

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: P651042

Luminaire Tested: **GALN-SA7C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42143.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

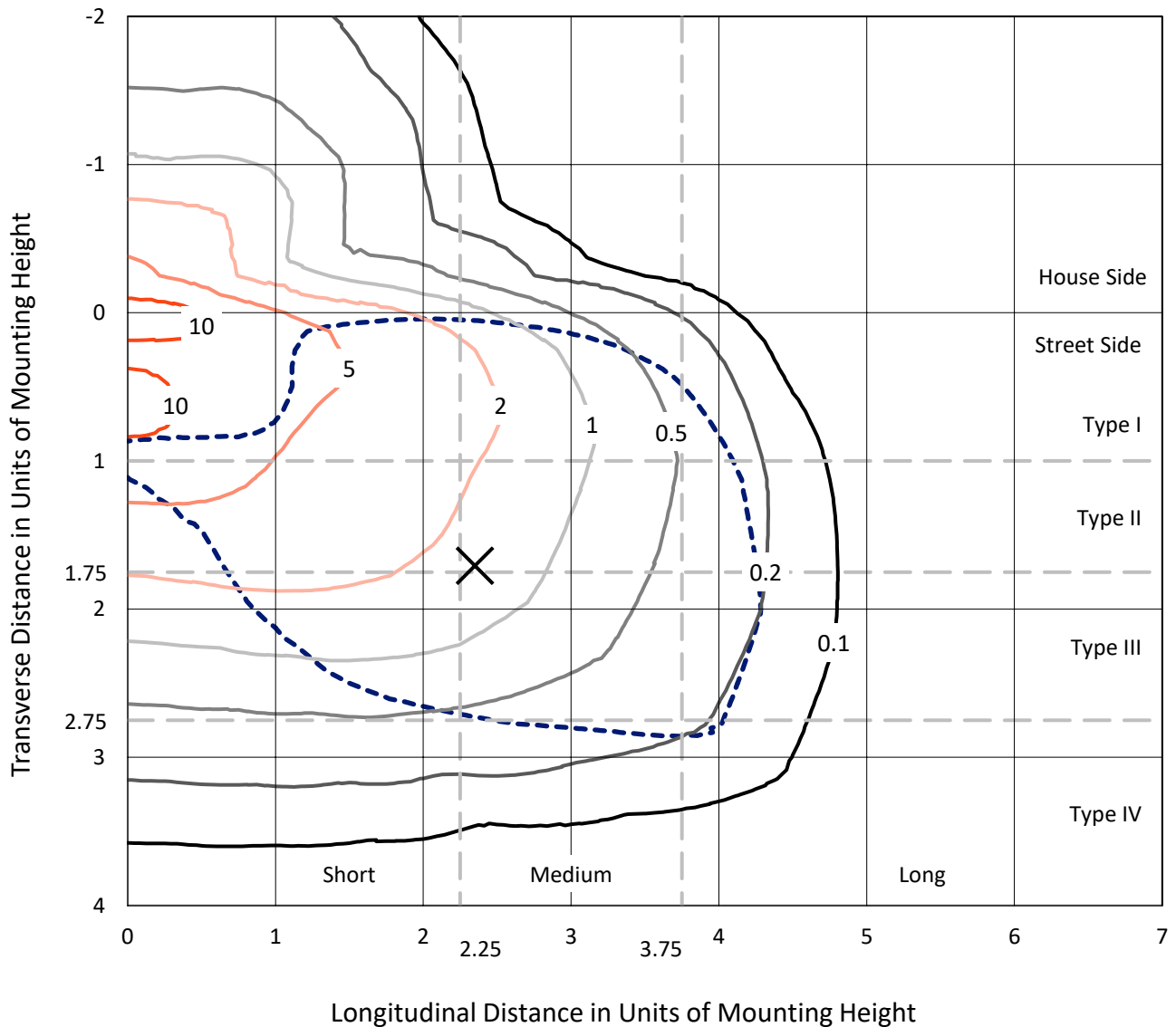
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA7C-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

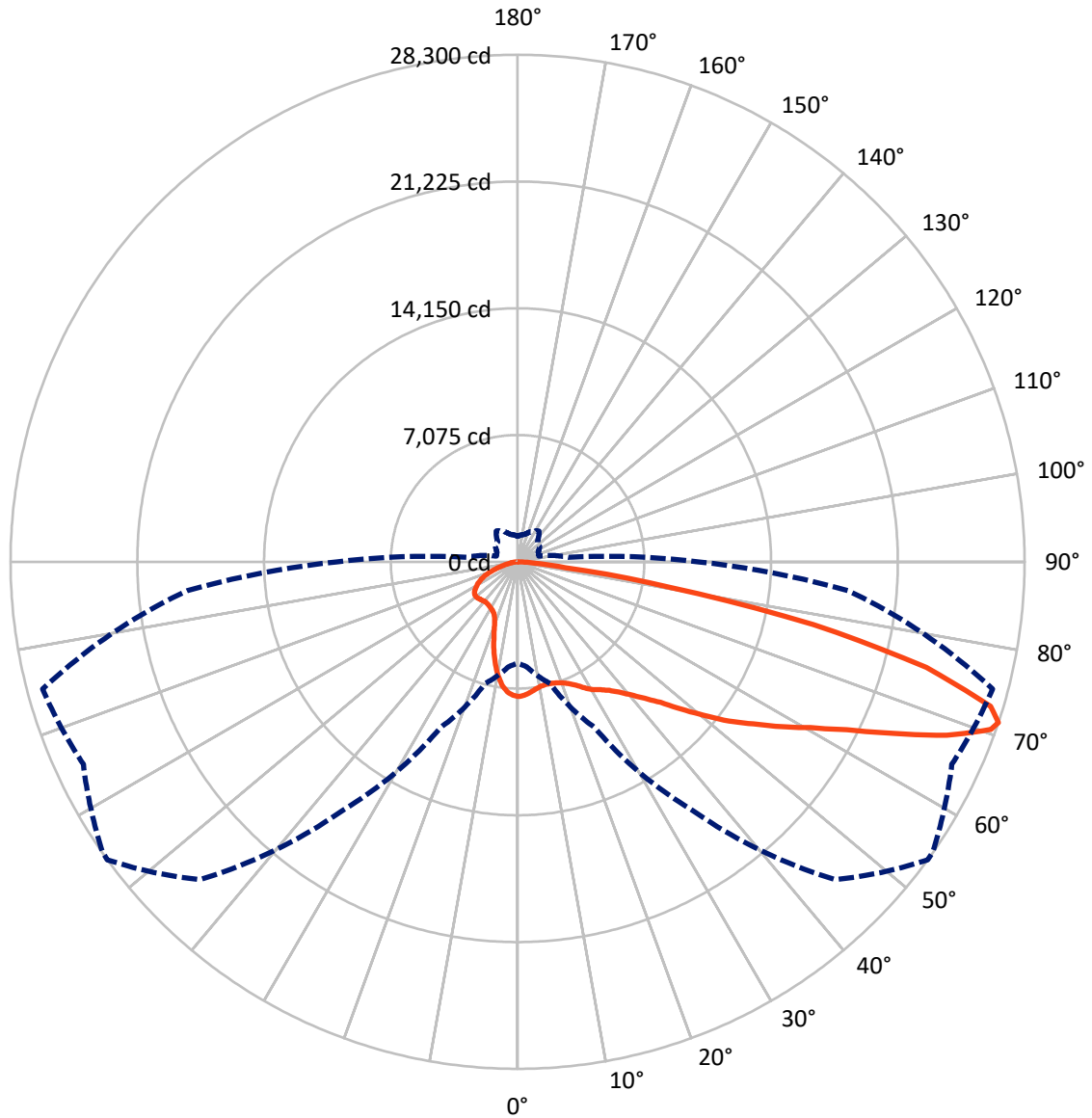
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA7C-840-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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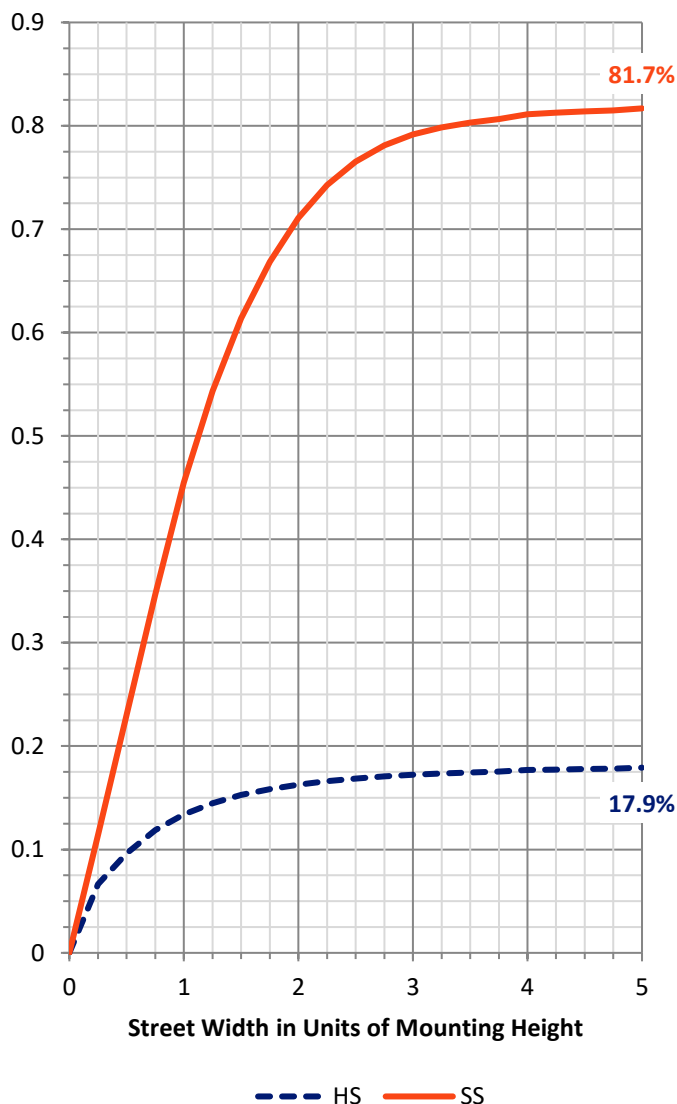
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7608.7	0.0	7608.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34534.6	0.0	34534.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	42143.4	0.0	42143.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	1.6
10°-20°	1769.3	4.2
20°-30°	2945.9	7.0
30°-40°	4356.1	10.3
40°-50°	6135.7	14.6
50°-60°	8216.0	19.5
60°-70°	10355.6	24.6
70°-80°	7072.8	16.8
80°-90°	622.0	1.5
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°	42143.4	100.0
0°-180°	42143.4	100.0

Coefficient of Utilization

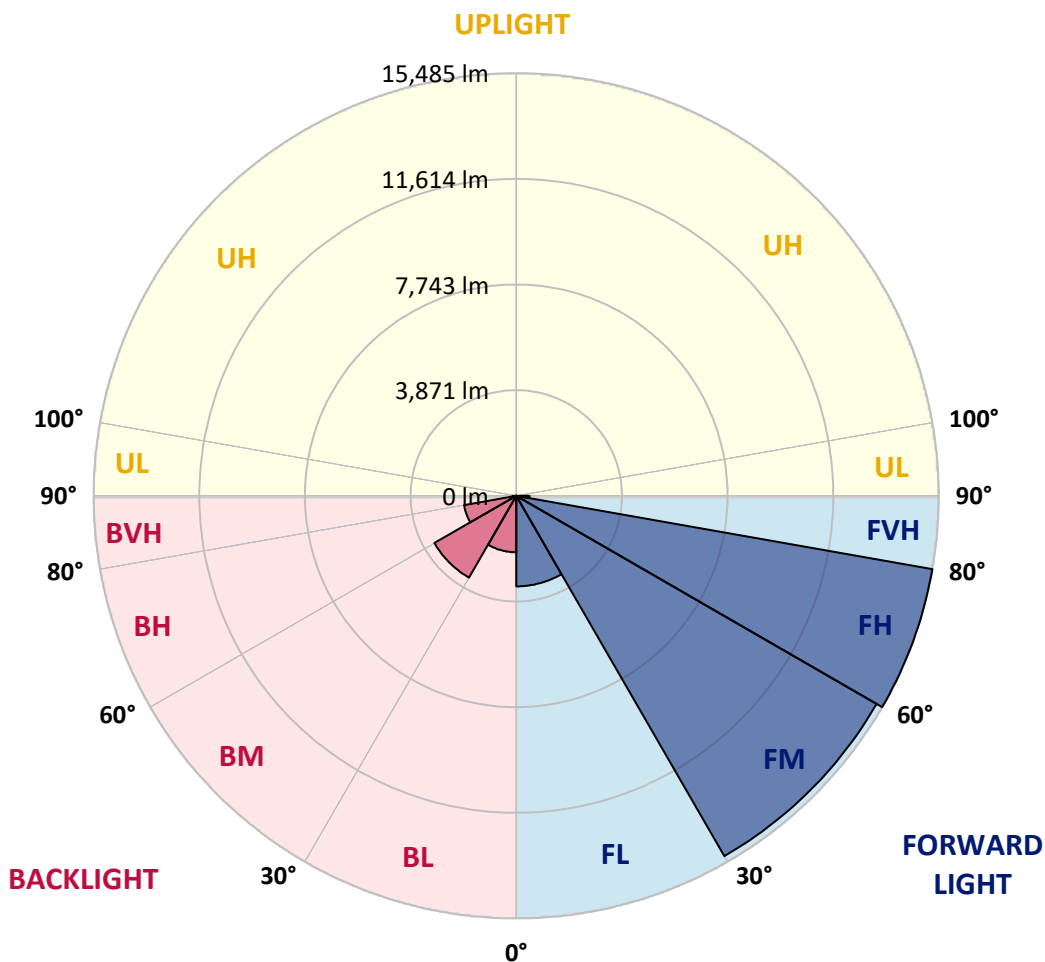


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 CATALOG NUMBER: GALN-SA7C-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3317.4	7.9			
