

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: P522833

Luminaire Tested: **GALN-SA7A-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522833  
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-SA7A-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 31876 lumens  
Efficiency: N/A  
Efficacy: 148.3 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

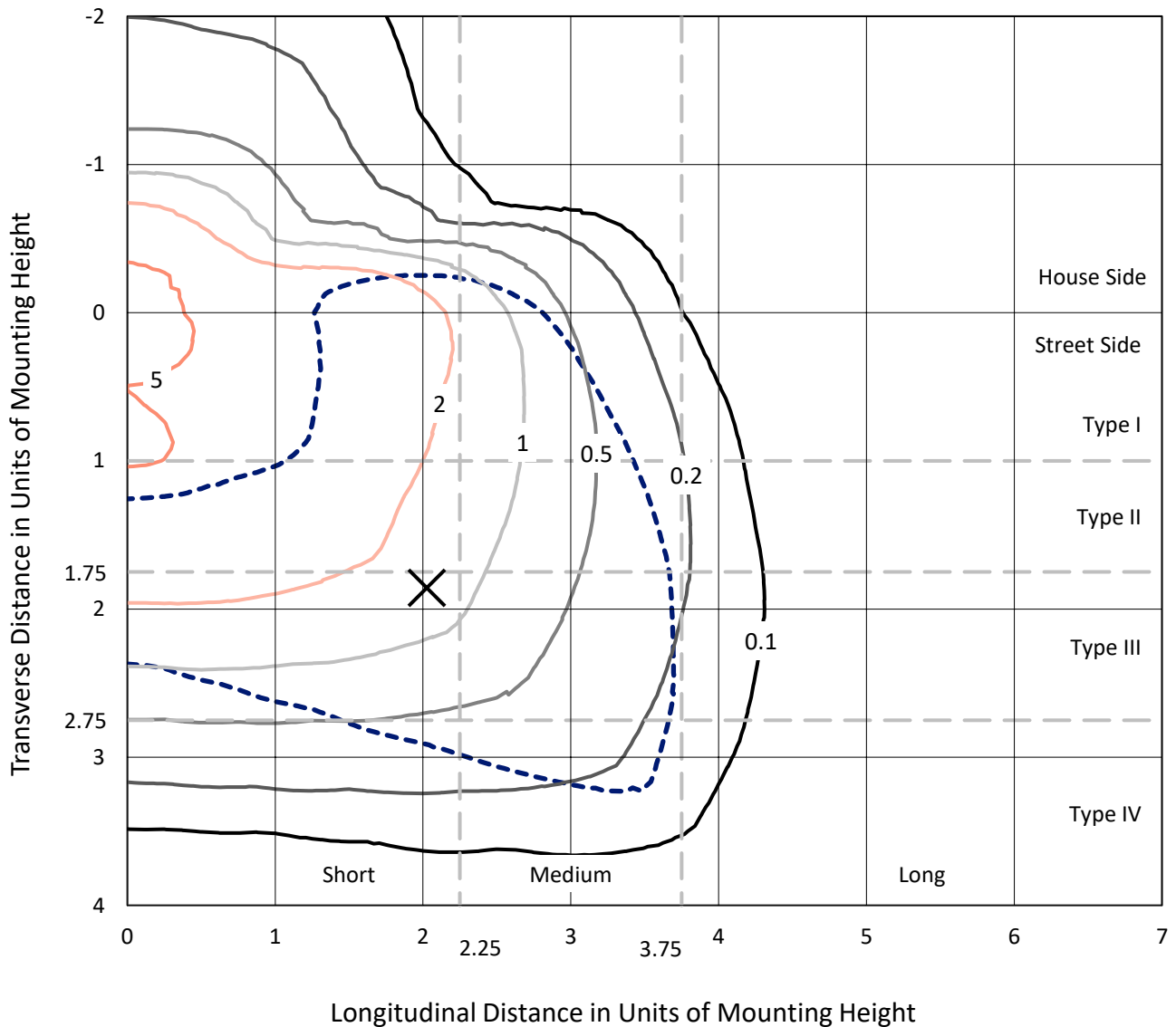
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

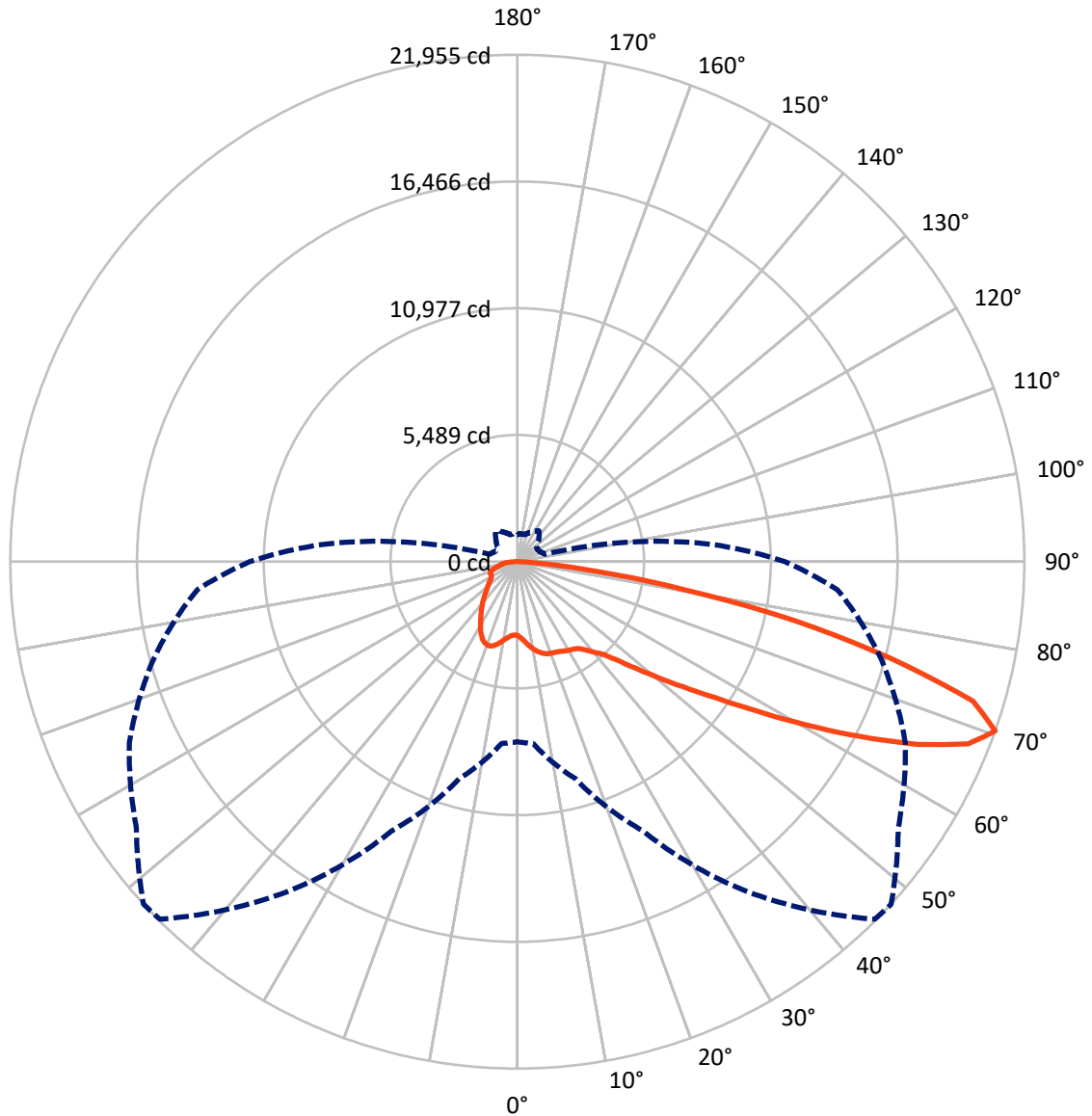
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	7217.3	0.0	7217.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	24658.7	0.0	24658.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	31876.0	0.0	31876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.8	1.0
10°-20°	1102.7	3.5
20°-30°	1833.8	5.8
30°-40°	2599.1	8.2
40°-50°	3836.9	12.0
50°-60°	6645.6	20.8
60°-70°	9387.2	29.4
70°-80°	5396.3	16.9
80°-90°	744.6	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°	31876.0	100.0
0°-180°	31876.0	100.0

**Coefficient of Utilization**



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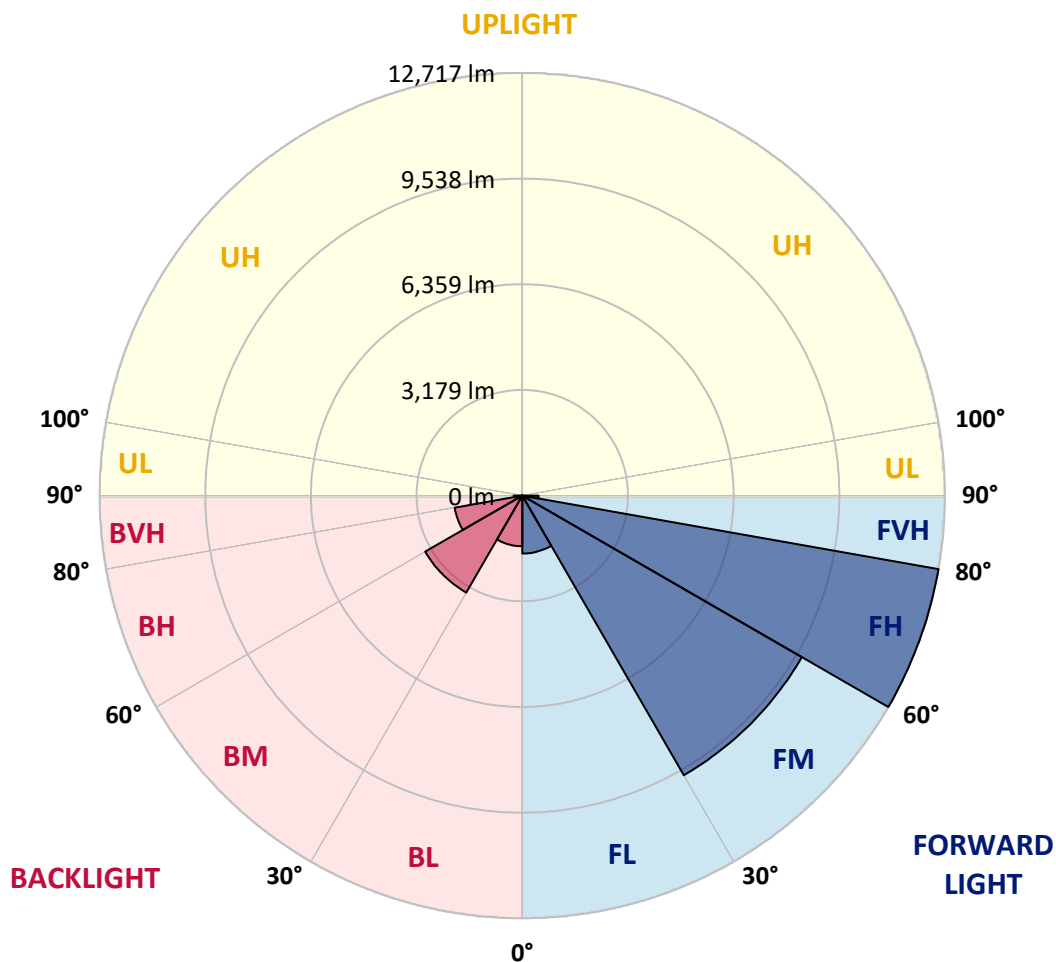
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1743.1	5.5			
FM	(30°-60°)	9712.0	30.5			
FH	(60°-80°)	12717.2	39.9			G5
FVH	(80°-90°)	486.4	1.5			G3/500
BL	(0°-30°)	1523.3	4.8	B3/2500		
BM	(30°-60°)	3369.7	10.6	B3/5000		
BH	(60°-80°)	2066.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	258.2	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°	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0
