

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: P459162

Luminaire Tested: **GALN-SA6C-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459162  
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-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 38014 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

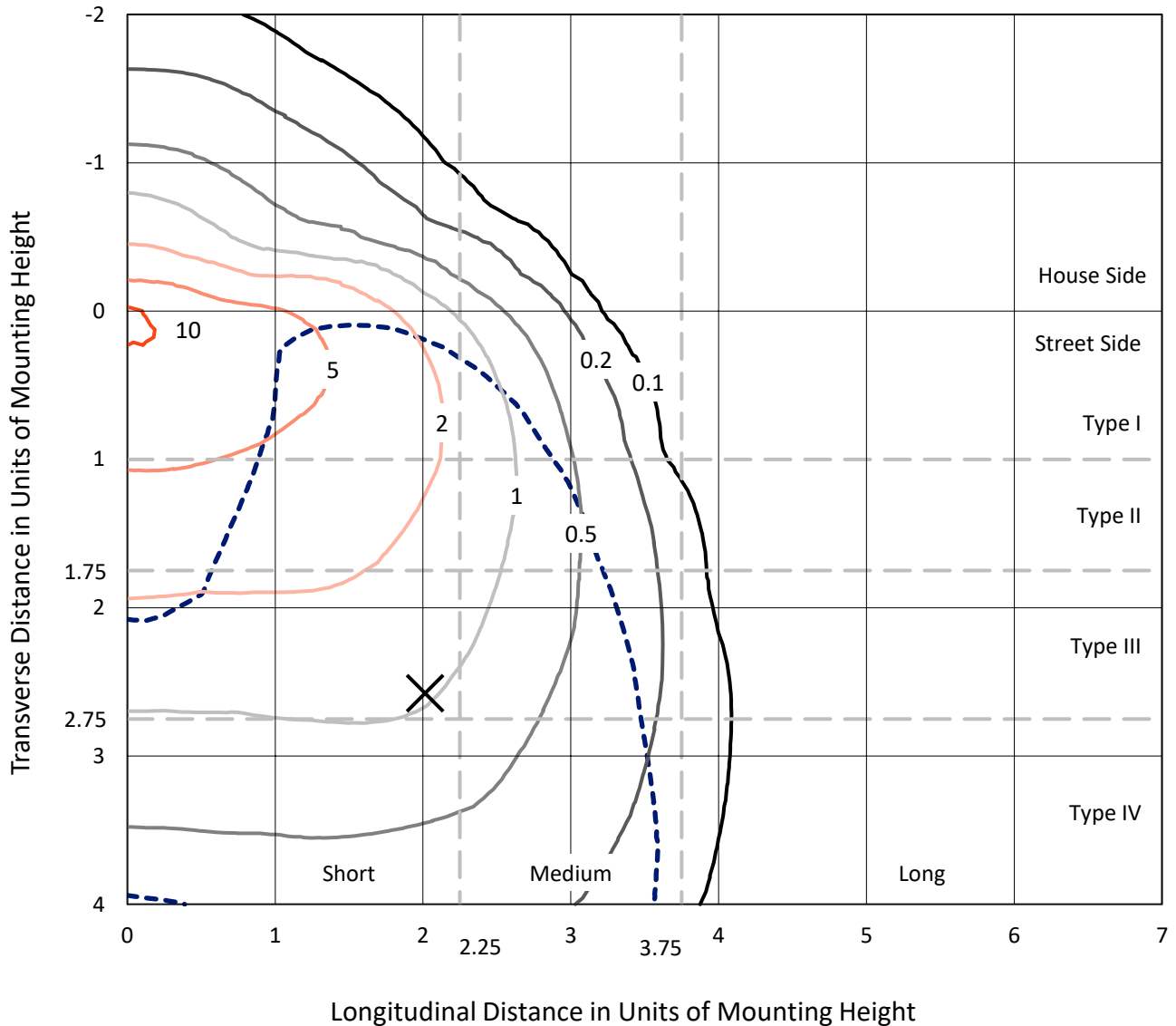
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

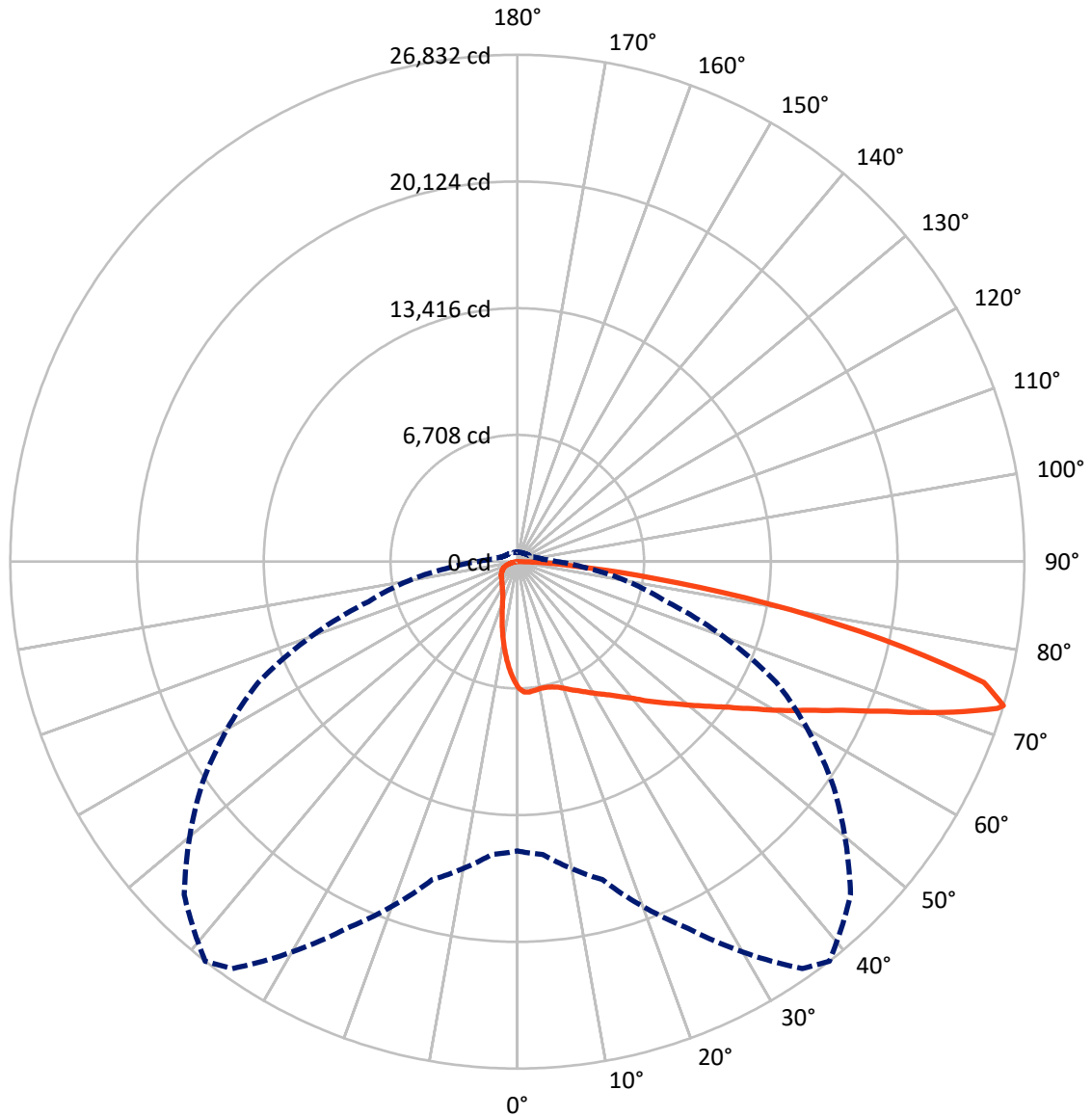
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	5110.2	0.0	5110.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	32903.8	0.0	32903.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	38014.0	0.0	38014.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.9	1.5
10°-20°	1494.9	3.9
20°-30°	2327.8	6.1
30°-40°	3414.4	9.0
40°-50°	5064.8	13.3
50°-60°	7175.9	18.9
60°-70°	9102.8	23.9
70°-80°	7577.4	19.9
80°-90°	1273.1	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°	38014.0	100.0
0°-180°	38014.0	100.0

**Coefficient of Utilization**



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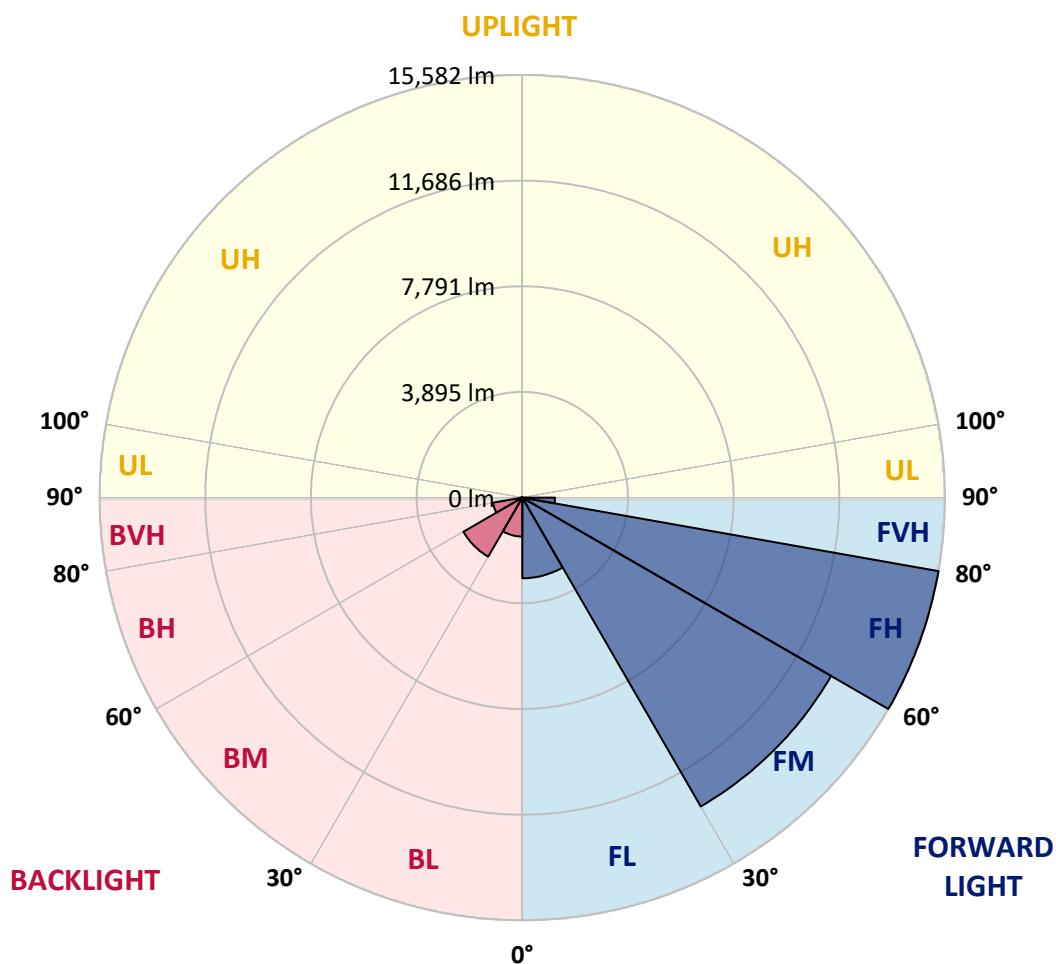
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.7	7.8			
FM (30°-60°)	13146.3	34.6			
FH (60°-80°)	15581.8	41.0			G5
FVH (80°-90°)	1204.1	3.2			G5
BL (0°-30°)	1434.0	3.8	B3/2500		
BM (30°-60°)	2508.8	6.6	B3/5000		
BH (60°-80°)	1098.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	69.0	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°	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4
