

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: P455798

Luminaire Tested: **GALN-SA7A-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28395 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

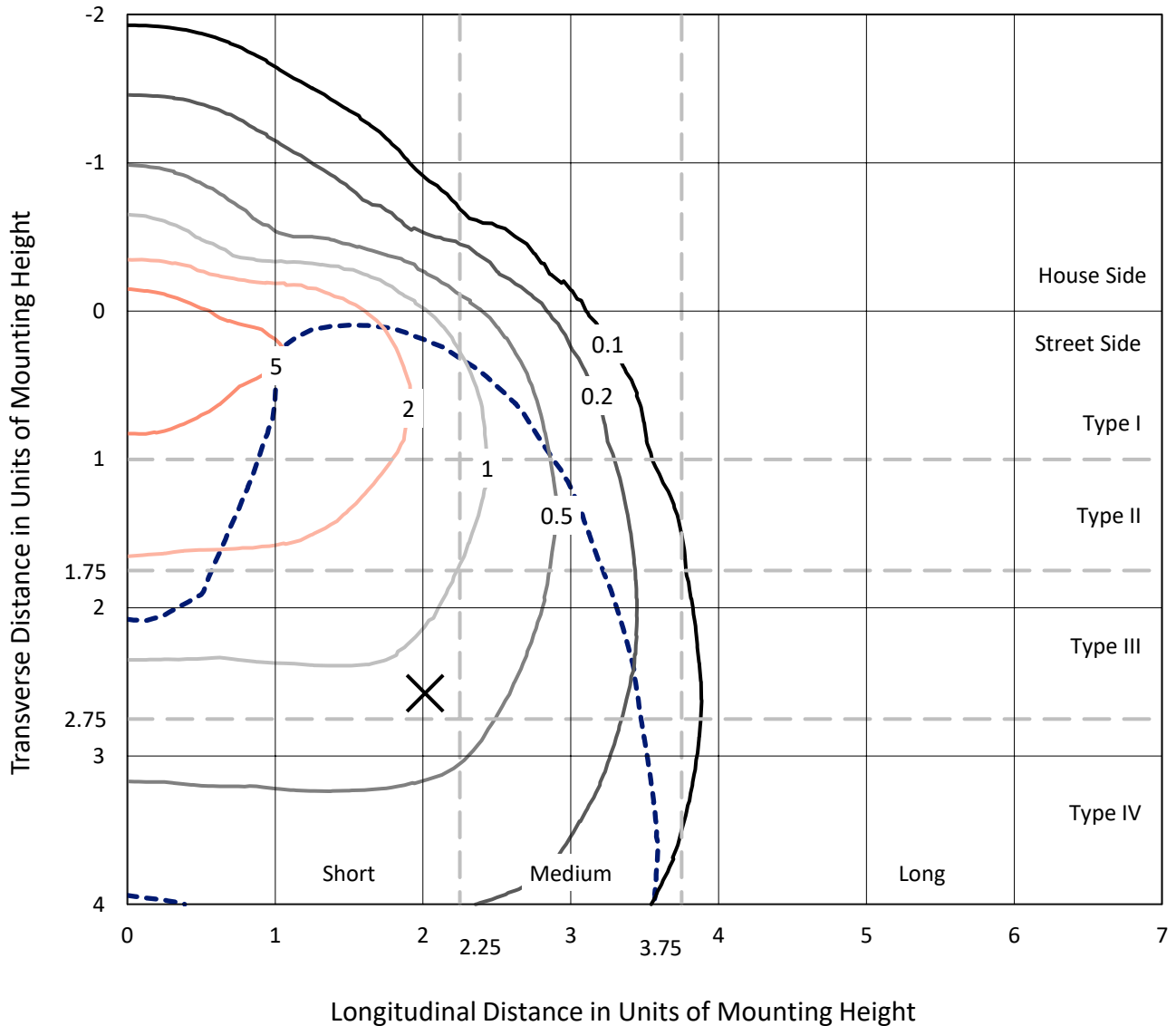
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

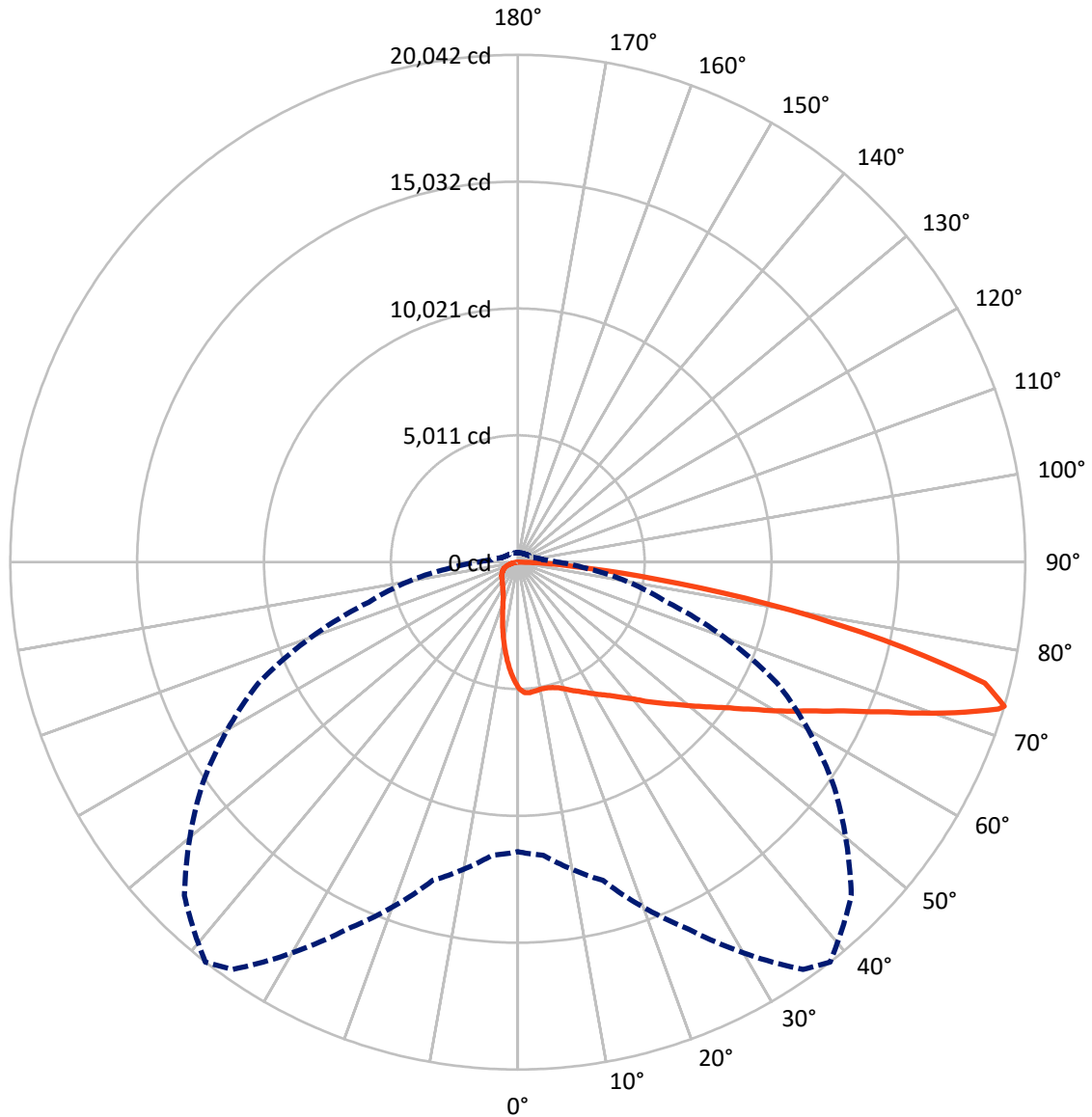
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3817.1	0.0	3817.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	24577.9	0.0	24577.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28395.0	0.0	28395.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.4	1.5
10°-20°	1116.6	3.9
20°-30°	1738.8	6.1
30°-40°	2550.4	9.0
40°-50°	3783.2	13.3
50°-60°	5360.1	18.9
60°-70°	6799.4	23.9
70°-80°	5660.0	19.9
80°-90°	951.0	3.3
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°	28395.0	100.0
0°-180°	28395.0	100.0

**Coefficient of Utilization**



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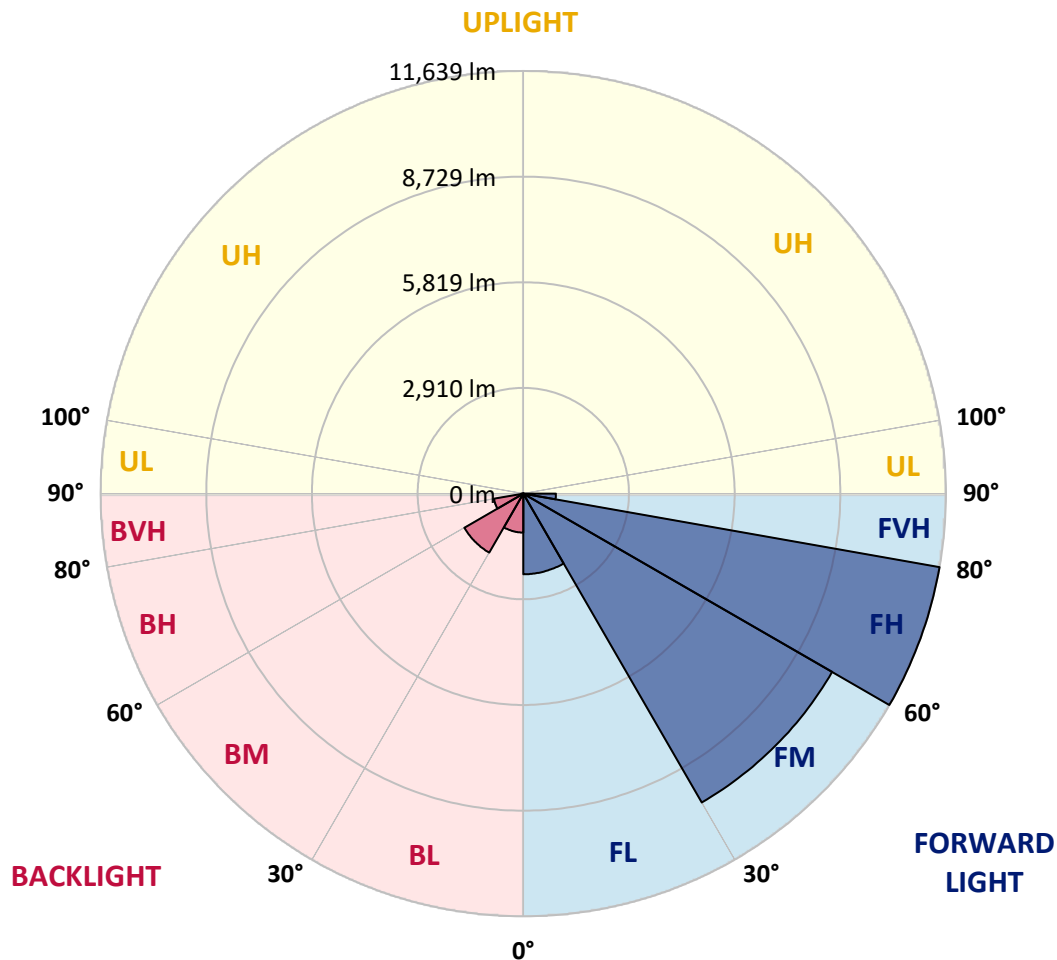
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.7	7.8			
FM (30°-60°)	9819.8	34.6			
FH (60°-80°)	11639.0	41.0			G4/12000
FVH (80°-90°)	899.4	3.2			G5
BL (0°-30°)	1071.1	3.8	B3/2500		
BM (30°-60°)	1874.0	6.6	B2/2500		
BH (60°-80°)	820.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	51.6	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5
2.5°	5189.0	5214.6	5201.8	5184.1	5172.9	5161.7	5145.7	5099.2	5062.3	5022.2	4959.7
