

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: P456204

Luminaire Tested: **GALN-SA7C-722-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456204  
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-SA7C-722-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 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: 35236 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

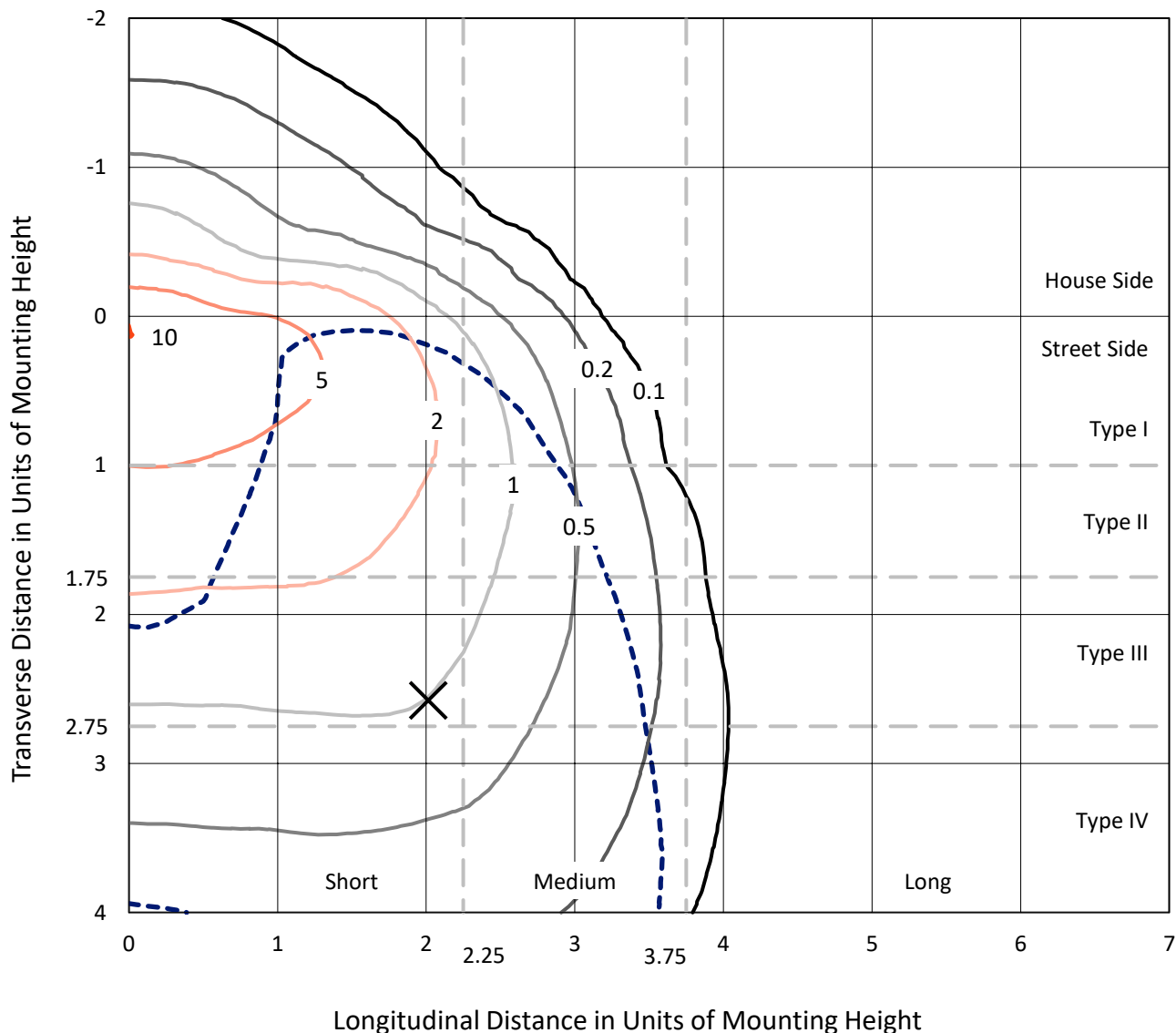
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

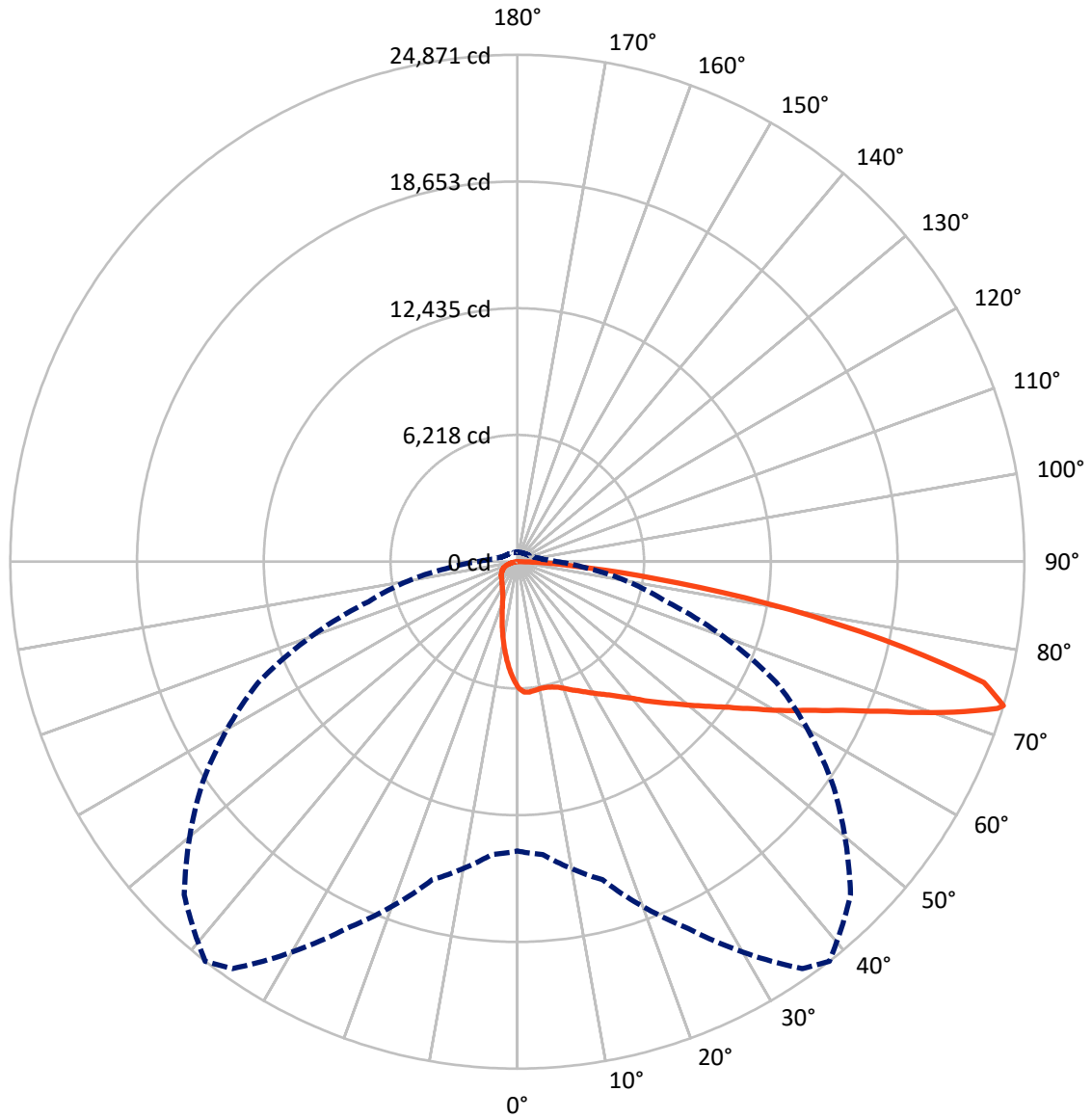
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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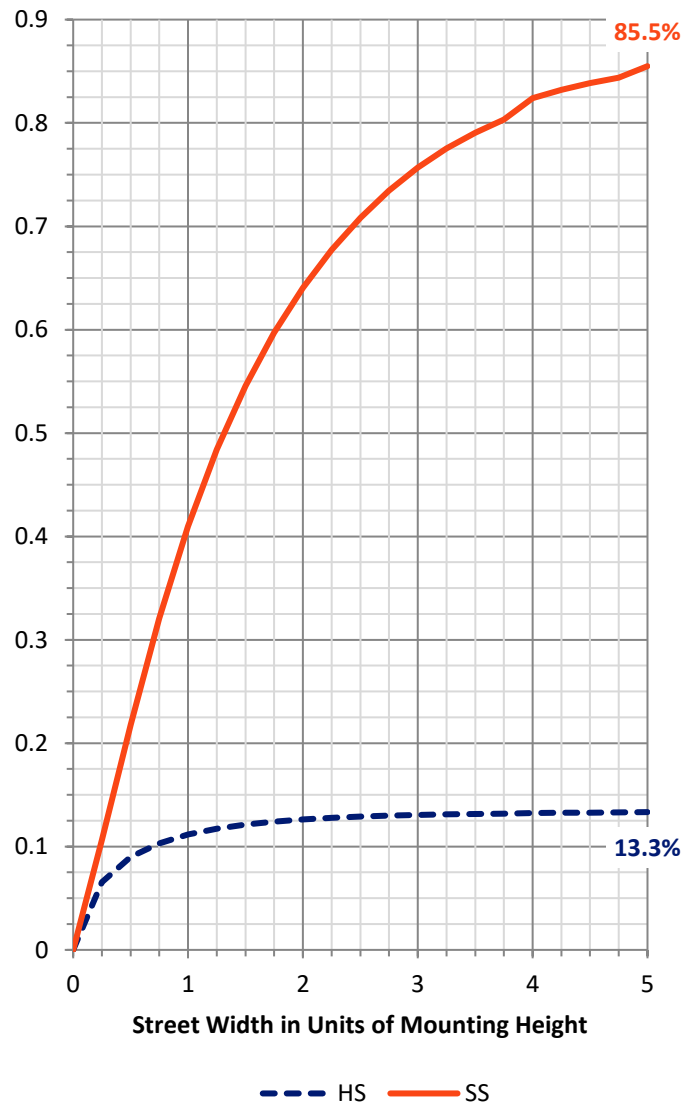
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4736.8	0.0	4736.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	30499.2	0.0	30499.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	35236.0	0.0	35236.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.3	1.5
10°-20°	1385.6	3.9
20°-30°	2157.7	6.1
30°-40°	3164.9	9.0
40°-50°	4694.7	13.3
50°-60°	6651.5	18.9
60°-70°	8437.6	23.9
70°-80°	7023.6	19.9
80°-90°	1180.1	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°	35236.0	100.0
0°-180°	35236.0	100.0



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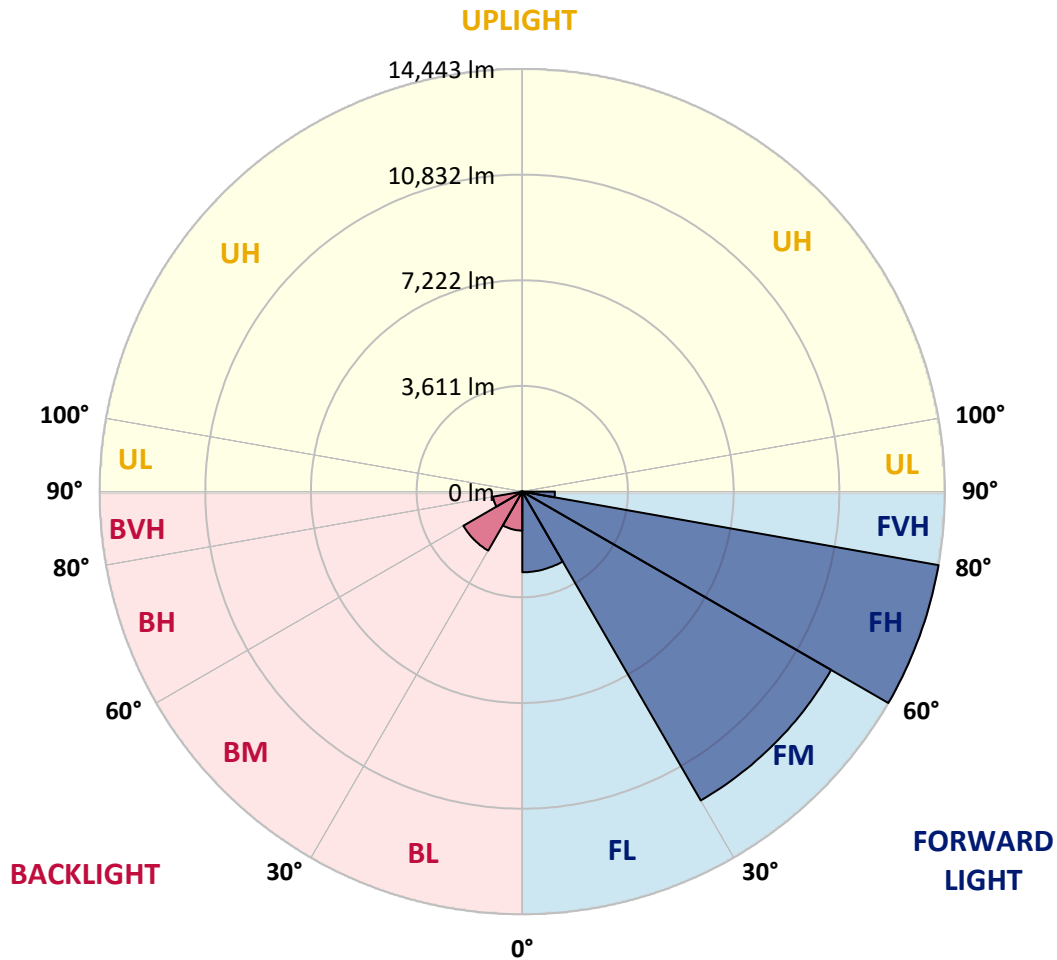
