

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: P458146

Luminaire Tested: **GALN-SA9C-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52426 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

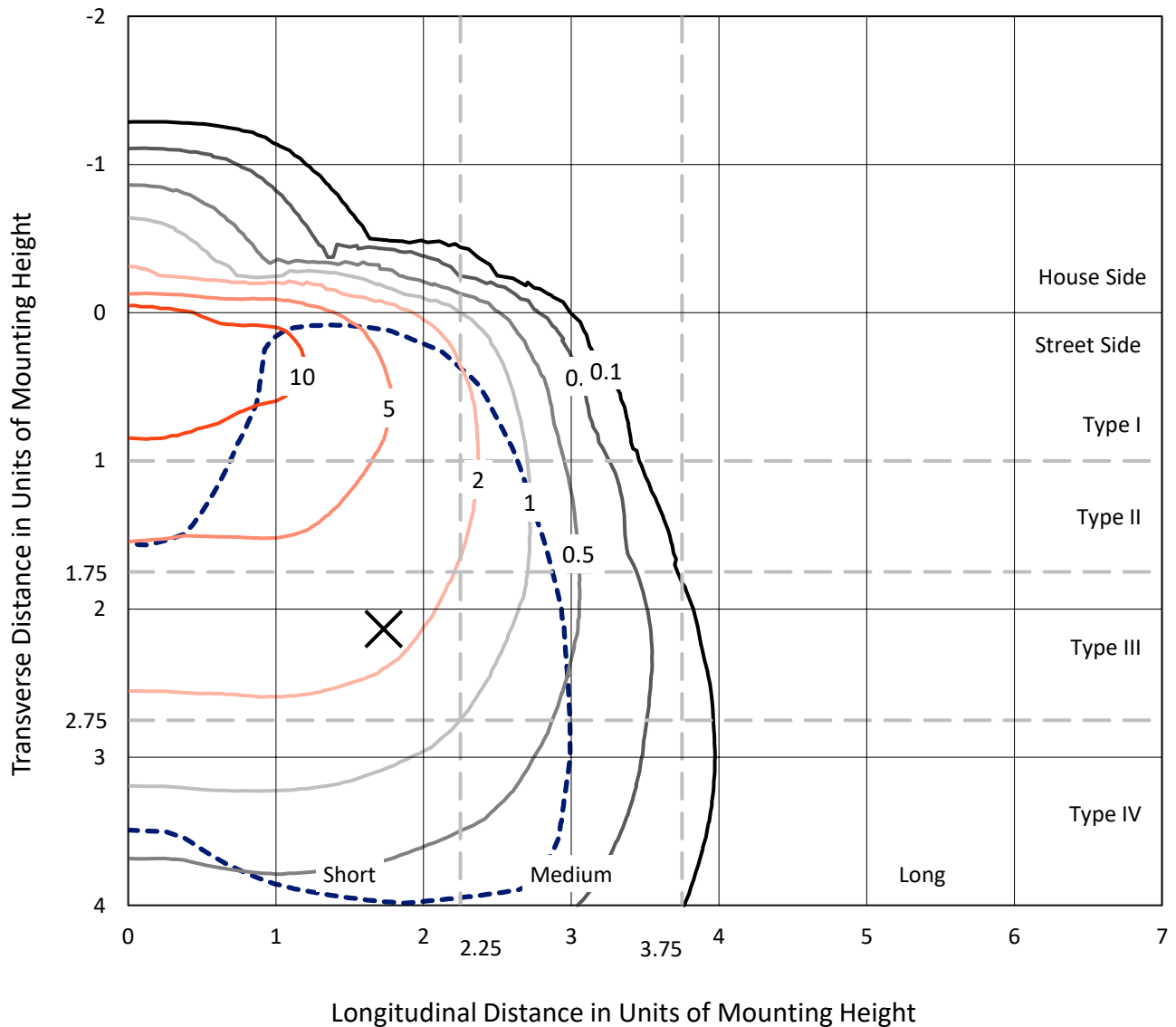
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

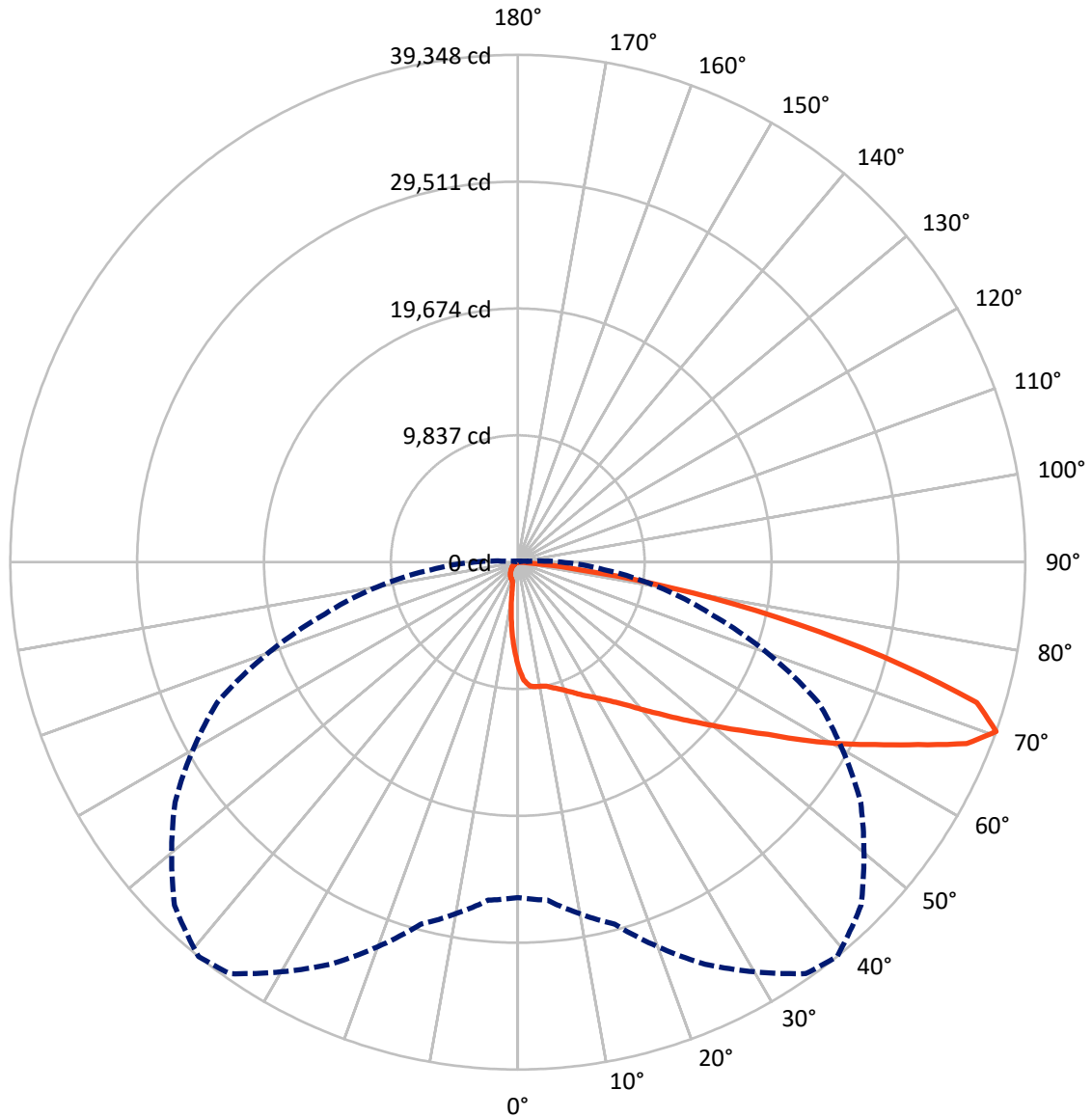
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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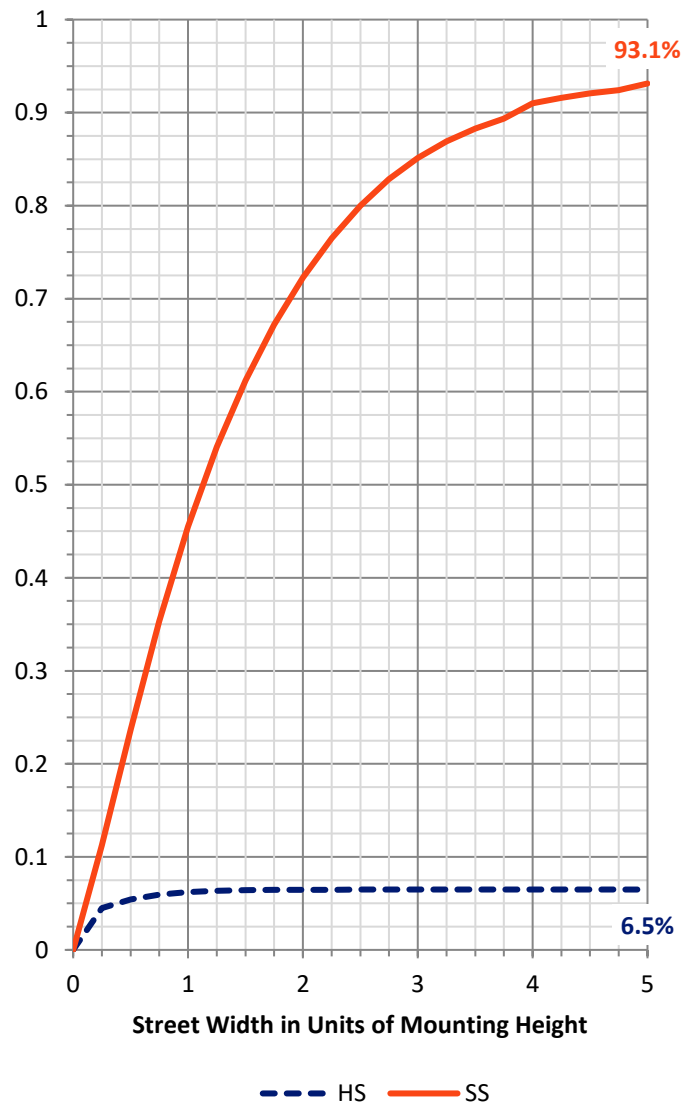
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3418.4	0.0	3418.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	49007.6	0.0	49007.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	52426.0	0.0	52426.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.7	1.3
10°-20°	1813.2	3.5
20°-30°	3037.5	5.8
30°-40°	4710.9	9.0
40°-50°	7465.3	14.2
50°-60°	10943.1	20.9
60°-70°	14026.4	26.8
70°-80°	8813.7	16.8
80°-90°	918.2	1.8
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°	52426.0	100.0
0°-180°	52426.0	100.0



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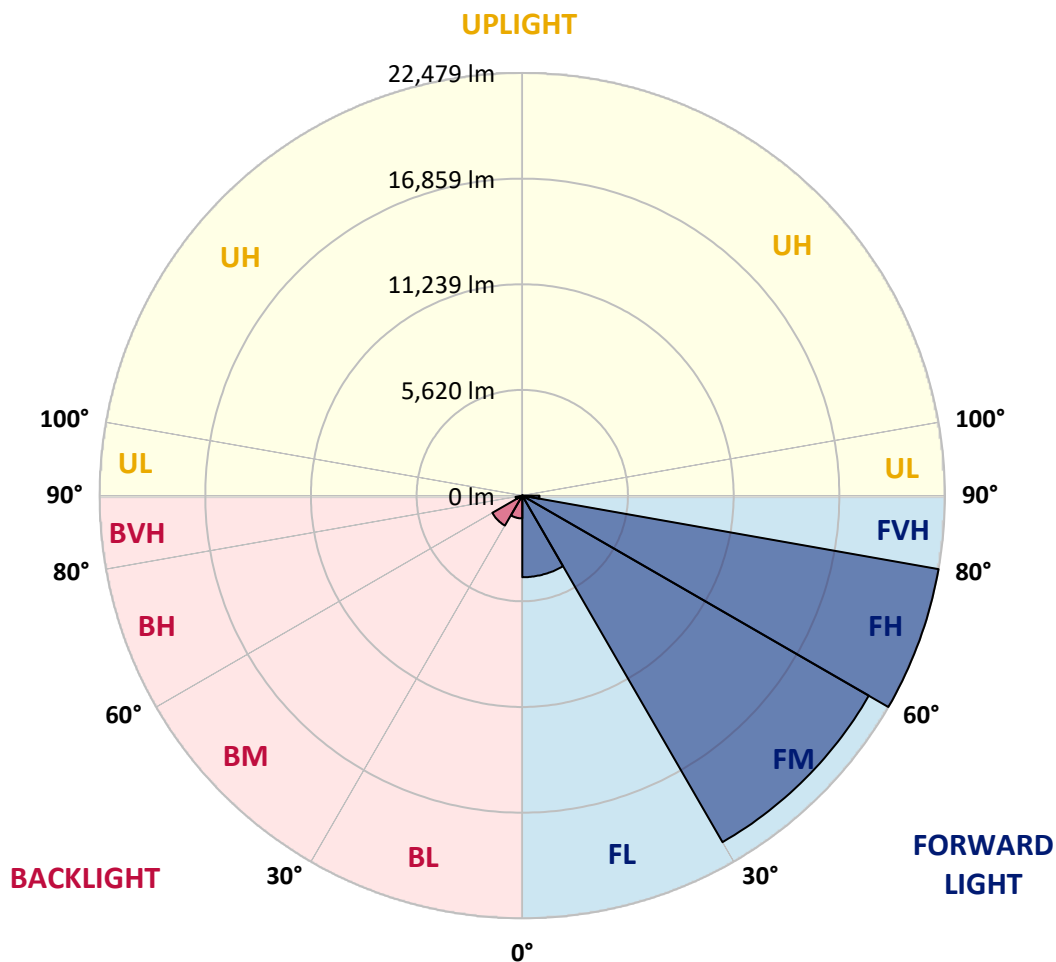
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4338.0	8.3			
FM	(30°-60°)	21279.6	40.6			
FH	(60°-80°)	22478.6	42.9			G5
