

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: P456059

Luminaire Tested: **GALN-SA7B-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456059  
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-SA7B-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA 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: 38794 lumens  
Efficiency: N/A  
Efficacy: 135.6 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

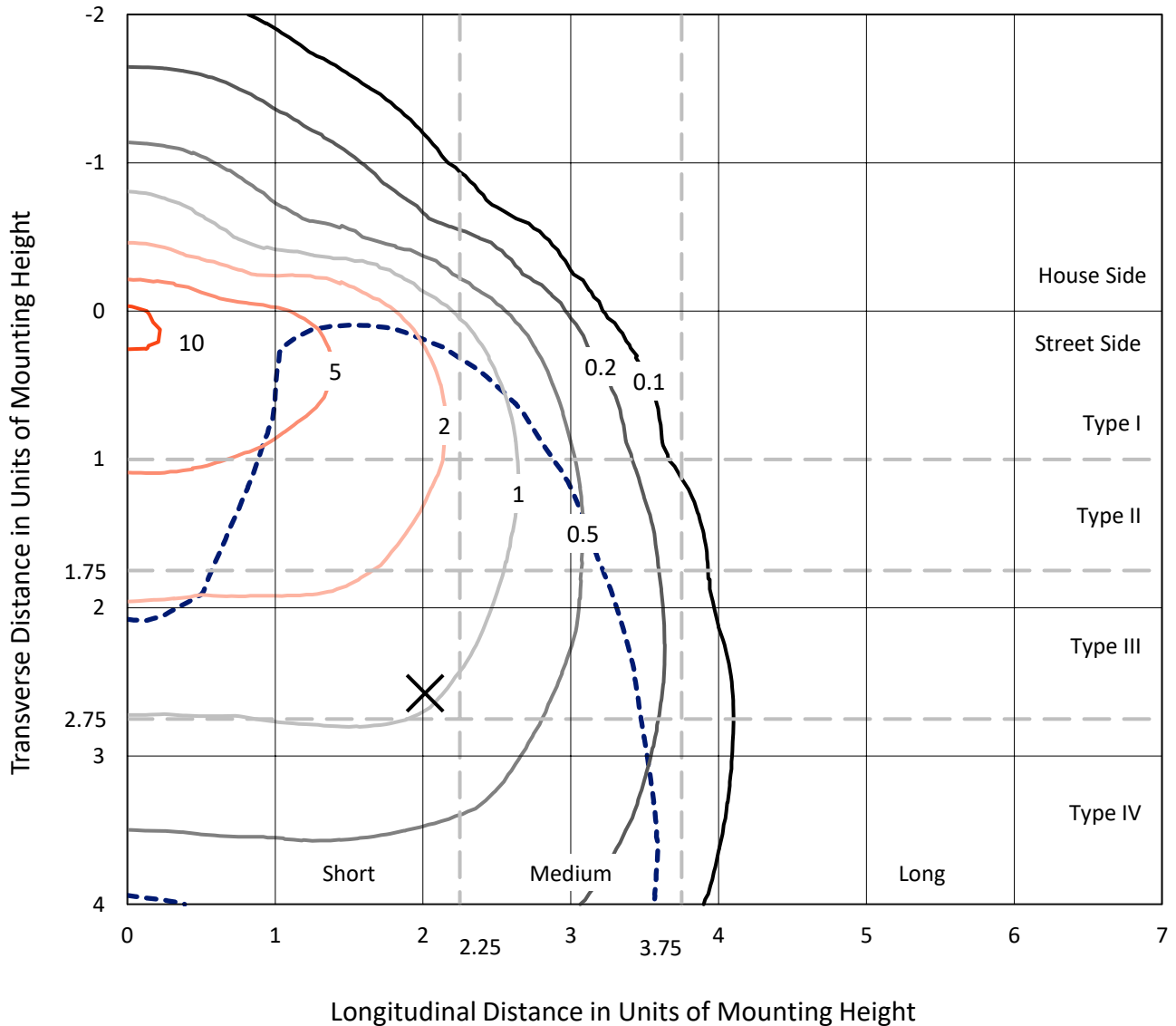
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

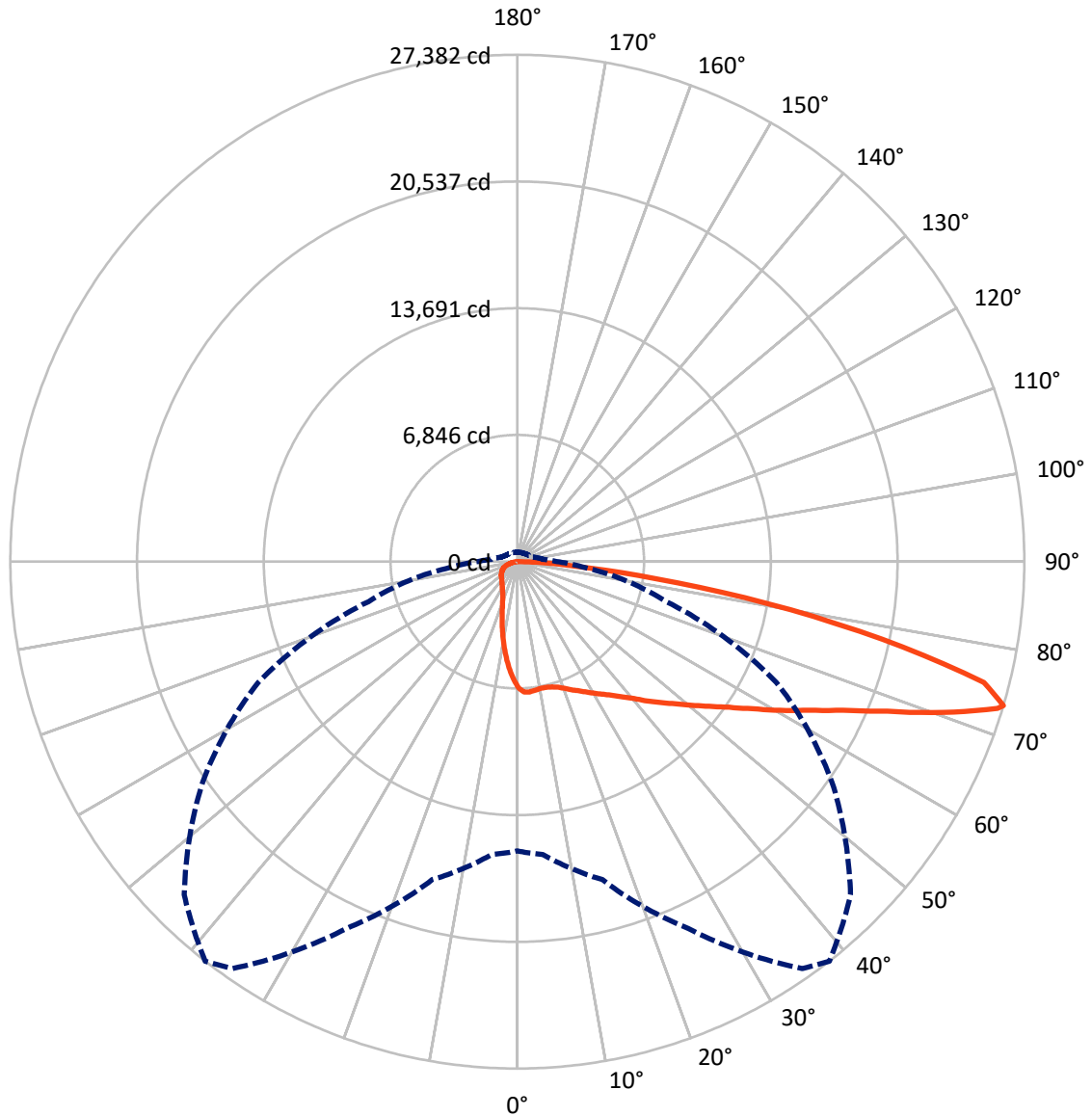
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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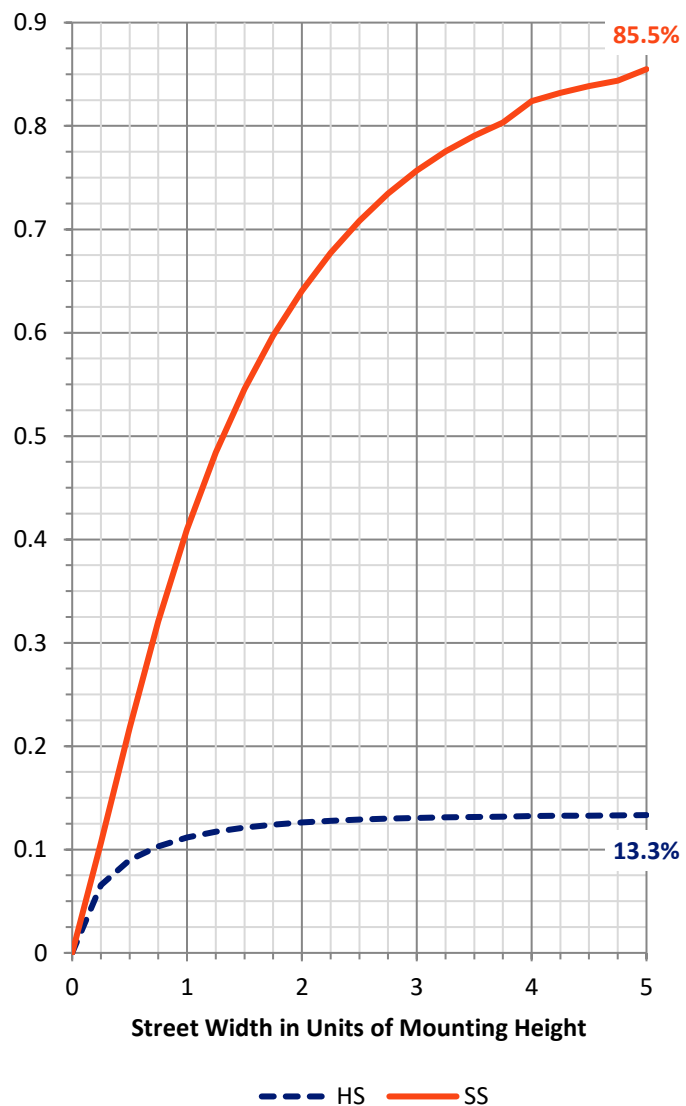
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5215.1	0.0	5215.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	33578.9	0.0	33578.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	38794.0	0.0	38794.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.9	1.5
10°-20°	1525.6	3.9
20°-30°	2375.6	6.1
30°-40°	3484.4	9.0
40°-50°	5168.8	13.3
50°-60°	7323.1	18.9
60°-70°	9289.6	23.9
70°-80°	7732.9	19.9
80°-90°	1299.2	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°	38794.0	100.0
0°-180°	38794.0	100.0

**Coefficient of Utilization**



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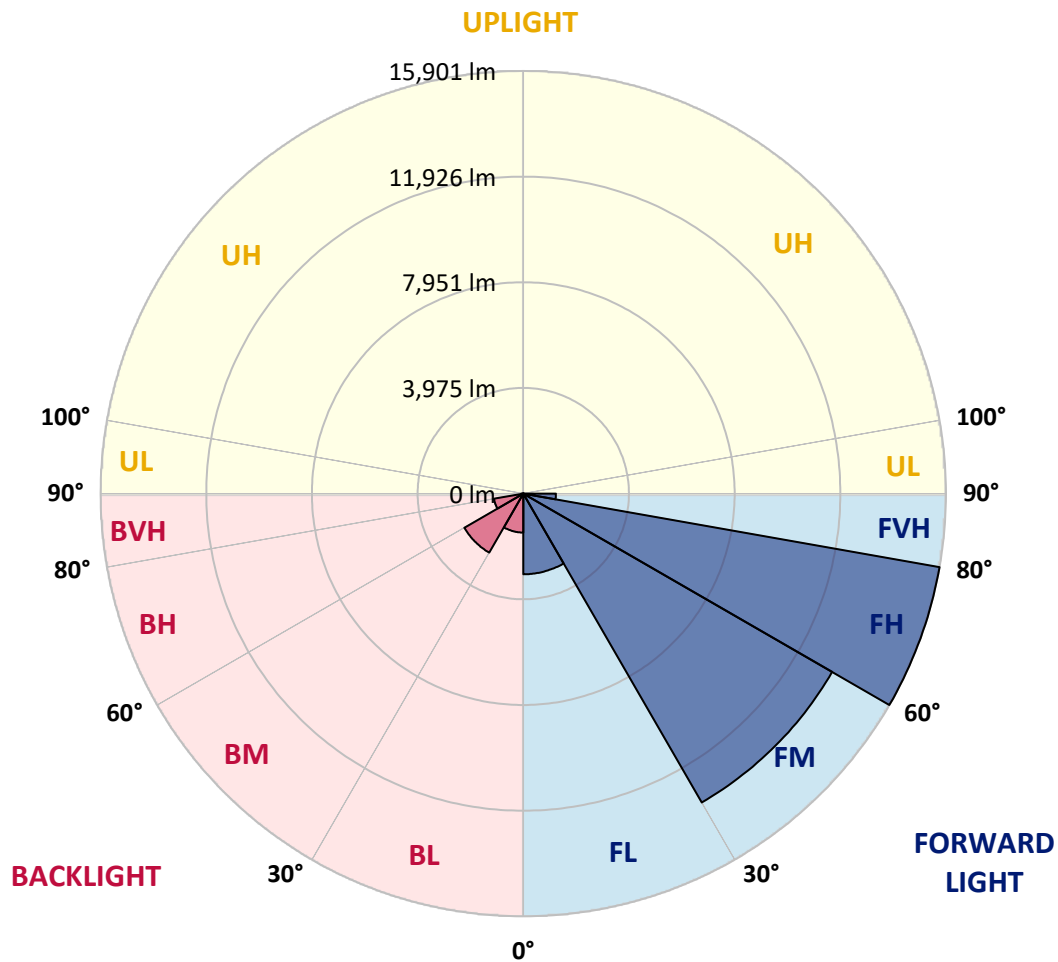
