

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: P457689

Luminaire Tested: **GALN-SA9A-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30992 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

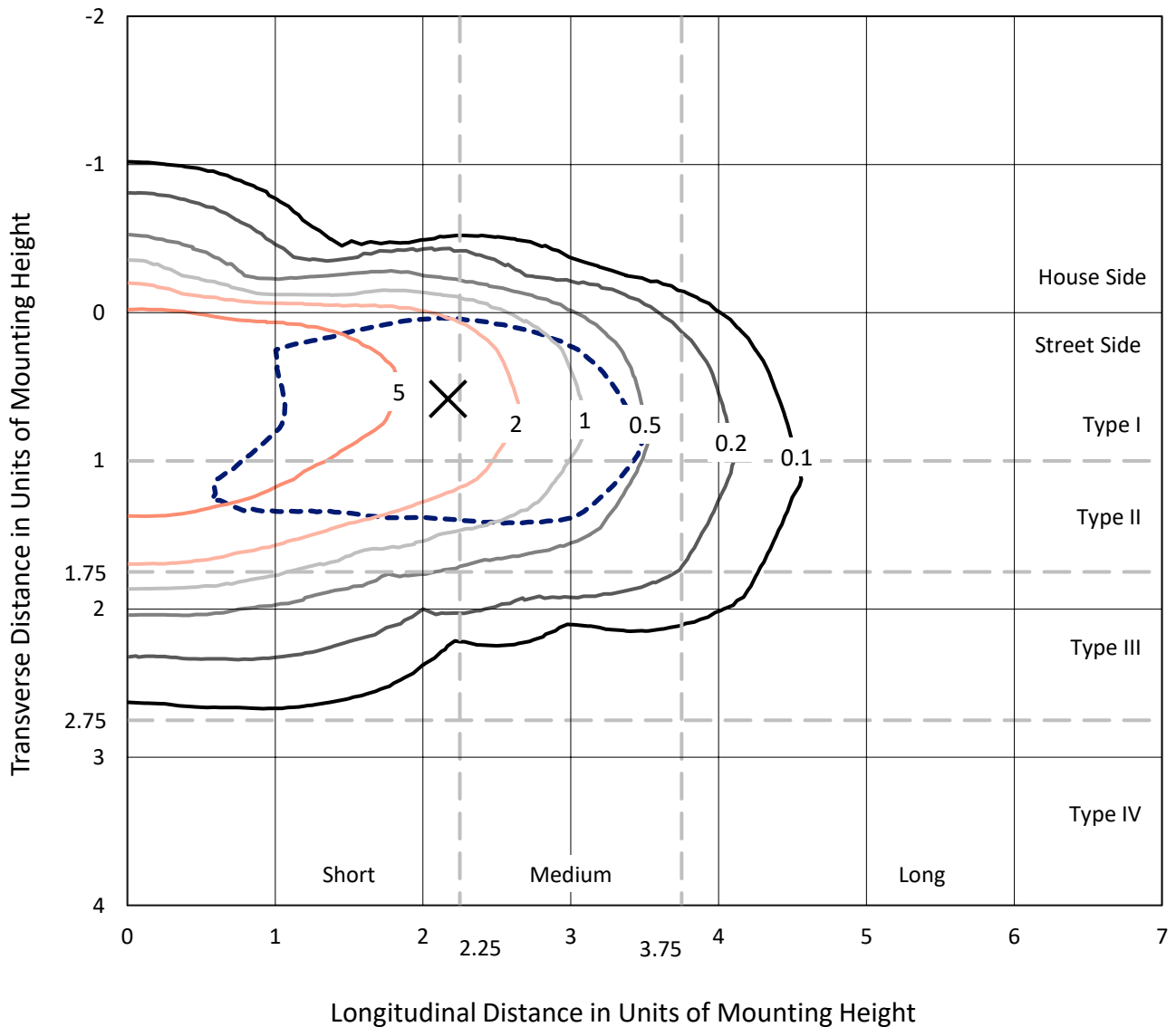
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

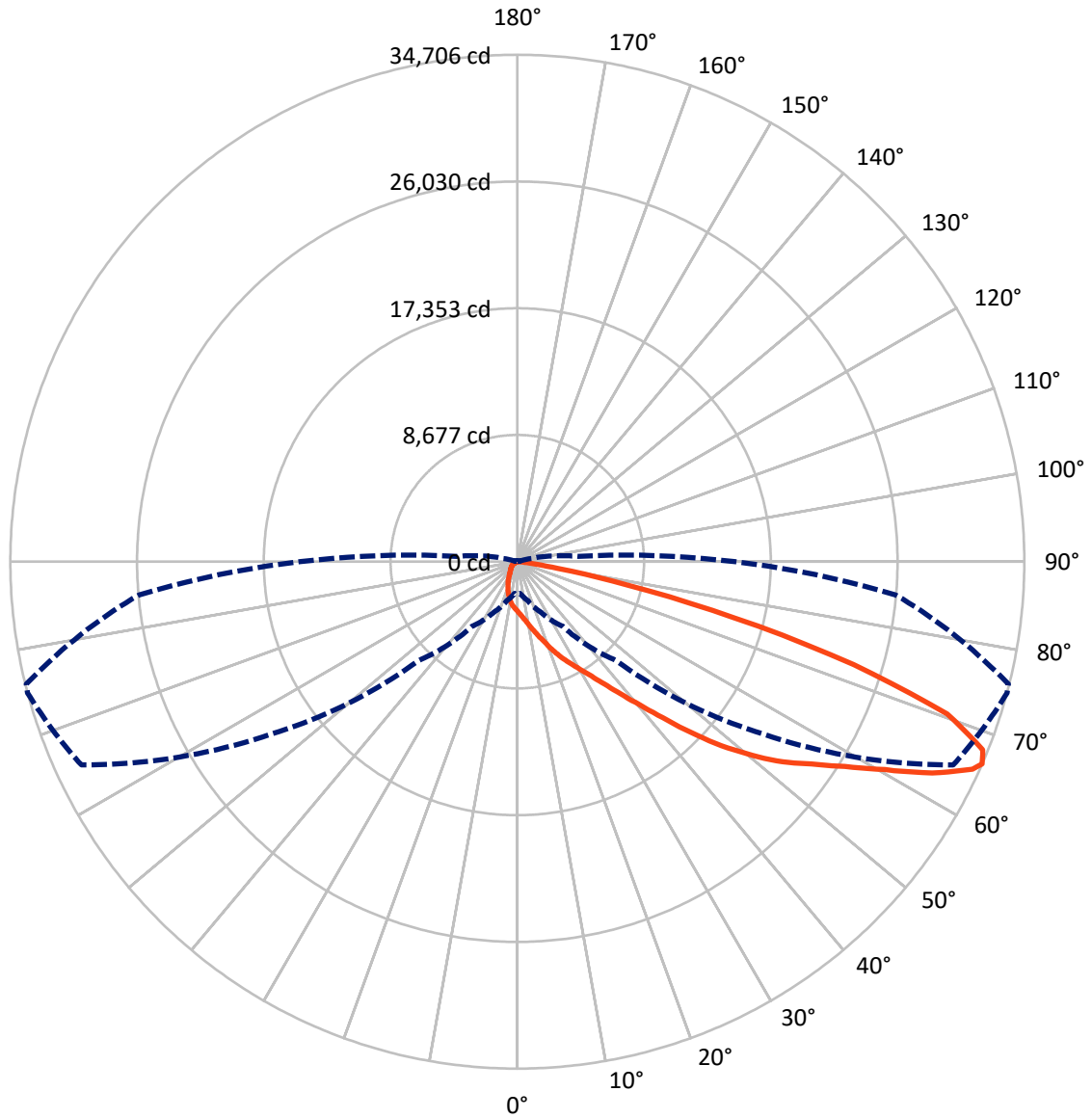
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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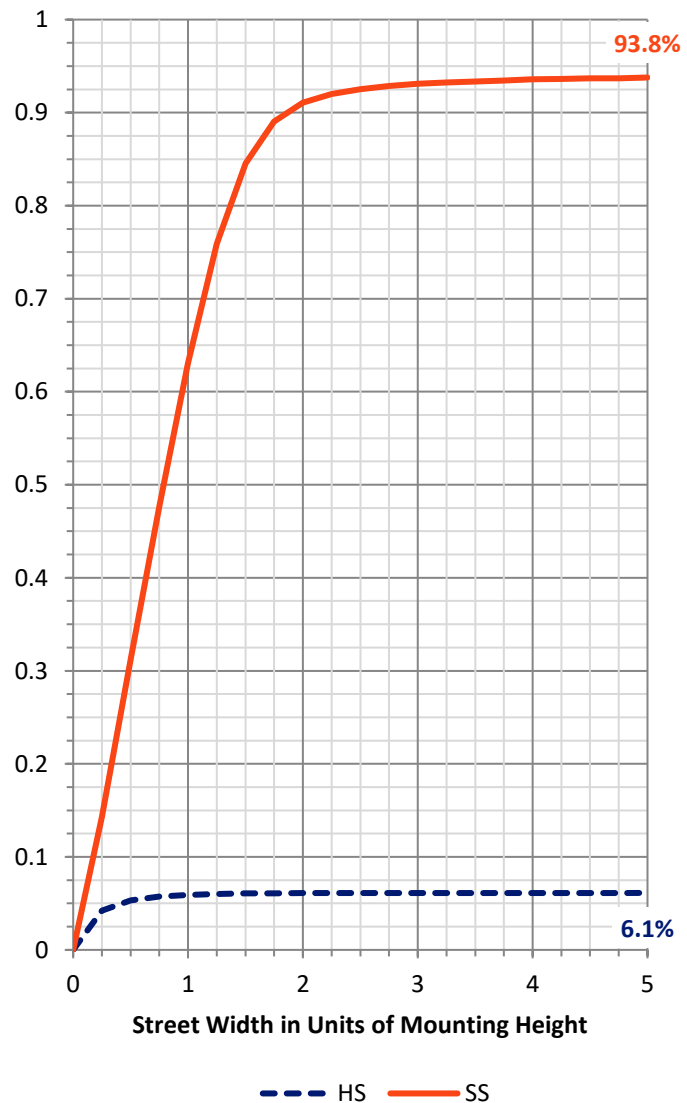
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1913.3	0.0	1913.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	29078.7	0.0	29078.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	30992.0	0.0	30992.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.9	1.1
10°-20°	962.1	3.1
20°-30°	1661.3	5.4
30°-40°	2996.7	9.7
40°-50°	5413.6	17.5
50°-60°	8439.8	27.2
60°-70°	8017.4	25.9
70°-80°	3004.7	9.7
80°-90°	169.5	0.5
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°	30992.0	100.0
0°-180°	30992.0	100.0



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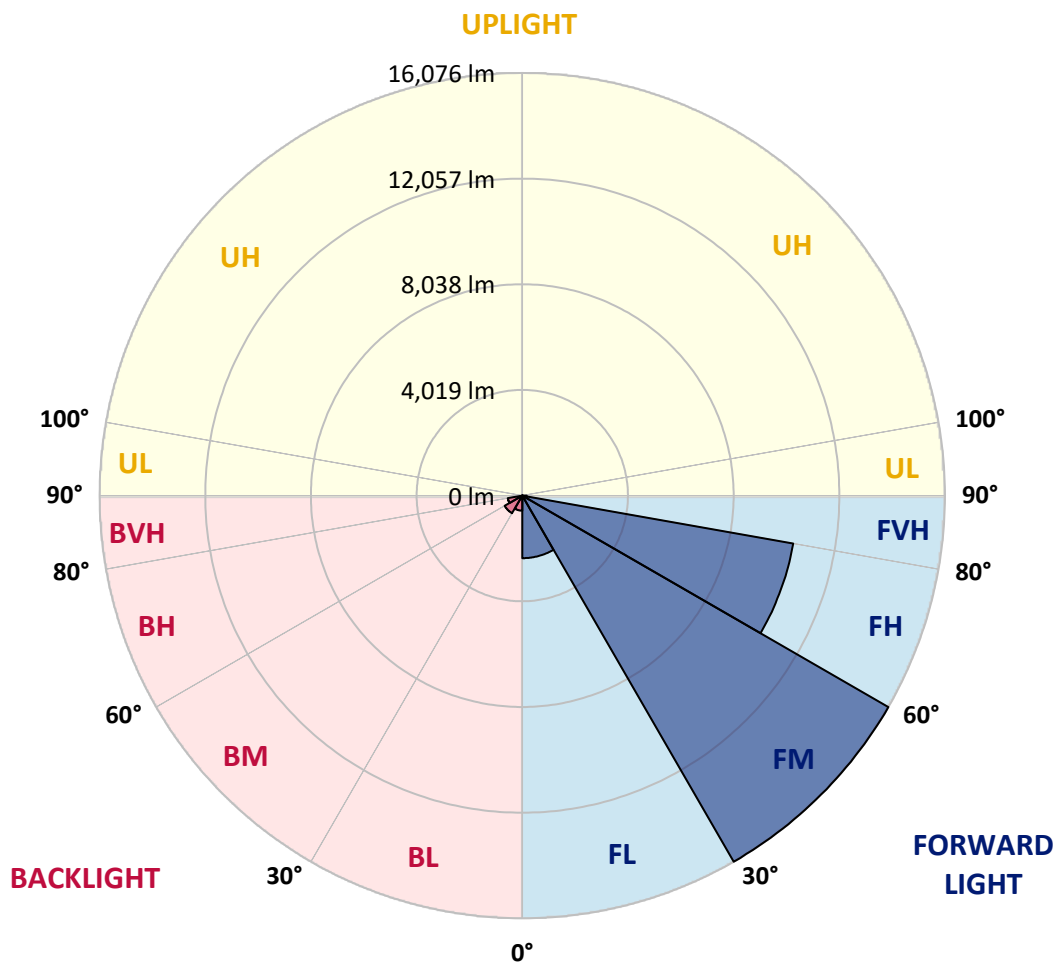
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2378.9	7.7			