2.5°	6946.8	6981.1	6963.9	6940.3	6925.3	6910.3	6888.8	6826.5	6777.2	6723.5	6639.8
5°	6998.3	7019.7	7004.7	6974.7	6940.3	6925.3	6884.5	6802.9	6723.5	6633.3	6508.8
7.5°	6968.2	6976.8	6959.6	6923.1	6893.1	6865.2	6818.0	6727.8	6631.2	6521.7	6358.6
10°	6860.9	6893.1	6893.1	6863.0	6833.0	6818.0	6770.7	6684.9	6596.8	6472.3	6279.1
12.5°	6772.9	6807.2	6835.1	6826.5	6824.4	6824.4	6787.9	6723.5	6620.5	6502.4	6272.7
15°	6712.8	6753.6	6813.7	6848.0	6869.5	6875.9	6860.9	6805.1	6699.9	6562.5	6298.4
17.5°	6699.9	6749.3	6858.7	6933.9	6989.7	6987.5	6983.2	6906.0	6790.0	6648.4	6330.6
20°	6757.8	6822.2	6974.7	7092.7	7174.3	7159.3	7135.7	7034.8	6899.5	6740.7	6360.7
22.5°	6931.7	6998.3	7165.7	7294.5	7373.9	7373.9	7303.1	7170.0	7026.2	6848.0	6401.5
25°	7180.7	7253.7	7431.9	7562.9	7599.4	7571.4	7500.6	7339.6	7174.3	7002.6	6487.4
27.5°	7485.6	7573.6	7738.9	7848.4	7837.6	7816.2	7743.2	7537.1	7371.8	7215.1	6633.3
30°	7865.5	7929.9	8101.7	8127.4	8088.8	8084.5	7981.5	7775.4	7620.8	7500.6	6841.6
32.5°	8224.0	8282.0	8419.4	8430.1	8361.4	8370.0	8273.4	8084.5	7996.5	7953.6	7191.5
35°	8604.0	8634.1	8752.1	8739.3	8694.2	8687.7	8649.1	8468.8	8496.7	8574.0	7687.4
37.5°	8921.7	8981.8	9048.4	9059.1	9057.0	9078.4	9104.2	9018.3	9179.3	9421.9	8337.8
40°	9213.7	9265.2	9364.0	9398.3	9482.0	9525.0	9613.0	9615.1	9986.5	10385.8	9138.5
42.5°	9411.2	9499.2	9683.8	9746.1	9950.0	10078.8	10209.8	10349.3	10888.1	11401.2	10083.1
45°	9582.9	9698.8	10005.8	10199.0	10475.9	10632.7	10909.6	11201.5	11976.5	12648.4	11042.7