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3032.6	7.8			
FM	(30°-60°)	13416.0	34.6			
FH	(60°-80°)	15901.5	41.0			G5
FVH	(80°-90°)	1228.8	3.2			G5
BL	(0°-30°)	1463.4	3.8	B3/2500		
BM	(30°-60°)	2560.3	6.6	B3/5000		
BH	(60°-80°)	1120.9	2.9	B3/2500		G3/2500
BVH	(80°-90°)	70.5	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°	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4
2.5°	7089.3	7124.3	7106.8	7082.7	7067.4	7052.1	7030.1	6966.6	6916.2	6861.5	6776.0
5°	7141.9	7163.8	7148.4	7117.8	7082.7	7067.4	7025.8	6942.5	6861.5	6769.4	6642.4
7.5°	7111.2	7120.0	7102.4	7065.2	7034.5	7006.0	6957.8	6865.8	6767.3	6655.5	6489.0
10°	7001.7	7034.5	7034.5	7003.9	6973.2	6957.8	6909.7	6822.0	6732.2	6605.1	6408.0
12.5°	6911.8	6946.9	6975.4	6966.6	6964.4	6964.4	6927.2	6861.5	6756.3	6635.8	6401.4
15°	6850.5	6892.1	6953.5	6988.5	7010.4	7017.0	7001.7	6944.7	6837.4	6697.1	6427.7
17.5°	6837.4	6887.7	6999.5	7076.1	7133.1	7130.9	7126.5	7047.7	6929.4	6784.8	6460.5
20°	6896.5	6962.2	7117.8	7238.3	7321.5	7306.2	7282.1	7179.1	7041.1	6879.0	6491.2
22.5°	7074.0	7141.9	7312.8	7444.2	7525.3	7525.3	7453.0	7317.1	7170.4	6988.5	6532.8
25°	7328.1	7402.6	7584.4	7718.0	7755.3	7726.8	7654.5	7490.2	7321.5	7146.3	6620.5