FVH	(80°-90°)	911.4	1.7			G5
BL	(0°-30°)	1210.4	2.3	B3/2500		
BM	(30°-60°)	1839.7	3.5	B2/2500		
BH	(60°-80°)	361.5	0.7	B1/500		G1/500
BVH	(80°-90°)	6.8	0.0			G0/10
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°	39°	45°	55°	65°	75°	85°
0°	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3
2.5°	9452.0	9420.3	9378.1	9328.7	9187.8	9163.2	9078.6	8898.9	8684.0	8507.9	8264.8
5°	9899.4	9917.1	9885.4	9797.3	9695.1	9635.2	9529.5	9251.2	8972.9	8617.1	8219.0
7.5°	10001.6	10036.8	9998.1	9913.5	9814.9	9751.5	9666.9	9427.4	9103.3	8698.1	8152.1
10°	9991.0	10033.3	10008.7	9931.2	9850.1	9790.2	9698.6	9508.4	9247.7	8821.4	8173.2
12.5°	9973.4	10029.8	10026.3	9987.5	9920.6	9874.8	9818.4	9649.3	9406.2	9001.1	8289.5
15°	9924.1	9994.6	10058.0	10089.7	10093.2	10093.2	10022.7	9843.1	9610.6	9237.1	8441.0
17.5°	9945.2	10026.3	10184.8	10276.4	10339.8	10332.8	10258.8	10065.0	9807.9	9480.2	8599.5
20°	10075.6	10184.8	10406.7	10589.9	10653.4	10632.2	10533.6	10308.1	10015.7	9688.1	8754.5
22.5°	10396.2	10494.8	10773.1	10988.0	11033.8	10977.5	10836.5	10530.1	10265.8	9913.5	8941.2
25°	10875.3	10991.6	11248.7	11410.8	11410.8	11379.1	11181.8	10822.5	10547.7	10227.1	9184.3
27.5°	11456.6	11555.2	11808.9	11953.3	11868.8	11777.2	11579.9	11146.6	10882.3	10621.6	9476.7