47.5°	9842.7	9945.7	10297.8	10639.1	11057.7	11238.0	11652.3	12088.1	13101.4	13837.7	11961.5
50°	10203.3	10265.6	10624.1	11180.1	11714.6	11946.4	12493.9	13122.8	14303.5	15011.9	12768.6
52.5°	10664.9	10690.6	10976.1	11716.7	12420.9	12708.5	13434.1	14168.3	15355.4	16031.6	13408.4
55°	11210.1	11167.2	11390.4	12285.6	13228.0	13603.7	14383.0	15226.6	16538.3	16856.0	13874.2
57.5°	11748.9	11682.4	11860.6	12976.9	14224.1	14677.1	15585.1	16317.1	17594.4	17626.6	14200.5
60°	12320.0	12270.6	12483.1	13788.3	15445.6	15982.3	16821.6	17448.5	18616.3	18163.3	14252.0
62.5°	12906.0	12826.6	13129.3	14700.7	16821.6	17308.9	18122.5	18650.6	19618.8	18363.0	13756.1
65°	13474.9	13438.4	13906.4	15784.8	18388.7	18942.6	19732.6	20091.1	20421.7	18062.4	12526.1
67.5°	14080.3	14153.3	14900.3	17231.6	20432.4	21127.9	21980.2	21643.1	20651.4	16639.2	10548.9
70°	15003.4	15050.6	16205.5	19127.2	23066.4	23905.8	24317.9	22194.8	19543.6	13936.4	7929.9
72.5°	15400.5	15608.7	17371.2	21117.2	26058.9	26572.0	25103.6	20964.8	16280.7	9467.0	4166.8
73°	15312.5	15561.5	17424.8	21419.9	26292.9	26831.7	24936.2	20331.5	15134.3	8153.2	3572.1
75°	14215.5	14522.5	16727.2	21166.6	25837.8	25515.8	22244.2	17328.2	10226.9	3707.4	1627.2
77.5°	11216.6	11304.6	13253.8	17092.1	20346.5	19749.7	16647.7	10830.2	4177.5	1378.2	923.1
80°	5626.5	5950.7	7470.6	9791.1	13605.8	13410.5	10508.1	5122.1	1741.0	809.3	611.8
82.5°	2707.0	2936.7	3638.7	4774.3	7517.8	7339.6	5203.6	2799.3	1105.6	472.3	360.6
85°	1743.1	1914.9	2316.3	2277.7	3091.3	2951.7	2337.8	2118.8	654.7	246.9	251.2
