

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: P454938

Luminaire Tested: **GALN-SA6A-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19910 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

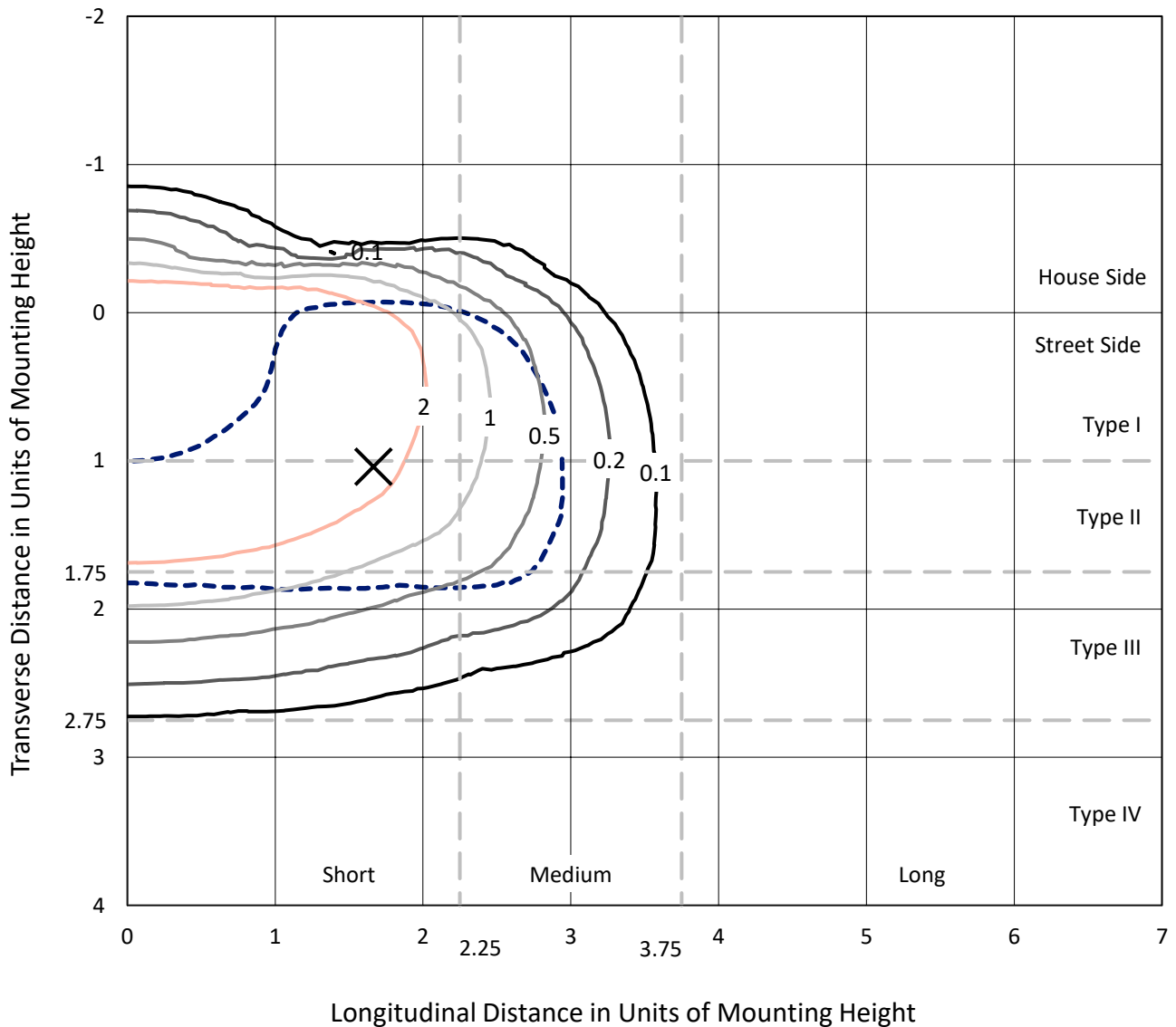
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454938  
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### Iso-Footcandle Lines of Horizontal Illumination

