

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: P522839

Luminaire Tested: **GALN-SA7B-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522839  
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-SA7B-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 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: 33170 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

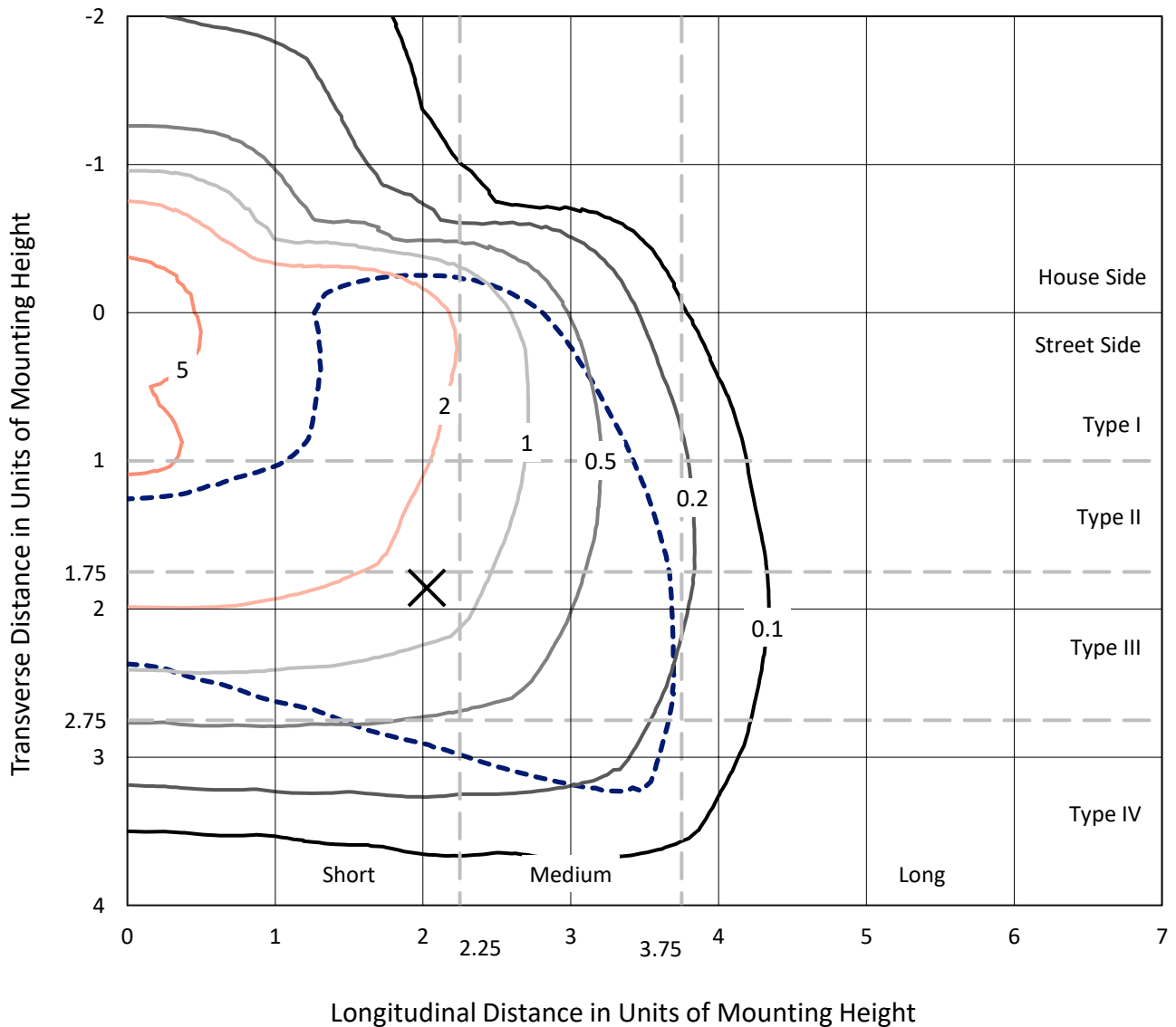
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

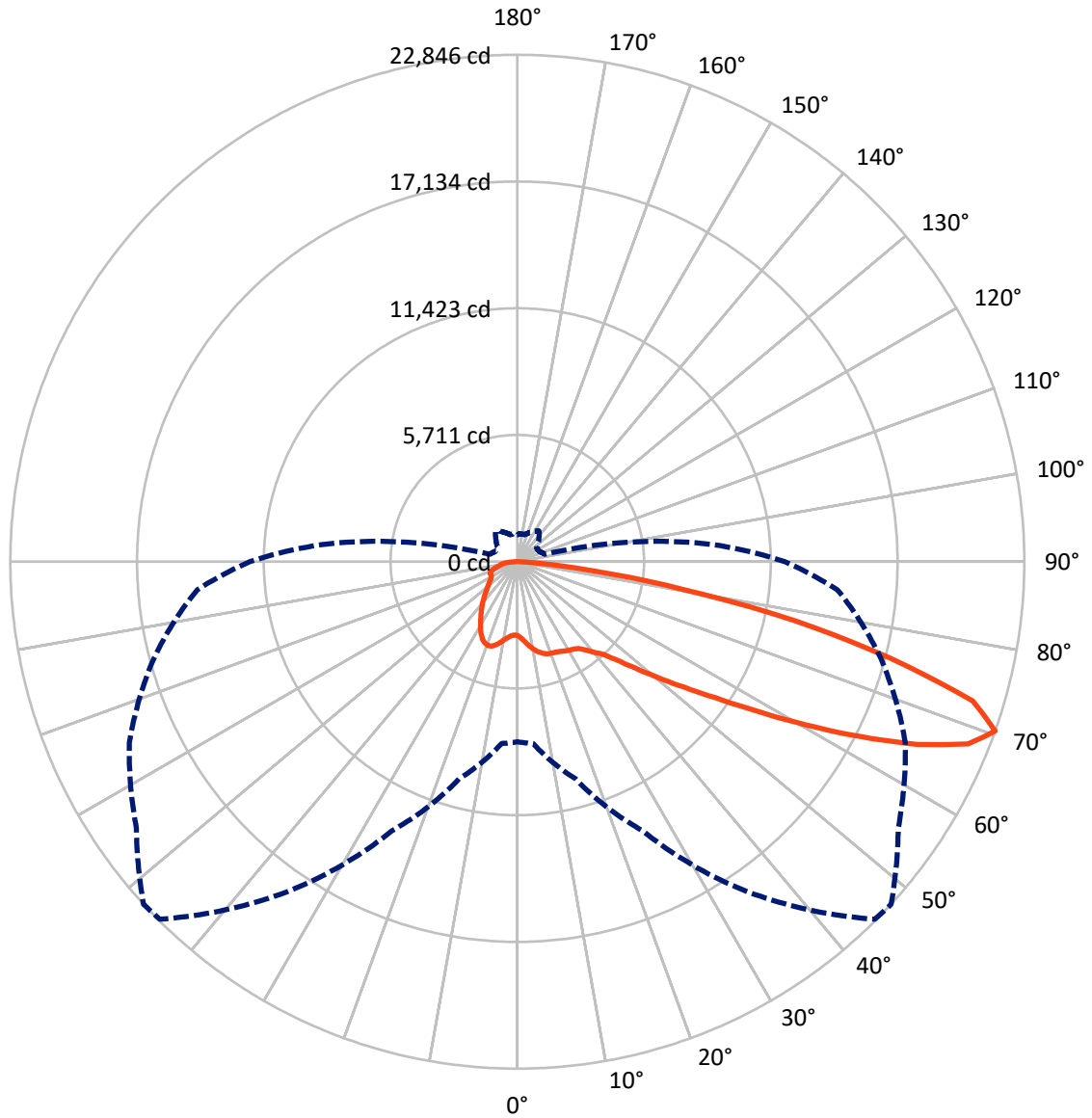
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	7510.3	0.0	7510.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25659.7	0.0	25659.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	33170.0	0.0	33170.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	1.0
10°-20°	1147.5	3.5
20°-30°	1908.2	5.8
30°-40°	2704.6	8.2
40°-50°	3992.6	12.0
50°-60°	6915.4	20.8
60°-70°	9768.2	29.4
70°-80°	5615.3	16.9
80°-90°	774.8	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°	33170.0	100.0
0°-180°	33170.0	100.0

**Coefficient of Utilization**



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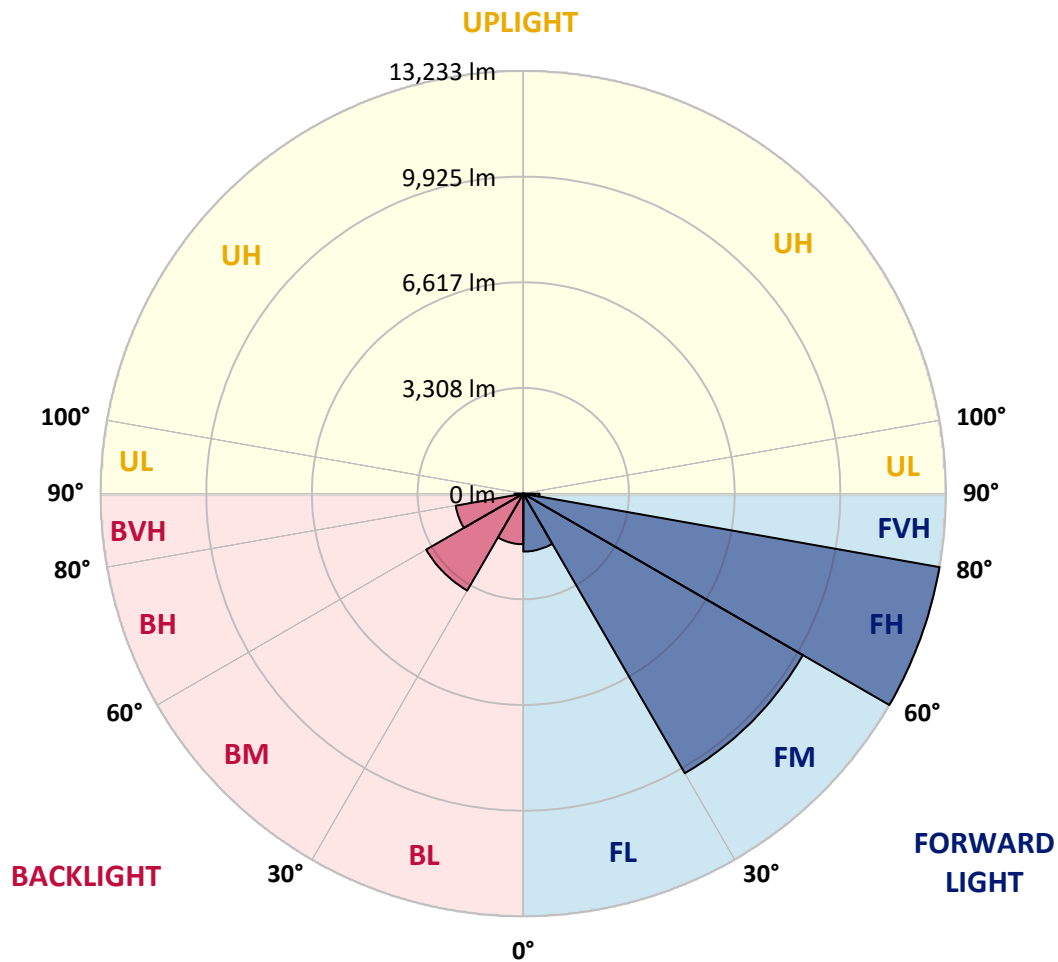
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.9	5.5			
FM	(30°-60°)	10106.3	30.5			
FH	(60°-80°)	13233.4	39.9			G5
FVH	(80°-90°)	506.1	1.5			G4/750
BL	(0°-30°)	1585.1	4.8	B3/2500		
BM	(30°-60°)	3506.4	10.6	B3/5000		
BH	(60°-80°)	2150.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	268.7	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°	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9