30°	12044.9	12108.3	12376.1	12439.5	12351.4	12235.2	12023.8	11590.5	11357.9	11157.1	9899.4
32.5°	12601.5	12738.9	12960.9	12946.8	12827.0	12770.6	12576.9	12115.4	11985.0	11963.9	10491.3
35°	13158.2	13263.8	13461.1	13510.5	13404.8	13394.2	13253.3	12911.6	12915.1	13052.5	11414.3
37.5°	13637.3	13732.4	13964.9	14074.1	14095.3	14148.1	14091.7	13866.3	14186.9	14563.8	12636.8
40°	14038.9	14172.8	14468.7	14658.9	14877.4	15071.1	15081.7	15131.0	15775.7	16423.9	14232.7
42.5°	14352.4	14539.2	14968.9	15321.2	15821.5	16068.1	16265.4	16536.7	17621.7	18590.5	16113.9
45°	14761.1	14976.0	15511.5	16064.6	16846.7	17251.8	17526.6	18252.3	19791.8	21112.9	18044.5
47.5°	15437.5	15550.2	16096.3	16903.0	17931.7	18509.5	19045.0	20144.1	22120.5	23304.2	19650.9
50°	16307.7	16381.6	16793.8	17914.1	19245.8	20006.7	20982.6	22275.5	24537.2	25122.0	20559.8
52.5°	17269.4	17294.1	17604.1	19027.4	20718.4	21676.6	22768.7	24364.6	26506.6	26418.5	21162.3
55°	18386.2	18351.0	18615.2	20235.7	22462.2	23557.9	24829.6	26503.0	28215.2	27338.0	21507.5
57.5°	19665.0	19569.9	19827.1	21838.7	24695.8	26006.3	27299.2	28349.1	29539.8	28109.5	21673.1
60°	21003.7	20813.5	21120.0	23638.9	27327.4	28571.0	29645.5	29927.3	30934.9	28722.5	21387.7