2.5°	3406.4	3394.4	3392.7	3367.1	3353.5	3327.9	3317.7	3293.8	3264.8	3235.8	3208.5
5°	3674.2	3674.2	3662.2	3626.4	3570.1	3512.1	3486.5	3440.5	3358.6	3292.1	3235.8
7.5°	3948.8	3952.2	3928.3	3875.4	3795.3	3701.5	3677.6	3609.3	3493.4	3396.1	3312.5
10°	4185.9	4185.9	4153.5	4081.8	3981.2	3878.9	3855.0	3778.2	3648.6	3527.5	3418.3
12.5°	4366.7	4366.7	4324.0	4230.2	4121.1	4029.0	4001.7	3928.3	3807.2	3672.5	3534.3
15°	4484.4	4475.9	4428.1	4322.3	4216.6	4136.4	4117.7	4056.2	3945.4	3808.9	3653.7
17.5°	4489.5	4486.1	4440.0	4351.3	4259.2	4204.6	4192.7	4151.8	4064.8	3935.1	3771.4
20°	4390.6	4397.4	4366.7	4303.6	4259.2	4235.4	4230.2	4216.6	4155.2	4034.1	3870.3
22.5°	4284.8	4296.8	4267.8	4233.6	4230.2	4254.1	4257.5	4260.9	4221.7	4104.0	3953.9
25°	4259.2	4267.8	4238.8	4208.1	4226.8	4289.9	4303.6	4317.2	4286.5	4187.6	4052.8
27.5°	4388.9	4382.0	4325.8	4259.2	4271.2	4356.5	4375.2	4390.6	4375.2	4289.9	4175.6
30°	4755.6	4733.4	4620.8	4426.4	4365.0	4424.7	4443.5	4486.1	4486.1	4423.0	4308.7
32.5°	5369.7	5327.0	5120.6	4738.5	4525.3	4489.5	4508.3	4578.2	4614.0	4564.6	4440.0
35°	6115.1	6070.7	5775.6	5262.2	4818.7	4619.1	4614.0	4692.5	4788.0	4677.1	4515.1
37.5°	6863.9	6817.8	6463.0	5886.5	5246.9	4892.1	4861.4	4888.6	4929.6	4726.6	4619.1
40°	7612.7	7558.1	7247.7	6584.2	5770.5	5253.7	5173.5	5050.7	5033.6	4888.6	4820.4
42.5°	8354.7	8305.2	8148.3	7367.1	6398.2	5606.8	5484.0	5272.4	5337.3	5250.3	5190.6