FM (30°-60°)	15245.9	36.2			
FH (60°-80°)	15485.1	36.7			G5
FVH (80°-90°)	486.2	1.2			G3/500
BL (0°-30°)	2067.9	4.9	B3/2500		
BM (30°-60°)	3461.8	8.2	B3/5000		
BH (60°-80°)	1943.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	135.8	0.3			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0
2.5°	7264.1	7298.2	7307.3	7330.1	7377.8	7416.5	7455.3	7450.7	7505.3	7528.1	7548.6
5°	6940.8	6949.9	6984.0	7029.6	7113.8	7220.8	7325.5	7327.8	7462.1	7569.1	7621.5
7.5°	6704.0	6733.6	6756.4	6804.2	6893.0	7009.1	7175.2	7189.0	7428.0	7639.6	7751.2
10°	6549.2	6583.4	6608.4	6667.6	6756.4	6886.2	7066.0	7091.1	7402.9	7751.2	7946.9
12.5°	6408.1	6442.2	6465.0	6542.4	6658.5	6817.9	7020.5	7050.0	7412.0	7880.9	8161.0
15°	6494.6	6522.0	6512.8	6535.6	6613.0	6795.1	7038.7	7068.3	7446.1	8006.2	8372.7
17.5°	6879.3	6902.1	6827.0	6740.4	6704.0	6838.3	7095.6	7127.5	7514.4	8135.9	8588.9
20°	7446.1	7507.6	7343.7	7150.2	6974.9	6993.2	7213.9	7248.1	7610.0	8265.7	8809.7
22.5°	8183.7	8229.3	8028.9	7710.2	7387.0	7220.8	7391.5	7412.0	7753.4	8434.1	9051.0
25°	9051.0	9078.3	8800.6	8390.8	7924.2	7610.0	7635.1	7671.5	7990.3	8625.3	9265.0
27.5°	9893.3	9979.8	9658.8	9158.0	8543.4	8019.8	7969.7	7992.5	8247.4	8732.4	9413.0
30°	10892.6	10885.8	10546.6	9966.1	9178.5	8466.0	8286.1	8281.6	8386.3	8784.7	9520.0