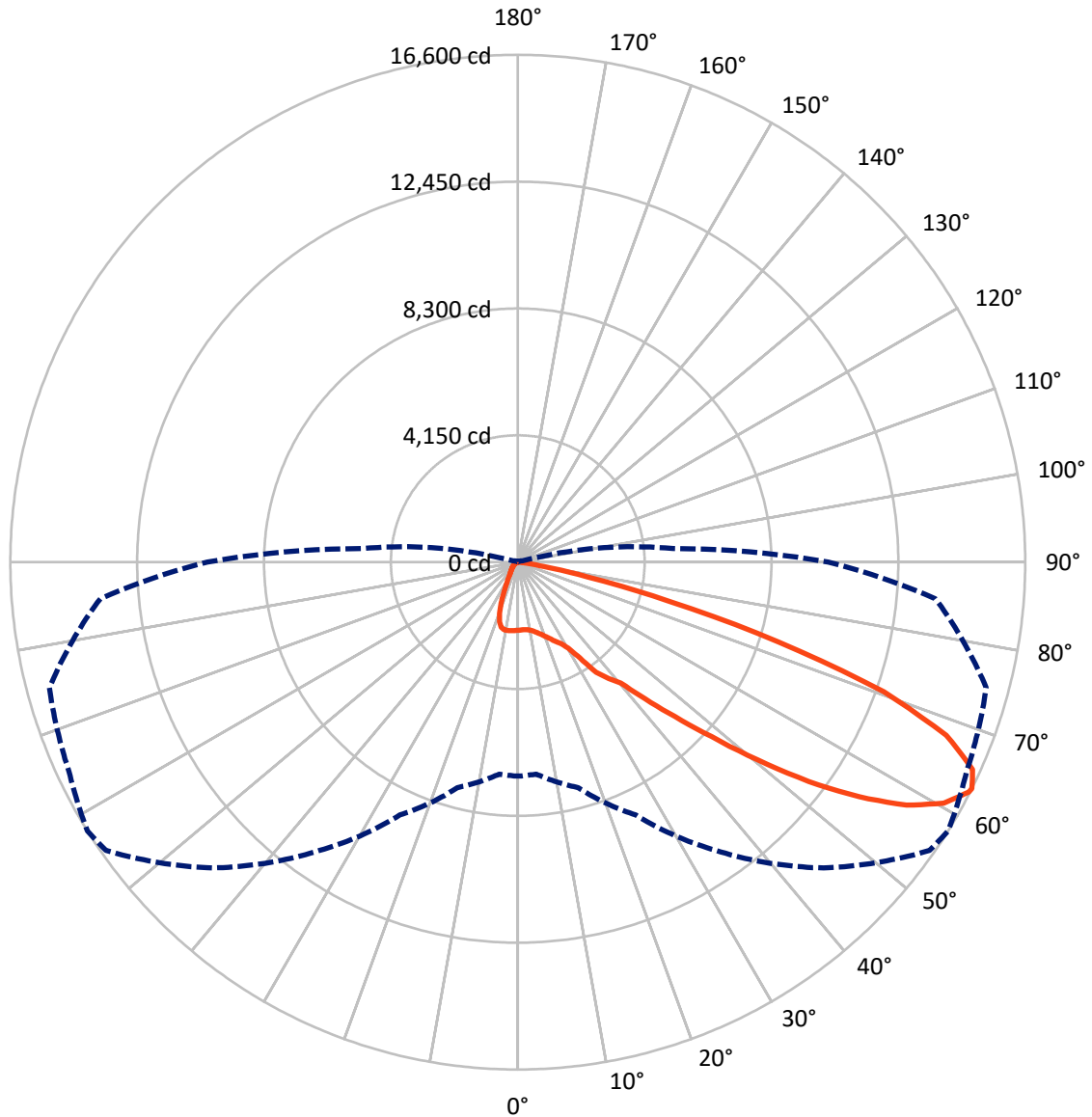
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P454938  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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 CATALOG NUMBER: GALN-SA6A-750-U-T3-HSS

