

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: P455842

Luminaire Tested: **GALN-SA7A-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455842  
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-SA7A-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 31782 lumens  
Efficiency: N/A  
Efficacy: 147.8 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

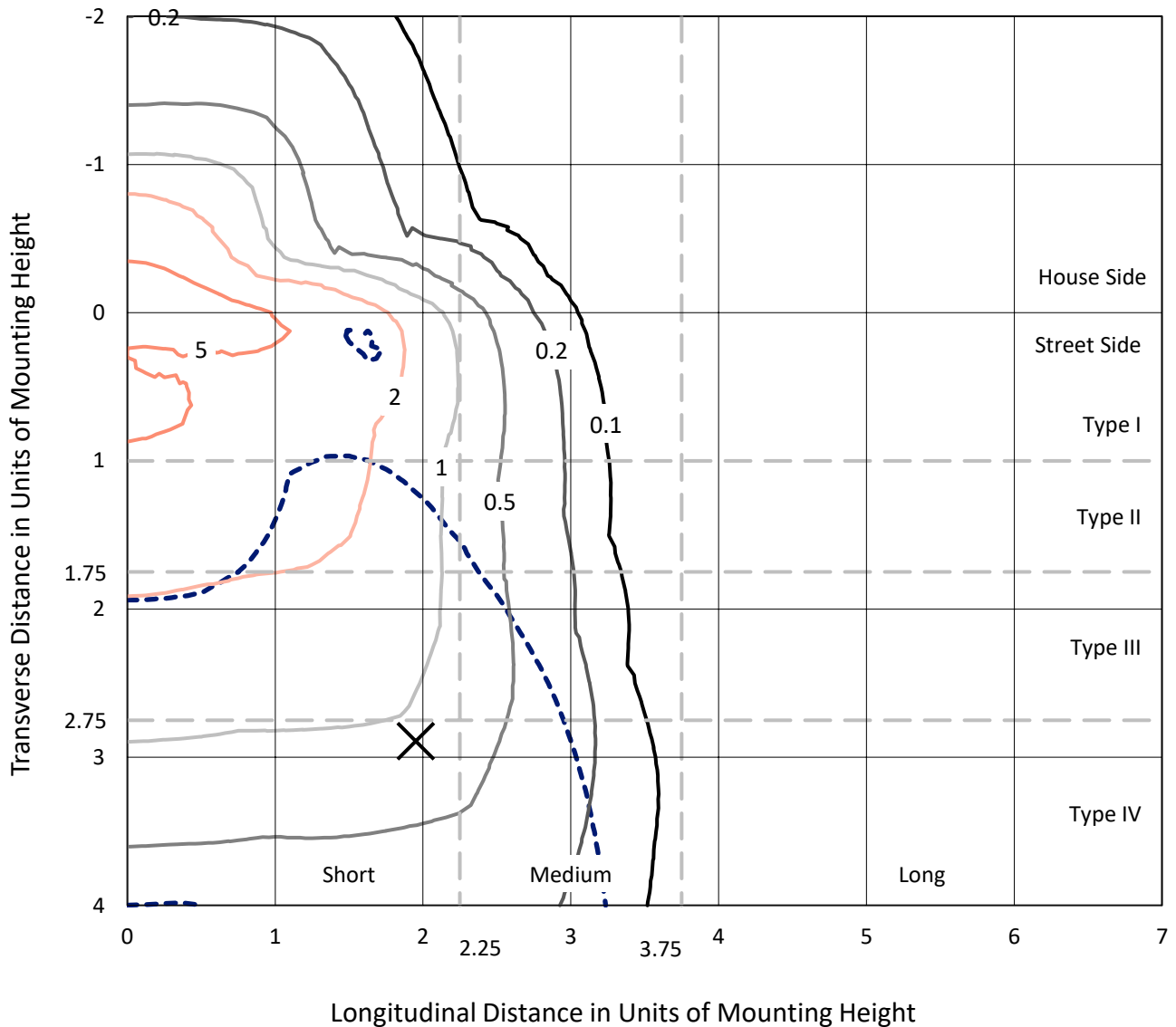
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

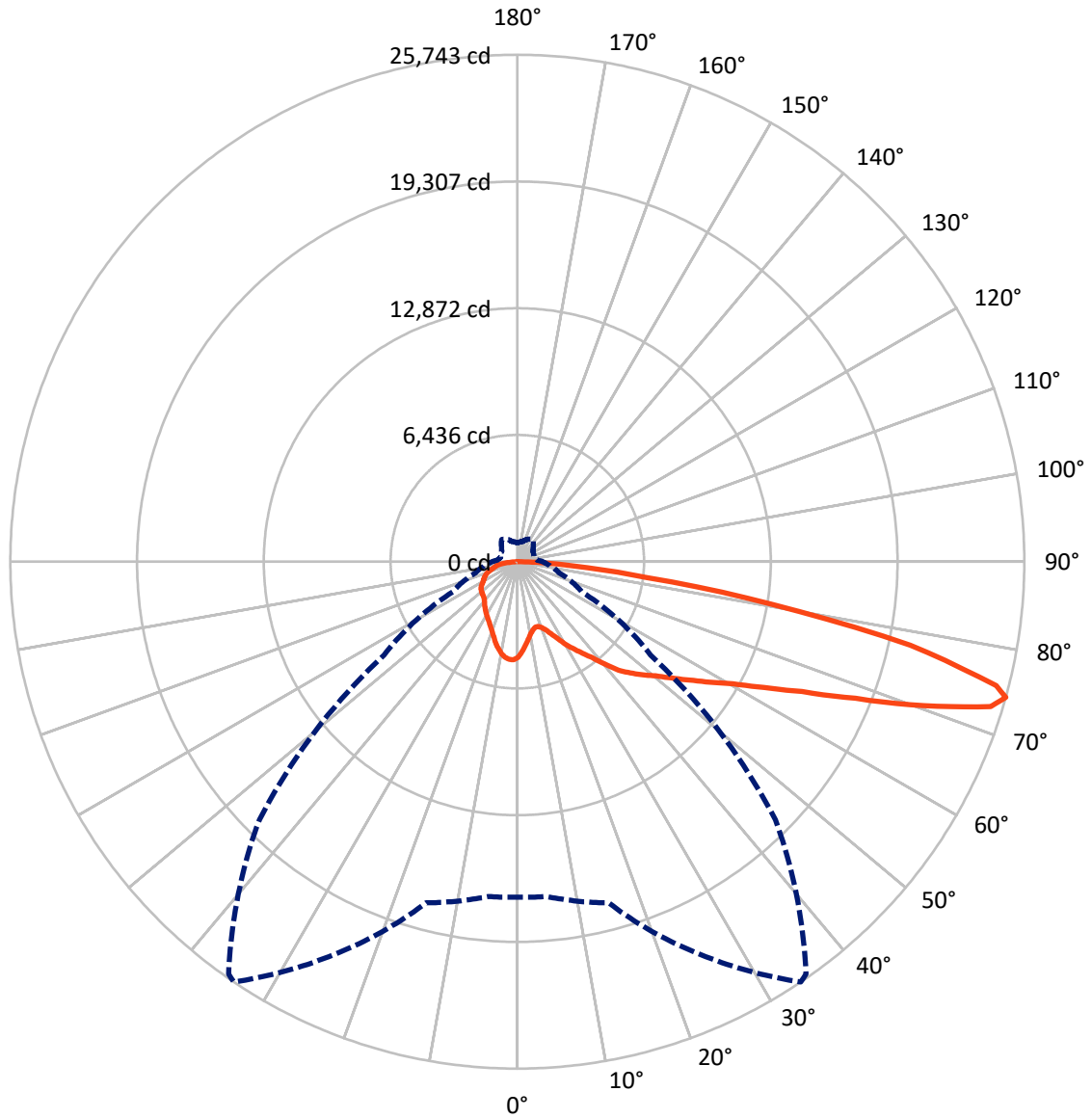
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6763.4	0.0	6763.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	25018.6	0.0	25018.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	31782.0	0.0	31782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.3	1.4
10°-20°	1208.1	3.8
20°-30°	1991.8	6.3
30°-40°	2983.5	9.4
40°-50°	4337.2	13.6
50°-60°	6058.0	19.1
60°-70°	7584.3	23.9
70°-80°	6271.6	19.7
80°-90°	906.2	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°	31782.0	100.0
0°-180°	31782.0	100.0

**Coefficient of Utilization**



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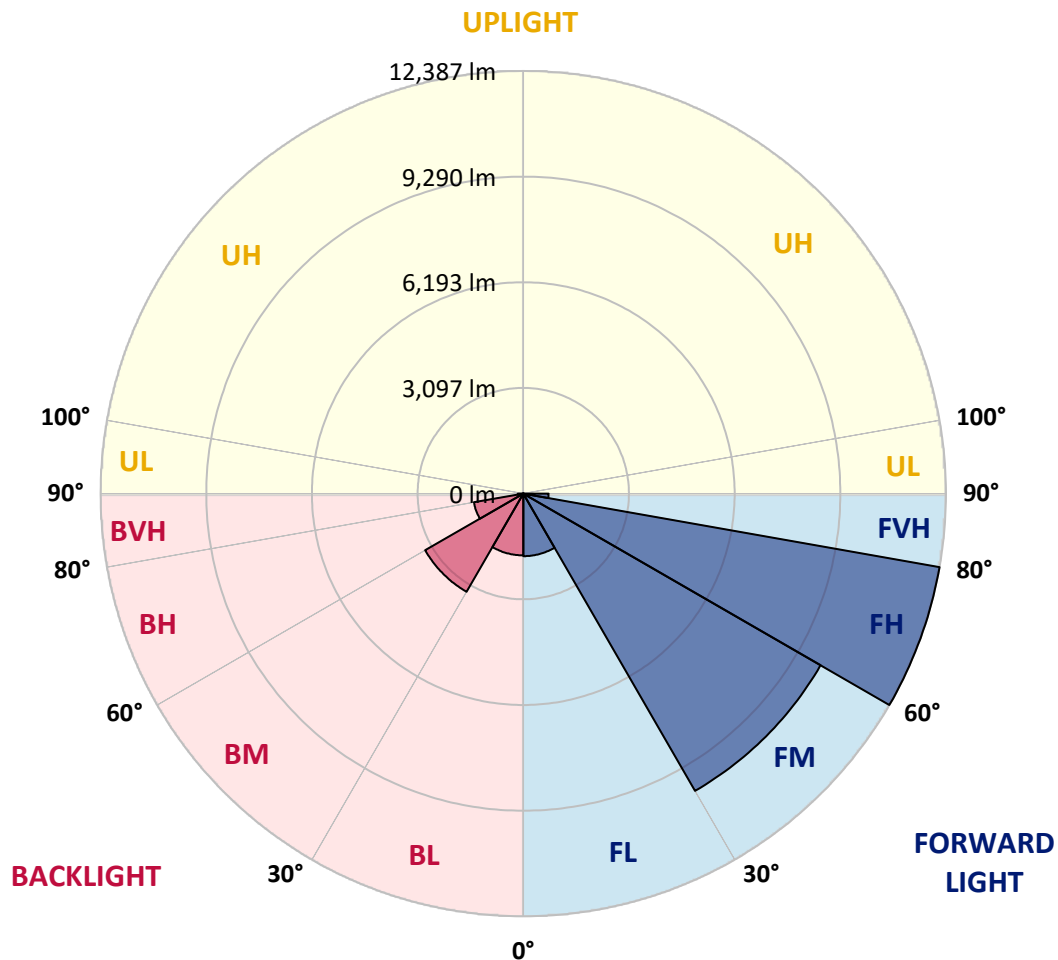
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.1	5.8			
FM (30°-60°)	10057.1	31.6			
FH (60°-80°)	12387.0	39.0			G5
FVH (80°-90°)	742.4	2.3			G4/750
BL (0°-30°)	1809.1	5.7	B3/2500		
BM (30°-60°)	3321.5	10.5	B3/5000		
BH (60°-80°)	1469.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	163.8	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5