32.5°	11689.4	11782.7	11450.4	10817.5	9904.7	8928.1	8504.7	8495.6	8493.3	8875.7	9679.3
35°	12595.4	12609.0	12304.0	11666.6	10690.0	9508.6	8809.7	8764.2	8711.8	9071.5	9895.5
37.5°	13405.8	13469.5	13189.6	12474.7	11461.7	10111.8	9228.5	9199.0	9039.7	9410.7	10241.6
40°	14038.6	14086.4	13918.0	13237.3	12222.1	10762.9	9761.2	9706.7	9513.1	9966.1	10703.7
42.5°	14245.8	14343.7	14409.7	14075.1	13096.2	11534.6	10416.9	10348.6	10200.6	10808.4	11236.3
45°	14261.8	14416.5	14764.8	14780.7	13974.9	12458.8	11181.8	11133.9	11122.6	11887.5	11985.3
47.5°	14141.1	14298.2	14883.2	15199.6	14758.0	13392.2	12285.8	12210.6	12217.5	13221.4	12825.3
50°	13849.7	14036.4	14746.6	15468.3	15370.4	14361.9	13451.4	13426.3	13567.4	14744.3	13697.2
52.5°	13301.1	13526.5	14605.5	15636.7	15825.6	15197.4	14776.2	14705.6	15063.1	16397.0	14651.0
55°	11782.7	12121.9	14088.8	15730.1	16258.1	15996.3	15969.1	16096.5	16570.1	18199.9	15700.5
57.5°	10990.5	11245.5	12966.5	15746.0	16804.5	16925.1	17362.2	17394.1	18222.7	20114.4	16886.4
60°	10558.0	10783.4	12351.9	15641.3	17567.1	18074.8	18787.3	18901.1	19836.7	22188.2	18115.7
62.5°	10180.1	10373.7	11983.1	15279.3	18427.6	19779.7	20633.4	20688.1	21669.2	24478.3	19329.0
65°	9290.0	9510.9	11241.0	14917.3	19169.7	21910.5	23082.8	23019.1	23620.1	26454.2	20089.4