27.5°	7639.2	7729.0	7897.7	8009.4	7998.5	7976.6	7902.1	7691.8	7523.1	7363.1	6769.4
30°	8026.9	8092.7	8267.9	8294.2	8254.8	8250.4	8145.2	7934.9	7777.2	7654.5	6981.9
32.5°	8392.8	8451.9	8592.2	8603.1	8533.0	8541.8	8443.2	8250.4	8160.6	8116.8	7339.0
35°	8780.6	8811.2	8931.7	8918.6	8872.6	8866.0	8826.6	8642.5	8671.0	8749.9	7845.1
37.5°	9104.8	9166.1	9234.0	9245.0	9242.8	9264.7	9291.0	9203.4	9367.7	9615.2	8508.9
40°	9402.7	9455.3	9556.1	9591.1	9676.6	9720.4	9810.2	9812.4	10191.4	10598.9	9326.1
42.5°	9604.3	9694.1	9882.5	9946.0	10154.2	10285.6	10419.2	10561.6	11111.5	11635.1	10290.0
45°	9779.5	9897.8	10211.1	10408.3	10690.9	10850.8	11133.4	11431.4	12222.2	12907.9	11269.3
47.5°	10044.6	10149.8	10509.1	10857.4	11284.6	11468.6	11891.4	12336.2	13370.2	14121.6	12206.9
50°	10412.7	10476.2	10842.1	11409.5	11955.0	12191.6	12750.2	13392.1	14597.0	15320.0	13030.6
52.5°	10883.7	10910.0	11201.3	11957.2	12675.7	12969.3	13709.8	14459.0	15670.5	16360.6	13683.5
55°	11440.1	11396.3	11624.2	12537.7	13499.5	13882.8	14678.1	15539.0	16877.6	17201.8	14158.9
57.5°	11990.0	11922.1	12103.9	13243.1	14516.0	14978.2	15904.9	16652.0	17955.5	17988.3	14491.9
60°	12572.8	12522.4	12739.3	14071.2	15762.5	16310.2	17166.8	17806.5	18998.3	18536.0	14544.4
62.5°	13170.8	13089.8	13398.7	15002.3	17166.8	17664.1	18494.4	19033.3	20021.3	18739.7	14038.4
