2	16040.0	15896.5	15046.4	14988.1	14594.4	15310.8
67.5°	8884.3	9022.2	10615.7	12726.6	15498.5	17691.8	17548.2	16212.0	15704.6	14674.0	14116.8
70°	6500.5	6587.2	8111.0	10715.2	14561.7	18246.2	18295.9	16780.6	15448.7	13592.2	11590.8
72.5°	3745.6	3937.5	5005.0	7538.1	11896.4	16844.6	17190.0	15598.0	13831.0	11339.2	8103.9
75°	1610.5	1614.8	2314.2	4157.8	8057.0	13539.6	13873.7	12929.8	10861.6	7840.9	4327.0
77.5°	766.2	780.4	1017.8	1856.5	4435.0	9354.8	10256.0	9134.5	6946.8	3766.9	1634.7
80°	497.5	507.5	622.6	921.1	2174.9	5424.4	6052.7	5269.4	3064.7	1346.1	705.1
82.5°	301.4	304.2	416.5	562.9	1196.9	2456.3	2895.6	2287.2	1307.8	806.0	415.1
85°	183.4	184.8	253.0	348.3	726.4	848.6	871.4	864.3	767.6	527.4	221.8
87.5°	88.1	91.0	130.8	164.9	285.7	263.0	248.8	288.6	362.5	284.3	95.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522769  
 CATALOG NUMBER: GALN-SA5B-735-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7	2666.7
2.5°	2663.9	2659.6	2649.6	2645.4	2642.5	2644.0	2642.5	2642.5	2644.0	2644.0	2644.0
5°	2676.7	2669.5	2653.9	2653.9	2662.4	2682.3	2700.8	2715.0	2730.7	2729.3	2729.3
7.5°	2732.1	2719.3	2700.8	2706.5	2727.8	2759.1	2791.8	2823.1	2854.3	2857.2	2855.8
10°	2813.1	2800.3	2780.4	2787.5	2821.6	2868.6	2909.8	2955.3	2989.4	2999.3	2996.5
12.5°	2905.5	2879.9	2862.9	2882.8	2936.8	2999.3	3039.1	3073.3	3097.4	3111.6	3105.9
15°	2999.3	2975.2	2955.3	2996.5	3061.9	3120.2	3140.1	3145.7	3150.0	3164.2	3161.4
17.5°	3090.3	3057.6	3050.5	3104.5	3167.1	3192.7	3181.3	3157.1	3138.6	3150.0	3148.6
20°	3171.3	3145.7	3142.9	3196.9	3221.1	3196.9	3148.6	3105.9	3073.3	3076.1	3074.7
22.5°	3248.1	3228.2	3231.0	3253.8	3215.4	3133.0	3053.3	2995.1	2959.5	2966.6	2970.9
25°	3333.4	3313.5	3320.6	3283.6	3157.1	3013.5	2898.4	2848.7	2834.4	2848.7	2858.6
27.5°	3444.3	3431.5	3427.2	3285.1	3053.3	2837.3	2706.5	2688.0	2700.8	2732.1	2747.7
30°	3563.7	3563.7	3540.9	3260.9	2911.2	2625.5	2511.8	2514.6	2558.7	2602.7	2618.4
32.5°	3678.8	3703.0	3631.9	3195.5	2727.8	2419.4	2332.7	2335.5	2373.9	2427.9	2442.1
35°	3774.0	3843.7	3710.1	3076.1	2511.8	2245.9	2180.6	2142.2	2143.6	2184.8	2196.2
37.5°	3904.8	4034.2	3755.6	2898.4	2281.5	2098.1	2024.2	1957.4	1913.3	1896.3	1896.3
40°	4132.3	4322.7	3766.9	2635.4	2064.0	1957.4	1852.2	1772.6	1687.3	1610.5	1596.3
42.5°	4517.5	4757.7	3744.2	2332.7	1867.8	1802.4	1700.1	1602.0	1484.0	1376.0	1367.5
45°	5199.8	5323.5	3683.1	2018.5	1693.0	1653.2	1553.7	1447.1	1322.0	1225.3	1218.2
47.5°	6292.9	6118.1	3602.0	1739.9	1533.8	1522.4	1445.7	1322.0	1196.9	1130.1	1123.0
50°	7889.2	7369.0	3590.7	1538.0	1405.8	1411.5	1349.0	1235.3	1125.8	1070.4	1061.8
52.5°	9811.1	8880.0	3666.0	1395.9	1293.6	1314.9	1283.6	1178.4	1081.8	1034.8	1026.3
55°	11676.1	10239.0	3711.5	1285.0	1188.4	1228.2	1232.4	1144.3	1056.2	1009.3	1003.6
57.5°	13190.0	11262.4	3509.6	1184.1	1097.4	1158.5	1189.8	1124.4	1043.4	1007.8	1002.1
60°	14243.3	11745.7	2935.4	1094.5	1030.6	1103.1	1174.1	1125.8	1074.6	1078.9	1081.8
62.5°	14578.8	11531.1	2201.9	1027.7	985.1	1084.6	1199.7	1184.1	1131.5	1164.2	1169.9
65°	14023.0	10644.1	1596.3	975.1	945.3	1097.4	1276.5	1226.7	1111.6	1135.8	1135.8
67.5°	12162.2	9170.0	1242.4	926.8	899.8	1121.6	1353.3	1222.5	1064.7	1093.1	1067.5
70°	9647.6	7093.2	1034.8	872.8	851.5	1086.0	1360.4	1178.4	1009.3	1014.9	966.6
72.5°	6402.4	4663.9	889.8	821.6	777.6	976.6	1302.1	1121.6	955.2	922.5	874.2
75°	3137.2	2325.5	776.1	757.7	680.9	850.0	1222.5	1067.5	897.0	845.8	818.8
77.5°	1215.4	989.4	662.4	676.6	592.8	749.1	1117.3	990.8	820.2	750.5	729.2
80°	589.9	561.5	543.0	564.3	487.6	638.2	1020.6	924.0	749.1	672.4	641.1
82.5°	366.7	346.8	416.5	439.2	375.3	582.8	968.0	867.1	659.6	557.2	531.6
85°	186.2	199.0	278.6	299.9	268.7	463.4	797.5	651.0	476.2	395.2	398.0
87.5°	71.1	95.2	146.4	157.8	143.6	244.5	439.2	379.5	305.6	207.5	191.9
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)