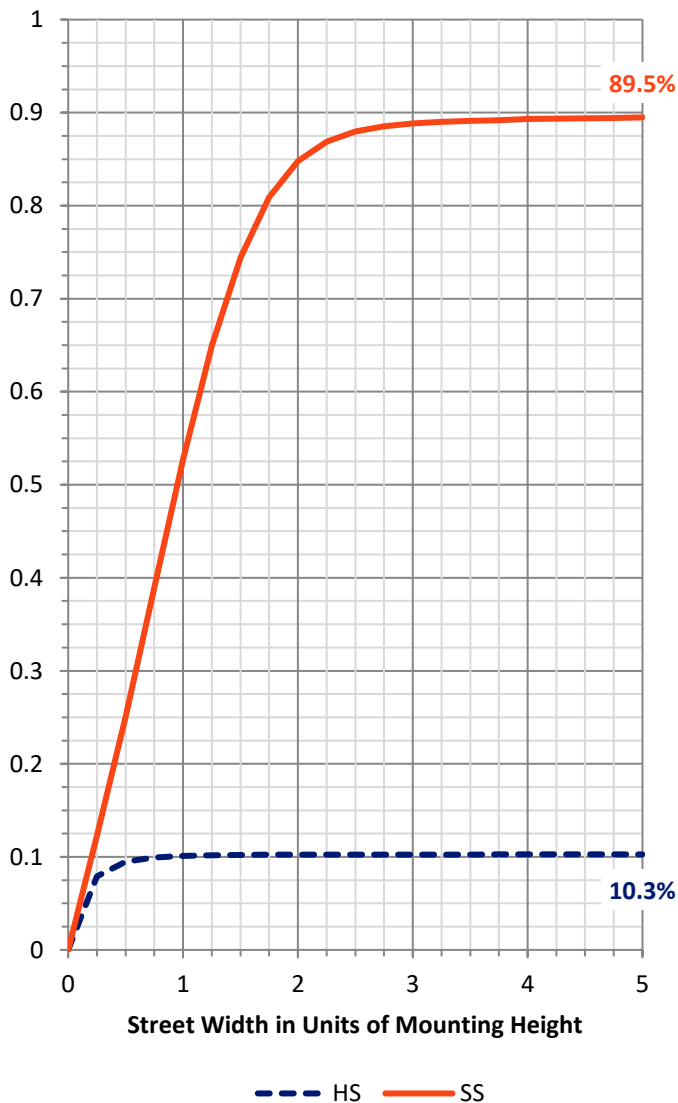
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2061.6	0.0	2061.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17848.5	0.0	17848.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19910.0	0.0	19910.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	1.0
10°-20°	568.3	2.9
20°-30°	986.4	5.0
30°-40°	1812.5	9.1
40°-50°	3412.1	17.1
50°-60°	5836.1	29.3
60°-70°	5588.1	28.1
70°-80°	1425.0	7.2
80°-90°	72.9	0.4
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°	19910.0	100.0
0°-180°	19910.0	100.0