65°	13751.4	13714.1	14191.7	16108.6	18766.0	19331.2	20137.4	20503.3	20840.7	18433.0	12783.1
67.5°	14369.2	14443.7	15206.1	17585.2	20851.6	21561.4	22431.2	22087.2	21075.1	16980.6	10765.4
70°	15311.2	15359.4	16538.0	19519.7	23539.7	24396.3	24816.9	22650.2	19944.7	14222.4	8092.7
72.5°	15716.5	15929.0	17727.6	21550.5	26593.6	27117.2	25618.7	21394.9	16614.7	9661.2	4252.3
73°	15626.7	15880.8	17782.4	21859.4	26832.4	27382.3	25447.8	20748.7	15444.8	8320.5	3645.4
75°	14507.2	14820.5	17070.4	21600.9	26368.0	26039.4	22700.6	17683.8	10436.8	3783.4	1660.6
77.5°	11446.7	11536.5	13525.7	17442.8	20764.0	20155.0	16989.3	11052.4	4263.2	1406.5	942.0
80°	5742.0	6072.8	7623.8	9992.0	13885.0	13685.7	10723.8	5227.1	1776.7	825.9	624.4
82.5°	2762.5	2997.0	3713.3	4872.2	7672.0	7490.2	5310.4	2856.7	1128.2	482.0	368.0
85°	1778.9	1954.2	2363.8	2324.4	3154.7	3012.3	2385.7	2162.3	668.2	251.9	256.3
87.5°	1174.2	1286.0	1542.3	1233.4	1148.0	1038.4	1053.8	1218.1	131.4	96.4	35.1
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°	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4	6815.4
2.5°	6741.0	6712.5	6618.3	6526.3	6438.6	6355.4	6300.6	6228.3	6180.1	6193.3	6213.0
5°	6572.3	6508.7	6342.2	6180.1	6026.8	5844.9	5698.2	5579.9	5490.0	5457.2	5450.6
7.5°	6394.8	6287.5	6048.7	5770.5	5509.8	5284.1	5023.4	4894.2	4743.0	4690.4	4672.9
