

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: P455073

Luminaire Tested: **GALN-SA6B-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455073  
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-SA6B-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA 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: 27622 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

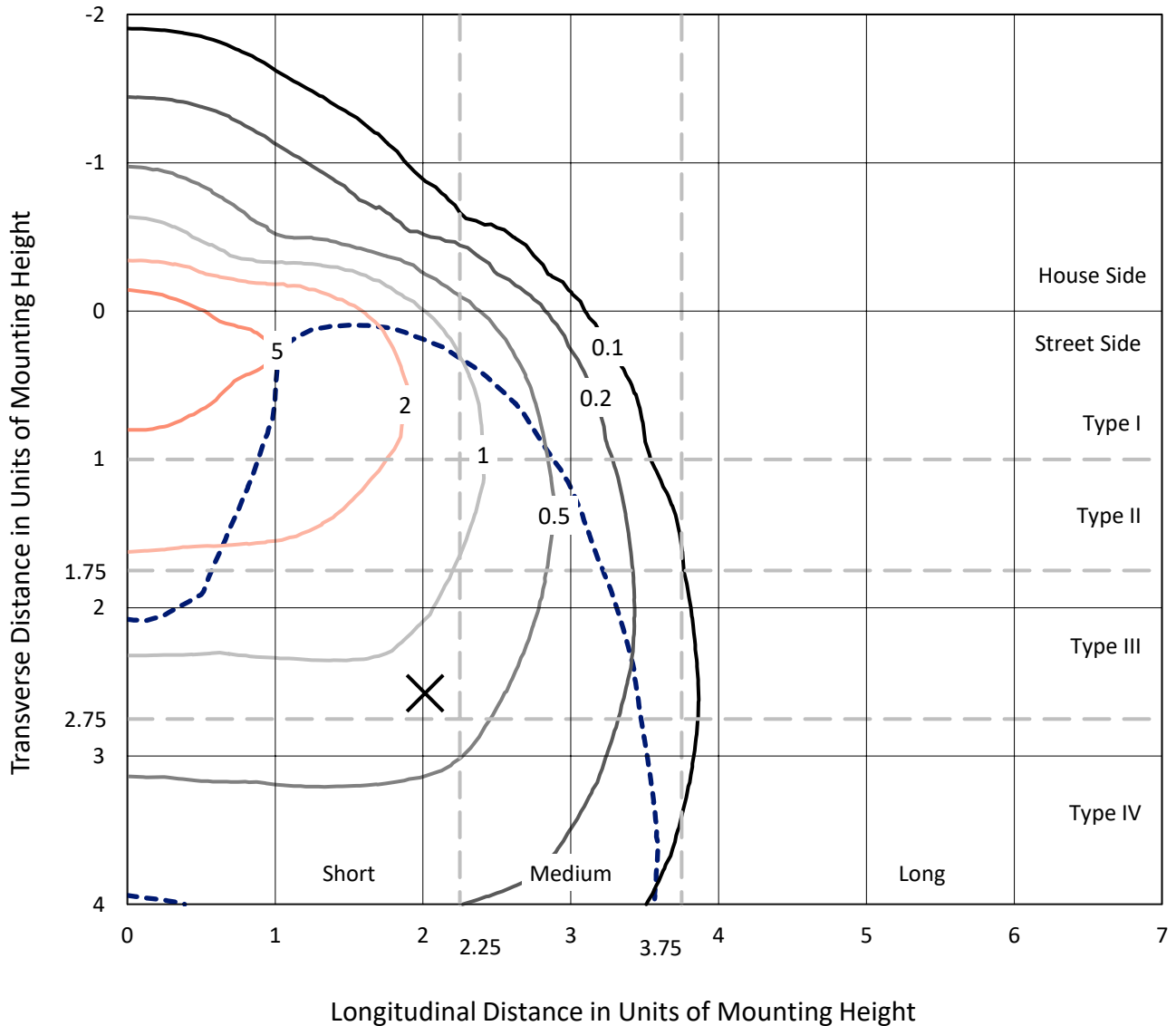
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

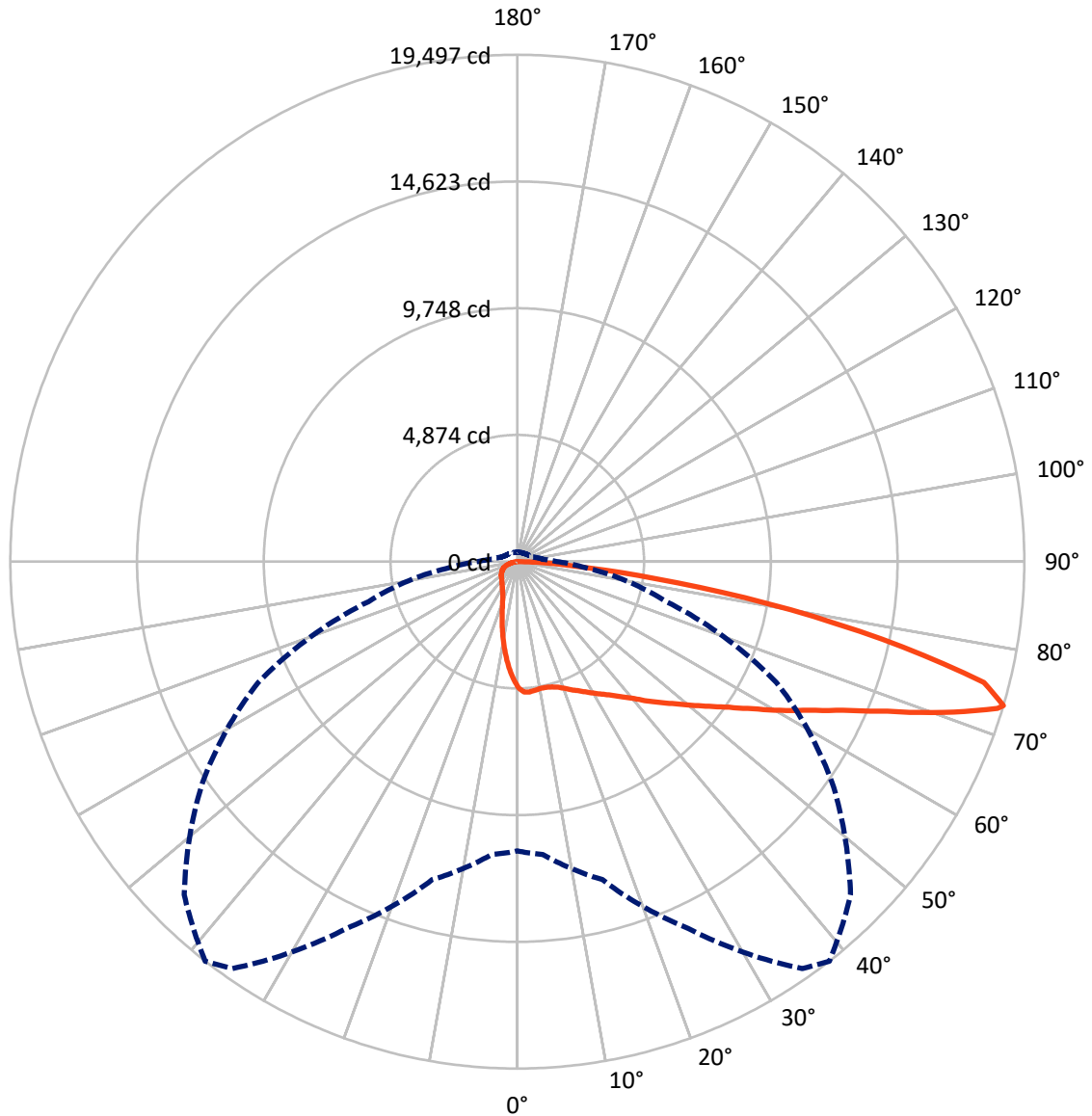
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	3713.2	0.0	3713.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	23908.8	0.0	23908.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	27622.0	0.0	27622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.6	1.5
10°-20°	1086.2	3.9
20°-30°	1691.5	6.1
30°-40°	2481.0	9.0
40°-50°	3680.2	13.3
50°-60°	5214.2	18.9
60°-70°	6614.3	23.9
70°-80°	5505.9	19.9
80°-90°	925.1	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°	27622.0	100.0
0°-180°	27622.0	100.0

**Coefficient of Utilization**



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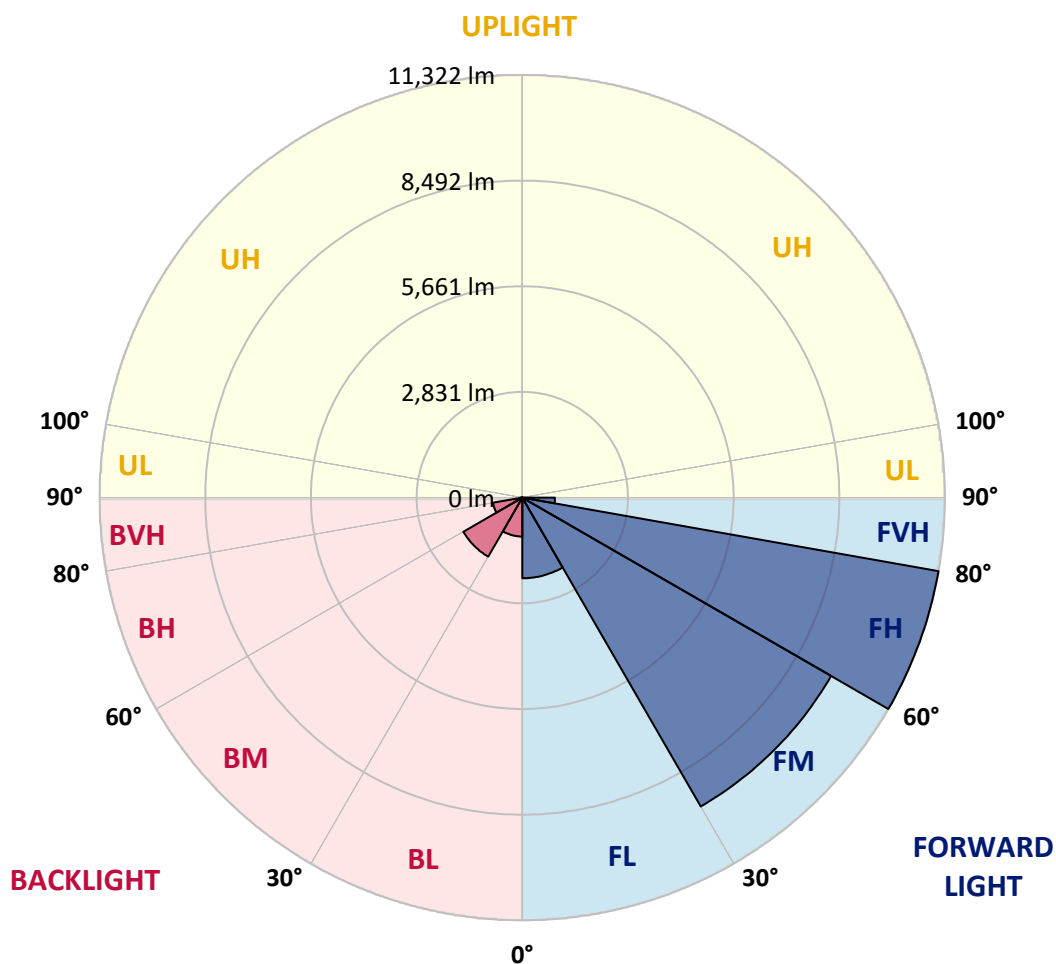
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2159.3	7.8			
FM	(30°-60°)	9552.4	34.6			
FH	(60°-80°)	11322.1	41.0			G4/12000
FVH	(80°-90°)	874.9	3.2			G5
BL	(0°-30°)	1042.0	3.8	B3/2500		
BM	(30°-60°)	1823.0	6.6	B2/2500		
BH	(60°-80°)	798.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	50.2	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°	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7
