

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: P453464

Luminaire Tested: **GALN-SA4C-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23208 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

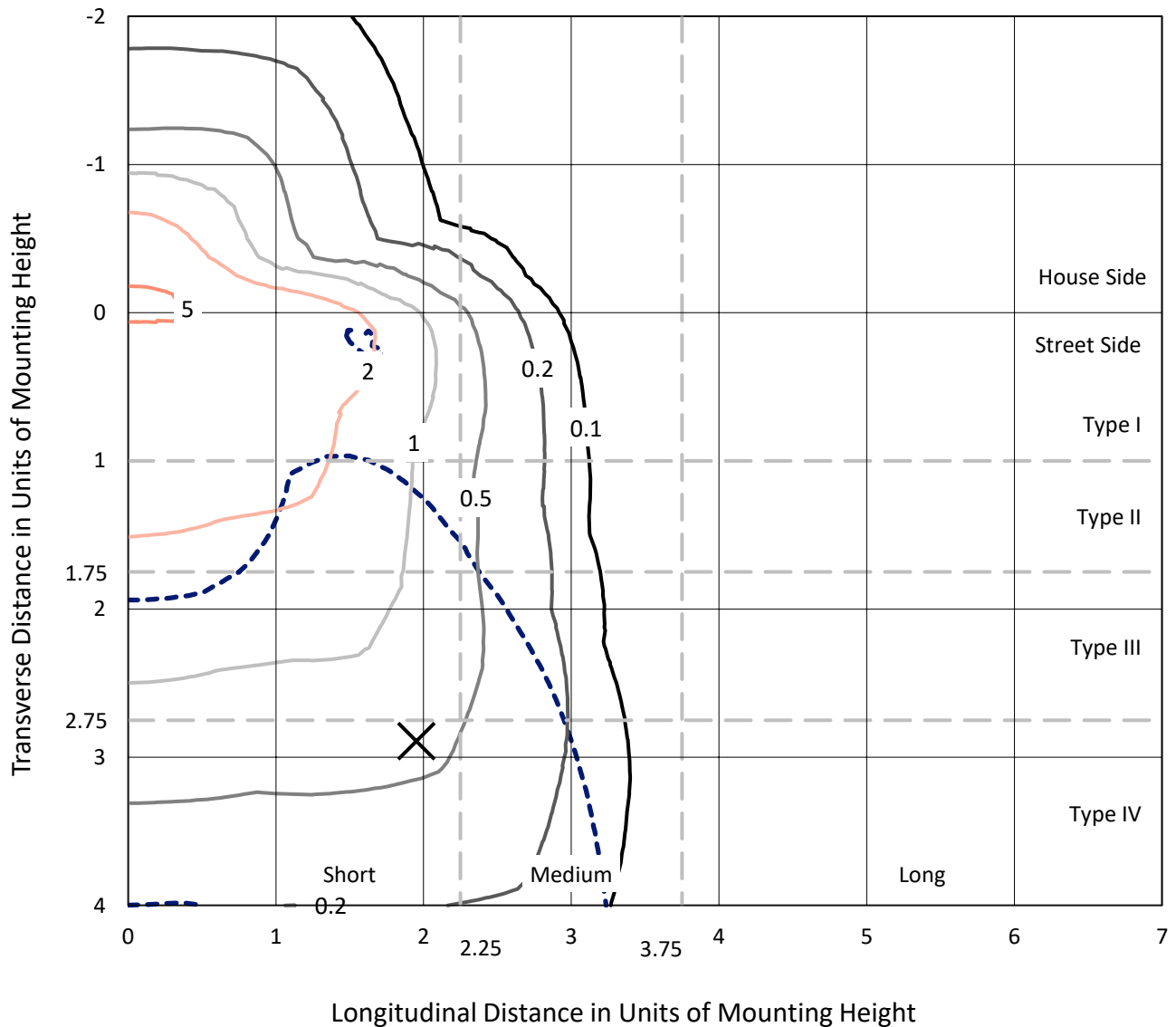
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453464  
 CATALOG NUMBER: GALN-SA4C-727-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

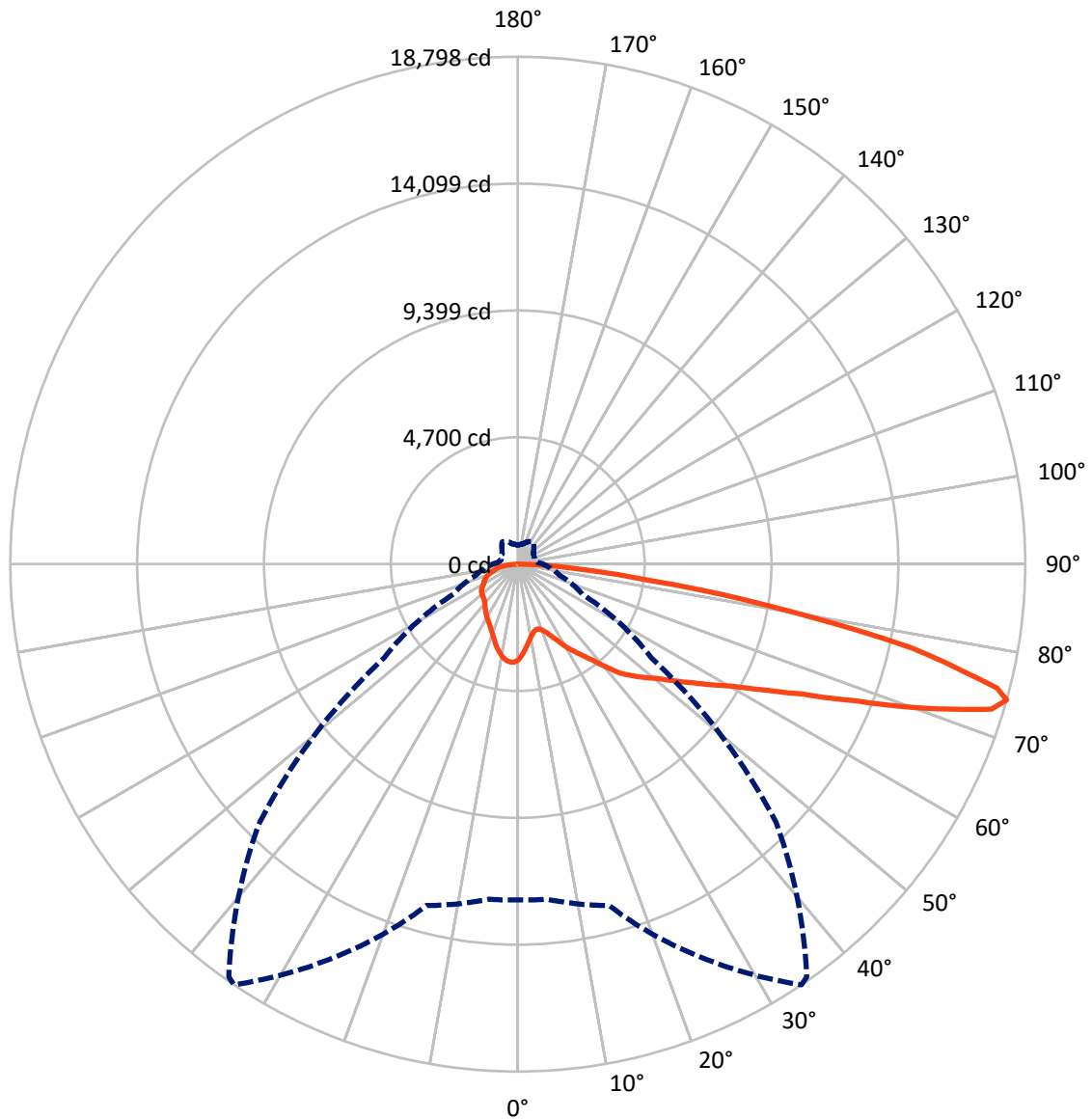
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P453464  
CATALOG NUMBER: GALN-SA4C-727-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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CATALOG NUMBER: GALN-SA4C-727-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4938.8	0.0	4938.8
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	18269.2	0.0	18269.2
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	23208.0	0.0	23208.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.3	1.4
10°-20°	882.2	3.8
20°-30°	1454.5	6.3
30°-40°	2178.6	9.4
40°-50°	3167.1	13.6
50°-60°	4423.7	19.1
60°-70°	5538.2	23.9
70°-80°	4579.7	19.7
80°-90°	661.7	2.9
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°	23208.0	100.0
0°-180°	23208.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453464

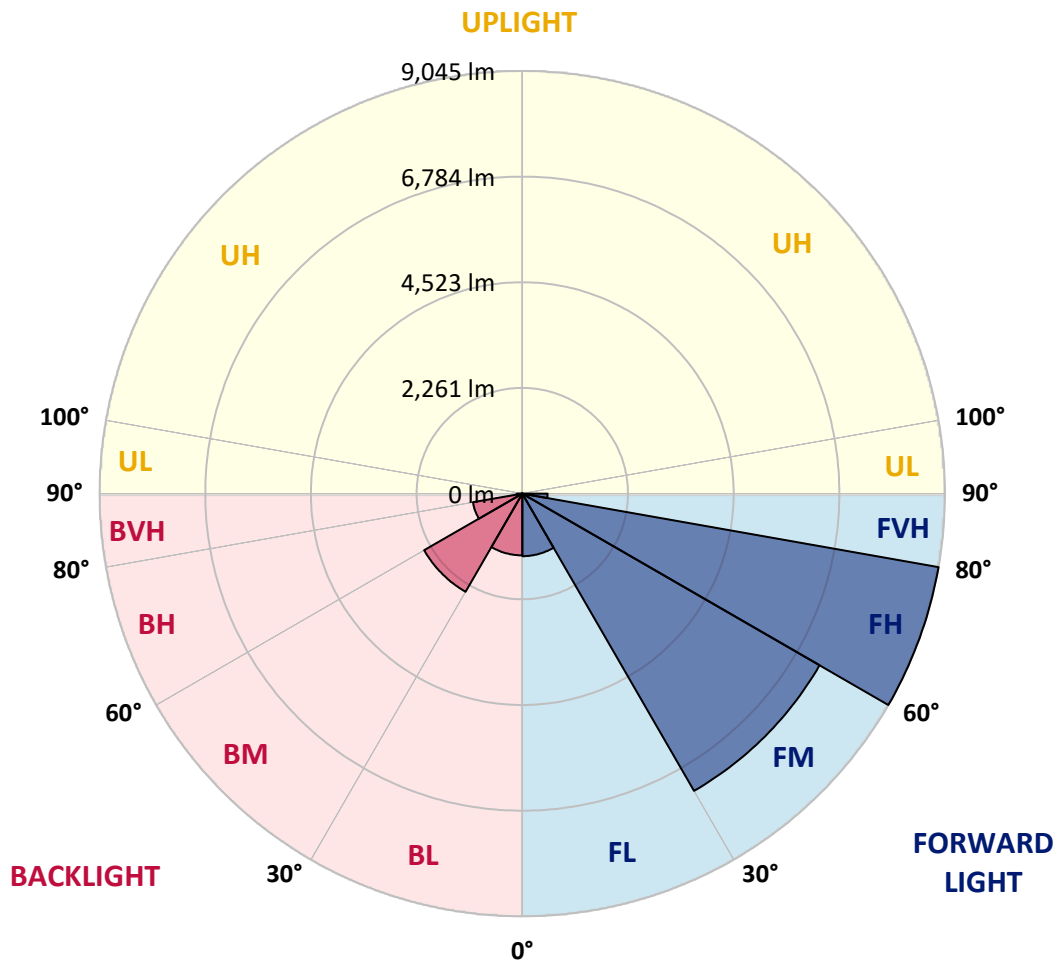
CATALOG NUMBER: GALN-SA4C-727-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.8	5.8			
FM (30°-60°)	7344.0	31.6			
FH (60°-80°)	9045.3	39.0			G4/12000
FVH (80°-90°)	542.1	2.3			G4/750
BL (0°-30°)	1321.1	5.7	B3/2500		
BM (30°-60°)	2425.5	10.5	B2/2500		
