

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: P455305

Luminaire Tested: **GALN-SA6C-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455305  
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-SA6C-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA 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: 34128 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

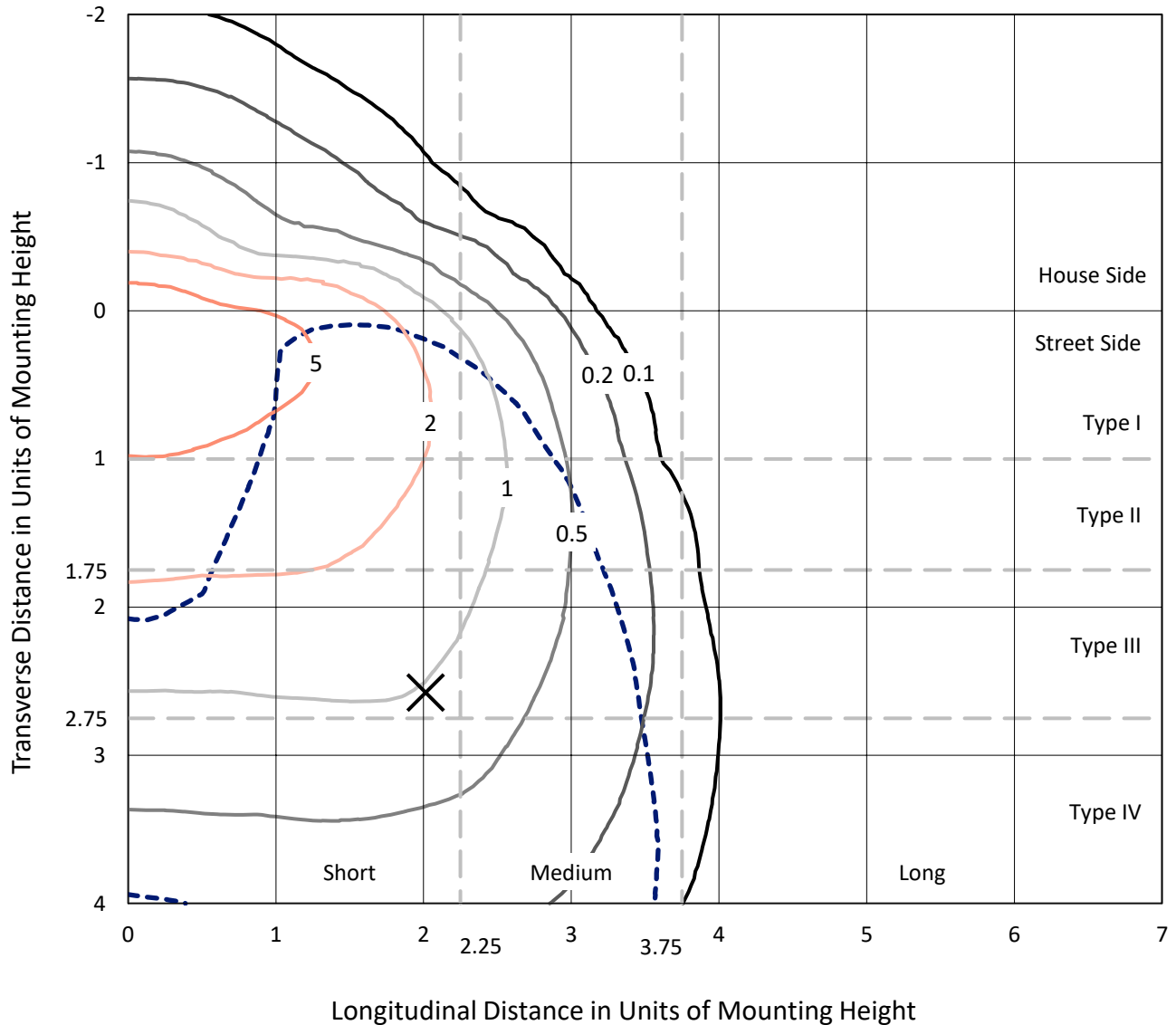
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

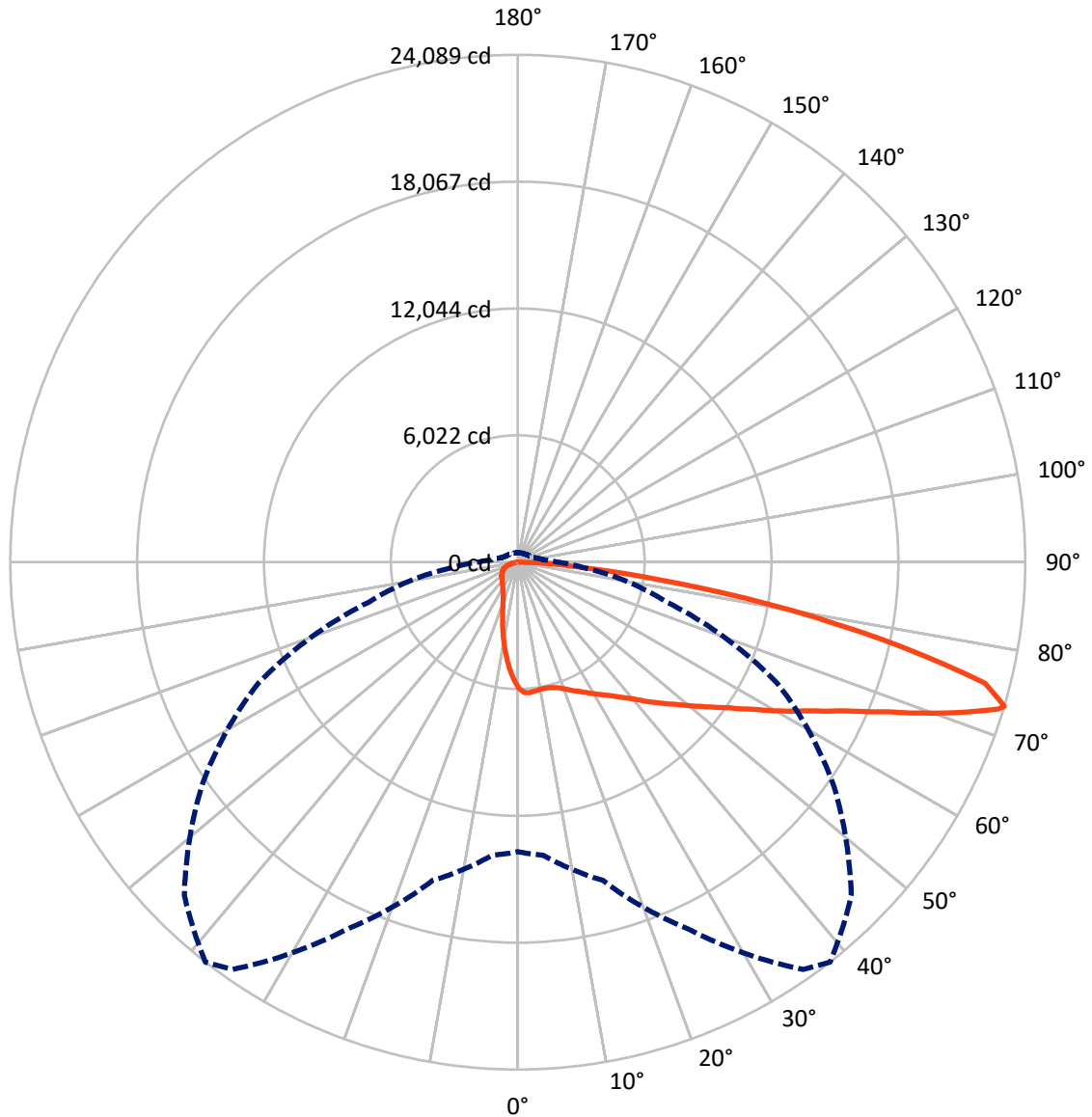
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	4587.8	0.0	4587.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	29540.2	0.0	29540.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	34128.0	0.0	34128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.3	1.5
10°-20°	1342.1	3.9
20°-30°	2089.9	6.1
30°-40°	3065.3	9.0
40°-50°	4547.1	13.3
50°-60°	6442.3	18.9
60°-70°	8172.3	23.9
70°-80°	6802.8	19.9
80°-90°	1143.0	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°	34128.0	100.0
0°-180°	34128.0	100.0

**Coefficient of Utilization**



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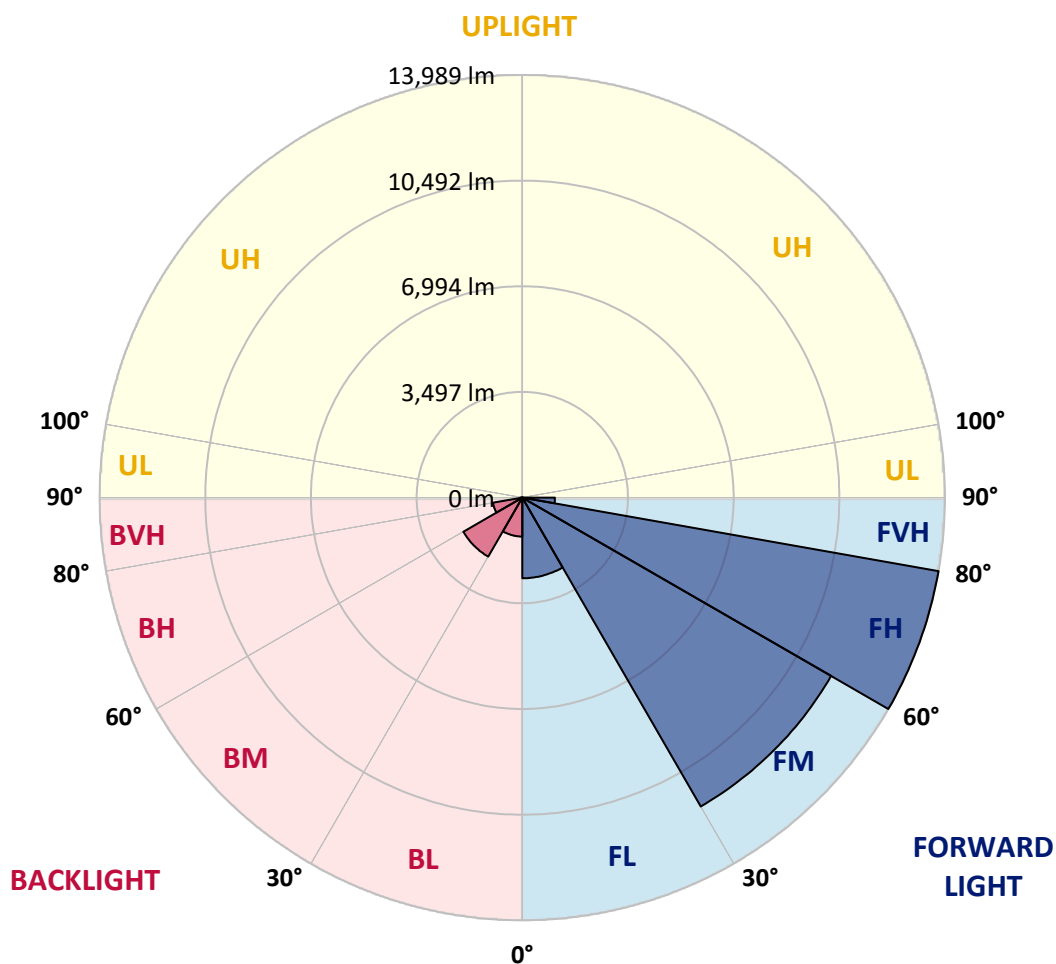
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2667.9	7.8			
FM (30°-60°)	11802.4	34.6			
FH (60°-80°)	13988.9	41.0			G5
FVH (80°-90°)	1081.0	3.2			G5
BL (0°-30°)	1287.4	3.8	B3/2500		
BM (30°-60°)	2252.3	6.6	B2/2500		
BH (60°-80°)	986.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	62.0	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°	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7