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.5	7.8			
FM (30°-60°)	12185.6	34.6			
FH (60°-80°)	14443.1	41.0			G5
FVH (80°-90°)	1116.1	3.2			G5
BL (0°-30°)	1329.2	3.8	B3/2500		
BM (30°-60°)	2325.5	6.6	B2/2500		
BH (60°-80°)	1018.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.0	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°	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4
2.5°	6439.1	6470.9	6455.0	6433.1	6419.2	6405.3	6385.4	6327.7	6281.9	6232.2	6154.6
5°	6486.9	6506.8	6492.8	6465.0	6433.1	6419.2	6381.4	6305.8	6232.2	6148.6	6033.2
7.5°	6459.0	6467.0	6451.0	6417.2	6389.4	6363.5	6319.7	6236.1	6146.6	6045.1	5893.9
10°	6359.5	6389.4	6389.4	6361.5	6333.6	6319.7	6275.9	6196.3	6114.8	5999.3	5820.3
12.5°	6277.9	6309.8	6335.6	6327.7	6325.7	6325.7	6291.8	6232.2	6136.6	6027.2	5814.3
15°	6222.2	6260.0	6315.7	6347.6	6367.5	6373.4	6359.5	6307.8	6210.3	6082.9	5838.2
17.5°	6210.3	6256.0	6357.5	6427.2	6478.9	6476.9	6472.9	6401.3	6293.8	6162.5	5868.0
20°	6264.0	6323.7	6465.0	6574.4	6650.0	6636.1	6614.2	6520.7	6395.3	6248.1	5895.9
22.5°	6425.2	6486.9	6642.1	6761.4	6835.1	6835.1	6769.4	6646.0	6512.7	6347.6	5933.7
25°	6656.0	6723.6	6888.8	7010.2	7044.0	7018.1	6952.5	6803.2	6650.0	6490.8	6013.3
27.5°	6938.5	7020.1	7173.3	7274.8	7264.9	7245.0	7177.3	6986.3	6833.1	6687.8	6148.6