67.5°	8090.3	8370.4	9854.6	13667.6	19536.2	24239.3	25841.8	25762.2	25546.0	27749.5	20307.9
70°	6558.4	6708.6	8081.3	11507.2	18072.4	25461.7	28020.4	27936.2	26738.8	27920.2	19274.4
71°	5643.2	5877.7	7036.4	10221.1	16854.6	25088.4	28300.4	28277.6	26741.0	27449.0	18495.9
72.5°	4404.8	4548.3	5572.6	7919.6	14325.5	22966.8	27608.3	27694.9	26160.6	26140.0	16891.0
75°	2786.3	2850.1	3496.5	4662.1	7860.5	16265.0	23567.8	23802.2	23228.5	21396.0	12561.3
77.5°	1618.5	1700.5	2094.3	2747.6	3396.4	8828.0	16863.6	17118.6	16139.8	11780.5	5142.5
80°	942.4	1033.5	1379.5	1595.8	1559.4	3275.8	8586.6	9021.4	6988.6	2975.3	1443.2
82.5°	523.6	585.0	969.8	972.0	830.9	1069.9	2702.1	2827.3	1994.2	1199.7	589.6
85°	380.1	430.3	626.0	566.8	398.4	459.9	940.2	985.7	805.8	505.4	191.2
87.5°	134.3	191.2	343.7	273.2	109.2	95.6	270.9	220.8	204.9	141.1	43.2
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°	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0	7519.0
2.5°	7560.0	7564.5	7541.8	7500.8	7459.8	7407.4	7348.2	7302.7	7282.2	7279.9	7277.7
5°	7641.9	7653.3	7566.8	7439.3	7298.2	7125.2	6977.2	6808.7	6765.5	6697.2	6717.7
7.5°	7774.0	7767.1	7596.4	7325.5	6995.4	6628.9	6319.4	6139.5	5952.9	5900.5	5902.7
10°	7962.9	7919.6	7596.4	7093.3	6542.4	5998.3	5565.8	5292.7	5144.7	5021.8	4976.3