2.5°	3544.6	3532.2	3530.4	3503.8	3489.6	3463.0	3452.3	3427.5	3397.3	3367.1	3338.7
5°	3823.3	3823.3	3810.9	3773.6	3715.0	3654.7	3628.1	3580.1	3494.9	3425.7	3367.1
7.5°	4109.1	4112.6	4087.8	4032.8	3949.3	3851.7	3826.9	3755.9	3635.2	3534.0	3447.0
10°	4355.8	4355.8	4322.1	4247.5	4142.8	4036.3	4011.5	3931.6	3796.7	3670.7	3557.1
12.5°	4544.0	4544.0	4499.6	4402.0	4288.4	4192.5	4164.1	4087.8	3961.8	3821.5	3677.8
15°	4666.4	4657.6	4607.9	4497.8	4387.8	4304.3	4284.8	4220.9	4105.5	3963.5	3802.0
17.5°	4671.8	4668.2	4620.3	4528.0	4432.1	4375.3	4362.9	4320.3	4229.8	4094.9	3924.5
20°	4568.8	4575.9	4544.0	4478.3	4432.1	4407.3	4402.0	4387.8	4323.9	4197.8	4027.4
22.5°	4458.8	4471.2	4441.0	4405.5	4402.0	4426.8	4430.4	4433.9	4393.1	4270.6	4114.4
25°	4432.1	4441.0	4410.8	4378.9	4398.4	4464.1	4478.3	4492.5	4460.5	4357.6	4217.4
27.5°	4567.0	4559.9	4501.4	4432.1	4444.6	4533.3	4552.8	4568.8	4552.8	4464.1	4345.2
30°	4948.7	4925.6	4808.4	4606.1	4542.2	4604.3	4623.8	4668.2	4668.2	4602.5	4483.6
32.5°	5587.6	5543.3	5328.5	4930.9	4709.0	4671.8	4691.3	4764.1	4801.3	4749.9	4620.3
35°	6363.3	6317.2	6010.1	5475.8	5014.3	4806.7	4801.3	4883.0	4982.4	4867.0	4698.4
37.5°	7142.5	7094.6	6725.4	6125.5	5459.8	5090.7	5058.7	5087.1	5129.7	4918.5	4806.7
40°	7921.8	7865.0	7541.9	6851.4	6004.8	5466.9	5383.5	5255.7	5238.0	5087.1	5016.1
42.5°	8693.9	8642.4	8479.1	7666.2	6658.0	5834.4	5706.6	5486.5	5553.9	5463.4	5401.3