REPORT NUMBER: P454938

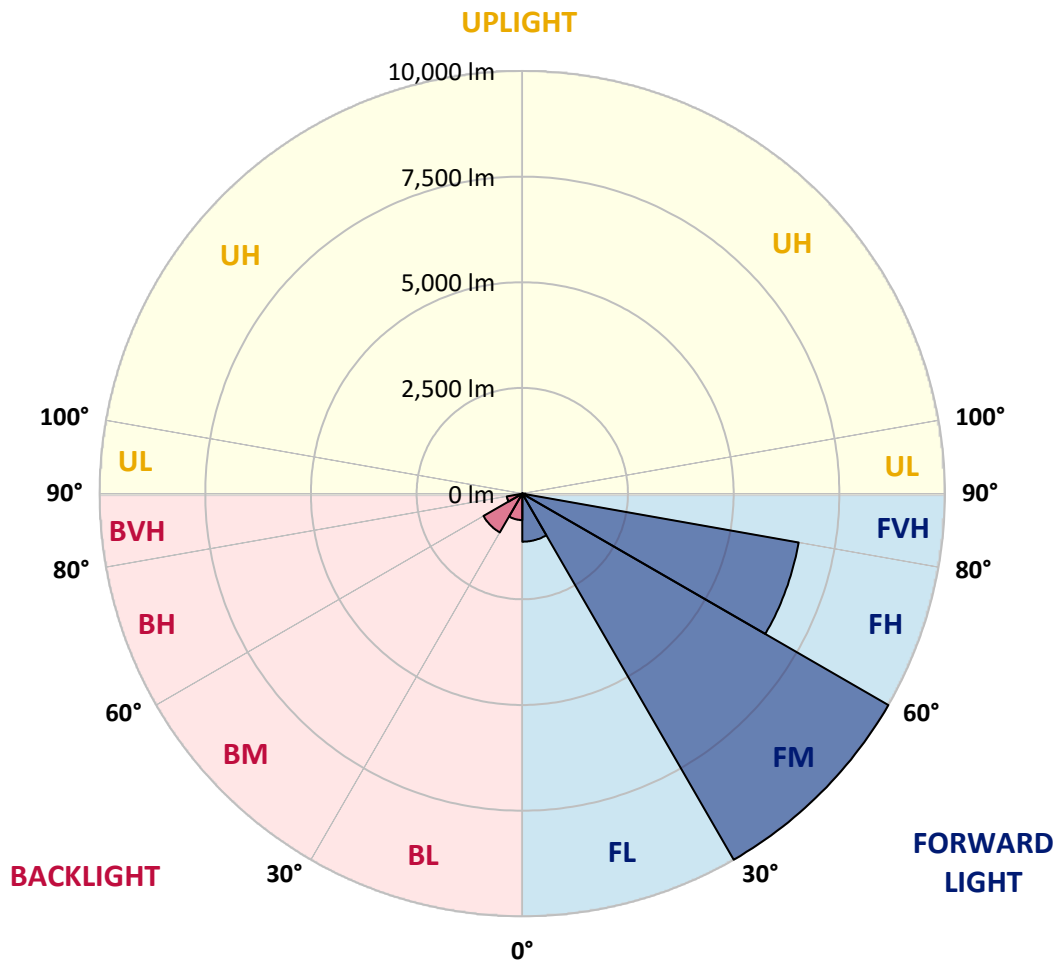
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.1	5.7			
FM (30°-60°)	10000.4	50.2			
FH (60°-80°)	6639.9	33.3			G3/7500
FVH (80°-90°)	70.0	0.4			G1/100
BL (0°-30°)	625.2	3.1	B2/1000		
BM (30°-60°)	1060.3	5.3	B2/2500		
BH (60°-80°)	373.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3**