10°	6287.5	6142.9	5807.7	5419.9	5027.8	4653.2	4370.6	4140.5	3932.4	3893.0	3873.3
12.5°	6256.8	6066.2	5614.9	5115.4	4594.0	4134.0	3715.5	3413.2	3211.7	3165.6	3097.7
15°	6239.3	6002.7	5435.3	4808.7	4147.1	3586.3	3145.9	2793.2	2609.2	2486.5	2488.7
17.5°	6223.9	5930.4	5233.7	4473.5	3761.5	3115.3	2628.9	2311.2	2142.6	2076.8	2070.3
20°	6202.0	5844.9	5001.5	4120.8	3321.2	2685.9	2245.5	2008.9	1895.0	1840.2	1838.0
22.5°	6193.3	5761.7	4773.7	3761.5	2931.2	2355.1	1991.4	1824.9	1752.6	1715.4	1715.4
25°	6215.2	5702.5	4534.9	3419.8	2585.1	2072.5	1816.1	1702.2	1660.6	1640.9	1634.3
27.5°	6283.1	5676.3	4298.3	3078.0	2267.4	1879.7	1697.8	1619.0	1588.3	1573.0	1575.2
30°	6412.3	5674.1	4066.0	2740.6	2030.8	1732.9	1603.6	1548.9	1524.8	1516.0	1513.8
32.5°	6620.5	5722.3	3838.2	2462.4	1831.5	1610.2	1516.0	1476.6	1465.6	1459.0	1456.9
35°	6973.2	5858.1	3612.6	2208.3	1678.1	1500.7	1432.8	1413.0	1397.7	1404.3	1406.5
37.5°	7448.6	6092.5	3397.9	2008.9	1562.0	1419.6	1362.7	1345.1	1336.4	1342.9	1349.5
40°	8086.1	6429.9	3218.2	1849.0	1478.8	1351.7	1301.3	1286.0	1277.2	1288.2	1290.4
42.5°	8789.3	6819.8	3069.3	1724.1	1410.8	1294.7	1246.5	1229.0	1222.4	1229.0	1231.2
45°	9512.3	7273.3	2992.6	1634.3	1353.9	1253.1	1202.7	1183.0	1167.7	1163.3	1169.9
47.5°	10224.3	7667.7	2990.4	1579.5	1307.9	1215.9	1161.1	1139.2	1119.5	1108.5	1106.3
