

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: P646946

Luminaire Tested: **GALN-SA5C-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27324.3 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

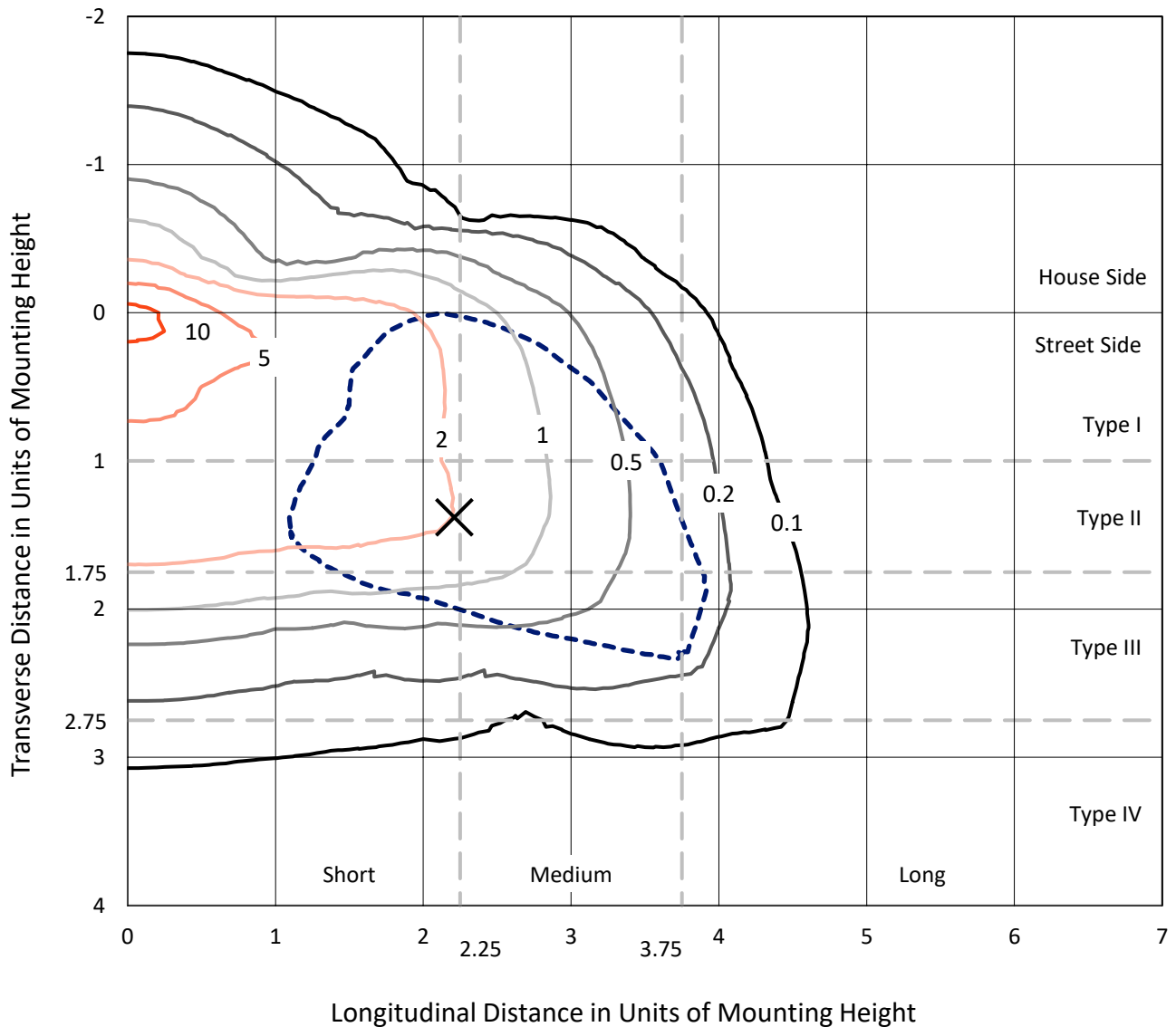
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

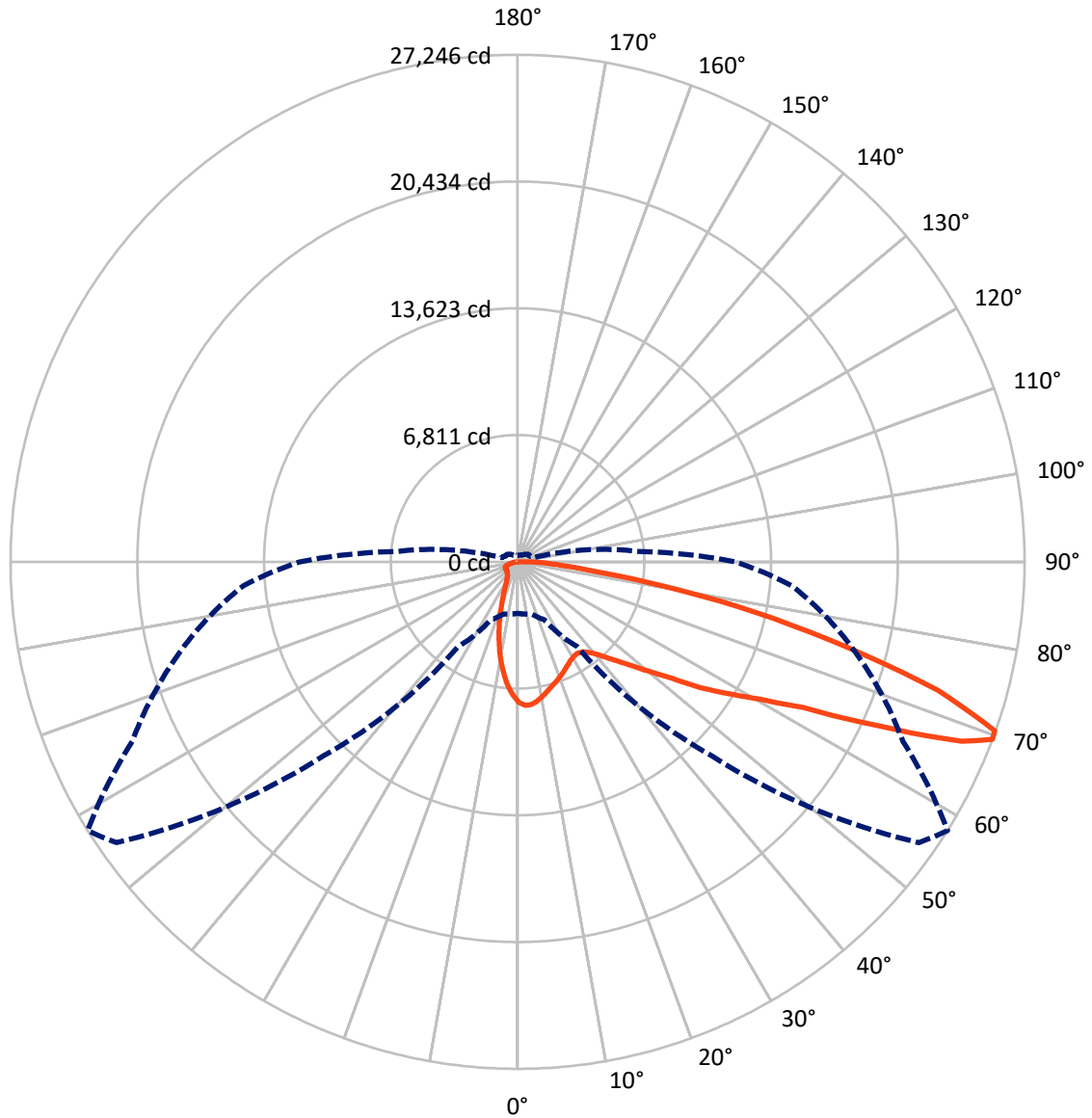
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4004.4	0.0	4004.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23320.0	0.0	23320.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	27324.3	0.0	27324.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.2	2.3
10°-20°	1408.1	5.2
20°-30°	1819.3	6.7
30°-40°	2362.9	8.6
40°-50°	3435.2	12.6
50°-60°	5481.5	20.1
60°-70°	7322.7	26.8
70°-80°	4221.2	15.4
80°-90°	632.2	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°	27324.3	100.0
0°-180°	27324.3	100.0

**Coefficient of Utilization**



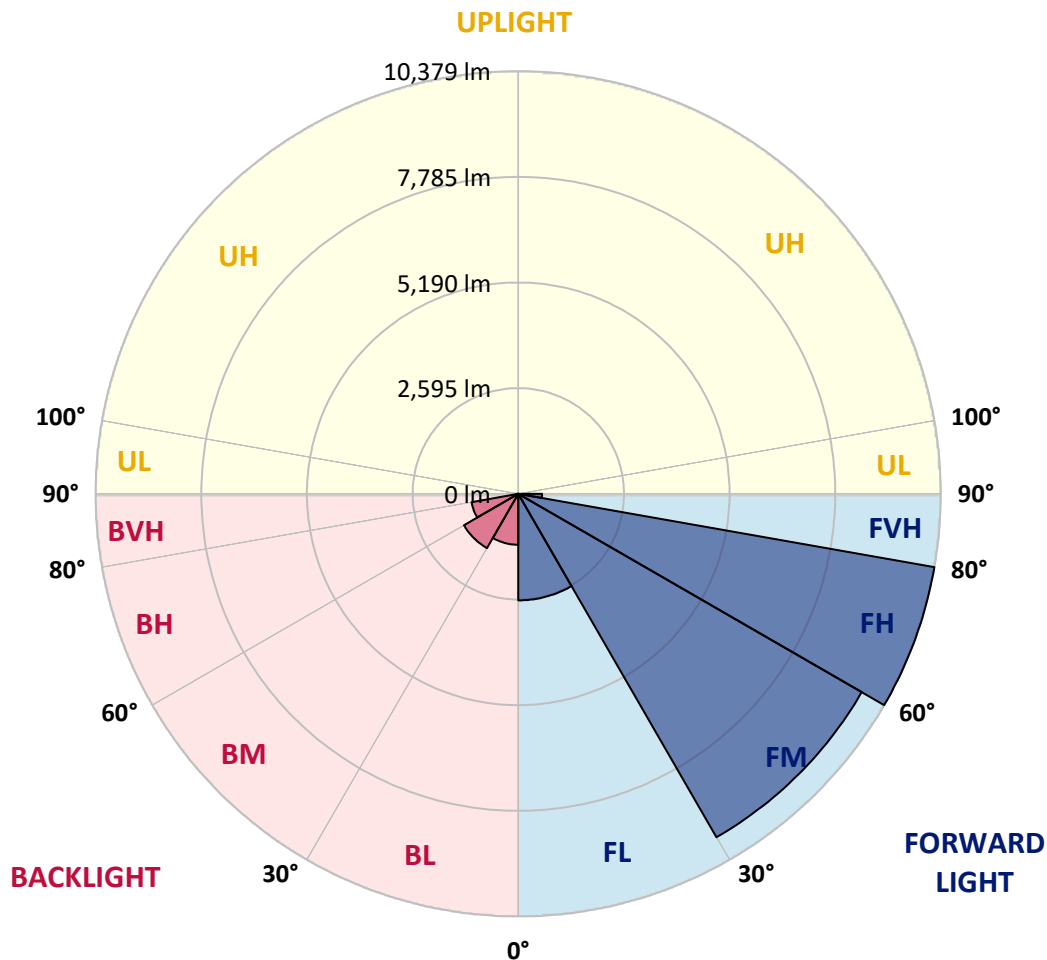
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.0	9.6			
FM (30°-60°)	9739.7	35.6			
FH (60°-80°)	10379.5	38.0			G4/12000
FVH (80°-90°)	583.8	2.1			G4/750
BL (0°-30°)	1251.6	4.6	B3/2500		
BM (30°-60°)	1539.9	5.6	B2/2500		
BH (60°-80°)	1164.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	48.4	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9
2.5°	7831.3	7852.6	7846.5	7838.8	7826.7	7793.1	7738.3	7729.1	7694.1	7619.5	7526.4
5°	7710.8	7729.1	7730.6	7741.4	7756.6	7750.4	7710.8	7706.3	7654.5	7553.9	7398.5
