

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: P456317

Luminaire Tested: **GALN-SA7C-750-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-750-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40507 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

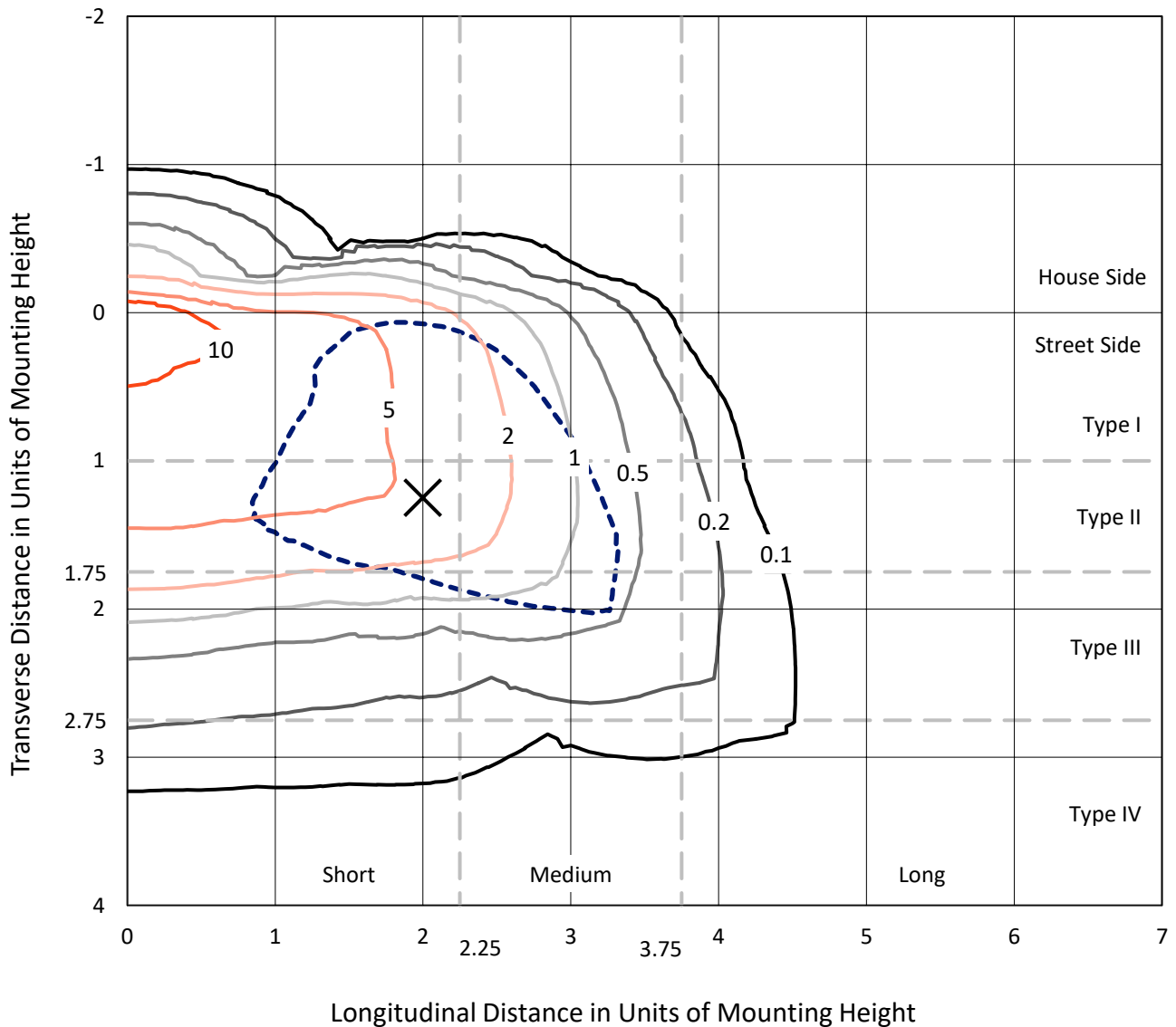
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

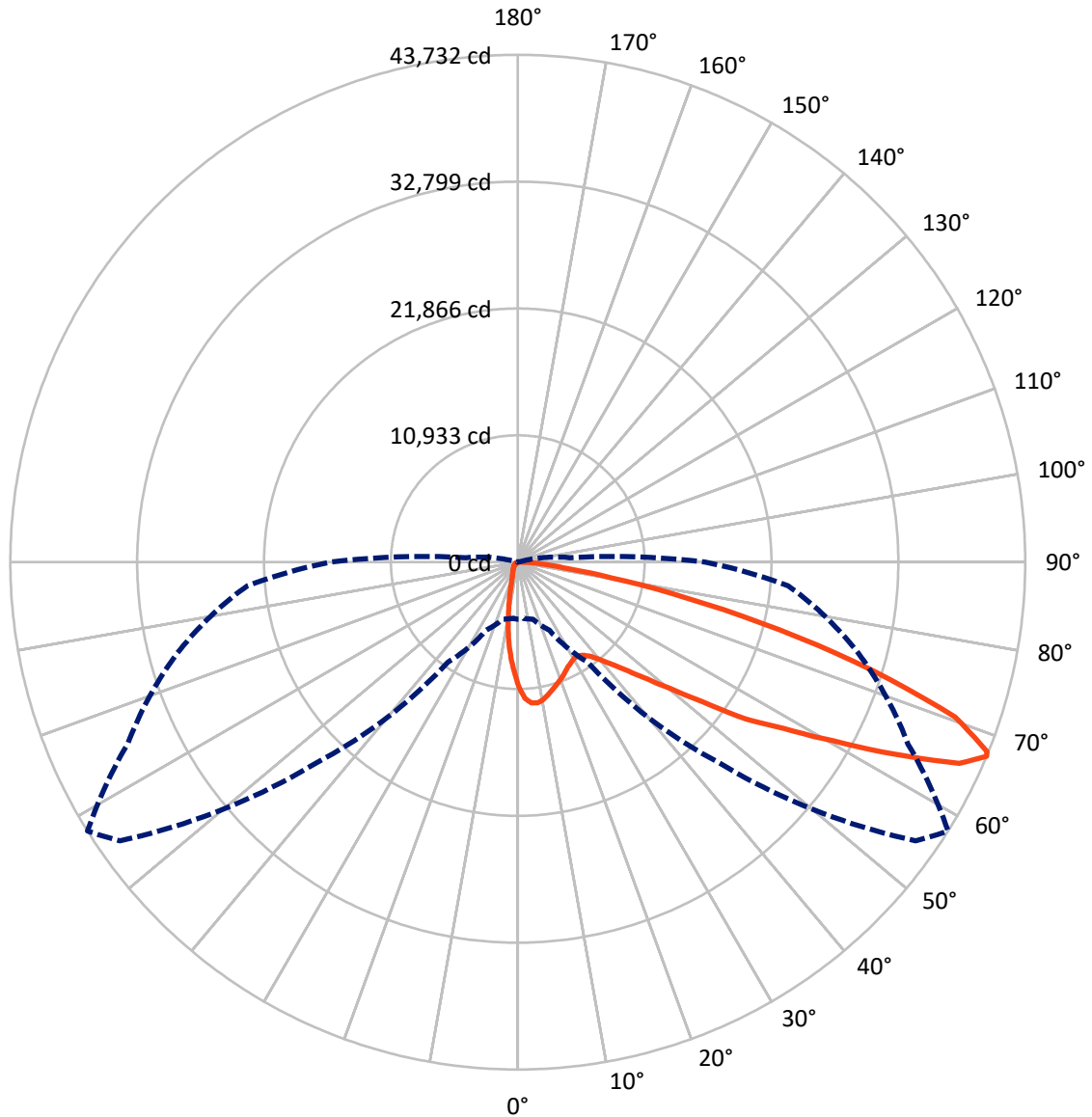
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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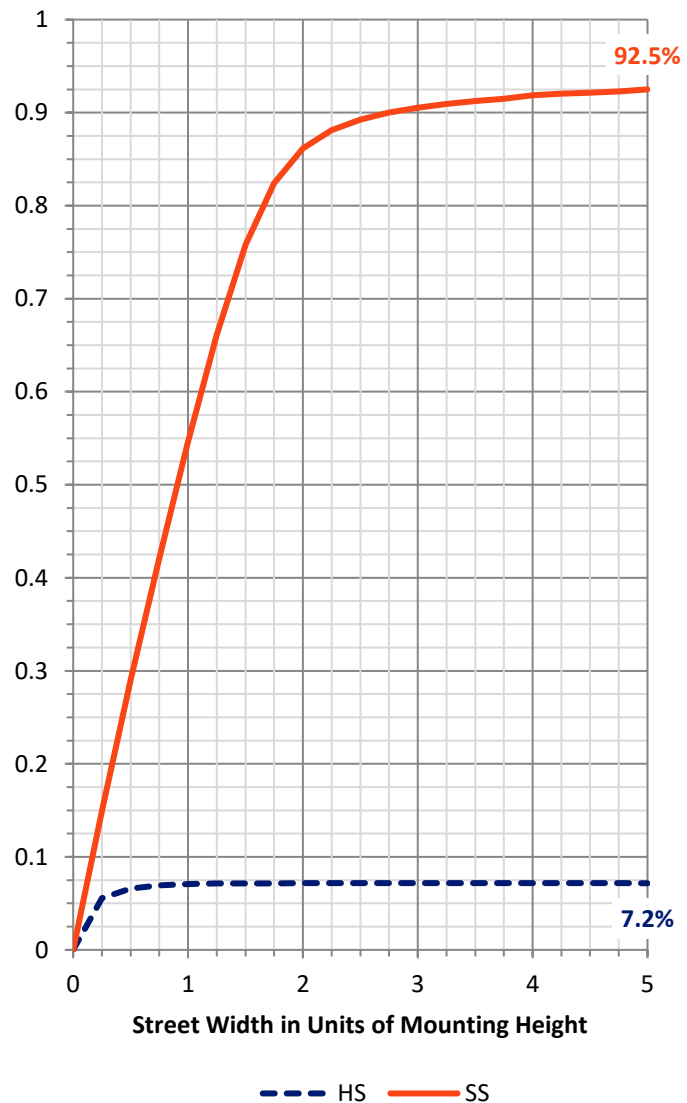
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2923.2	0.0	2923.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	37583.8	0.0	37583.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	40507.0	0.0	40507.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.4	2.2
10°-20°	1881.9	4.6
20°-30°	2550.2	6.3
30°-40°	3536.9	8.7
40°-50°	5641.0	13.9
50°-60°	9750.9	24.1
60°-70°	11138.6	27.5
70°-80°	4643.8	11.5
80°-90°	492.4	1.2
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°	40507.0	100.0
0°-180°	40507.0	100.0

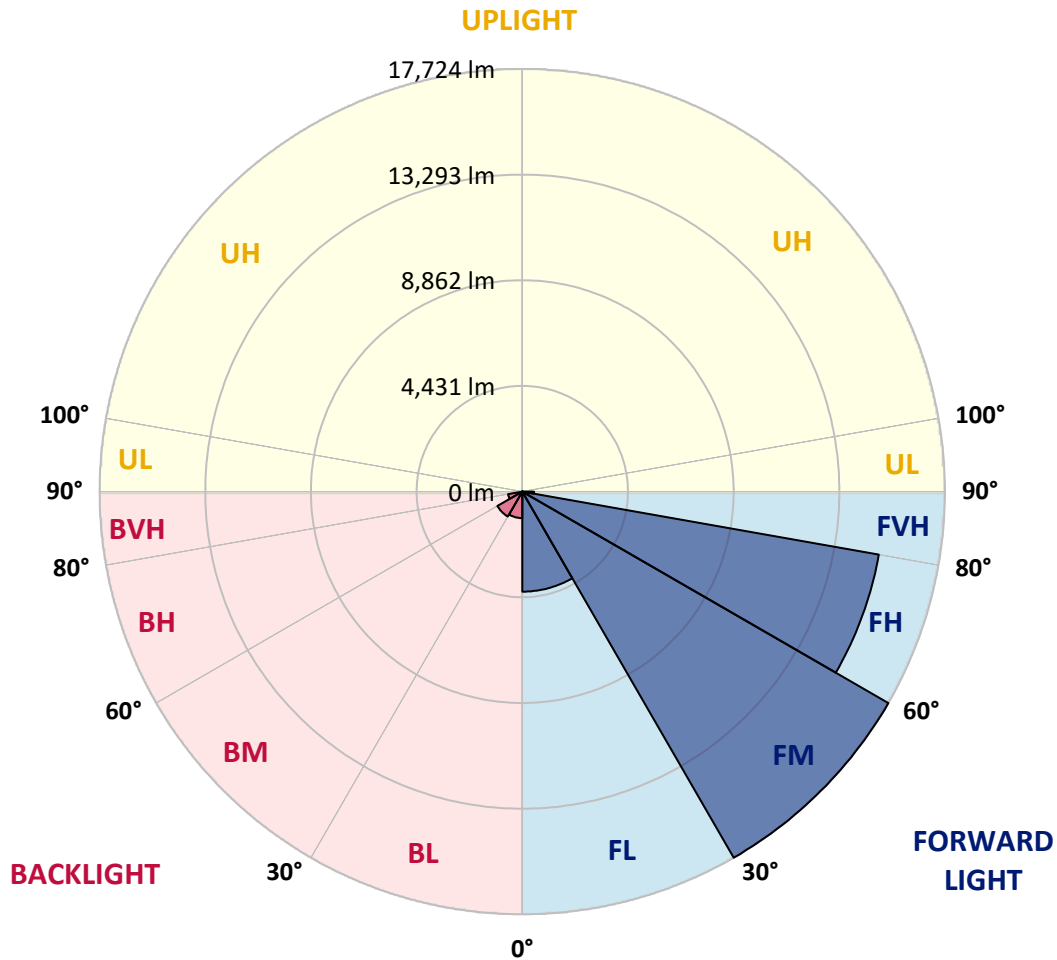


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4193.4	10.4			
FM (30°-60°)	17723.5	43.8			