2.5°	6236.6	6267.5	6252.0	6230.8	6217.3	6203.9	6184.6	6128.7	6084.4	6036.2	5961.0
5°	6282.9	6302.1	6288.7	6261.7	6230.8	6217.3	6180.7	6107.5	6036.2	5955.2	5843.5
7.5°	6255.9	6263.6	6248.2	6215.4	6188.4	6163.4	6121.0	6040.0	5953.3	5855.0	5708.5
10°	6159.5	6188.4	6188.4	6161.5	6134.5	6121.0	6078.6	6001.5	5922.5	5810.7	5637.2
12.5°	6080.5	6111.3	6136.4	6128.7	6126.8	6126.8	6094.0	6036.2	5943.7	5837.7	5631.5
15°	6026.5	6063.2	6117.1	6148.0	6167.2	6173.0	6159.5	6109.4	6015.0	5891.6	5654.6
17.5°	6015.0	6059.3	6157.6	6225.1	6275.2	6273.2	6269.4	6200.0	6095.9	5968.7	5683.5
20°	6067.0	6124.8	6261.7	6367.7	6440.9	6427.4	6406.2	6315.6	6194.2	6051.6	5710.5
22.5°	6223.1	6282.9	6433.2	6548.8	6620.1	6620.1	6556.5	6437.1	6307.9	6148.0	5747.1
25°	6446.7	6512.2	6672.2	6789.7	6822.5	6797.5	6733.9	6589.3	6440.9	6286.7	5824.2
27.5°	6720.4	6799.4	6947.8	7046.1	7036.4	7017.2	6951.6	6766.6	6618.2	6477.5	5955.2
30°	7061.5	7119.3	7273.5	7296.6	7261.9	7258.1	7165.6	6980.5	6841.8	6733.9	6142.2
32.5°	7383.3	7435.4	7558.7	7568.4	7506.7	7514.4	7427.7	7258.1	7179.0	7140.5	6456.3
35°	7724.5	7751.4	7857.4	7845.9	7805.4	7799.6	7764.9	7603.0	7628.1	7697.5	6901.5
37.5°	8009.7	8063.7	8123.4	8133.0	8131.1	8150.4	8173.5	8096.4	8241.0	8458.8	7485.5
40°	8271.8	8318.1	8406.7	8437.6	8512.7	8551.3	8630.3	8632.2	8965.6	9324.1	8204.4
42.5°	8449.1	8528.1	8693.9	8749.8	8932.9	9048.5	9166.1	9291.3	9775.1	10235.7	9052.3
45°	8603.3	8707.4	8983.0	9156.4	9405.0	9545.7	9794.3	10056.5	10752.2	11355.4	9913.8
