

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: P456376

Luminaire Tested: **GALN-SA7C-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456376  
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-SA7C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 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: 35679 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

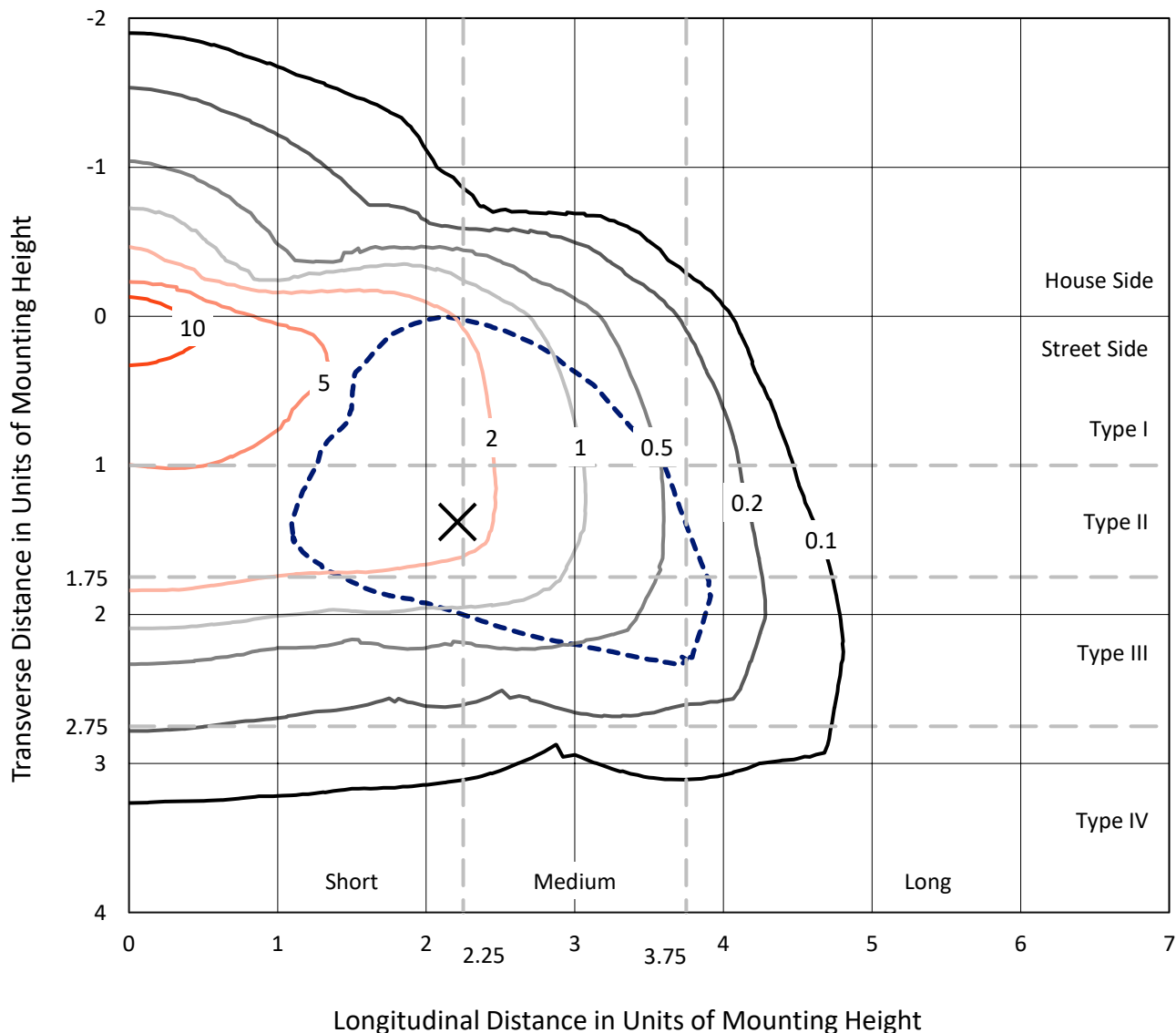
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

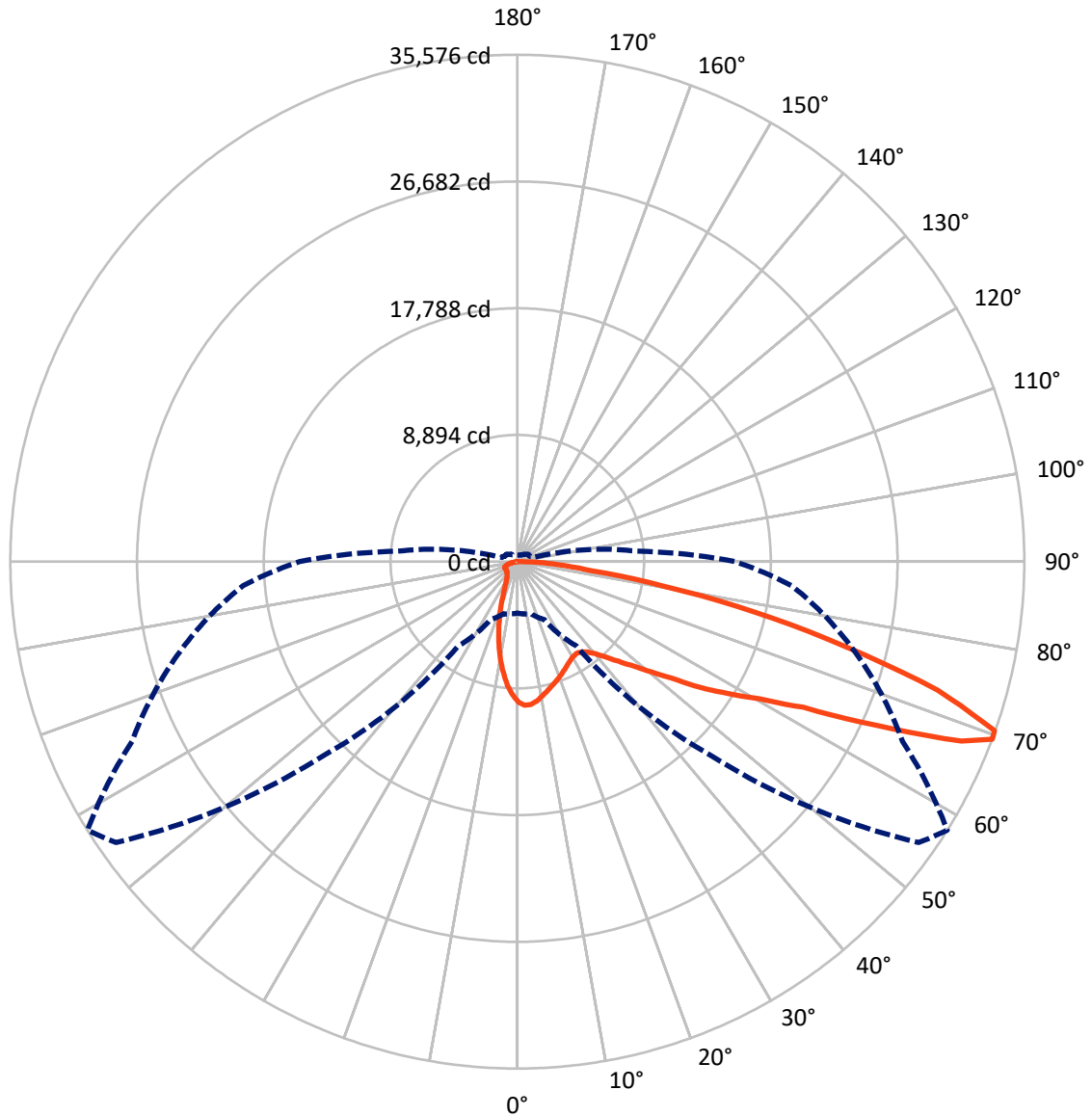
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	5228.8	0.0	5228.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	30450.2	0.0	30450.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	35679.0	0.0	35679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	837.3	2.3
10°-20°	1838.6	5.2
20°-30°	2375.5	6.7
30°-40°	3085.3	8.6
40°-50°	4485.6	12.6
50°-60°	7157.6	20.1
60°-70°	9561.6	26.8
70°-80°	5511.9	15.4
80°-90°	825.6	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°	35679.0	100.0
0°-180°	35679.0	100.0

**Coefficient of Utilization**



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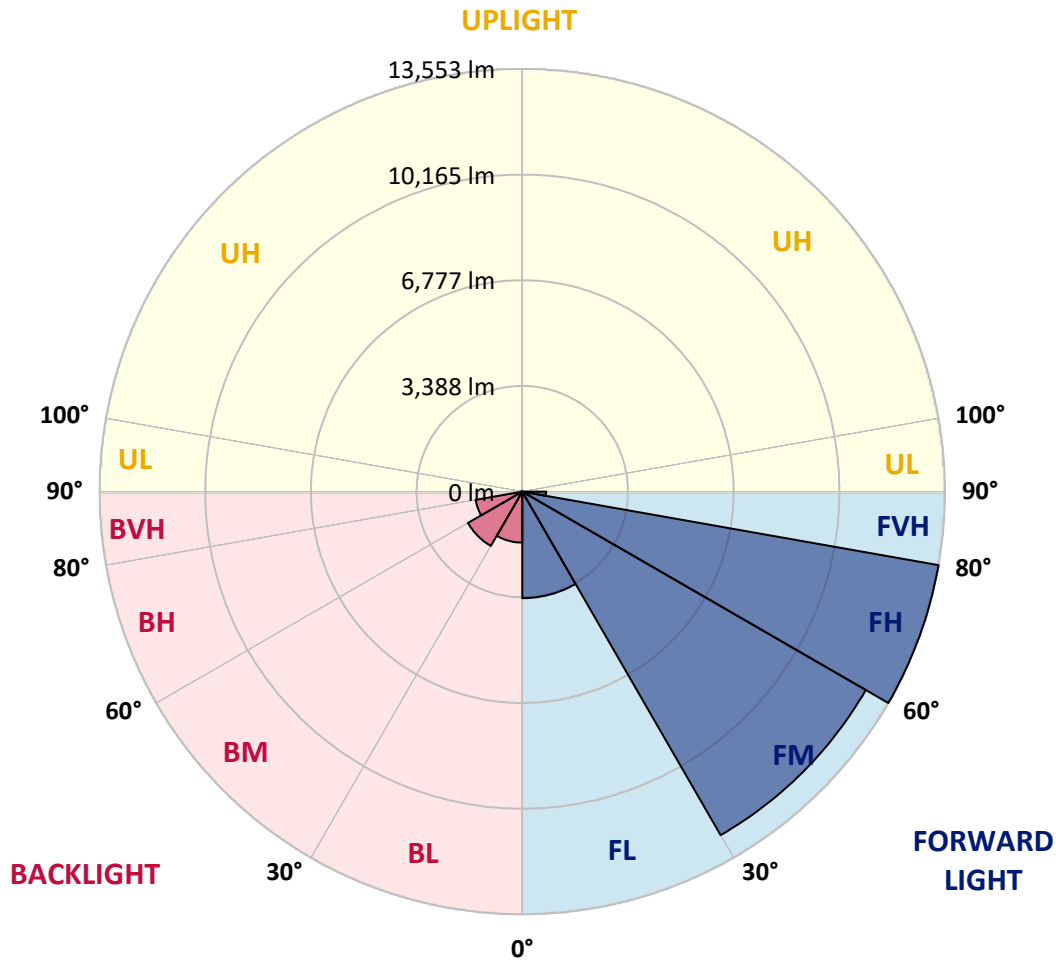
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3417.1	9.6			
FM	(30°-60°)	12717.7	35.6			
FH	(60°-80°)	13553.1	38.0			G5
FVH	(80°-90°)	762.3	2.1			G5
BL	(0°-30°)	1634.3	4.6	B3/2500		
BM	(30°-60°)	2010.8	5.6	B2/2500		
BH	(60°-80°)	1520.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	63.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6
