

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: P647032

Luminaire Tested: **GALN-SA6C-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647032  
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-SA6C-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 32666.8 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

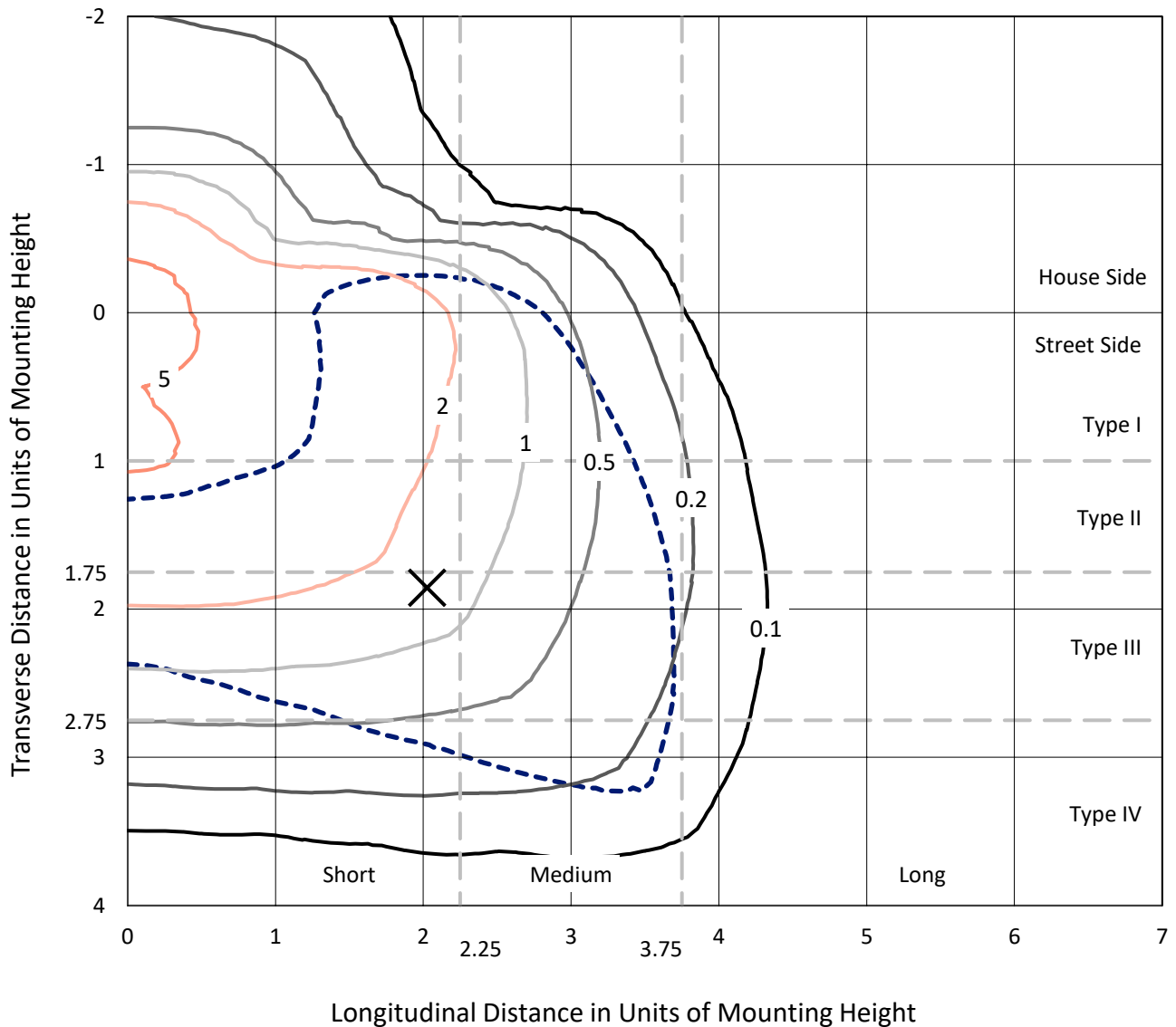
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

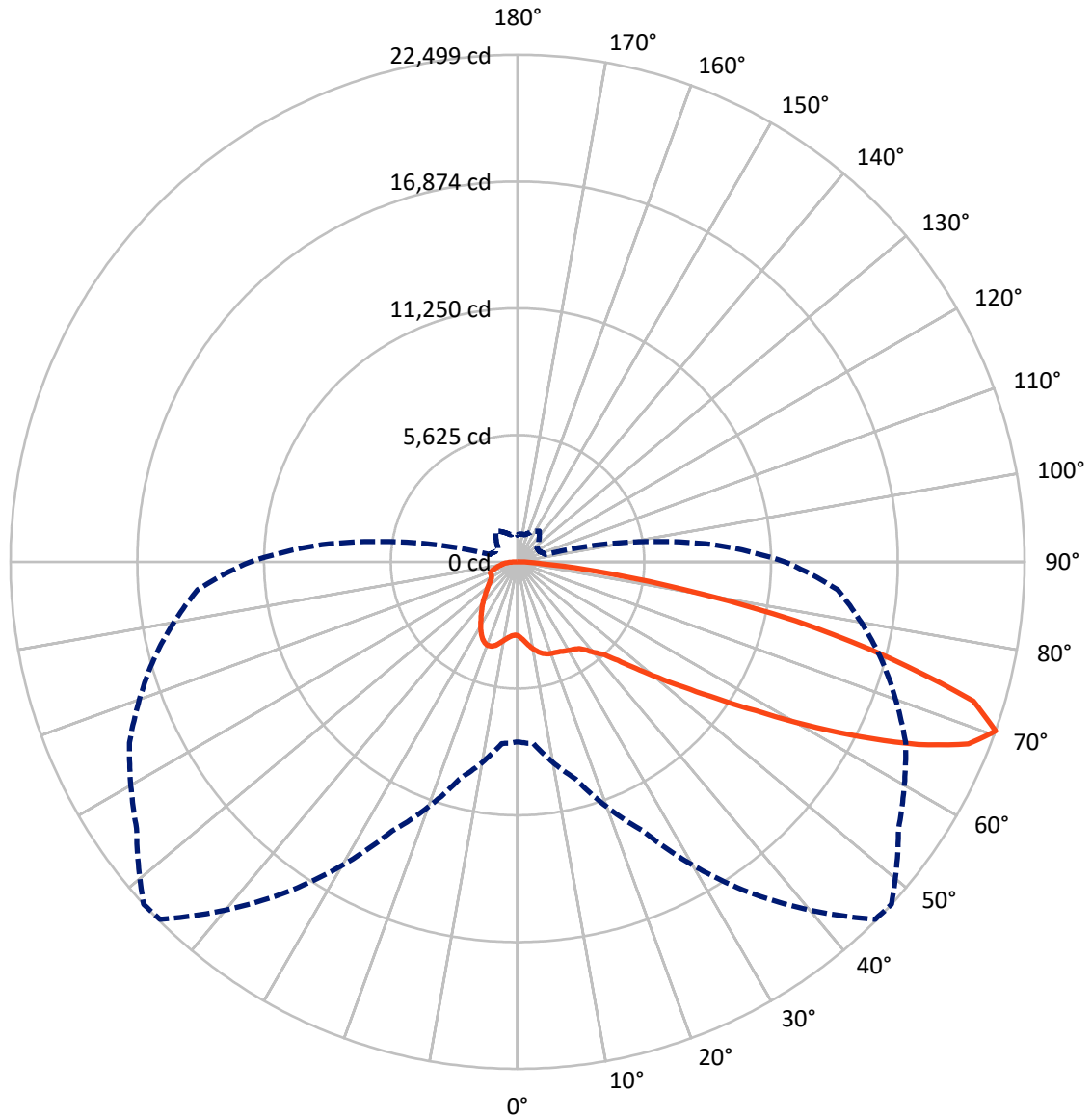
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	7396.4	0.0	7396.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25270.4	0.0	25270.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	32666.8	0.0	32666.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.0	1.0
10°-20°	1130.1	3.5
20°-30°	1879.3	5.8
30°-40°	2663.6	8.2
40°-50°	3932.1	12.0
50°-60°	6810.5	20.8
60°-70°	9620.0	29.4
70°-80°	5530.1	16.9
80°-90°	763.0	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°	32666.8	100.0
0°-180°	32666.8	100.0

**Coefficient of Utilization**

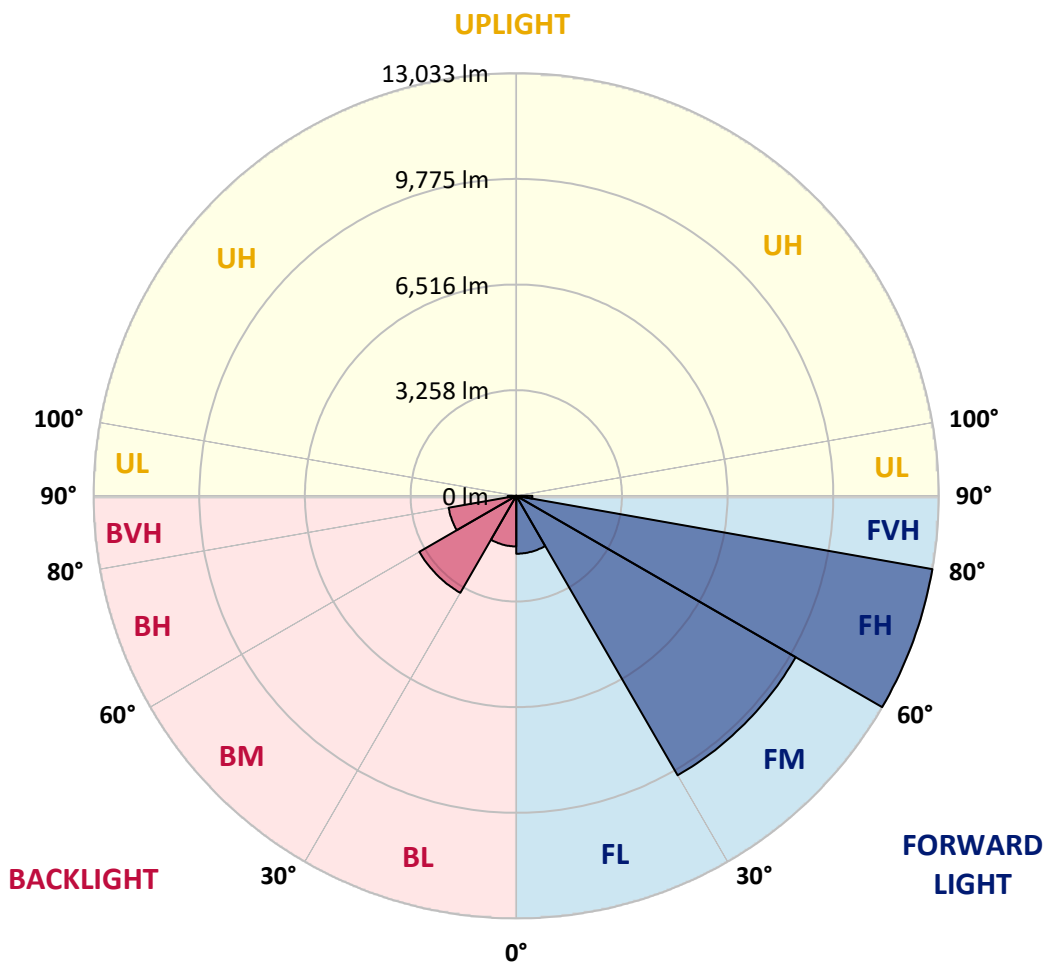


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.3	5.5			
FM (30°-60°)	9952.9	30.5			
FH (60°-80°)	13032.7	39.9			G5
FVH (80°-90°)	498.4	1.5			G3/500
BL (0°-30°)	1561.1	4.8	B3/2500		
BM (30°-60°)	3453.2	10.6	B3/5000		
BH (60°-80°)	2117.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	264.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4
2.5°	3490.8	3478.6	3476.9	3450.7	3436.7	3410.4	3399.9	3375.5	3345.8	3316.1	3288.1