45°	9473.1	9476.6	9302.7	8580.3	7446.1	6512.4	6340.2	5995.9	6155.6	6121.9	6157.4
47.5°	10163.6	10154.7	10092.6	9467.8	8424.1	7385.7	7163.8	6764.5	7037.8	7162.1	7433.6
50°	10832.7	10827.4	10830.9	10474.2	9560.1	8424.1	8179.1	7760.2	8376.1	8807.5	9293.8
52.5°	11791.2	11821.4	11606.6	11512.5	10941.0	9650.6	9380.8	8947.7	9957.7	10637.5	11587.1
55°	12753.3	12728.4	12559.8	12657.4	12385.8	11102.5	10820.3	10476.0	11718.4	12462.2	13889.2
57.5°	13319.5	13328.4	13500.5	13978.0	14169.7	12913.0	12657.4	12391.2	13697.5	14224.7	15937.6
60°	13828.9	13869.7	14364.9	15266.6	15786.7	15137.1	14909.9	14650.7	15513.4	15722.8	17716.1
62.5°	13988.6	14114.7	14979.1	16328.1	17362.9	17646.9	17364.7	16793.1	17242.2	17160.5	18921.3
65°	13191.7	13363.9	14913.4	16725.7	18770.4	20028.9	19849.6	18788.2	18715.4	18223.8	19118.3
67.5°	11093.6	11265.8	13255.6	15891.4	19352.6	22091.4	21912.2	20243.7	19610.0	18323.2	17627.4
70°	8117.0	8225.3	10128.1	13379.8	18182.9	22783.7	22845.8	20953.7	19290.5	16972.4	14473.2
72.5°	4677.1	4916.7	6249.7	9412.7	14854.8	21033.6	21464.9	19476.9	17270.6	14159.0	10119.2
75°	2011.1	2016.4	2889.7	5191.8	10060.6	16906.7	17323.8	16145.2	13562.6	9790.8	5403.0
77.5°	956.7	974.5	1270.9	2318.1	5537.9	11681.2	12806.5	11406.0	8674.3	4703.7	2041.2
80°	621.2	633.7	777.4	1150.2	2715.7	6773.3	7557.9	6579.9	3826.9	1680.9	880.4
82.5°	376.3	379.8	520.1	702.9	1494.5	3067.2	3615.6	2855.9	1633.0	1006.4	518.3
85°	229.0	230.7	315.9	434.9	907.0	1059.7	1088.1	1079.2	958.5	658.5	276.9
87.5°	110.0	113.6	163.3	205.9	356.8	328.4	310.6	360.3	452.6	355.0	118.9