2.5°	5047.7	5072.7	5060.2	5043.0	5032.1	5021.2	5005.6	4960.3	4924.5	4885.5	4824.6
5°	5085.1	5100.7	5089.8	5068.0	5043.0	5032.1	5002.5	4943.2	4885.5	4820.0	4729.5
7.5°	5063.3	5069.5	5057.1	5030.5	5008.7	4988.4	4954.1	4888.6	4818.4	4738.8	4620.3
10°	4985.3	5008.7	5008.7	4986.9	4965.0	4954.1	4919.8	4857.4	4793.4	4703.0	4562.6
12.5°	4921.4	4946.3	4966.6	4960.3	4958.8	4958.8	4932.3	4885.5	4810.6	4724.8	4557.9
15°	4877.7	4907.3	4951.0	4975.9	4991.5	4996.2	4985.3	4944.7	4868.3	4768.5	4576.6
17.5°	4868.3	4904.2	4983.7	5038.3	5078.9	5077.3	5074.2	5018.1	4933.8	4830.9	4600.0
20°	4910.4	4957.2	5068.0	5153.8	5213.0	5202.1	5185.0	5111.7	5013.4	4898.0	4621.9
22.5°	5036.8	5085.1	5206.8	5300.4	5358.1	5358.1	5306.6	5209.9	5105.4	4975.9	4651.5
25°	5217.7	5270.8	5400.2	5495.4	5521.9	5501.6	5450.1	5333.2	5213.0	5088.3	4713.9
27.5°	5439.2	5503.2	5623.3	5702.8	5695.0	5679.4	5626.4	5476.7	5356.6	5242.7	4820.0
30°	5715.3	5762.1	5886.9	5905.6	5877.5	5874.4	5799.6	5649.8	5537.5	5450.1	4971.3
32.5°	5975.8	6017.9	6117.8	6125.6	6075.6	6081.9	6011.7	5874.4	5810.5	5779.3	5225.5
35°	6251.9	6273.7	6359.5	6350.2	6317.4	6312.7	6284.7	6153.6	6173.9	6230.1	5585.9
37.5°	6482.8	6526.4	6574.8	6582.6	6581.0	6596.6	6615.4	6553.0	6670.0	6846.2	6058.5
40°	6694.9	6732.3	6804.1	6829.1	6889.9	6921.1	6985.0	6986.6	7256.5	7546.6	6640.3
42.5°	6838.4	6902.4	7036.5	7081.8	7229.9	7323.5	7418.7	7520.1	7911.6	8284.4	7326.7