87.5°	1150.6	1260.1	1511.3	1208.6	1124.9	1017.5	1032.6	1193.6	128.8	94.5	34.3
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°	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4	6678.4
2.5°	6605.4	6577.5	6485.2	6395.0	6309.2	6227.6	6173.9	6103.1	6055.9	6068.7	6088.1
5°	6440.1	6377.9	6214.7	6055.9	5905.6	5727.4	5583.6	5467.7	5379.7	5347.5	5341.0
7.5°	6266.2	6161.1	5927.1	5654.4	5399.0	5177.9	4922.4	4795.8	4647.6	4596.1	4578.9
10°	6161.1	6019.4	5690.9	5311.0	4926.7	4559.6	4282.7	4057.3	3853.3	3814.7	3795.4
12.5°	6131.0	5944.2	5502.0	5012.6	4501.7	4050.8	3640.8	3344.6	3147.1	3102.0	3035.4
15°	6113.8	5882.0	5326.0	4712.0	4063.7	3514.2	3082.7	2737.1	2556.7	2436.5	2438.7
17.5°	6098.8	5811.1	5128.5	4383.6	3685.9	3052.6	2576.1	2264.8	2099.5	2035.1	2028.6
20°	6077.3	5727.4	4900.9	4038.0	3254.4	2631.9	2200.4	1968.5	1856.9	1803.2	1801.1
22.5°	6068.7	5645.8	4677.7	3685.9	2872.3	2307.7	1951.4	1788.2	1717.4	1680.9	1680.9
25°	6090.2	5587.9	4443.7	3351.0	2533.1	2030.8	1779.6	1668.0	1627.2	1607.9	1601.4
27.5°	6156.8	5562.1	4211.8	3016.1	2221.8	1841.9	1663.7	1586.4	1556.4	1541.3	1543.5
30°	6283.4	5560.0	3984.3	2685.5	1990.0	1698.0	1571.4	1517.7	1494.1	1485.5	1483.4
32.5°	6487.4	5607.2	3761.0	2412.9	1794.6	1577.8	1485.5	1446.9	1436.1	1429.7	1427.6
35°	6833.0	5740.3	3539.9	2163.9	1644.4	1470.5	1403.9	1384.6	1369.6	1376.0	1378.2
37.5°	7298.8	5970.0	3329.5	1968.5	1530.6	1391.1	1335.3	1318.1	1309.5	1315.9	1322.4
40°	7923.5	6300.6	3153.5	1811.8	1449.0	1324.5	1275.1	1260.1	1251.5	1262.3	1264.4