FM	(30°-60°)	16075.5	51.9			
FH	(60°-80°)	10463.5	33.8			G4/12000
FVH	(80°-90°)	160.8	0.5			G2/225
BL	(0°-30°)	571.4	1.8	B2/1000		
BM	(30°-60°)	774.5	2.5	B1/1000		
BH	(60°-80°)	558.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3
2.5°	4049.3	3998.8	4014.9	3992.0	3939.3	3861.4	3792.6	3694.1	3595.5	3579.5	3469.5
5°	4583.2	4569.5	4551.1	4484.7	4448.0	4328.8	4186.8	4017.2	3813.2	3776.6	3577.2
7.5°	4947.6	4940.7	4949.9	4915.5	4883.4	4775.7	4624.5	4393.0	4076.8	4056.1	3723.9
10°	5066.7	5085.1	5119.4	5174.4	5224.9	5190.5	5075.9	4787.2	4418.2	4358.6	3891.1
12.5°	4998.0	5018.6	5101.1	5247.8	5410.5	5504.4	5458.6	5247.8	4780.3	4732.2	4079.1
15°	4821.5	4846.7	4963.6	5190.5	5481.5	5747.3	5861.9	5710.7	5201.9	5124.0	4305.9
17.5°	4560.3	4597.0	4764.2	5064.4	5463.2	5921.5	6244.6	6194.2	5651.1	5577.8	4553.4
20°	4363.2	4390.7	4532.8	4876.5	5385.3	6017.8	6609.0	6751.1	6205.7	6079.6	4844.4
22.5°	4493.8	4503.0	4551.1	4757.4	5245.5	6043.0	6929.8	7330.8	6794.6	6682.3	5146.9
25°	5133.2	5041.5	4993.4	4947.6	5215.7	6020.0	7220.8	7935.8	7381.3	7262.1	5447.1
27.5°	6141.5	6100.2	5857.3	5531.9	5470.1	6049.8	7413.3	8508.7	7933.5	7805.2	5740.5
30°	7239.2	7168.1	7019.2	6542.5	6063.6	6260.7	7553.1	9065.6	8586.6	8417.1	6008.6