45°	6963.2	7047.4	7270.5	7410.9	7612.1	7726.0	7927.2	8139.3	8702.4	9190.7	8023.9
47.5°	7151.9	7226.8	7482.6	7730.7	8034.8	8165.9	8466.9	8783.6	9519.8	10054.8	8691.5
50°	7414.0	7459.2	7719.7	8123.7	8512.1	8680.6	9078.4	9535.4	10393.3	10908.1	9278.0
52.5°	7749.4	7768.1	7975.6	8513.7	9025.3	9234.4	9761.6	10295.1	11157.7	11649.0	9742.9
55°	8145.6	8114.4	8276.6	8927.1	9611.8	9884.8	10451.0	11064.1	12017.1	12248.0	10081.4
57.5°	8537.1	8488.7	8618.2	9429.3	10335.6	10664.7	11324.6	11856.5	12784.6	12808.0	10318.5
60°	8952.0	8916.1	9070.6	10019.0	11223.2	11613.1	12223.0	12678.5	13527.1	13198.0	10355.9
62.5°	9377.9	9320.1	9540.1	10681.9	12223.0	12577.1	13168.3	13552.0	14255.5	13343.0	9995.6
65°	9791.2	9764.7	10104.8	11469.6	13361.7	13764.2	14338.2	14598.7	14838.9	13124.6	9101.8
67.5°	10231.1	10284.1	10827.0	12521.0	14846.7	15352.1	15971.4	15726.5	15005.8	12090.5	7665.1
70°	10901.8	10936.2	11775.4	13898.3	16760.7	17370.6	17670.1	16127.4	14200.9	10126.6	5762.1
72.5°	11190.4	11341.7	12622.4	15344.3	18935.1	19307.9	18241.0	15233.6	11830.0	6879.0	3027.7
73°	11126.5	11307.4	12661.4	15564.3	19105.1	19496.7	18119.3	14773.4	10997.0	5924.3	2595.6
75°	10329.4	10552.4	12154.4	15380.2	18774.4	18540.5	16163.2	12591.2	7431.2	2693.9	1182.4
77.5°	8150.3	8214.2	9630.6	12419.6	14784.3	14350.7	12096.7	7869.5	3035.5	1001.4	670.7
80°	4088.4	4323.9	5428.3	7114.5	9886.4	9744.4	7635.5	3721.8	1265.0	588.1	444.6
82.5°	1967.0	2133.9	2644.0	3469.1	5462.6	5333.2	3781.1	2034.1	803.3	343.2	262.1