2.5°	4484.5	4507.4	4519.7	4563.7	4574.3	4588.4	4625.4	4674.7	4738.0	4794.4	4843.7
5°	4111.2	4146.4	4167.6	4206.3	4282.0	4289.1	4387.7	4500.3	4628.9	4748.6	4847.2
7.5°	3757.3	3796.1	3813.7	3884.1	3984.5	4000.3	4144.7	4322.5	4537.3	4718.7	4870.1
10°	3491.5	3510.8	3549.6	3602.4	3722.1	3732.7	3921.1	4158.8	4437.0	4704.6	4908.8
12.5°	3347.1	3357.7	3366.5	3422.8	3540.8	3556.6	3753.8	4023.2	4357.7	4715.1	4972.2
15°	3368.2	3371.7	3333.0	3343.6	3438.6	3461.5	3657.0	3933.4	4308.4	4741.6	5067.3
17.5°	3546.0	3533.7	3438.6	3389.3	3456.2	3466.8	3637.6	3898.2	4285.5	4790.9	5165.9
20°	3826.0	3808.4	3644.6	3535.5	3574.2	3583.0	3701.0	3924.6	4308.4	4871.9	5319.1
22.5°	4174.6	4167.6	3919.3	3787.3	3785.5	3785.5	3847.1	4019.7	4377.1	4982.8	5479.3
25°	4662.3	4625.4	4301.4	4130.6	4083.1	4079.5	4072.5	4176.4	4465.1	5100.7	5669.4
27.5°	5162.4	5099.0	4810.2	4547.9	4445.8	4433.4	4387.7	4398.2	4577.8	5234.6	5886.0
30°	5611.3	5570.8	5299.7	5009.2	4887.7	4859.5	4732.8	4674.7	4766.2	5475.8	6231.1
32.5°	5954.7	5930.0	5718.7	5454.6	5275.1	5269.8	5084.9	5037.4	5060.2	5768.0	6625.5
35°	6232.9	6241.7	6134.3	5905.4	5699.4	5669.4	5546.2	5486.3	5419.4	6190.6	7122.0
37.5°	6613.2	6632.5	6625.5	6428.3	6176.5	6183.6	6155.4	6056.8	5879.0	6662.5	7673.1
40°	7032.2	7046.3	7044.6	6968.8	6836.8	6843.8	6833.3	6720.6	6454.7	7262.9	8285.8
42.5°	7611.5	7544.6	7370.3	7446.0	7523.5	7556.9	7629.1	7521.7	7157.2	7903.8	8861.6
45°	8259.4	8132.7	7738.3	7773.5	8060.5	8123.9	8521.8	8373.9	7919.6	8639.7	9539.5
47.5°	8667.9	8542.9	8210.1	8203.1	8583.4	8645.0	9349.3	9294.7	8613.3	9433.8	10367.0