FH (60°-80°)	15178.0	37.5			G5
FVH (80°-90°)	488.8	1.2			G3/500
BL (0°-30°)	1110.0	2.7	B3/2500		
BM (30°-60°)	1205.3	3.0	B2/2500		
BH (60°-80°)	604.3	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0
2.5°	12462.3	12481.2	12410.9	12354.0	12207.8	12050.9	11842.4	11731.4	11542.0	11214.4	10851.7
5°	12754.6	12779.0	12768.2	12754.6	12697.8	12546.2	12280.9	12183.5	11904.7	11371.4	10716.4
7.5°	12105.0	12194.3	12205.1	12310.7	12410.9	12424.4	12324.2	12251.2	11994.0	11368.7	10475.5
10°	11244.2	11303.8	11390.4	11512.2	11753.1	11953.4	12050.9	12040.0	11891.1	11284.8	10194.0
12.5°	10375.3	10407.8	10540.4	10748.9	11043.9	11385.0	11644.8	11696.3	11699.0	11184.7	9958.5
15°	9628.2	9614.7	9717.6	9958.5	10372.6	10800.3	11265.9	11347.1	11477.0	11087.2	9739.2
17.5°	8989.4	9059.8	9076.0	9341.3	9723.0	10277.9	10870.7	11014.1	11274.0	11003.3	9557.9
20°	8594.2	8632.1	8667.3	8816.2	9159.9	9744.6	10499.8	10697.4	11084.5	10927.5	9354.8
22.5°	8477.8	8502.2	8472.4	8518.4	8762.0	9281.8	10096.5	10359.1	10903.2	10857.1	9189.7
25°	8567.1	8591.5	8521.1	8467.0	8550.9	8905.5	9706.7	10026.1	10757.0	10843.6	9065.2
27.5°	8783.7	8829.7	8732.3	8634.8	8586.1	8702.5	9400.9	9771.7	10656.8	10908.6	9008.4