BH (60°-80°)	1072.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	119.6	0.5			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: P453464

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4
2.5°	3274.7	3291.4	3300.4	3332.5	3340.3	3350.5	3377.5	3413.5	3459.8	3501.0	3537.0
5°	3002.1	3027.8	3043.3	3071.5	3126.8	3132.0	3204.0	3286.3	3380.1	3467.5	3539.5
7.5°	2743.7	2772.0	2784.8	2836.3	2909.6	2921.1	3026.5	3156.4	3313.3	3445.7	3556.3
10°	2549.6	2563.7	2592.0	2630.6	2718.0	2725.7	2863.3	3036.8	3240.0	3435.4	3584.5
12.5°	2444.1	2451.8	2458.3	2499.4	2585.6	2597.1	2741.1	2937.8	3182.1	3443.1	3630.8
15°	2459.6	2462.1	2433.8	2441.6	2511.0	2527.7	2670.4	2872.3	3146.1	3462.4	3700.3
17.5°	2589.4	2580.4	2511.0	2475.0	2523.8	2531.6	2656.3	2846.6	3129.4	3498.4	3772.3
20°	2793.8	2781.0	2661.4	2581.7	2610.0	2616.4	2702.6	2865.8	3146.1	3557.5	3884.1
22.5°	3048.4	3043.3	2862.0	2765.6	2764.3	2764.3	2809.3	2935.3	3196.3	3638.5	4001.1
25°	3404.5	3377.5	3141.0	3016.3	2981.5	2979.0	2973.8	3049.7	3260.5	3724.7	4140.0
27.5°	3769.7	3723.4	3512.5	3321.0	3246.4	3237.4	3204.0	3211.7	3342.8	3822.4	4298.1
30°	4097.5	4068.0	3870.0	3657.8	3569.1	3548.5	3456.0	3413.5	3480.4	3998.5	4550.1
32.5°	4348.3	4330.3	4176.0	3983.1	3852.0	3848.1	3713.1	3678.4	3695.1	4212.0	4838.1
35°	4551.4	4557.8	4479.4	4312.3	4161.8	4140.0	4050.0	4006.3	3957.4	4520.5	5200.7
37.5°	4829.1	4843.3	4838.1	4694.1	4510.3	4515.4	4494.8	4422.8	4293.0	4865.1	5603.1
40°	5135.1	5145.4	5144.1	5088.8	4992.4	4997.5	4989.8	4907.5	4713.4	5303.5	6050.5
42.5°	5558.1	5509.2	5382.0	5437.2	5493.8	5518.2	5571.0	5492.5	5226.4	5771.5	6471.0