12.5°	8163.3	8053.9	7523.6	6767.8	5959.7	5292.7	4828.3	4459.5	4363.9	4263.7	4266.0
15°	8354.4	8172.3	7380.1	6310.2	5331.4	4539.1	4088.4	3867.6	3838.1	3849.4	3847.2
17.5°	8527.5	8256.5	7161.6	5800.3	4598.3	3892.7	3653.6	3669.6	3749.3	3806.2	3813.0
20°	8702.8	8306.6	6836.1	5117.4	3906.4	3501.2	3510.2	3635.5	3756.1	3833.4	3844.9
22.5°	8868.9	8329.4	6453.7	4457.2	3405.5	3335.0	3469.3	3603.6	3721.9	3797.0	3808.5
25°	8978.2	8277.0	5911.8	3767.4	3159.6	3275.8	3416.9	3530.7	3630.8	3708.3	3726.5
27.5°	9007.8	8108.6	5240.3	3209.8	3045.8	3218.8	3348.6	3432.8	3510.2	3583.1	3596.7
30°	8991.8	7860.5	4502.7	2881.9	2979.8	3152.8	3253.0	3314.5	3407.8	3464.7	3476.1
32.5°	8966.8	7571.4	3733.3	2706.7	2925.2	3091.3	3150.6	3205.2	3202.9	3180.2	3196.1
35°	8975.9	7225.4	3109.6	2602.0	2877.4	3045.8	3095.9	3027.6	2831.9	2822.7	2813.6
37.5°	9023.7	6883.8	2656.6	2529.1	2852.3	3039.0	3066.4	2752.2	2579.2	2499.5	2479.0
40°	9146.6	6485.5	2358.3	2474.5	2850.1	3091.3	2932.1	2613.3	2281.0	2126.1	2114.8
42.5°	9310.5	6094.0	2176.3	2440.3	2877.4	3171.1	2877.4	2417.5	2055.6	1964.6	1950.9
45°	9554.1	5645.5	2076.1	2424.4	2918.4	3200.7	2859.1	2274.1	1964.6	1891.7	1891.7
47.5°	9829.5	5217.6	2021.4	2413.0	2970.7	3180.2	2697.6	2228.6	1921.3	1930.4	1973.7
50°	10102.8	4846.5	1980.5	2387.9	3016.2	3168.8	2631.6	2226.3	1932.7	2048.8	2126.1