7.5°	7297.9	7322.3	7375.6	7435.1	7488.4	7538.6	7550.9	7558.5	7526.4	7410.6	7203.4
10°	6833.1	6857.5	6881.9	6970.3	7101.3	7226.2	7329.9	7343.6	7351.2	7244.6	6991.6
12.5°	6318.0	6368.3	6420.1	6551.2	6726.4	6923.0	7105.9	7134.9	7186.6	7105.9	6808.7
15°	5880.6	5932.5	6007.2	6124.5	6336.3	6619.8	6877.3	6924.5	7026.6	6985.5	6638.0
17.5°	5577.4	5595.7	5647.5	5781.6	6010.2	6308.9	6653.3	6747.7	6910.8	6900.2	6491.8
20°	5338.2	5361.0	5393.0	5475.3	5713.1	6028.5	6444.5	6566.4	6787.4	6823.9	6347.0
22.5°	5237.6	5254.3	5249.8	5293.9	5455.5	5772.5	6232.7	6377.5	6677.7	6772.2	6212.9
25°	5243.7	5258.9	5236.1	5225.4	5321.4	5546.9	6011.7	6196.1	6589.3	6737.1	6091.0
27.5°	5345.8	5356.4	5313.8	5271.2	5278.8	5406.8	5828.9	6033.1	6514.6	6752.4	5988.9
30°	5483.0	5502.8	5475.3	5423.5	5367.2	5373.2	5711.5	5912.7	6479.6	6805.7	5940.1
32.5°	5659.7	5678.0	5665.8	5624.7	5551.5	5470.7	5682.5	5868.5	6482.6	6913.9	5929.4
35°	5845.6	5882.2	5902.0	5899.0	5839.5	5699.3	5796.9	5950.8	6555.7	7095.2	5991.9
37.5°	6056.0	6086.4	6171.8	6226.6	6171.8	6008.7	6054.4	6161.0	6717.3	7357.3	6129.1
40°	6260.1	6305.8	6430.8	6601.5	6580.1	6436.9	6447.5	6517.7	7002.3	7747.4	6397.3
42.5°	6473.5	6528.3	6746.2	6999.2	7049.5	6938.2	6967.2	7029.7	7407.6	8288.4	6857.5
45°	6747.7	6813.3	7081.5	7396.9	7595.0	7526.4	7608.7	7639.3	7950.1	8992.4	7464.0
47.5°	7101.3	7177.5	7508.2	7901.3	8181.7	8244.2	8387.5	8369.2	8622.2	9826.0	8250.3