2.5°	10225.7	10253.6	10245.6	10235.7	10219.7	10176.0	10104.3	10092.4	10046.6	9949.1	9827.7
5°	10068.5	10092.4	10094.4	10108.3	10128.2	10120.3	10068.5	10062.5	9994.9	9863.6	9660.6
7.5°	9529.3	9561.1	9630.8	9708.4	9778.0	9843.7	9859.6	9869.5	9827.7	9676.5	9405.9
10°	8922.4	8954.2	8986.1	9101.5	9272.6	9435.8	9571.1	9589.0	9598.9	9459.6	9129.3
12.5°	8249.8	8315.5	8383.1	8554.3	8783.1	9039.8	9278.6	9316.4	9384.0	9278.6	8890.5
15°	7678.7	7746.4	7843.9	7997.1	8273.7	8643.8	8980.1	9041.8	9175.1	9121.4	8667.7
17.5°	7282.8	7306.6	7374.3	7549.4	7847.9	8237.9	8687.6	8810.9	9023.9	9009.9	8476.7
20°	6970.4	7000.2	7042.0	7149.4	7459.9	7871.8	8415.0	8574.2	8862.7	8910.4	8287.6
22.5°	6839.0	6860.9	6854.9	6912.7	7123.6	7537.5	8138.4	8327.4	8719.4	8842.8	8112.5
25°	6847.0	6866.9	6837.0	6823.1	6948.5	7243.0	7849.9	8090.6	8604.0	8797.0	7953.3
27.5°	6980.3	6994.2	6938.5	6882.8	6892.8	7059.9	7611.1	7877.7	8506.5	8816.9	7820.0
30°	7159.4	7185.3	7149.4	7081.8	7008.2	7016.1	7457.9	7720.5	8460.7	8886.6	7756.3
32.5°	7390.2	7414.1	7398.2	7344.4	7248.9	7143.5	7420.1	7662.8	8464.7	9027.8	7742.4
35°	7633.0	7680.7	7706.6	7702.6	7625.0	7441.9	7569.3	7770.3	8560.2	9264.6	7824.0
37.5°	7907.6	7947.4	8058.8	8130.4	8058.8	7845.9	7905.6	8044.9	8771.2	9606.9	8003.1
40°	8174.2	8233.9	8397.1	8619.9	8592.1	8405.0	8419.0	8510.5	9143.2	10116.3	8353.3
42.5°	8452.8	8524.4	8809.0	9139.3	9204.9	9059.7	9097.5	9179.1	9672.5	10822.7	8954.2
45°	8810.9	8896.5	9246.7	9658.6	9917.3	9827.7	9935.2	9975.0	10380.9	11742.0	9746.2