52.5°	10419.1	4584.7	1930.4	2347.0	3016.2	3095.9	2611.1	2271.9	1964.6	1998.7	2032.9
55°	10801.6	4502.7	1866.7	2258.2	2961.6	2913.8	2599.7	2337.9	1987.3	1907.6	1921.3
57.5°	11307.0	4634.8	1805.2	2146.7	2836.4	2724.8	2595.1	2356.1	1935.0	1869.0	1855.2
60°	11894.3	4896.6	1787.0	2032.9	2665.7	2563.3	2567.8	2303.8	1862.1	1793.9	1805.2
62.5°	12306.3	5053.7	1775.6	1946.3	2479.0	2385.7	2501.8	2240.0	1830.3	1771.1	1782.4
65°	12306.3	4862.4	1670.9	1814.3	2237.7	2171.7	2422.1	2160.3	1789.2	1720.9	1709.6
67.5°	11839.6	4304.7	1511.5	1616.2	1971.4	1928.2	2310.6	2064.7	1727.8	1675.4	1648.1
70°	10624.0	3264.3	1311.2	1384.0	1634.5	1673.2	2167.2	1935.0	1625.4	1561.7	1520.6
71°	10089.1	2843.3	1227.0	1265.7	1504.7	1561.7	2098.9	1880.3	1579.8	1488.7	1415.9
72.5°	9057.8	2394.7	1099.5	1115.4	1286.1	1388.6	1955.4	1775.6	1493.4	1363.6	1281.6
75°	6881.6	1748.3	885.5	876.4	951.5	1101.8	1654.9	1582.1	1308.9	1133.7	1085.8
77.5°	2973.0	951.5	662.5	669.3	646.5	835.4	1302.1	1359.1	1122.3	922.0	878.7
80°	901.5	548.6	453.0	462.1	432.5	560.0	917.4	1065.4	901.5	717.0	657.9
82.5°	462.1	327.8	309.6	305.0	275.4	316.4	555.5	728.5	644.2	448.4	396.1
85°	200.3	175.3	152.6	147.9	129.8	113.8	198.1	364.2	341.4	250.4	239.0
87.5°	50.0	45.5	29.6	27.3	15.9	2.3	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)