50°	7697.1	7739.8	8052.2	8453.0	8838.5	9120.5	9275.9	9304.9	9455.7	10636.7	9129.6
52.5°	8405.7	8443.9	8669.4	9019.8	9503.0	10100.3	10484.3	10389.9	10426.4	11624.2	10158.3
55°	9202.8	9266.7	9410.0	9643.1	10269.4	11148.7	11919.8	11942.7	11537.3	12569.0	11144.2
57.5°	9819.9	9928.1	10173.4	10505.7	11299.6	12314.6	13350.8	13366.0	12847.9	13577.8	12232.3
60°	9509.1	9637.1	10197.9	11007.0	12651.3	14348.9	15060.5	14973.7	14123.4	14726.8	13559.5
62.5°	8168.0	8190.9	9006.1	10271.0	13067.3	17070.6	17605.4	17238.2	15825.5	16183.7	14908.2
65°	5286.3	5435.7	6081.8	7854.1	11700.4	18580.7	22064.3	21215.5	18212.0	17837.1	16037.4
67.5°	3337.3	3299.2	3567.4	4484.8	8047.7	17250.4	25869.5	25735.4	21332.8	18880.9	15767.7
69°	2767.4	2810.0	2901.5	3437.9	5537.8	14728.4	26319.1	27245.6	22846.1	18798.7	14787.8
70°	2509.8	2529.6	2625.6	3047.7	4273.0	12335.9	25581.5	27204.4	23440.4	18454.2	14077.6
72.5°	1991.7	1990.2	2154.7	2535.7	3194.1	7041.9	21005.2	23618.7	22776.0	16851.1	11631.8
75°	1513.2	1537.6	1718.9	2145.7	2942.6	3847.8	14658.2	18189.1	18190.7	13309.6	7258.3
77.5°	1091.1	1106.4	1318.2	1801.2	2772.0	3119.4	9763.5	13046.0	12264.2	6098.6	2281.3
80°	714.7	723.9	885.4	1426.4	2499.2	2942.6	5789.3	7985.2	5784.6	1618.4	754.3
82.5°	391.7	437.4	541.0	923.5	2005.4	2718.6	3518.6	4041.4	2170.0	720.8	393.1
85°	196.6	208.7	304.7	539.5	1310.5	2249.2	2450.4	2317.8	1120.1	358.1	204.2
87.5°	57.9	73.1	126.5	208.7	531.8	1171.8	1363.9	1223.7	431.3	129.5	42.7