5°	5227.4	5243.5	5232.3	5209.8	5184.1	5172.9	5142.5	5081.5	5022.2	4954.8	4861.8
7.5°	5205.0	5211.4	5198.6	5171.3	5148.9	5128.0	5092.7	5025.4	4953.2	4871.5	4749.6
10°	5124.8	5148.9	5148.9	5126.4	5104.0	5092.7	5057.5	4993.3	4927.6	4834.6	4690.3
12.5°	5059.1	5084.7	5105.6	5099.2	5097.6	5097.6	5070.3	5022.2	4945.2	4857.0	4685.5
15°	5014.2	5044.6	5089.5	5115.2	5131.2	5136.0	5124.8	5083.1	5004.6	4901.9	4704.7
17.5°	5004.6	5041.4	5123.2	5179.3	5221.0	5219.4	5216.2	5158.5	5071.9	4966.1	4728.8
20°	5047.9	5096.0	5209.8	5298.0	5358.9	5347.7	5330.1	5254.7	5153.7	5035.0	4751.2
22.5°	5177.7	5227.4	5352.5	5448.7	5508.1	5508.1	5455.1	5355.7	5248.3	5115.2	4781.7
25°	5363.7	5418.3	5551.4	5649.2	5676.4	5655.6	5602.7	5482.4	5358.9	5230.7	4845.8
27.5°	5591.4	5657.2	5780.7	5862.4	5854.4	5838.4	5783.9	5629.9	5506.5	5389.4	4954.8
30°	5875.3	5923.4	6051.6	6070.9	6042.0	6038.8	5961.9	5807.9	5692.5	5602.7	5110.4
32.5°	6143.0	6186.3	6289.0	6297.0	6245.7	6252.1	6179.9	6038.8	5973.1	5941.0	5371.8
35°	6426.9	6449.3	6537.5	6527.9	6494.2	6489.4	6460.5	6325.8	6346.7	6404.4	5742.2
37.5°	6664.2	6709.1	6758.8	6766.8	6765.2	6781.2	6800.5	6736.3	6856.6	7037.8	6228.0
40°	6882.3	6920.8	6994.5	7020.2	7082.7	7114.8	7180.5	7182.1	7459.5	7757.8	6826.1
42.5°	7029.8	7095.5	7233.4	7279.9	7432.3	7528.5	7626.3	7730.5	8133.0	8516.2	7531.7
45°	7158.1	7244.7	7474.0	7618.3	7825.1	7942.2	8149.0	8367.1	8946.0	9447.9	8248.5
47.5°	7352.1	7429.1	7692.0	7947.0	8259.7	8394.4	8703.9	9029.4	9786.2	10336.2	8934.8