45°	9103.5	9106.9	8939.8	8245.5	7155.6	6258.4	6092.9	5762.0	5915.5	5883.1	5917.2
47.5°	9767.1	9758.5	9698.8	9098.4	8095.4	7097.6	6884.4	6500.6	6763.3	6882.7	7143.6
50°	10410.1	10405.0	10408.4	10065.6	9187.1	8095.4	7860.0	7457.5	8049.4	8463.9	8931.3
52.5°	11331.2	11360.2	11153.8	11063.4	10514.2	9274.1	9014.8	8598.6	9569.2	10222.5	11135.1
55°	12255.7	12231.9	12069.8	12163.6	11902.6	10669.4	10398.2	10067.3	11261.3	11976.0	13347.4
57.5°	12799.9	12808.4	12973.9	13432.7	13616.9	12409.3	12163.6	11907.8	13163.2	13669.8	15315.8
60°	13289.4	13328.6	13804.5	14671.1	15170.8	14546.5	14328.2	14079.2	14908.2	15109.4	17025.0
62.5°	13442.9	13564.0	14394.7	15691.1	16685.5	16958.5	16687.2	16138.0	16569.6	16491.1	18183.2
65°	12677.1	12842.5	14331.6	16073.2	18038.2	19247.6	19075.3	18055.3	17985.3	17512.8	18372.5
67.5°	10660.9	10826.3	12738.5	15271.5	18597.7	21229.6	21057.4	19454.0	18845.0	17608.3	16939.7
70°	7800.3	7904.4	9732.9	12857.9	17473.6	21894.9	21954.6	20136.3	18538.0	16310.3	13908.6
72.5°	4494.6	4724.9	6005.9	9045.5	14275.3	20213.0	20627.5	18717.1	16596.8	13606.7	9724.4
75°	1932.6	1937.7	2776.9	4989.3	9668.1	16247.2	16648.0	15515.4	13033.6	9408.9	5192.3
77.5°	919.4	936.5	1221.3	2227.7	5321.9	11225.5	12306.9	10961.1	8335.9	4520.2	1961.6
80°	597.0	608.9	747.1	1105.3	2609.8	6509.1	7263.0	6323.2	3677.6	1615.3	846.0
82.5°	361.6	365.0	499.8	675.5	1436.2	2947.5	3474.6	2744.5	1569.3	967.2	498.1
85°	220.0	221.7	303.6	417.9	871.6	1018.3	1045.6	1037.1	921.1	632.8	266.1
87.5°	105.8	109.2	156.9	197.9	342.9	315.6	298.5	346.3	435.0	341.1	114.3