50°	10804.8	7980.9	3043.0	1555.4	1268.4	1174.2	1119.5	1097.6	1071.3	1049.4	1053.8
52.5°	11243.0	8184.7	3067.1	1544.5	1246.5	1130.4	1075.7	1055.9	1025.3	996.8	996.8
55°	11525.6	8232.9	3007.9	1533.5	1229.0	1084.4	1025.3	1007.7	977.1	948.6	948.6
57.5°	11622.0	8083.9	2795.4	1507.2	1211.5	1045.0	974.9	959.6	935.5	907.0	902.6
60°	11398.5	7580.0	2423.0	1428.4	1176.4	1003.4	920.1	913.5	904.8	880.7	878.5
62.5°	10537.5	6510.9	2017.7	1325.4	1117.3	959.6	869.7	880.7	887.3	874.1	871.9
65°	9104.8	5286.3	1724.1	1183.0	1038.4	898.2	815.0	843.4	861.0	861.0	856.6
67.5°	7385.0	4059.5	1452.5	1060.3	939.8	815.0	753.6	775.5	788.7	784.3	795.2
70°	5249.1	2749.4	1183.0	920.1	815.0	720.8	674.8	674.8	666.0	661.6	661.6
72.5°	2545.7	1570.8	959.6	769.0	694.5	615.6	578.4	563.0	545.5	543.3	532.4
73°	2127.2	1408.7	915.7	740.5	666.0	600.3	558.6	534.5	523.6	514.8	512.6
75°	1294.7	1069.1	764.6	624.4	567.4	517.0	479.8	457.9	446.9	440.3	438.2
77.5°	852.2	797.4	593.7	477.6	433.8	403.1	387.8	365.9	359.3	350.5	350.5
80°	635.3	609.0	425.0	337.4	311.1	284.8	280.4	276.0	258.5	247.6	243.2
82.5°	409.7	433.8	289.2	225.6	197.2	175.3	177.5	184.0	166.5	151.2	146.8
85°	291.4	313.3	175.3	103.0	83.2	72.3	81.1	72.3	74.5	59.2	48.2
87.5°	48.2	83.2	30.7	13.1	6.6	4.4	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)