50°	7621.5	7668.0	7935.8	8351.1	8750.4	8923.5	9332.4	9802.3	10684.2	11213.3	9537.7
52.5°	7966.2	7985.5	8198.7	8752.0	9277.9	9492.8	10034.8	10583.2	11469.9	11975.0	10015.5
55°	8373.5	8341.5	8508.2	9176.9	9880.8	10161.4	10743.5	11373.7	12353.4	12590.8	10363.5
57.5°	8776.0	8726.3	8859.4	9693.2	10624.9	10963.2	11641.5	12188.3	13142.4	13166.4	10607.2
60°	9202.5	9165.7	9324.4	10299.3	11537.3	11938.1	12565.1	13033.3	13905.6	13567.3	10645.7
62.5°	9640.3	9581.0	9807.1	10980.8	12565.1	12929.1	13536.8	13931.3	14654.5	13716.4	10275.3
65°	10065.2	10038.0	10387.5	11790.6	13735.7	14149.4	14739.5	15007.3	15254.2	13491.9	9356.5
67.5°	10517.4	10571.9	11130.0	12871.4	15262.2	15781.7	16418.3	16166.6	15425.8	12428.8	7879.6
70°	11206.9	11242.2	12104.9	14287.3	17229.7	17856.7	18164.6	16578.7	14598.4	10410.0	5923.4
72.5°	11503.6	11659.1	12975.6	15773.7	19465.0	19848.2	18751.4	15659.9	12161.0	7071.5	3112.4
73°	11437.8	11623.8	13015.7	15999.8	19639.8	20042.3	18626.4	15186.8	11304.7	6090.1	2668.2
75°	10618.4	10847.7	12494.6	15810.6	19299.8	19059.3	16615.6	12943.5	7639.1	2769.3	1215.5
77.5°	8378.3	8444.1	9900.1	12767.1	15198.1	14752.3	12435.2	8089.7	3120.4	1029.5	689.5
80°	4202.8	4444.9	5580.2	7313.6	10163.0	10017.1	7849.2	3826.0	1300.4	604.5	457.0
82.5°	2022.0	2193.6	2717.9	3566.2	5615.5	5482.4	3886.9	2091.0	825.8	352.8	269.4
85°	1302.1	1430.3	1730.2	1701.3	2309.1	2204.8	1746.2	1582.7	489.1	184.4	187.6
87.5°	859.5	941.3	1128.9	902.8	840.2	760.1	771.3	891.6	96.2	70.6	25.7