30°	9122.1	9149.1	9076.0	8956.9	8846.0	8729.6	9241.2	9595.7	10629.8	11060.1	9002.9
32.5°	9490.2	9547.0	9506.4	9427.9	9284.5	9008.4	9287.2	9601.2	10694.7	11279.4	9070.6
35°	9944.9	10009.9	10047.8	10031.5	9847.5	9503.7	9579.5	9844.8	10868.0	11682.7	9254.7
37.5°	10391.6	10448.4	10662.2	10735.3	10572.9	10248.1	10147.9	10323.9	11249.6	12210.6	9587.6
40°	10903.2	10978.9	11279.4	11558.2	11479.7	11138.6	10954.6	11100.8	11834.3	13006.4	10218.3
42.5°	11393.1	11528.4	11985.9	12478.5	12551.6	12170.0	12048.1	12096.9	12700.5	14151.4	11098.0
45°	12088.7	12216.0	12806.1	13474.6	13818.4	13520.7	13396.2	13388.0	13888.8	15761.9	12524.5
47.5°	13093.0	13206.7	13902.3	14562.8	15174.5	15215.1	14979.7	15060.9	15383.0	17645.9	14273.2
50°	14324.6	14592.6	15050.0	15737.6	16555.0	17215.5	17288.6	17180.3	17456.4	19827.6	16373.7
52.5°	16113.8	16216.7	16636.2	17202.0	18160.2	19280.8	20149.7	20000.8	19914.2	21906.5	18495.8
55°	17448.3	17586.3	18238.7	19015.6	20420.4	21898.3	23782.3	23833.7	22740.2	23904.1	20572.0
57.5°	17045.0	17256.1	18244.1	19805.9	22894.5	25595.9	26998.0	27033.2	25355.0	25844.9	22916.1
60°	14974.2	15074.4	16490.1	18574.3	23105.6	29602.0	31559.0	31274.8	28015.8	28015.8	24986.8
62.5°	10618.9	10775.9	11923.6	14990.5	20867.0	30993.3	37021.4	36434.1	31680.9	30091.9	26221.2