50°	9032.4	9014.8	8639.7	8729.5	9101.0	9192.6	10250.8	10199.7	9305.3	10370.5	11268.5
52.5°	9572.9	9430.3	9131.0	9315.9	9807.1	9926.8	11145.2	10995.6	9940.9	11198.0	12143.5
55°	9815.9	9782.4	9764.8	9925.1	10599.4	10685.7	12015.0	11671.7	10483.2	11898.8	12809.1
57.5°	10465.6	10404.0	10578.3	10687.4	11532.6	11664.6	12923.5	12377.7	10958.6	12455.2	13133.0
60°	11307.2	11273.7	11434.0	11631.2	12574.9	12775.6	13958.8	12979.9	11340.7	12735.1	12955.2
62.5°	12564.3	12560.8	12530.9	12953.5	14052.1	14237.0	15147.3	13566.2	11400.5	12525.6	12036.1
65°	14367.3	14303.9	14043.3	14504.6	15890.3	16106.9	16385.1	13893.7	11039.6	11449.8	10134.6
67.5°	16253.0	16249.5	16038.2	16636.8	18529.6	18753.2	17932.7	13821.5	10037.7	9275.4	7197.7
70°	17816.5	17740.8	18010.2	19605.4	21901.3	22160.1	19286.7	12971.1	7995.3	6125.5	4276.7
72.5°	18191.5	18195.0	18755.0	21894.3	25139.2	25179.7	19774.4	10513.1	5350.8	3378.8	2139.2
74°	17036.5	17066.4	17934.5	22008.7	25743.2	25560.0	18527.8	8263.0	3618.2	2206.2	1542.4
75°	15550.5	15362.1	16617.5	21246.3	25116.4	24919.2	17068.2	6630.8	2760.8	1762.5	1350.5
77.5°	8314.0	8505.9	10442.7	15855.1	20404.7	20177.6	11573.1	3179.8	1491.3	1227.2	971.9
80°	2959.7	3264.3	4588.4	8296.4	13082.0	13152.4	5523.3	1457.9	1049.4	905.0	686.7
82.5°	1207.8	1241.3	1970.2	3681.6	6643.1	6706.5	2255.5	866.3	750.1	623.3	410.2
85°	471.9	486.0	871.5	1655.1	2834.7	3019.6	780.0	457.8	461.3	357.4	209.5
87.5°	158.5	179.6	357.4	551.1	963.1	943.7	227.1	135.6	165.5	154.9	65.1