45°	6031.2	5938.7	5650.7	5676.4	5886.0	5932.2	6222.8	6114.8	5783.1	6309.0	6965.9
47.5°	6329.5	6238.2	5995.2	5990.1	6267.8	6312.8	6827.1	6787.2	6289.7	6888.8	7570.2
50°	6595.7	6582.8	6309.0	6374.5	6645.8	6712.7	7485.4	7448.1	6795.0	7572.8	8228.5
52.5°	6990.4	6886.2	6667.7	6802.7	7161.4	7248.8	8138.5	8029.2	7259.1	8177.1	8867.5
55°	7167.8	7143.4	7130.5	7247.5	7739.9	7802.9	8773.6	8522.9	7655.1	8688.8	9353.5
57.5°	7642.2	7597.2	7724.5	7804.2	8421.4	8517.8	9437.1	9038.5	8002.2	9095.1	9590.1
60°	8256.8	8232.4	8349.4	8493.4	9182.5	9329.1	10193.1	9478.2	8281.2	9299.5	9460.2
62.5°	9174.8	9172.2	9150.4	9458.9	10261.2	10396.2	11060.9	9906.4	8324.9	9146.5	8789.1
65°	10491.4	10445.1	10254.8	10591.6	11603.5	11761.6	11964.8	10145.5	8061.4	8360.9	7400.5
67.5°	11868.3	11865.8	11711.5	12148.6	13530.8	13694.0	13094.9	10092.8	7329.8	6773.1	5256.0
70°	13010.0	12954.8	13151.5	14316.3	15992.9	16181.9	14083.6	9471.8	5838.4	4473.0	3123.0
72.5°	13283.9	13286.5	13695.3	15987.7	18357.3	18386.9	14439.8	7676.9	3907.3	2467.3	1562.1
74°	12440.5	12462.3	13096.2	16071.3	18798.3	18664.6	13529.5	6033.8	2642.1	1611.0	1126.3
75°	11355.3	11217.8	12134.5	15514.6	18340.6	18196.6	12463.6	4842.0	2016.0	1287.0	986.1
77.5°	6071.1	6211.2	7625.5	11577.8	14900.0	14734.2	8450.9	2322.0	1089.0	896.1	709.7
80°	2161.3	2383.7	3350.5	6058.2	9552.8	9604.2	4033.3	1064.6	766.3	660.9	501.4
82.5°	882.0	906.4	1438.7	2688.4	4851.0	4897.2	1647.0	632.6	547.7	455.1	299.6
85°	344.6	354.9	636.4	1208.6	2070.0	2205.0	569.6	334.3	336.9	261.0	153.0