85°	1266.6	1391.4	1683.1	1655.0	2246.2	2144.8	1698.7	1539.6	475.8	179.4	182.5
87.5°	836.1	915.6	1098.1	878.2	817.4	739.4	750.3	867.3	93.6	68.6	25.0
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°	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7
2.5°	4799.7	4779.4	4712.3	4646.8	4584.4	4525.1	4486.2	4434.7	4400.4	4409.7	4423.8
5°	4679.6	4634.3	4515.8	4400.4	4291.2	4161.7	4057.2	3973.0	3909.0	3885.6	3880.9
7.5°	4553.2	4476.8	4306.8	4108.7	3923.0	3762.4	3576.8	3484.7	3377.1	3339.7	3327.2
10°	4476.8	4373.8	4135.2	3859.1	3579.9	3313.1	3111.9	2948.1	2799.9	2771.9	2757.8
12.5°	4455.0	4319.2	3997.9	3642.3	3271.0	2943.5	2645.5	2430.3	2286.8	2254.0	2205.6
15°	4442.5	4274.0	3870.0	3423.9	2952.8	2553.5	2240.0	1988.8	1857.8	1770.4	1772.0
17.5°	4431.6	4222.5	3726.5	3185.2	2678.3	2218.1	1871.8	1645.6	1525.5	1478.7	1474.1
20°	4416.0	4161.7	3561.2	2934.1	2364.7	1912.4	1598.9	1430.4	1349.3	1310.3	1308.7
22.5°	4409.7	4102.4	3398.9	2678.3	2087.1	1676.8	1417.9	1299.4	1247.9	1221.4	1221.4
25°	4425.3	4060.3	3228.9	2434.9	1840.6	1475.6	1293.1	1212.0	1182.4	1168.3	1163.7
27.5°	4473.7	4041.6	3060.4	2191.6	1614.5	1338.4	1208.9	1152.7	1130.9	1120.0	1121.5
30°	4565.7	4040.0	2895.1	1951.4	1446.0	1233.8	1141.8	1102.8	1085.7	1079.4	1077.9
32.5°	4713.9	4074.3	2732.9	1753.3	1304.0	1146.5	1079.4	1051.3	1043.5	1038.9	1037.3
35°	4965.0	4171.1	2572.2	1572.3	1194.9	1068.5	1020.1	1006.1	995.2	999.9	1001.4
37.5°	5303.5	4338.0	2419.3	1430.4	1112.2	1010.8	970.2	957.8	951.5	956.2	960.9
40°	5757.4	4578.2	2291.4	1316.5	1052.9	962.4	926.6	915.6	909.4	917.2	918.8