47.5°	8836.5	8929.0	9245.1	9551.5	9927.3	10089.2	10461.2	10852.4	11762.1	12423.1	10738.7
50°	9160.3	9216.2	9538.0	10037.2	10517.1	10725.2	11216.7	11781.4	12841.3	13477.3	11463.4
52.5°	9574.6	9597.8	9854.1	10519.0	11151.1	11409.4	12060.8	12719.9	13785.7	14392.8	12037.7
55°	10064.2	10025.6	10226.1	11029.7	11875.8	12213.1	12912.7	13670.1	14847.6	15132.9	12455.9
57.5°	10547.9	10488.2	10648.1	11650.3	12770.0	13176.7	13991.9	14649.1	15795.8	15824.7	12748.8
60°	11060.6	11016.2	11207.0	12378.8	13866.6	14348.5	15102.0	15664.8	16713.2	16306.6	12795.1
62.5°	11586.7	11515.4	11787.1	13197.9	15102.0	15539.5	16269.9	16744.0	17613.2	16485.8	12349.9
65°	12097.4	12064.7	12484.8	14171.2	16508.9	17006.2	17715.4	18037.2	18334.0	16216.0	11245.6
67.5°	12640.9	12706.4	13377.1	15470.1	18343.7	18968.1	19733.2	19430.7	18540.3	14938.2	9470.6
70°	13469.6	13512.0	14548.9	17171.9	20708.4	21462.0	21832.0	19926.0	17545.8	12511.8	7119.3
72.5°	13826.2	14013.1	15595.4	18958.5	23395.0	23855.6	22537.4	18821.6	14616.4	8499.2	3740.8
73°	13747.2	13970.7	15643.6	19230.2	23605.1	24088.8	22387.1	18253.1	13587.2	7319.7	3207.0
75°	12762.3	13037.9	15017.2	19002.8	23196.5	22907.4	19970.3	15556.9	9181.5	3328.4	1460.9
77.5°	10069.9	10149.0	11898.9	15344.9	18266.6	17730.8	14945.9	9723.0	3750.5	1237.3	828.7
80°	5051.4	5342.4	6706.9	8790.2	12215.0	12039.6	9433.9	4598.4	1563.0	726.6	549.3
82.5°	2430.3	2636.5	3266.7	4286.2	6749.3	6589.3	4671.7	2513.1	992.5	424.0	323.8
85°	1564.9	1719.1	2079.5	2044.8	2775.3	2650.0	2098.8	1902.2	587.8	221.6	225.5