32.5°	8247.5	8293.3	8071.0	7580.6	7026.1	6709.8	7734.2	9672.9	9336.0	9125.2	6320.2
35°	9423.1	9514.7	9173.3	8703.5	8055.0	7521.0	8087.1	10358.0	10287.0	10021.2	6801.5
37.5°	10617.0	10672.0	10463.5	9803.5	9219.1	8552.3	8751.6	11203.6	11458.0	11231.1	7376.7
40°	11620.7	11696.3	11542.8	10956.2	10332.8	9746.2	9716.4	12124.9	12851.3	12617.6	8233.7
42.5°	12388.4	12445.7	12450.3	12035.5	11474.1	11208.2	10947.0	13300.5	14597.5	14327.1	9228.3
45°	13357.8	13440.3	13392.1	13110.3	12690.9	12642.8	12507.6	14721.3	16687.5	16346.0	10518.5
47.5°	14856.5	14911.5	14792.3	14460.0	14033.8	14109.4	14029.2	16313.9	18818.6	18525.3	11854.5
50°	15896.9	15988.5	16158.1	16291.0	15981.6	15702.1	15463.7	17801.2	20842.1	20578.6	13220.3
52.5°	15885.4	16036.6	16572.9	17242.0	17918.0	17833.3	17148.1	19444.3	22774.0	22448.5	14503.6
55°	14815.2	15108.5	15896.9	17083.9	18956.1	19888.8	19577.2	21346.3	24442.2	24222.2	15990.8
57.5°	12606.1	12784.9	13880.2	15539.4	18376.4	20855.9	22391.3	23924.3	26442.8	26339.7	18300.7
60°	8478.9	8559.1	9968.5	12019.5	15644.8	19891.1	24453.7	27043.2	28906.3	28855.9	20998.0
62.5°	4858.2	4892.6	5914.6	7644.8	11132.6	16857.0	24627.9	30890.8	31860.2	31887.7	24119.1