5°	3765.3	3765.3	3753.1	3716.4	3658.6	3599.2	3573.0	3525.8	3441.9	3373.7	3316.1
7.5°	4046.8	4050.2	4025.8	3971.6	3889.4	3793.2	3768.8	3698.9	3580.0	3480.4	3394.7
10°	4289.7	4289.7	4256.5	4183.1	4080.0	3975.1	3950.6	3871.9	3739.1	3615.0	3503.1
12.5°	4475.0	4475.0	4431.3	4335.2	4223.3	4128.9	4101.0	4025.8	3901.7	3763.6	3622.0
15°	4595.7	4586.9	4538.0	4429.6	4321.2	4239.0	4219.8	4156.9	4043.3	3903.4	3744.3
17.5°	4600.9	4597.4	4550.2	4459.3	4364.9	4308.9	4296.7	4254.7	4165.6	4032.8	3865.0
20°	4499.5	4506.5	4475.0	4410.3	4364.9	4340.4	4335.2	4321.2	4258.3	4134.2	3966.4
22.5°	4391.1	4403.4	4373.6	4338.7	4335.2	4359.7	4363.1	4366.6	4326.5	4205.8	4052.0
25°	4364.9	4373.6	4343.9	4312.5	4331.7	4396.4	4410.3	4424.3	4392.9	4291.5	4153.3
27.5°	4497.7	4490.7	4433.0	4364.9	4377.1	4464.5	4483.8	4499.5	4483.8	4396.4	4279.3
30°	4873.5	4850.8	4735.5	4536.2	4473.3	4534.4	4553.7	4597.4	4597.4	4532.7	4415.6
32.5°	5502.8	5459.2	5247.7	4856.1	4637.6	4600.9	4620.1	4691.8	4728.5	4677.8	4550.2
35°	6266.7	6221.3	5918.9	5392.8	4938.2	4733.7	4728.5	4808.9	4906.8	4793.1	4627.1
37.5°	7034.2	6986.9	6623.4	6032.5	5377.0	5013.4	4981.9	5009.9	5051.8	4843.9	4733.7
40°	7801.6	7745.6	7427.5	6747.5	5913.7	5384.0	5301.8	5176.0	5158.5	5009.9	4940.0
42.5°	8561.9	8511.3	8350.5	7549.8	6556.9	5745.9	5620.0	5403.2	5469.6	5380.5	5319.3
45°	9329.4	9332.9	9161.6	8450.1	7333.1	6413.6	6244.0	5904.9	6062.2	6029.0	6064.0
47.5°	10009.3	10000.6	9939.4	9324.1	8296.3	7273.7	7055.1	6661.8	6931.0	7053.4	7320.8