65°	6786.0	6634.5	7395.1	9463.1	15545.4	28938.8	41777.4	41812.6	35129.4	30922.9	25547.2
67°	4915.6	4856.1	5075.3	6469.3	10540.4	24326.4	41877.5	43731.7	37110.8	30397.8	23392.5
67.5°	4496.1	4542.1	4701.8	5835.9	9576.8	22136.5	41422.8	43618.0	37557.4	30081.1	22612.9
70°	3407.9	3329.4	3502.7	4127.9	5741.2	13964.6	35632.8	40004.4	37002.5	26938.5	18068.2
72.5°	2506.5	2498.4	2739.3	3375.4	4420.3	7438.4	26749.0	32076.1	30230.0	20512.4	11376.8
75°	1691.8	1767.6	2151.9	2820.5	4006.1	4823.6	18236.0	23270.7	20986.1	11647.5	4650.4
77.5°	963.6	969.0	1385.9	2265.6	3597.4	3881.6	10805.7	14825.4	11108.9	3873.5	1380.5
80°	416.9	457.5	687.5	1645.8	2982.9	3437.7	6196.0	8147.6	4493.4	820.2	446.6
82.5°	154.3	181.4	303.2	1012.4	2176.3	2831.4	3743.6	3889.7	1524.0	289.6	278.8
85°	0.0	5.4	111.0	473.7	1134.2	1264.1	2501.1	2306.2	674.0	138.0	181.4
87.5°	0.0	0.0	0.0	48.7	148.9	471.0	776.9	866.2	162.4	48.7	43.3
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°	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0	10738.0
2.5°	10656.8	10480.9	10039.7	9598.5	9270.9	8997.5	8586.1	8361.4	8242.3	8066.4	8077.2
5°	10388.9	10031.5	9254.7	8450.8	7801.1	7167.7	6409.8	6103.9	5846.8	5700.6	5603.2