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°	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5	4988.5
2.5°	4934.0	4913.2	4844.2	4776.9	4712.7	4651.8	4611.7	4558.8	4523.5	4533.1	4547.6
5°	4810.5	4764.0	4642.2	4523.5	4411.3	4278.2	4170.7	4084.1	4018.4	3994.3	3989.5
7.5°	4680.6	4602.1	4427.3	4223.6	4032.8	3867.7	3676.8	3582.2	3471.6	3433.1	3420.3
10°	4602.1	4496.2	4250.9	3967.1	3680.1	3405.9	3199.0	3030.6	2878.3	2849.4	2835.0
12.5°	4579.6	4440.1	4109.8	3744.2	3362.6	3025.8	2719.6	2498.3	2350.7	2317.1	2267.4
15°	4566.8	4393.6	3978.3	3519.7	3035.4	2624.9	2302.6	2044.5	1909.8	1820.0	1821.6
17.5°	4555.6	4340.7	3830.8	3274.4	2753.2	2280.2	1924.2	1691.7	1568.2	1520.1	1515.3
20°	4539.5	4278.2	3660.8	3016.2	2430.9	1965.9	1643.6	1470.4	1387.0	1346.9	1345.3
22.5°	4533.1	4217.2	3494.0	2753.2	2145.5	1723.8	1457.6	1335.7	1282.8	1255.5	1255.5
25°	4549.2	4173.9	3319.3	2503.1	1892.1	1516.9	1329.3	1245.9	1215.5	1201.0	1196.2
27.5°	4598.9	4154.7	3146.1	2252.9	1659.6	1375.8	1242.7	1185.0	1162.5	1151.3	1152.9
30°	4693.5	4153.1	2976.1	2006.0	1486.5	1268.4	1173.8	1133.7	1116.0	1109.6	1108.0
32.5°	4845.8	4188.4	2809.3	1802.3	1340.5	1178.6	1109.6	1080.8	1072.7	1067.9	1066.3
35°	5104.0	4287.8	2644.2	1616.3	1228.3	1098.4	1048.7	1034.3	1023.0	1027.9	1029.5
37.5°	5451.9	4459.4	2487.0	1470.4	1143.3	1039.1	997.4	984.6	978.1	983.0	987.8
40°	5918.6	4706.3	2355.6	1353.4	1082.4	989.4	952.5	941.3	934.8	942.9	944.5