87.5°	1033.0	1131.3	1356.8	1085.0	1009.9	913.5	927.0	1071.6	115.6	84.8	30.8
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°	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7
2.5°	5930.2	5905.1	5822.3	5741.3	5664.2	5591.0	5542.8	5479.2	5436.8	5448.4	5465.7
5°	5781.8	5725.9	5579.4	5436.8	5301.9	5141.9	5012.8	4908.7	4829.7	4800.8	4795.0
7.5°	5625.7	5531.2	5321.2	5076.4	4847.1	4648.6	4419.2	4305.5	4172.5	4126.3	4110.8
10°	5531.2	5404.0	5109.2	4768.0	4423.1	4093.5	3844.9	3642.5	3459.4	3424.7	3407.4
12.5°	5504.3	5336.6	4939.6	4500.2	4041.5	3636.7	3268.6	3002.7	2825.4	2784.9	2725.1
15°	5488.8	5280.7	4781.5	4230.3	3648.3	3154.9	2767.5	2457.3	2295.4	2187.4	2189.4
17.5°	5475.4	5217.1	4604.2	3935.5	3309.1	2740.6	2312.7	2033.3	1884.9	1827.0	1821.3
20°	5456.1	5141.9	4399.9	3625.2	2921.7	2362.8	1975.4	1767.3	1667.1	1618.9	1617.0
22.5°	5448.4	5068.7	4199.5	3309.1	2578.7	2071.8	1751.9	1605.4	1541.8	1509.0	1509.0
25°	5467.6	5016.7	3989.4	3008.5	2274.2	1823.2	1597.7	1497.5	1460.9	1443.5	1437.7
27.5°	5527.4	4993.5	3781.3	2707.8	1994.7	1653.6	1493.6	1424.2	1397.3	1383.8	1385.7
30°	5641.1	4991.6	3577.0	2411.0	1786.6	1524.5	1410.8	1362.6	1341.4	1333.7	1331.7
32.5°	5824.2	5034.0	3376.6	2166.2	1611.2	1416.5	1333.7	1299.0	1289.3	1283.6	1281.6
35°	6134.5	5153.5	3178.1	1942.7	1476.3	1320.2	1260.4	1243.1	1229.6	1235.4	1237.3
37.5°	6552.7	5359.7	2989.2	1767.3	1374.1	1248.9	1198.8	1183.3	1175.6	1181.4	1187.2
40°	7113.5	5656.5	2831.1	1626.6	1300.9	1189.1	1144.8	1131.3	1123.6	1133.2	1135.2