30°	7290.7	7350.4	7509.6	7533.5	7497.7	7493.7	7398.2	7207.2	7063.9	6952.5	6341.6
32.5°	7623.0	7676.8	7804.1	7814.1	7750.4	7758.4	7668.8	7493.7	7412.1	7372.3	6665.9
35°	7975.2	8003.1	8112.5	8100.6	8058.8	8052.9	8017.0	7849.9	7875.8	7947.4	7125.6
37.5°	8269.7	8325.5	8387.1	8397.1	8395.1	8415.0	8438.9	8359.3	8508.5	8733.4	7728.5
40°	8540.4	8588.1	8679.6	8711.5	8789.1	8828.9	8910.5	8912.5	9256.7	9626.8	8470.7
42.5°	8723.4	8805.0	8976.1	9033.8	9222.9	9342.3	9463.6	9593.0	10092.4	10568.0	9346.2
45°	8882.6	8990.1	9274.6	9453.7	9710.4	9855.6	10112.3	10382.9	11101.3	11724.1	10235.7
47.5°	9123.4	9218.9	9545.2	9861.6	10249.6	10416.8	10800.8	11204.7	12143.9	12826.5	11087.3
50°	9457.7	9515.4	9847.7	10363.0	10858.5	11073.4	11580.8	12163.8	13258.3	13914.9	11835.5
52.5°	9885.5	9909.4	10174.0	10860.5	11513.2	11779.8	12452.4	13132.9	14233.3	14860.1	12428.5
55°	10390.9	10351.1	10558.0	11387.8	12261.3	12609.6	13331.9	14113.9	15329.7	15624.2	12860.3
57.5°	10890.4	10828.7	10993.8	12028.5	13184.6	13604.5	14446.2	15124.7	16308.7	16338.5	13162.7
60°	11419.6	11373.9	11570.9	12780.7	14316.8	14814.3	15592.3	16173.4	17255.8	16836.0	13210.5
62.5°	11962.9	11889.2	12169.8	13626.4	15592.3	16044.0	16798.2	17287.7	18185.1	17021.0	12750.8