50°	10668.4	10663.1	10666.7	10315.2	9415.0	8296.3	8055.0	7642.5	8249.1	8673.8	9152.8
52.5°	11612.4	11642.0	11430.5	11337.9	10775.0	9504.1	9238.5	8812.0	9806.6	10476.1	11411.3
55°	12559.8	12535.3	12369.2	12465.4	12197.9	10934.0	10656.2	10317.0	11540.6	12273.1	13678.5
57.5°	13117.4	13126.1	13295.7	13765.9	13954.7	12717.1	12465.4	12203.1	13489.8	14008.9	15695.8
60°	13619.1	13659.3	14147.0	15035.0	15547.2	14907.4	14683.7	14428.4	15278.0	15484.3	17447.4
62.5°	13776.4	13900.5	14751.8	16080.3	17099.5	17379.2	17101.2	16538.4	16980.6	16900.2	18634.2
65°	12991.5	13161.1	14687.1	16471.9	18485.7	19725.0	19548.5	18503.2	18431.5	17947.3	18828.3
67.5°	10925.4	11094.9	13054.5	15650.3	19059.0	21756.3	21579.7	19936.6	19312.5	18045.2	17359.9
70°	7993.9	8100.4	9974.4	13176.8	17907.1	22438.0	22499.2	20635.8	18997.9	16714.9	14253.7
72.5°	4606.2	4842.1	6154.9	9269.9	14629.5	20714.4	21139.2	19181.4	17008.6	13944.2	9965.6
75°	1980.5	1985.8	2845.8	5113.1	9908.0	16650.2	17061.0	15900.3	13356.9	9642.3	5321.1
77.5°	942.2	959.6	1251.6	2283.0	5453.9	11503.9	12612.2	11233.0	8542.8	4632.3	2010.3
80°	611.8	624.1	765.6	1132.8	2674.5	6670.6	7443.2	6480.0	3768.8	1655.4	867.0
82.5°	370.6	374.1	512.2	692.3	1471.9	3020.7	3560.8	2812.6	1608.2	991.1	510.4
85°	225.5	227.2	311.2	428.3	893.2	1043.6	1071.5	1062.8	944.0	648.6	272.7
87.5°	108.4	111.9	160.8	202.8	351.3	323.4	305.9	354.9	445.8	349.6	117.1
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°	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4	3279.4