7.5°	9990.9	9463.1	8312.7	7240.8	6242.0	5134.9	4303.9	3749.0	3375.4	3237.4	3104.7
10°	9555.1	8854.1	7357.2	5871.1	4485.2	3342.9	2639.2	2130.3	1948.9	1781.1	1797.3
12.5°	9151.8	8299.2	6480.2	4634.1	3142.6	2124.9	1656.6	1448.2	1388.6	1369.7	1369.7
15°	8821.6	7768.6	5538.2	3483.7	2154.6	1526.7	1326.4	1269.5	1247.9	1242.4	1242.4
17.5°	8469.7	7265.2	4688.2	2574.2	1567.3	1277.6	1210.0	1172.1	1163.9	1158.5	1158.5
20°	8155.7	6759.0	3881.6	1916.4	1266.8	1150.4	1107.1	1082.7	1074.6	1069.2	1071.9
22.5°	7858.0	6309.6	3123.7	1448.2	1115.2	1047.5	1004.2	979.9	963.6	950.1	952.8
25°	7592.7	5876.5	2511.9	1185.6	1004.2	944.7	901.4	866.2	831.0	814.8	812.1
27.5°	7405.9	5497.6	1957.0	1015.1	904.1	839.1	785.0	741.7	695.7	671.3	665.9
30°	7251.6	5113.2	1548.3	896.0	803.9	741.7	674.0	611.7	563.0	538.7	527.8
32.5°	7151.5	4747.8	1220.8	798.5	720.0	644.2	568.4	506.2	452.0	427.7	422.3
35°	7135.2	4441.9	998.8	717.3	644.2	563.0	484.5	416.9	370.8	346.5	341.1
37.5°	7251.6	4206.4	836.4	652.3	582.0	492.6	406.0	343.8	303.2	284.2	281.5
40°	7562.9	4057.6	725.4	598.2	525.1	427.7	346.5	292.3	251.7	232.8	232.8
42.5°	8155.7	4063.0	652.3	546.8	468.3	365.4	295.0	243.6	208.4	192.2	186.8
45°	9081.4	4247.0	590.1	495.4	414.1	316.7	251.7	200.3	165.1	151.6	151.6