87.5°	115.7	131.1	261.0	402.4	703.3	689.1	165.9	99.0	120.9	113.1	47.6
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: P453464

CATALOG NUMBER: GALN-SA4C-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4	3543.4
2.5°	3555.0	3579.4	3596.1	3614.1	3630.8	3636.0	3632.1	3643.7	3645.0	3646.3	3647.5
5°	3575.5	3609.0	3641.1	3659.1	3666.8	3660.4	3638.5	3627.0	3616.7	3609.0	3611.5
7.5°	3603.8	3651.4	3681.0	3688.7	3668.1	3638.5	3584.5	3542.1	3515.1	3497.1	3495.8
10°	3647.5	3693.8	3718.3	3696.4	3639.8	3567.8	3483.0	3403.3	3342.8	3324.8	3323.5
12.5°	3702.8	3755.5	3754.3	3690.0	3591.0	3462.4	3324.8	3232.3	3150.0	3108.8	3125.5
15°	3774.8	3814.7	3777.4	3661.7	3504.8	3328.7	3159.0	3033.0	2940.4	2896.7	2899.3
17.5°	3858.4	3893.1	3794.1	3611.5	3384.0	3157.7	2961.0	2841.4	2768.1	2736.0	2733.4
20°	3962.5	3972.8	3794.1	3524.1	3228.4	2958.4	2770.7	2687.1	2646.0	2629.3	2634.4
22.5°	4074.4	4053.8	3773.5	3400.7	3024.0	2750.1	2624.1	2586.8	2566.3	2563.7	2566.3
25°	4200.4	4142.5	3731.1	3233.5	2810.6	2570.1	2496.8	2503.3	2507.1	2507.1	2516.1
27.5°	4354.7	4239.0	3660.4	3022.7	2561.1	2403.0	2382.4	2427.4	2448.0	2451.8	2458.3
30°	4557.8	4344.4	3543.4	2759.1	2349.0	2252.6	2288.6	2349.0	2372.1	2386.3	2383.7
32.5°	4799.5	4460.1	3385.3	2495.6	2178.0	2147.1	2190.8	2252.6	2278.3	2286.0	2275.7
35°	5083.7	4591.3	3177.0	2248.7	2028.8	2046.8	2098.3	2117.6	2140.7	2140.7	2145.8
37.5°	5389.7	4696.7	2922.4	2022.4	1913.1	1978.7	2016.0	1998.0	1987.7	1974.8	1981.3
40°	5700.8	4775.1	2592.0	1798.7	1797.4	1908.0	1918.3	1866.8	1825.7	1812.8	1806.4