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°	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9	3329.9
2.5°	3326.3	3321.0	3308.6	3303.2	3299.7	3301.5	3299.7	3299.7	3301.5	3301.5	3301.5
5°	3342.3	3333.4	3313.9	3313.9	3324.5	3349.4	3372.5	3390.2	3409.7	3408.0	3408.0
7.5°	3411.5	3395.5	3372.5	3379.6	3406.2	3445.2	3486.1	3525.1	3564.2	3567.7	3565.9
10°	3512.7	3496.7	3471.9	3480.7	3523.3	3581.9	3633.4	3690.2	3732.8	3745.2	3741.7
12.5°	3628.1	3596.1	3574.8	3599.7	3667.1	3745.2	3794.9	3837.5	3867.7	3885.4	3878.3
15°	3745.2	3715.0	3690.2	3741.7	3823.3	3896.1	3920.9	3928.0	3933.4	3951.1	3947.6
17.5°	3858.8	3818.0	3809.1	3876.6	3954.7	3986.6	3972.4	3942.2	3919.2	3933.4	3931.6
20°	3960.0	3928.0	3924.5	3991.9	4022.1	3991.9	3931.6	3878.3	3837.5	3841.1	3839.3
22.5°	4055.8	4031.0	4034.5	4062.9	4015.0	3912.1	3812.7	3739.9	3695.5	3704.4	3709.7
25°	4162.3	4137.5	4146.4	4100.2	3942.2	3763.0	3619.2	3557.1	3539.3	3557.1	3569.5
27.5°	4300.8	4284.8	4279.5	4102.0	3812.7	3542.9	3379.6	3356.5	3372.5	3411.5	3431.0
30°	4449.9	4449.9	4421.5	4071.8	3635.2	3278.4	3136.4	3139.9	3195.0	3250.0	3269.5
32.5°	4593.7	4623.8	4535.1	3990.2	3406.2	3021.0	2912.7	2916.3	2964.2	3031.7	3049.4
35°	4712.6	4799.6	4632.7	3841.1	3136.4	2804.5	2722.8	2674.9	2676.7	2728.1	2742.3
37.5°	4875.9	5037.4	4689.5	3619.2	2848.8	2619.9	2527.6	2444.2	2389.1	2367.8	2367.8
40°	5159.9	5397.7	4703.7	3290.8	2577.3	2444.2	2312.8	2213.4	2106.9	2011.1	1993.3
42.5°	5640.9	5940.9	4675.3	2912.7	2332.3	2250.7	2122.9	2000.4	1853.1	1718.2	1707.5