62.5°	22071.2	22074.7	22645.4	25555.4	30033.0	31121.6	31692.3	31946.0	32136.2	28588.6	19887.0
65°	23737.5	23793.9	24706.3	28215.2	33164.9	34109.1	34500.1	33675.7	32189.1	26925.8	17632.3
67.5°	25456.7	25636.4	27306.3	31879.0	36783.0	37543.9	37040.1	34010.4	30751.7	23131.6	13369.5
70°	26016.9	26312.8	29064.2	34401.5	38953.1	39347.7	37642.6	32449.8	25706.9	15465.7	6728.8
72.5°	23839.7	24318.8	28053.1	33482.0	37568.6	37226.9	33679.3	27214.7	16342.9	5872.7	2053.9
75°	16811.4	17022.8	23314.8	27774.8	30216.2	29247.4	25618.8	17544.2	6721.8	1648.7	704.6
77.5°	8680.5	8578.3	13866.3	18428.5	21549.8	20545.8	16776.2	9082.1	2547.1	687.0	436.8
80°	4488.2	4562.2	5999.6	9656.4	13154.6	12104.8	8944.7	4209.9	1356.3	380.5	334.7
82.5°	2515.4	2360.4	3449.0	4217.0	6151.0	4822.9	3431.3	2980.4	591.9	229.0	317.1
85°	458.0	479.1	1891.8	2279.3	2134.9	1356.3	1106.2	1990.5	172.6	126.8	221.9
87.5°	7.0	7.0	366.4	655.3	415.7	190.2	348.8	285.4	35.2	49.3	38.8
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°	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3
2.5°	8141.5	8007.6	7757.5	7510.9	7197.4	6940.2	6767.6	6587.9	6404.7	6418.8	6461.1
5°	8000.6	7768.1	7274.9	6753.5	6253.2	5802.3	5358.4	4960.3	4798.2	4650.3	4657.3