65°	12490.2	12456.3	12890.1	14631.2	17044.9	17558.3	18290.5	18622.8	18929.3	16742.4	11610.7
67.5°	13051.3	13119.0	13811.4	15972.4	18939.2	19583.9	20373.9	20061.5	19142.2	15423.2	9778.0
70°	13906.9	13950.7	15021.2	17729.4	21380.7	22158.8	22540.8	20572.9	18115.4	12918.0	7350.4
72.5°	14275.1	14468.1	16101.7	19574.0	24154.6	24630.1	23269.1	19432.7	15090.9	8775.2	3862.3
73°	14193.5	14424.3	16151.5	19854.5	24371.5	24870.9	23113.9	18845.7	14028.3	7557.4	3311.1
75°	13176.7	13461.2	15504.8	19619.7	23949.6	23651.1	20618.6	16061.9	9479.6	3436.4	1508.3
77.5°	10396.9	10478.5	12285.2	15843.0	18859.6	18306.5	15431.1	10038.7	3872.2	1277.5	855.6
80°	5215.4	5515.8	6924.6	9075.6	12611.6	12430.5	9740.2	4747.7	1613.8	750.2	567.1
82.5°	2509.2	2722.1	3372.8	4425.4	6968.4	6803.2	4823.4	2594.7	1024.8	437.8	334.3
85°	1615.7	1774.9	2147.0	2111.2	2865.4	2736.0	2166.9	1964.0	606.9	228.8	232.8
87.5°	1066.6	1168.0	1400.8	1120.3	1042.7	943.2	957.1	1106.3	119.4	87.6	31.8
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°	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4	6190.4
2.5°	6122.7	6096.8	6011.3	5927.7	5848.1	5772.5	5722.8	5657.1	5613.3	5625.3	5643.2
5°	5969.5	5911.8	5760.6	5613.3	5474.0	5308.9	5175.6	5068.1	4986.5	4956.7	4950.7
7.5°	5808.3	5710.8	5493.9	5241.2	5004.4	4799.5	4562.7	4445.3	4308.0	4260.2	4244.3