47.5°	9272.6	9372.1	9803.9	10317.2	10683.4	10765.0	10952.0	10928.1	11258.4	12830.4	10772.9
50°	10050.6	10106.3	10514.2	11037.6	11541.0	11909.1	12112.1	12149.9	12346.9	13889.0	11921.0
52.5°	10975.9	11025.6	11320.1	11777.8	12408.6	13188.6	13690.0	13566.6	13614.4	15178.4	13264.2
55°	12016.6	12100.1	12287.2	12591.6	13409.4	14557.6	15564.4	15594.3	15065.0	16412.1	14551.6
57.5°	12822.4	12963.7	13284.1	13717.9	14754.6	16079.8	17432.9	17452.8	16776.2	17729.3	15972.3
60°	12416.5	12583.7	13315.9	14372.5	16519.5	18736.2	19665.4	19552.0	18441.7	19229.7	17705.5
62.5°	10665.5	10695.3	11759.9	13411.4	17062.8	22290.0	22988.5	22508.9	20664.3	21131.9	19466.5
65°	6902.7	7097.7	7941.4	10255.6	15277.9	24261.9	28810.7	27702.4	23780.4	23290.9	20940.9
67.5°	4357.7	4308.0	4658.2	5856.1	10508.3	22524.8	33779.3	33604.2	27855.6	24653.9	20588.7
69°	3613.5	3669.2	3788.6	4489.0	7231.0	19231.7	34366.3	35576.1	29831.5	24546.5	19309.3
70°	3277.2	3303.1	3428.5	3979.7	5579.5	16107.6	33403.2	35522.4	30607.5	24096.8	18382.0
72.5°	2600.7	2598.7	2813.6	3311.1	4170.7	9195.0	27427.8	30840.3	29739.9	22003.5	15188.3
75°	1975.9	2007.7	2244.5	2801.7	3842.4	5024.3	19140.1	23750.6	23752.6	17379.1	9477.5
77.5°	1424.7	1444.6	1721.2	2352.0	3619.5	4073.2	12748.8	17034.9	16014.1	7963.3	2978.8
80°	933.2	945.2	1156.1	1862.5	3263.3	3842.4	7559.3	10426.7	7553.4	2113.2	985.0
82.5°	511.4	571.1	706.4	1205.8	2618.6	3549.8	4594.5	5277.0	2833.5	941.2	513.4
85°	256.7	272.6	398.0	704.4	1711.3	2937.0	3199.6	3026.5	1462.5	467.6	266.6