65°	2614.7	2633.1	3458.0	4487.0	6774.0	12014.9	22146.1	32999.1	34248.0	34300.7	26053.2
66°	2257.2	2170.1	2752.2	3824.7	5389.9	9562.9	20576.3	32923.5	34706.3	34649.0	25984.5
67.5°	1716.4	1794.3	2197.6	2940.1	3994.3	6799.2	16987.7	31459.1	34358.0	34179.3	24928.1
70°	1228.3	1260.4	1565.2	2096.8	2720.1	3730.7	10855.3	26128.9	31227.7	30987.1	21717.5
72.5°	792.9	827.3	1109.1	1517.0	1966.2	2037.2	6077.3	18878.2	24075.6	24041.2	16355.2
75°	566.0	598.1	733.3	1086.2	1478.1	1260.4	2926.4	12723.0	15305.6	15202.5	10117.4
77.5°	410.2	426.2	490.4	710.4	1056.4	902.9	1356.6	6794.6	7619.6	7979.4	4470.9
80°	236.0	249.8	341.4	433.1	715.0	616.4	648.5	2727.0	2811.8	2676.6	1397.9
82.5°	116.9	132.9	204.0	295.6	446.9	414.8	297.9	820.4	866.2	843.3	352.9
85°	27.5	34.4	114.6	194.8	217.7	185.6	144.4	240.6	297.9	291.0	135.2
87.5°	2.3	4.6	41.2	34.4	36.7	61.9	50.4	61.9	96.2	89.4	48.1
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°	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3	3389.3
2.5°	3419.1	3375.5	3249.5	3125.7	3022.6	2914.9	2816.4	2759.1	2736.2	2711.0	2722.4
5°	3467.2	3361.8	3107.4	2887.4	2672.0	2488.7	2342.0	2248.1	2202.2	2195.4	2183.9
7.5°	3531.4	3350.3	2956.2	2612.4	2330.6	2126.6	1959.3	1824.1	1782.9	1746.2	1716.4