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°	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0	3200.0
2.5°	3196.6	3191.4	3179.5	3174.4	3171.0	3172.7	3171.0	3171.0	3172.7	3172.7	3172.7
5°	3211.9	3203.4	3184.6	3184.6	3194.8	3218.7	3240.9	3258.0	3276.7	3275.0	3275.0
7.5°	3278.4	3263.1	3240.9	3247.7	3273.3	3310.8	3350.1	3387.6	3425.1	3428.5	3426.8
10°	3375.7	3360.3	3336.4	3345.0	3385.9	3442.2	3491.6	3546.2	3587.2	3599.1	3595.7
12.5°	3486.5	3455.8	3435.4	3459.2	3524.1	3599.1	3646.9	3687.8	3716.8	3733.9	3727.0
15°	3599.1	3570.1	3546.2	3595.7	3674.2	3744.1	3768.0	3774.8	3779.9	3797.0	3793.6
17.5°	3708.3	3669.0	3660.5	3725.3	3800.4	3831.1	3817.4	3788.4	3766.3	3779.9	3778.2
20°	3805.5	3774.8	3771.4	3836.2	3865.2	3836.2	3778.2	3727.0	3687.8	3691.2	3689.5
22.5°	3897.6	3873.7	3877.1	3904.4	3858.4	3759.4	3663.9	3594.0	3551.3	3559.9	3565.0
25°	4000.0	3976.1	3984.6	3940.3	3788.4	3616.2	3478.0	3418.3	3401.2	3418.3	3430.2
27.5°	4133.0	4117.7	4112.5	3942.0	3663.9	3404.7	3247.7	3225.6	3240.9	3278.4	3297.2
30°	4276.3	4276.3	4249.0	3913.0	3493.4	3150.5	3014.0	3017.5	3070.3	3123.2	3142.0
32.5°	4414.5	4443.5	4358.2	3834.5	3273.3	2903.2	2799.1	2802.5	2848.6	2913.4	2930.5
35°	4528.7	4612.3	4452.0	3691.2	3014.0	2695.1	2616.6	2570.5	2572.3	2621.7	2635.4
37.5°	4685.7	4840.9	4506.6	3478.0	2737.7	2517.7	2429.0	2348.8	2295.9	2275.5	2275.5
40°	4958.6	5187.2	4520.2	3162.4	2476.7	2348.8	2222.6	2127.1	2024.7	1932.6	1915.5
42.5°	5420.8	5709.1	4492.9	2799.1	2241.3	2162.9	2040.1	1922.4	1780.8	1651.2	1640.9