2.5°	3275.8	3270.6	3258.4	3253.1	3249.6	3251.4	3249.6	3249.6	3251.4	3251.4	3251.4
5°	3291.6	3282.9	3263.6	3263.6	3274.1	3298.5	3321.3	3338.8	3358.0	3356.3	3356.3
7.5°	3359.8	3344.0	3321.3	3328.3	3354.5	3393.0	3433.1	3471.7	3510.1	3513.6	3511.8
10°	3459.4	3443.6	3419.2	3427.9	3469.9	3527.6	3578.2	3634.2	3676.2	3688.4	3684.9
12.5°	3573.0	3541.6	3520.6	3545.0	3611.5	3688.4	3737.3	3779.3	3809.0	3826.5	3819.5
15°	3688.4	3658.6	3634.2	3684.9	3765.3	3837.0	3861.4	3868.4	3873.7	3891.2	3887.7
17.5°	3800.3	3760.0	3751.4	3817.8	3894.6	3926.1	3912.2	3882.4	3859.7	3873.7	3871.9
20°	3899.9	3868.4	3865.0	3931.4	3961.1	3931.4	3871.9	3819.5	3779.3	3782.8	3781.0
22.5°	3994.3	3969.8	3973.3	4001.3	3954.1	3852.7	3754.8	3683.2	3639.5	3648.2	3653.4
25°	4099.2	4074.7	4083.4	4038.0	3882.4	3705.9	3564.3	3503.1	3485.6	3503.1	3515.4
27.5°	4235.6	4219.8	4214.6	4039.7	3754.8	3489.1	3328.3	3305.6	3321.3	3359.8	3379.0
30°	4382.4	4382.4	4354.4	4010.1	3580.0	3228.6	3088.8	3092.3	3146.5	3200.7	3219.9
32.5°	4523.9	4553.7	4466.3	3929.6	3354.5	2975.2	2868.5	2872.0	2919.3	2985.7	3003.1
35°	4641.1	4726.7	4562.4	3782.8	3088.8	2762.0	2681.5	2634.3	2636.0	2686.8	2700.7
37.5°	4801.9	4961.0	4618.4	3564.3	2805.6	2580.1	2489.2	2407.1	2352.9	2331.9	2331.9
40°	5081.6	5315.9	4632.3	3240.9	2538.2	2407.1	2277.7	2179.8	2075.0	1980.5	1963.1
42.5°	5555.3	5850.7	4604.4	2868.5	2296.9	2216.5	2090.7	1970.0	1824.9	1692.1	1681.6