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°	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9	7550.9
2.5°	7488.4	7461.0	7339.1	7229.3	7128.7	7022.1	6932.1	6852.9	6860.6	6862.1	6781.2
5°	7317.7	7255.2	7023.6	6807.2	6624.3	6392.7	6194.6	6066.6	6002.6	5917.2	5947.7
7.5°	7086.1	6965.6	6644.1	6284.5	5947.7	5647.5	5321.4	5097.4	4954.1	4815.4	4833.8
10°	6846.8	6653.3	6185.5	5710.0	5274.1	4794.2	4378.1	4021.6	3756.4	3657.3	3591.8
12.5°	6601.5	6347.0	5752.7	5120.3	4518.3	3943.8	3354.1	2971.6	2679.0	2523.5	2543.3
15°	6377.5	6068.1	5301.6	4530.5	3748.8	3064.5	2476.3	2112.1	1907.9	1865.3	1889.6
17.5°	6170.2	5764.8	4879.5	3957.5	3044.7	2298.0	1860.6	1654.9	1572.7	1549.8	1548.3
20°	5956.8	5507.3	4405.5	3344.9	2372.7	1781.4	1526.9	1430.9	1415.7	1424.8	1426.4
22.5°	5740.5	5188.9	3917.9	2736.9	1889.6	1456.8	1334.9	1309.0	1321.2	1342.5	1345.6
25°	5540.8	4908.5	3448.6	2203.5	1508.7	1280.0	1220.6	1220.6	1248.0	1280.0	1281.6
27.5°	5376.2	4637.2	2980.7	1749.5	1263.3	1152.0	1132.2	1142.9	1181.0	1205.4	1206.9
30°	5240.6	4384.3	2538.8	1402.0	1110.9	1049.9	1045.4	1063.7	1091.1	1114.0	1115.5
32.5°	5138.5	4161.7	2125.8	1177.9	1005.8	972.3	970.7	984.5	999.7	1005.8	1011.9
35°	5098.9	3977.3	1747.9	1036.2	935.7	914.3	914.3	912.8	918.9	922.0	925.0
37.5°	5130.9	3835.6	1455.3	944.8	883.9	868.6	859.5	850.3	847.3	847.3	848.8
40°	5266.5	3761.0	1237.4	885.4	847.3	824.4	807.7	797.0	786.3	789.3	792.4