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°	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5	4852.5
2.5°	4868.3	4901.8	4924.7	4949.3	4972.2	4979.3	4974.0	4989.8	4991.6	4993.3	4995.1
5°	4896.5	4942.3	4986.3	5010.9	5021.5	5012.7	4982.8	4966.9	4952.8	4942.3	4945.8
7.5°	4935.2	5000.4	5040.9	5051.4	5023.3	4982.8	4908.8	4850.7	4813.7	4789.1	4787.3
10°	4995.1	5058.5	5091.9	5062.0	4984.5	4885.9	4769.7	4660.6	4577.8	4553.2	4551.4
12.5°	5070.8	5143.0	5141.2	5053.2	4917.6	4741.6	4553.2	4426.4	4313.7	4257.4	4280.3
15°	5169.4	5224.0	5172.9	5014.5	4799.7	4558.4	4326.0	4153.5	4026.7	3966.9	3970.4
17.5°	5283.9	5331.4	5195.8	4945.8	4634.2	4324.3	4054.9	3891.1	3790.8	3746.8	3743.2
20°	5426.5	5440.6	5195.8	4826.1	4421.1	4051.4	3794.3	3679.9	3623.5	3600.6	3607.7
22.5°	5579.7	5551.5	5167.6	4657.0	4141.2	3766.1	3593.6	3542.5	3514.4	3510.8	3514.4
25°	5752.2	5673.0	5109.5	4428.2	3848.9	3519.6	3419.3	3428.1	3433.4	3433.4	3445.7
27.5°	5963.5	5805.0	5012.7	4139.4	3507.3	3290.7	3262.6	3324.2	3352.4	3357.7	3366.5
30°	6241.7	5949.4	4852.5	3778.5	3216.8	3084.7	3134.0	3216.8	3248.5	3267.9	3264.3
32.5°	6572.7	6107.9	4635.9	3417.5	2982.6	2940.4	3000.2	3084.7	3120.0	3130.5	3116.4
35°	6961.8	6287.5	4350.7	3079.5	2778.4	2803.0	2873.5	2899.9	2931.6	2931.6	2938.6
37.5°	7380.8	6431.8	4002.1	2769.6	2619.9	2709.7	2760.8	2736.1	2722.0	2704.4	2713.2
40°	7806.9	6539.2	3549.6	2463.2	2461.5	2612.9	2627.0	2556.5	2500.2	2482.6	2473.8
42.5°	8178.4	6606.1	3141.1	2225.5	2311.8	2517.8	2528.4	2415.7	2325.9	2273.1	2255.5