87.5°	75.6	95.5	165.2	272.6	694.4	1530.2	1780.9	1597.8	563.1	169.1	55.7
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°	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6
2.5°	9778.0	9742.2	9583.0	9439.7	9308.4	9169.1	9051.7	8948.2	8958.2	8960.2	8854.7
5°	9555.1	9473.6	9171.1	8888.6	8649.8	8347.3	8088.6	7921.5	7837.9	7726.5	7766.3
7.5°	9252.7	9095.5	8675.6	8206.0	7766.3	7374.3	6948.5	6656.0	6468.9	6287.8	6311.7
10°	8940.3	8687.6	8076.7	7455.9	6886.8	6260.0	5716.8	5251.2	4904.9	4775.6	4690.0
12.5°	8619.9	8287.6	7511.6	6685.8	5899.8	5149.7	4379.6	3880.2	3498.1	3295.2	3321.0
15°	8327.4	7923.5	6922.6	5915.8	4895.0	4001.5	3233.5	2757.9	2491.3	2435.5	2467.4
17.5°	8056.8	7527.5	6371.4	5167.6	3975.7	3000.7	2429.6	2161.0	2053.5	2023.7	2021.7
20°	7778.2	7191.2	5752.6	4367.7	3098.2	2326.1	1993.8	1868.4	1848.5	1860.5	1862.5
22.5°	7495.7	6775.4	5115.8	3573.7	2467.4	1902.3	1743.1	1709.3	1725.2	1753.0	1757.0
25°	7235.0	6409.2	4503.0	2877.3	1969.9	1671.5	1593.9	1593.9	1629.7	1671.5	1673.4
27.5°	7020.1	6055.0	3892.1	2284.3	1649.6	1504.3	1478.4	1492.4	1542.1	1574.0	1575.9
30°	6843.0	5724.7	3315.0	1830.6	1450.6	1371.0	1365.0	1388.9	1424.7	1454.6	1456.6
32.5°	6709.7	5434.2	2775.8	1538.1	1313.3	1269.5	1267.5	1285.4	1305.3	1313.3	1321.2
35°	6658.0	5193.4	2282.3	1353.1	1221.8	1193.9	1193.9	1191.9	1199.9	1203.8	1207.8
37.5°	6699.7	5008.4	1900.3	1233.7	1154.1	1134.2	1122.3	1110.3	1106.3	1106.3	1108.3
40°	6876.8	4910.9	1615.7	1156.1	1106.3	1076.5	1054.6	1040.7	1026.8	1030.7	1034.7