42.5°	5972.1	4824.0	2293.7	1625.1	1688.1	1838.6	1846.3	1764.0	1698.4	1659.8	1647.0
45°	6292.2	4880.5	2001.8	1481.1	1586.6	1783.3	1802.6	1692.0	1595.6	1514.6	1494.0
47.5°	6730.7	5009.1	1771.7	1369.3	1513.3	1748.6	1775.6	1632.8	1505.6	1400.1	1383.4
50°	7225.7	5185.2	1593.0	1293.4	1456.7	1717.7	1751.1	1572.4	1422.0	1305.0	1292.1
52.5°	7679.5	5280.4	1438.7	1225.3	1401.4	1661.1	1719.0	1528.7	1339.7	1209.8	1198.3
55°	7927.7	5126.1	1287.0	1158.4	1325.6	1587.8	1674.0	1468.3	1260.0	1159.7	1143.0
57.5°	7961.1	4807.3	1149.4	1086.4	1245.8	1497.8	1590.4	1395.0	1208.6	1125.0	1110.8
60°	7702.7	4331.5	1042.7	1027.3	1164.8	1396.3	1496.6	1330.7	1155.8	1086.4	1072.3
62.5°	7059.8	3814.7	968.1	973.3	1082.6	1289.6	1427.1	1269.0	1105.7	1044.0	1031.1
65°	5954.1	3148.7	896.1	918.0	1009.3	1206.0	1364.1	1217.6	1055.6	1011.8	1000.3
67.5°	4136.1	2273.1	837.0	860.1	939.9	1121.1	1290.8	1162.3	999.0	975.8	957.9
70°	2289.8	1398.8	767.6	794.6	867.9	1026.0	1208.6	1078.7	916.7	906.4	880.7
72.5°	1203.4	891.0	689.1	718.7	770.1	903.9	1082.6	987.4	835.7	792.0	758.6
74°	939.9	730.3	636.4	667.3	702.0	831.9	1008.0	921.9	777.9	726.4	700.7
75°	819.0	650.6	591.4	631.3	662.1	783.0	950.1	875.6	745.7	696.9	673.7
77.5°	578.6	487.3	483.4	531.0	547.7	686.6	856.3	797.1	664.7	613.3	591.4
80°	406.3	365.1	383.1	412.7	435.9	606.9	794.6	689.1	545.1	484.7	477.0
82.5°	264.9	239.1	273.9	300.9	308.6	447.4	641.6	523.3	397.3	322.7	299.6
85°	122.1	119.6	156.9	153.0	151.7	218.6	380.6	306.0	228.9	171.0	160.7
87.5°	30.9	29.6	38.6	32.1	38.6	33.4	34.7	9.0	1.3	0.0	0.0
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)