10°	3609.3	3329.7	2768.3	2323.7	2023.5	1766.8	1546.8	1386.4	1303.9	1281.0	1297.0
12.5°	3691.8	3290.7	2571.2	2057.9	1711.8	1384.1	1180.2	1100.0	1077.1	1067.9	1070.2
15°	3774.3	3242.6	2364.9	1801.2	1363.5	1104.6	1010.6	990.0	980.8	976.2	971.6
17.5°	3849.9	3164.7	2133.5	1551.4	1104.6	944.1	909.8	891.4	873.1	866.2	854.8
20°	3939.3	3075.3	1924.9	1271.8	935.0	854.8	813.5	779.1	751.6	733.3	731.0
22.5°	4024.1	2960.8	1707.2	1054.1	852.5	767.7	701.2	664.6	632.5	609.6	616.4
25°	4069.9	2821.0	1512.5	918.9	776.9	680.6	607.3	561.4	527.1	515.6	513.3
27.5°	4069.9	2649.1	1322.3	841.0	708.1	602.7	527.1	483.5	460.6	444.6	446.9
30°	4037.8	2458.9	1145.8	781.4	648.5	533.9	462.9	423.9	405.6	394.2	391.9
32.5°	4012.6	2277.9	994.6	724.1	586.7	474.4	412.5	382.7	364.4	352.9	352.9
35°	4051.6	2122.0	877.7	666.9	529.4	428.5	373.5	346.0	327.7	318.5	316.2
37.5°	4154.7	1979.9	788.3	605.0	476.7	389.6	346.0	313.9	295.6	284.2	279.6
40°	4409.0	1899.7	721.9	547.7	426.2	357.5	313.9	284.2	261.2	249.8	247.5
42.5°	4817.0	1902.0	657.7	495.0	387.3	330.0	286.5	252.1	226.9	215.4	213.1
45°	5431.1	1989.1	607.3	444.6	352.9	300.2	256.7	220.0	197.1	185.6	185.6