42.5°	6258.1	4855.8	2185.4	1227.6	1004.5	921.9	887.6	875.1	870.4	875.1	876.6
45°	6772.9	5178.7	2130.8	1163.7	964.0	892.2	856.4	842.3	831.4	828.3	833.0
47.5°	7279.9	5459.5	2129.2	1124.7	931.2	865.7	826.7	811.1	797.1	789.3	787.7
50°	7693.2	5682.6	2166.6	1107.5	903.2	836.1	797.1	781.5	762.8	747.2	750.3
52.5°	8005.2	5827.6	2183.8	1099.7	887.6	804.9	765.9	751.9	730.0	709.7	709.7
55°	8206.4	5861.9	2141.7	1091.9	875.1	772.1	730.0	717.5	695.7	675.4	675.4
57.5°	8275.0	5755.9	1990.4	1073.2	862.6	744.1	694.1	683.2	666.1	645.8	642.7
60°	8115.9	5397.1	1725.2	1017.0	837.6	714.4	655.1	650.5	644.2	627.1	625.5
62.5°	7502.9	4635.9	1436.6	943.7	795.5	683.2	619.3	627.1	631.7	622.4	620.8
65°	6482.8	3763.9	1227.6	842.3	739.4	639.5	580.3	600.5	613.0	613.0	609.9
67.5°	5258.3	2890.4	1034.2	755.0	669.2	580.3	536.6	552.2	561.5	558.4	566.2
70°	3737.4	1957.6	842.3	655.1	580.3	513.2	480.4	480.4	474.2	471.1	471.1
72.5°	1812.6	1118.4	683.2	547.5	494.5	438.3	411.8	400.9	388.4	386.8	379.0
73°	1514.6	1003.0	652.0	527.2	474.2	427.4	397.8	380.6	372.8	366.6	365.0
75°	921.9	761.2	544.4	444.6	404.0	368.1	341.6	326.0	318.2	313.5	312.0
77.5°	606.8	567.8	422.7	340.0	308.9	287.0	276.1	260.5	255.8	249.6	249.6
80°	452.4	433.6	302.6	240.2	221.5	202.8	199.7	196.5	184.1	176.3	173.1
82.5°	291.7	308.9	205.9	160.7	140.4	124.8	126.3	131.0	118.5	107.6	104.5
85°	207.5	223.1	124.8	73.3	59.3	51.5	57.7	51.5	53.0	42.1	34.3
87.5°	34.3	59.3	21.8	9.4	4.7	3.1	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)