10°	5710.8	5579.5	5275.0	4922.8	4566.7	4226.4	3969.7	3760.8	3571.7	3535.9	3518.0
12.5°	5683.0	5509.8	5099.9	4646.3	4172.7	3754.8	3374.8	3100.2	2917.1	2875.3	2813.6
15°	5667.0	5452.1	4936.8	4367.7	3766.8	3257.4	2857.4	2537.0	2369.9	2258.5	2260.4
17.5°	5653.1	5386.5	4753.7	4063.2	3416.5	2829.5	2387.8	2099.3	1946.1	1886.4	1880.4
20°	5633.2	5308.9	4542.8	3742.9	3016.6	2439.5	2039.6	1824.7	1721.2	1671.5	1669.5
22.5°	5625.3	5233.3	4335.8	3416.5	2662.4	2139.1	1808.8	1657.5	1591.9	1558.0	1558.0
25°	5645.2	5179.5	4119.0	3106.1	2348.0	1882.4	1649.6	1546.1	1508.3	1490.4	1484.4
27.5°	5706.8	5155.7	3904.1	2795.7	2059.5	1707.3	1542.1	1470.5	1442.6	1428.7	1430.7
30°	5824.2	5153.7	3693.1	2489.3	1844.6	1574.0	1456.6	1406.8	1384.9	1377.0	1375.0
32.5°	6013.3	5197.4	3486.2	2236.6	1663.5	1462.5	1377.0	1341.1	1331.2	1325.2	1323.2
35°	6333.6	5320.8	3281.2	2005.8	1524.2	1363.0	1301.4	1283.4	1269.5	1275.5	1277.5
37.5°	6765.4	5533.7	3086.2	1824.7	1418.8	1289.4	1237.7	1221.8	1213.8	1219.8	1225.7
40°	7344.5	5840.2	2923.1	1679.4	1343.1	1227.7	1182.0	1168.0	1160.1	1170.0	1172.0
42.5°	7983.2	6194.3	2787.8	1566.0	1281.5	1176.0	1132.2	1116.3	1110.3	1116.3	1118.3
45°	8639.9	6606.2	2718.1	1484.4	1229.7	1138.2	1092.4	1074.5	1060.6	1056.6	1062.6
47.5°	9286.5	6964.4	2716.1	1434.7	1187.9	1104.4	1054.6	1034.7	1016.8	1006.9	1004.9