42.5°	6433.3	4991.7	2246.5	1262.0	1032.7	947.7	912.4	899.6	894.8	899.6	901.2
45°	6962.4	5323.7	2190.4	1196.2	991.0	917.2	880.3	865.9	854.7	851.5	856.3
47.5°	7483.6	5612.3	2188.8	1156.1	957.3	889.9	849.9	833.8	819.4	811.4	809.8
50°	7908.5	5841.6	2227.3	1138.5	928.4	859.5	819.4	803.4	784.1	768.1	771.3
52.5°	8229.2	5990.7	2244.9	1130.5	912.4	827.4	787.3	772.9	750.4	729.6	729.6
55°	8436.1	6026.0	2201.6	1122.5	899.6	793.7	750.4	737.6	715.2	694.3	694.3
57.5°	8506.6	5917.0	2046.1	1103.2	886.7	764.9	713.6	702.3	684.7	663.9	660.6
60°	8343.1	5548.1	1773.5	1045.5	861.1	734.4	673.5	668.7	662.2	644.6	643.0
62.5°	7712.9	4765.6	1476.8	970.1	817.8	702.3	636.6	644.6	649.4	639.8	638.2
65°	6664.2	3869.3	1262.0	865.9	760.1	657.4	596.5	617.4	630.2	630.2	627.0
67.5°	5405.4	2971.3	1063.1	776.1	687.9	596.5	551.6	567.6	577.3	574.1	582.1
70°	3842.0	2012.4	865.9	673.5	596.5	527.6	493.9	493.9	487.5	484.3	484.3
72.5°	1863.3	1149.7	702.3	562.8	508.3	450.6	423.3	412.1	399.3	397.7	389.7
73°	1557.0	1031.1	670.3	542.0	487.5	439.4	408.9	391.3	383.2	376.8	375.2
75°	947.7	782.5	559.6	457.0	415.3	378.4	351.2	335.1	327.1	322.3	320.7
77.5°	623.8	583.7	434.6	349.6	317.5	295.0	283.8	267.8	263.0	256.6	256.6
80°	465.0	445.8	311.1	246.9	227.7	208.5	205.2	202.0	189.2	181.2	178.0
82.5°	299.9	317.5	211.7	165.2	144.3	128.3	129.9	134.7	121.9	110.6	107.4
85°	213.3	229.3	128.3	75.4	60.9	52.9	59.3	52.9	54.5	43.3	35.3
87.5°	35.3	60.9	22.4	9.6	4.8	3.2	0.0	0.0	0.0	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)