42.5°	5554.5	3774.7	1089.5	845.7	815.3	783.3	758.9	746.7	739.1	748.2	746.7
45°	6013.3	3911.8	995.1	818.3	783.3	742.1	719.3	707.0	707.0	720.8	725.4
47.5°	6654.8	4173.9	944.8	797.0	758.9	710.1	687.2	678.2	681.2	704.1	705.6
50°	7438.1	4629.6	935.7	786.3	746.7	687.2	661.4	652.2	659.8	684.2	687.2
52.5°	8302.1	5216.3	979.8	787.9	736.0	673.5	640.0	626.3	633.9	653.7	659.8
55°	9326.2	5950.8	1094.2	794.0	720.8	665.9	624.8	594.3	603.5	617.2	618.7
57.5°	10371.5	6877.3	1295.3	795.4	708.6	652.2	598.9	559.3	559.3	568.4	573.0
60°	11648.6	7886.1	1560.4	797.0	710.1	632.4	563.8	519.7	513.6	518.1	519.7
62.5°	12916.4	8730.4	1604.7	792.4	725.4	612.6	525.7	480.1	469.3	467.8	464.8
65°	13475.7	8573.4	1315.1	771.1	742.1	600.4	495.2	441.9	423.6	417.6	417.6
67.5°	12564.4	7252.1	989.0	742.1	731.5	588.2	466.3	409.9	388.6	376.4	376.4
69°	11708.0	6450.6	888.4	722.3	704.1	568.4	448.0	393.1	367.2	353.5	349.0
70°	11046.6	5899.0	845.7	705.6	678.2	545.5	434.3	381.0	352.0	336.8	333.7
72.5°	8815.6	4628.1	740.6	641.6	577.5	458.7	385.5	342.9	315.5	298.7	294.1
75°	5080.7	2508.3	614.1	557.7	464.8	356.6	326.1	298.7	277.3	262.1	257.5
77.5°	1563.5	969.2	445.0	440.4	341.4	275.9	260.6	249.9	234.7	217.9	214.9
80°	658.3	493.8	301.8	297.1	227.1	192.0	187.5	185.9	179.9	166.1	161.5
82.5°	361.2	278.9	210.3	182.8	137.2	111.3	115.8	117.4	112.8	99.0	89.9
85°	176.8	152.4	102.1	82.3	62.5	39.6	38.1	45.7	42.7	30.5	33.5
87.5°	35.1	42.7	27.4	12.2	6.1	0.0	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)