42.5°	7252.9	4928.8	1422.7	1104.4	1064.6	1022.8	990.9	975.0	965.1	977.0	975.0
45°	7851.9	5107.9	1299.4	1068.5	1022.8	969.0	939.2	923.3	923.3	941.2	947.2
47.5°	8689.6	5450.1	1233.7	1040.7	990.9	927.3	897.4	885.5	889.5	919.3	921.3
50°	9712.3	6045.1	1221.8	1026.8	975.0	897.4	863.6	851.6	861.6	893.4	897.4
52.5°	10840.6	6811.2	1279.5	1028.7	961.1	879.5	835.7	817.8	827.8	853.6	861.6
55°	12177.7	7770.3	1428.7	1036.7	941.2	869.6	815.8	776.0	788.0	805.9	807.9
57.5°	13542.8	8980.1	1691.4	1038.7	925.3	851.6	782.0	730.3	730.3	742.2	748.2
60°	15210.2	10297.3	2037.6	1040.7	927.3	825.8	736.2	678.5	670.6	676.5	678.5
62.5°	16865.8	11399.7	2095.3	1034.7	947.2	799.9	686.5	626.8	612.9	610.9	606.9
65°	17596.0	11194.8	1717.2	1006.9	969.0	784.0	646.7	577.0	553.2	545.2	545.2
67.5°	16406.1	9469.6	1291.4	969.0	955.1	768.1	608.9	535.3	507.4	491.5	491.5
69°	15287.8	8422.9	1160.1	943.2	919.3	742.2	585.0	513.4	479.5	461.6	455.7
70°	14424.2	7702.6	1104.4	921.3	885.5	712.4	567.1	497.5	459.6	439.8	435.8
72.5°	11511.1	6043.1	967.1	837.7	754.1	598.9	503.4	447.7	411.9	390.0	384.0
75°	6634.1	3275.3	801.9	728.3	606.9	465.6	425.8	390.0	362.1	342.3	336.3
77.5°	2041.6	1265.5	581.0	575.1	445.7	360.2	340.3	326.3	306.4	284.5	280.6
80°	859.6	644.7	394.0	388.0	296.5	250.7	244.7	242.8	234.8	216.9	210.9
82.5°	471.6	364.1	274.6	238.8	179.1	145.3	151.2	153.2	147.2	129.3	117.4
85°	230.8	199.0	133.3	107.5	81.6	51.7	49.7	59.7	55.7	39.8	43.8
87.5°	45.8	55.7	35.8	15.9	8.0	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)