7.5°	7859.7	7532.0	6809.8	5992.5	5235.1	4467.1	3910.5	3452.5	3209.4	3026.2	2973.4
10°	7796.3	7362.9	6383.6	5259.7	4185.2	3346.8	2631.6	2258.2	1969.3	1877.7	1902.4
12.5°	7824.4	7278.4	5999.6	4597.4	3318.6	2332.2	1831.9	1641.7	1578.3	1567.7	1560.7
15°	7877.3	7218.5	5622.6	3864.7	2437.9	1733.3	1539.5	1504.3	1497.2	1490.2	1493.7
17.5°	7947.7	7165.6	5221.0	3177.7	1870.7	1514.9	1458.5	1440.9	1437.4	1437.4	1437.4
20°	8018.2	7105.8	4773.6	2564.7	1560.7	1430.3	1395.1	1384.5	1381.0	1381.0	1377.5
22.5°	8099.2	7052.9	4319.1	2015.1	1437.4	1370.4	1338.7	1331.7	1328.1	1324.6	1324.6
25°	8215.5	6986.0	3836.5	1648.7	1359.9	1314.1	1282.3	1275.3	1271.8	1257.7	1261.2
27.5°	8370.5	6936.7	3339.7	1423.3	1289.4	1243.6	1222.5	1211.9	1204.8	1194.3	1197.8
30°	8581.9	6894.4	2811.3	1300.0	1208.4	1169.6	1148.5	1141.4	1134.4	1123.8	1123.8
32.5°	8948.3	6912.0	2254.7	1201.3	1134.4	1088.6	1067.4	1060.4	1053.4	1042.8	1042.8
35°	9497.8	7014.2	1803.7	1116.8	1046.3	1000.5	979.4	979.4	968.8	954.7	951.2
37.5°	10396.2	7274.9	1447.9	1035.7	961.8	919.5	894.8	887.8	877.2	856.1	852.6
40°	11456.6	7680.0	1218.9	954.7	884.3	842.0	820.8	799.7	771.5	750.4	746.9
42.5°	12788.3	8095.7	1056.9	873.7	810.3	771.5	746.9	711.6	669.4	641.2	637.7