45°	6239.6	6388.0	4419.6	2422.1	2031.5	1983.8	1864.4	1736.4	1586.3	1470.3	1461.8
47.5°	7551.3	7341.5	4322.3	2087.8	1840.5	1826.8	1734.7	1586.3	1436.2	1356.1	1347.5
50°	9466.9	8842.6	4308.7	1845.6	1687.0	1693.8	1618.7	1482.3	1350.9	1284.4	1274.2
52.5°	11773.0	10655.8	4399.1	1675.0	1552.2	1577.8	1540.3	1414.1	1298.1	1241.8	1231.5
55°	14010.9	12286.4	4453.7	1542.0	1426.0	1473.8	1478.9	1373.1	1267.4	1211.1	1204.3
57.5°	15827.6	13514.6	4211.5	1420.9	1316.8	1390.2	1427.7	1349.2	1252.0	1209.4	1202.5
60°	17091.5	14094.5	3522.4	1313.4	1236.7	1323.7	1408.9	1350.9	1289.5	1294.7	1298.1
62.5°	17494.1	13837.0	2642.2	1233.2	1182.1	1301.5	1439.6	1420.9	1357.8	1397.0	1403.8
65°	16827.1	12772.6	1915.5	1170.1	1134.3	1316.8	1531.8	1472.1	1333.9	1362.9	1362.9
67.5°	14594.3	11003.7	1490.8	1112.1	1079.7	1345.8	1623.9	1466.9	1277.6	1311.7	1281.0
70°	11576.9	8511.6	1241.8	1047.3	1021.7	1303.2	1632.4	1414.1	1211.1	1217.9	1159.9
72.5°	7682.6	5596.5	1067.8	985.9	933.0	1171.8	1562.5	1345.8	1146.3	1107.0	1049.0
75°	3764.6	2790.6	931.3	909.2	817.0	1020.0	1466.9	1281.0	1076.3	1014.9	982.5
77.5°	1458.4	1187.2	794.9	811.9	711.3	898.9	1340.7	1188.9	984.2	900.6	875.0
80°	707.9	673.8	651.6	677.2	585.1	765.9	1224.7	1108.7	898.9	806.8	769.3
82.5°	440.1	416.2	499.8	527.1	450.3	699.4	1161.6	1040.5	791.5	668.6	637.9
85°	223.5	238.8	334.3	359.9	322.4	556.1	956.9	781.2	571.4	474.2	477.6
87.5°	85.3	114.3	175.7	189.3	172.3	293.4	527.1	455.4	366.7	249.0	230.3
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)