45°	6394.4	6546.4	4529.2	2482.3	2081.9	2033.0	1910.6	1779.5	1625.7	1506.8	1498.1
47.5°	7738.6	7523.6	4429.6	2139.6	1886.2	1872.2	1777.8	1625.7	1471.9	1389.7	1381.0
50°	9701.7	9061.9	4415.6	1891.4	1728.9	1735.8	1658.9	1519.0	1384.4	1316.3	1305.8
52.5°	12065.1	10920.1	4508.2	1716.6	1590.7	1617.0	1578.5	1449.1	1330.2	1272.6	1262.1
55°	14358.5	12591.3	4564.2	1580.3	1461.4	1510.3	1515.6	1407.2	1298.8	1241.1	1234.2
57.5°	16220.2	13849.9	4316.0	1456.1	1349.5	1424.7	1463.1	1382.7	1283.1	1239.3	1232.4
60°	17515.5	14444.2	3609.7	1346.0	1267.4	1356.5	1443.9	1384.4	1321.5	1326.8	1330.2
62.5°	17928.0	14180.2	2707.8	1263.8	1211.4	1333.8	1475.3	1456.1	1391.5	1431.6	1438.7
65°	17244.6	13089.4	1963.1	1199.2	1162.4	1349.5	1569.8	1508.6	1367.0	1396.7	1396.7
67.5°	14956.3	11276.7	1527.8	1139.7	1106.5	1379.2	1664.1	1503.4	1309.3	1344.3	1312.8
70°	11864.0	8722.8	1272.6	1073.3	1047.1	1335.5	1672.9	1449.1	1241.1	1248.1	1188.7
72.5°	7873.2	5735.4	1094.3	1010.4	956.2	1200.9	1601.2	1379.2	1174.7	1134.5	1075.1
75°	3857.9	2859.8	954.4	931.7	837.3	1045.3	1503.4	1312.8	1103.0	1040.1	1006.9
77.5°	1494.6	1216.6	814.6	832.1	729.0	921.2	1374.0	1218.4	1008.7	923.0	896.8
80°	725.4	690.4	667.7	694.0	599.6	784.9	1255.1	1136.2	921.2	826.8	788.4
82.5°	451.0	426.5	512.2	540.1	461.5	716.7	1190.4	1066.3	811.1	685.2	653.8
85°	229.0	244.8	342.6	368.9	330.3	569.9	980.6	800.6	585.6	485.9	489.5
87.5°	87.4	117.1	180.0	194.0	176.6	300.7	540.1	466.7	375.8	255.2	236.0
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)