45°	14176.3	8476.2	947.7	799.7	739.8	708.1	679.9	623.6	570.7	535.5	532.0
47.5°	15212.0	8546.6	859.6	729.2	679.9	648.2	609.5	539.0	468.6	436.8	426.3
50°	15701.7	8204.9	768.0	658.8	620.0	584.8	535.5	454.5	377.0	338.2	331.2
52.5°	15874.3	7613.1	694.0	595.4	560.1	517.9	458.0	366.4	295.9	257.2	253.7
55°	15803.9	6866.2	627.1	535.5	489.7	440.4	380.5	292.4	218.4	186.7	179.7
57.5°	15434.0	5915.0	560.1	475.6	419.2	369.9	303.0	218.4	148.0	119.8	116.3
60°	14437.0	4618.6	493.2	408.7	355.8	303.0	239.6	155.0	91.6	66.9	66.9
62.5°	12753.0	3427.8	429.8	341.7	299.4	243.1	169.1	98.6	49.3	35.2	31.7
65°	10656.9	2529.5	359.3	288.9	250.1	190.2	119.8	59.9	24.7	10.6	7.0
67.5°	7436.9	1560.7	299.4	236.0	204.3	137.4	74.0	24.7	10.6	0.0	0.0
70°	3378.5	743.3	229.0	179.7	155.0	98.6	38.8	14.1	7.0	0.0	0.0
72.5°	1049.8	391.0	162.1	130.3	105.7	63.4	21.1	10.6	7.0	0.0	0.0
75°	486.2	250.1	102.2	70.5	59.9	31.7	14.1	7.0	3.5	0.0	0.0
77.5°	362.9	193.8	59.9	38.8	31.7	21.1	10.6	7.0	3.5	0.0	0.0
80°	317.1	98.6	35.2	24.7	17.6	14.1	7.0	3.5	0.0	0.0	0.0
82.5°	285.4	49.3	21.1	14.1	10.6	7.0	3.5	3.5	0.0	0.0	0.0
85°	155.0	28.2	14.1	10.6	7.0	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	28.2	14.1	10.6	7.0	7.0	3.5	3.5	3.5	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)