47.5°	10321.2	4612.5	536.0	443.9	365.4	270.7	213.8	162.4	132.6	119.1	119.1
50°	11942.6	5199.8	489.9	400.6	324.8	232.8	173.2	132.6	102.9	92.0	89.3
52.5°	13637.1	5925.3	435.8	362.7	278.8	197.6	140.8	102.9	78.5	70.4	67.7
55°	15507.5	6634.5	384.4	324.8	227.4	165.1	111.0	81.2	56.8	48.7	48.7
57.5°	17394.2	7330.1	322.1	270.7	178.7	121.8	86.6	59.6	37.9	29.8	29.8
60°	18991.2	7554.8	273.4	219.3	135.3	86.6	62.3	37.9	21.7	13.5	13.5
62.5°	19210.4	6796.9	230.1	167.8	97.4	59.6	32.5	21.7	8.1	5.4	5.4
65°	18019.4	5522.0	192.2	127.2	65.0	29.8	13.5	8.1	2.7	0.0	0.0
67°	16146.3	4477.1	157.0	94.7	46.0	18.9	8.1	2.7	0.0	0.0	0.0
67.5°	15667.2	4268.7	151.6	89.3	40.6	16.2	5.4	2.7	0.0	0.0	0.0
70°	12294.5	3196.8	108.3	54.1	24.4	10.8	0.0	0.0	0.0	0.0	0.0
72.5°	7641.4	1808.2	78.5	32.5	16.2	5.4	0.0	0.0	0.0	0.0	0.0
75°	2888.2	633.4	54.1	21.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	898.7	240.9	32.5	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	303.2	92.0	21.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	186.8	37.9	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	116.4	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	5.4	2.7	0.0	0.0	0.0	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)