45°	8616.9	6683.6	2741.4	2028.3	2172.7	2442.1	2468.5	2317.1	2185.0	2074.1	2045.9
47.5°	9217.3	6859.7	2426.2	1875.1	2072.3	2394.5	2431.5	2236.1	2061.8	1917.4	1894.5
50°	9895.1	7100.9	2181.5	1771.3	1994.9	2352.3	2398.1	2153.3	1947.3	1787.1	1769.5
52.5°	10516.6	7231.2	1970.2	1677.9	1919.2	2274.8	2354.1	2093.5	1834.6	1656.8	1641.0
55°	10856.5	7019.9	1762.5	1586.4	1815.3	2174.5	2292.4	2010.7	1725.5	1588.1	1565.3
57.5°	10902.2	6583.2	1574.1	1487.8	1706.1	2051.2	2178.0	1910.4	1655.1	1540.6	1521.2
60°	10548.3	5931.8	1427.9	1406.8	1595.2	1912.1	2049.5	1822.3	1582.9	1487.8	1468.4
62.5°	9668.0	5224.0	1325.8	1332.8	1482.5	1766.0	1954.4	1737.8	1514.2	1429.7	1412.1
65°	8153.8	4311.9	1227.2	1257.1	1382.1	1651.5	1868.1	1667.4	1445.5	1385.7	1369.8
67.5°	5664.2	3112.9	1146.2	1177.9	1287.1	1535.3	1767.7	1591.7	1368.1	1336.4	1311.7
70°	3135.8	1915.6	1051.1	1088.1	1188.5	1405.0	1655.1	1477.2	1255.4	1241.3	1206.1
72.5°	1648.0	1220.2	943.7	984.2	1054.7	1237.8	1482.5	1352.2	1144.5	1084.6	1038.8
74°	1287.1	1000.1	871.5	913.8	961.3	1139.2	1380.4	1262.4	1065.2	994.8	959.6
75°	1121.6	890.9	809.9	864.5	906.8	1072.3	1301.2	1199.0	1021.2	954.3	922.6
77.5°	792.3	667.3	662.0	727.2	750.1	940.2	1172.6	1091.6	910.3	839.9	809.9
80°	556.4	500.0	524.7	565.2	596.9	831.0	1088.1	943.7	746.5	663.8	653.2
82.5°	362.7	327.5	375.0	412.0	422.6	612.7	878.6	716.6	544.1	441.9	410.2
85°	167.3	163.7	214.8	209.5	207.8	299.3	521.2	419.0	313.4	234.2	220.1
87.5°	42.3	40.5	52.8	44.0	52.8	45.8	47.5	12.3	1.8	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)