42.5°	8612.6	6682.7	3007.5	1689.5	1382.5	1268.7	1221.5	1204.3	1197.9	1204.3	1206.5
45°	9321.0	7127.1	2932.4	1601.4	1326.7	1227.9	1178.5	1159.2	1144.2	1139.9	1146.3
47.5°	10018.7	7513.5	2930.3	1547.8	1281.6	1191.4	1137.8	1116.3	1097.0	1086.2	1084.1
50°	10587.6	7820.5	2981.8	1524.2	1242.9	1150.6	1097.0	1075.5	1049.7	1028.3	1032.6
52.5°	11016.9	8020.1	3005.4	1513.4	1221.5	1107.7	1054.0	1034.7	1004.7	976.8	976.8
55°	11293.8	8067.3	2947.4	1502.7	1204.3	1062.6	1004.7	987.5	957.4	929.5	929.5
57.5°	11388.3	7921.4	2739.2	1476.9	1187.1	1024.0	955.3	940.3	916.6	888.7	884.4
60°	11169.3	7427.6	2374.3	1399.7	1152.8	983.2	901.6	895.2	886.6	863.0	860.8
62.5°	10325.7	6380.0	1977.1	1298.8	1094.8	940.3	852.2	863.0	869.4	856.5	854.4
65°	8921.7	5180.0	1689.5	1159.2	1017.5	880.2	798.6	826.5	843.7	843.7	839.4
67.5°	7236.6	3977.9	1423.3	1039.0	920.9	798.6	738.5	759.9	772.8	768.5	779.3
70°	5143.5	2694.1	1159.2	901.6	798.6	706.3	661.2	661.2	652.6	648.3	648.3
72.5°	2494.5	1539.2	940.3	753.5	680.5	603.2	566.7	551.7	534.5	532.4	521.7
73°	2084.5	1380.3	897.3	725.6	652.6	588.2	547.4	523.8	513.1	504.5	502.3
75°	1268.7	1047.6	749.2	611.8	556.0	506.6	470.1	448.7	437.9	431.5	429.3
77.5°	835.1	781.4	581.8	468.0	425.0	395.0	380.0	358.5	352.1	343.5	343.5
80°	622.5	596.8	416.5	330.6	304.8	279.1	274.8	270.5	253.3	242.6	238.3
82.5°	401.4	425.0	283.4	221.1	193.2	171.7	173.9	180.3	163.1	148.1	143.8
85°	285.5	307.0	171.7	100.9	81.6	70.8	79.4	70.8	73.0	58.0	47.2
87.5°	47.2	81.6	30.1	12.9	6.4	4.3	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)