47.5°	6166.7	2158.7	563.7	401.0	320.8	272.7	226.9	190.2	167.3	158.1	158.1
50°	6964.2	2378.7	520.2	355.2	293.3	242.9	194.8	165.0	146.7	139.8	139.8
52.5°	7777.7	2644.5	476.7	318.5	263.5	210.8	167.3	146.7	130.6	126.0	123.7
55°	8845.6	2983.7	430.8	279.6	231.5	181.0	149.0	128.3	110.0	103.1	100.8
57.5°	10488.7	3494.7	380.4	245.2	190.2	151.2	128.3	107.7	87.1	75.6	73.3
60°	12470.9	4118.0	327.7	215.4	153.5	123.7	103.1	82.5	64.2	50.4	48.1
62.5°	14327.1	4514.5	277.3	181.0	121.5	94.0	73.3	61.9	45.8	32.1	29.8
65°	15147.5	4381.5	229.2	146.7	96.2	66.5	48.1	43.5	27.5	13.7	11.5
66°	14874.8	4184.5	210.8	132.9	87.1	57.3	41.2	36.7	20.6	6.9	6.9
67.5°	14070.4	3719.3	183.3	114.6	75.6	45.8	32.1	27.5	11.5	2.3	0.0
70°	12056.1	3008.9	144.4	84.8	55.0	32.1	18.3	13.7	6.9	0.0	0.0
72.5°	9260.4	2241.2	114.6	64.2	39.0	18.3	9.2	4.6	6.9	0.0	0.0
75°	5674.0	1281.0	89.4	48.1	25.2	11.5	6.9	0.0	6.9	2.3	0.0
77.5°	2518.5	575.2	59.6	32.1	18.3	9.2	4.6	0.0	4.6	2.3	0.0
80°	637.1	187.9	34.4	22.9	13.7	6.9	2.3	0.0	4.6	4.6	2.3
82.5°	174.2	68.7	25.2	18.3	11.5	6.9	2.3	0.0	4.6	4.6	4.6
85°	68.7	32.1	22.9	18.3	13.7	6.9	2.3	0.0	4.6	4.6	4.6
87.5°	32.1	22.9	22.9	20.6	16.0	6.9	2.3	0.0	4.6	2.3	4.6
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)