45°	6492.9	6647.3	4599.0	2520.5	2114.0	2064.3	1940.1	1806.9	1650.7	1530.0	1521.2
47.5°	7857.9	7639.5	4497.8	2172.6	1915.2	1901.0	1805.2	1650.7	1494.5	1411.1	1402.2
50°	9851.2	9201.5	4483.6	1920.5	1755.5	1762.6	1684.5	1542.5	1405.8	1336.6	1325.9
52.5°	12250.9	11088.3	4577.7	1743.0	1615.2	1641.9	1602.8	1471.5	1350.8	1292.2	1281.5
55°	14579.7	12785.2	4634.5	1604.6	1483.9	1533.6	1538.9	1428.9	1318.8	1260.2	1253.1
57.5°	16470.1	14063.2	4382.4	1478.6	1370.3	1446.6	1485.7	1404.0	1302.8	1258.5	1251.4
60°	17785.3	14666.7	3665.3	1366.7	1286.9	1377.4	1466.1	1405.8	1341.9	1347.2	1350.8
62.5°	18204.2	14398.7	2749.4	1283.3	1230.1	1354.3	1498.1	1478.6	1412.9	1453.7	1460.8
65°	17510.2	13291.1	1993.3	1217.6	1180.4	1370.3	1593.9	1531.8	1388.0	1418.2	1418.2
67.5°	15186.8	11450.4	1551.3	1157.3	1123.6	1400.5	1689.8	1526.5	1329.5	1365.0	1333.0
70°	12046.8	8857.2	1292.2	1089.8	1063.2	1356.1	1698.7	1471.5	1260.2	1267.3	1207.0
72.5°	7994.5	5823.7	1111.1	1025.9	970.9	1219.4	1625.9	1400.5	1192.8	1152.0	1091.6
75°	3917.4	2903.9	969.1	946.1	850.2	1061.4	1526.5	1333.0	1120.0	1056.1	1022.4
77.5°	1517.6	1235.4	827.1	844.9	740.2	935.4	1395.1	1237.2	1024.2	937.2	910.6
80°	736.6	701.1	678.0	704.7	608.8	797.0	1274.4	1153.7	935.4	839.6	800.5
82.5°	457.9	433.1	520.1	548.5	468.6	727.7	1208.8	1082.7	823.6	695.8	663.8
85°	232.5	248.5	347.9	374.5	335.5	578.6	995.8	812.9	594.6	493.4	497.0
87.5°	88.7	118.9	182.8	197.0	179.3	305.3	548.5	473.9	381.6	259.1	239.6
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)