42.5°	7732.2	5999.6	2700.1	1516.8	1241.2	1139.0	1096.6	1081.2	1075.4	1081.2	1083.1
45°	8368.2	6398.5	2632.6	1437.7	1191.0	1102.4	1058.1	1040.7	1027.2	1023.4	1029.2
47.5°	8994.5	6745.4	2630.7	1389.6	1150.6	1069.6	1021.4	1002.2	984.8	975.2	973.3
50°	9505.3	7021.0	2677.0	1368.4	1115.9	1033.0	984.8	965.6	942.4	923.2	927.0
52.5°	9890.7	7200.2	2698.2	1358.7	1096.6	994.5	946.3	928.9	902.0	876.9	876.9
55°	10139.3	7242.6	2646.1	1349.1	1081.2	954.0	902.0	886.5	859.6	834.5	834.5
57.5°	10224.1	7111.6	2459.2	1326.0	1065.8	919.3	857.6	844.1	822.9	797.9	794.0
60°	10027.5	6668.3	2131.6	1256.6	1034.9	882.7	809.4	803.7	796.0	774.8	772.8
62.5°	9270.1	5727.8	1775.0	1166.0	982.9	844.1	765.1	774.8	780.5	769.0	767.1
65°	8009.7	4650.5	1516.8	1040.7	913.5	790.2	716.9	742.0	757.4	757.4	753.6
67.5°	6496.8	3571.2	1277.8	932.8	826.8	716.9	663.0	682.3	693.8	690.0	699.6
70°	4617.7	2418.7	1040.7	809.4	716.9	634.1	593.6	593.6	585.9	582.0	582.0
72.5°	2239.5	1381.8	844.1	676.5	610.9	541.6	508.8	495.3	479.9	478.0	468.3
73°	1871.4	1239.2	805.6	651.4	585.9	528.1	491.5	470.3	460.6	452.9	451.0
75°	1139.0	940.5	672.6	549.3	499.2	454.8	422.1	402.8	393.2	387.4	385.5
77.5°	749.7	701.5	522.3	420.1	381.6	354.6	341.1	321.9	316.1	308.4	308.4
80°	558.9	535.8	373.9	296.8	273.7	250.5	246.7	242.8	227.4	217.8	213.9
82.5°	360.4	381.6	254.4	198.5	173.5	154.2	156.1	161.9	146.5	133.0	129.1
85°	256.3	275.6	154.2	90.6	73.2	63.6	71.3	63.6	65.5	52.0	42.4
87.5°	42.4	73.2	27.0	11.6	5.8	3.9	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)