50°	9813.9	7249.0	2763.9	1412.8	1152.1	1066.6	1016.8	996.9	973.0	953.1	957.1
52.5°	10211.8	7434.0	2785.8	1402.8	1132.2	1026.8	977.0	959.1	931.2	905.4	905.4
55°	10468.5	7477.8	2732.0	1392.9	1116.3	985.0	931.2	915.3	887.5	861.6	861.6
57.5°	10556.1	7342.5	2539.0	1369.0	1100.4	949.1	885.5	871.5	849.7	823.8	819.8
60°	10353.1	6884.8	2200.8	1297.4	1068.5	911.3	835.7	829.8	821.8	799.9	797.9
62.5°	9571.1	5913.8	1832.6	1203.8	1014.8	871.5	790.0	799.9	805.9	793.9	792.0
65°	8269.7	4801.5	1566.0	1074.5	943.2	815.8	740.2	766.1	782.0	782.0	778.0
67.5°	6707.7	3687.2	1319.3	963.1	853.6	740.2	684.5	704.4	716.3	712.4	722.3
70°	4767.6	2497.2	1074.5	835.7	740.2	654.7	612.9	612.9	604.9	600.9	600.9
72.5°	2312.2	1426.7	871.5	698.4	630.8	559.1	525.3	511.4	495.5	493.5	483.5
73°	1932.1	1279.5	831.7	672.6	604.9	545.2	507.4	485.5	475.6	467.6	465.6
75°	1176.0	971.0	694.5	567.1	515.4	469.6	435.8	415.9	405.9	400.0	398.0
77.5°	774.0	724.3	539.2	433.8	394.0	366.1	352.2	332.3	326.3	318.4	318.4
80°	577.1	553.2	386.0	306.4	282.6	258.7	254.7	250.7	234.8	224.9	220.9
82.5°	372.1	394.0	262.7	205.0	179.1	159.2	161.2	167.1	151.2	137.3	133.3
85°	264.6	284.5	159.2	93.5	75.6	65.7	73.6	65.7	67.7	53.7	43.8
87.5°	43.8	75.6	27.9	11.9	6.0	4.0	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)