Type III Short





REPORT NUMBER: P454938

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0
2.5°	2173.5	2181.0	2188.5	2191.5	2202.0	2212.5	2220.0	2218.5	2230.5	2236.5	2236.5
5°	2086.6	2086.6	2106.1	2124.1	2154.1	2184.0	2212.5	2218.5	2241.0	2262.0	2269.5
7.5°	2013.1	2017.6	2032.6	2065.6	2106.1	2158.5	2215.5	2229.0	2268.0	2314.4	2333.9
10°	1978.7	1981.7	2001.2	2035.6	2086.6	2158.5	2238.0	2263.5	2323.4	2396.9	2423.9
12.5°	1971.2	1975.7	1995.2	2034.1	2092.6	2179.5	2287.5	2314.4	2401.4	2495.8	2536.3
15°	1984.7	1987.7	2007.2	2049.1	2113.6	2217.0	2353.4	2390.9	2494.3	2603.7	2656.2
17.5°	2032.6	2029.6	2043.1	2077.6	2149.6	2263.5	2432.9	2477.8	2599.3	2749.2	2783.6
20°	2236.5	2217.0	2205.0	2175.0	2203.5	2329.4	2528.8	2594.8	2744.7	2897.6	2921.5
22.5°	2675.7	2632.2	2546.8	2429.9	2339.9	2419.4	2644.2	2720.7	2914.0	3063.9	3063.9
25°	3234.8	3179.4	3093.9	2839.1	2618.7	2567.8	2774.6	2870.6	3098.4	3249.8	3200.3
27.5°	3934.9	3891.4	3725.0	3428.2	3090.9	2827.1	2926.0	3014.5	3261.8	3444.7	3341.3
30°	4504.5	4483.5	4347.1	4081.8	3710.0	3324.8	3207.8	3266.3	3479.2	3690.5	3584.1
32.5°	4985.6	4985.6	4846.2	4598.9	4251.1	3909.4	3686.0	3728.0	3931.9	4176.2	3978.3
35°	5514.8	5496.8	5384.4	5149.0	4759.3	4458.0	4366.6	4423.5	4607.9	4789.3	4302.1
37.5°	6070.9	6064.9	5948.0	5720.2	5402.4	5023.1	4808.8	4823.8	4918.2	5029.1	4681.4
40°	6675.0	6684.0	6531.1	6390.2	6090.4	5702.2	5291.4	5197.0	5285.4	5598.7	5381.4
42.5°	7388.5	7367.5	7301.6	7109.7	6868.4	6636.0	6142.9	6108.4	6186.3	6522.1	6286.8
45°	8217.5	8247.5	8133.5	8027.1	7865.2	7671.8	7259.6	7199.7	7285.1	7806.8	7472.5
47.5°	9047.9	9019.4	9092.9	9073.4	9160.3	9016.4	8652.2	8529.3	8734.6	9229.3	8737.6
50°	9680.5	9712.0	9864.9	10088.2	10461.5	10542.4	10193.1	10151.2	10242.6	10560.4	9869.4
52.5°	10091.2	10196.1	10436.0	11010.1	11683.1	12206.3	11941.0	11918.5	11881.0	11966.5	10951.6
55°	10359.5	10466.0	10779.3	11624.7	12783.4	13633.3	13646.8	13550.9	13303.6	13242.1	11963.5
57.5°	10194.6	10215.6	10662.3	11792.6	13393.5	14651.2	15091.9	14995.9	14538.7	14306.4	12856.9
60°	9163.3	9206.8	9828.9	11157.0	13128.2	14983.9	16049.7	16006.2	15505.6	15243.3	13552.4
62.5°	7336.1	7462.0	8102.1	9583.1	11894.5	14423.3	16437.9	16560.9	16171.1	15809.9	13771.2
63°	7000.3	6959.8	7635.9	9124.4	11567.7	14146.0	16443.9	16599.8	16201.1	15863.8	13711.3
65°	5182.0	5303.4	5742.6	7195.2	9626.5	12855.4	16073.7	16349.5	16090.2	15625.5	13047.2
67.5°	2909.5	2903.5	3389.2	4708.3	6738.0	10083.7	14534.2	15117.3	15063.4	14021.6	10815.2
70°	1424.0	1446.5	1645.9	2440.4	3907.9	6956.8	12077.4	12707.0	12726.4	11013.1	7478.5
72.5°	644.6	655.1	797.5	1188.7	2008.6	3704.0	8322.4	8923.5	8812.6	7018.3	4129.7
75°	340.3	362.8	439.2	598.1	968.3	1527.5	4527.0	5108.6	4876.2	3206.3	1520.0
77.5°	251.8	259.3	298.3	380.7	518.7	595.1	1953.2	2323.4	2176.5	1160.2	503.7
80°	184.4	190.4	221.9	269.8	326.8	302.8	736.0	843.9	757.0	394.2	154.4
82.5°	112.4	113.9	161.9	200.9	205.4	169.4	242.8	260.8	272.8	221.9	83.9
85°	40.5	51.0	109.4	145.4	121.4	85.4	101.9	112.4	122.9	140.9	49.5
87.5°	4.5	6.0	52.5	70.5	34.5	31.5	37.5	42.0	45.0	52.5	24.0
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°	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0
2.5°	2242.5	2248.5	2244.0	2236.5	2235.0	2230.5	2221.5	2221.5	2221.5	2224.5	2221.5
5°	2275.5	2280.0	2269.5	2254.5	2238.0	2217.0	2194.5	2181.0	2179.5	2176.5	2169.0
7.5°	2338.4	2344.4	2320.4	2284.5	2239.5	2188.5	2140.6	2095.6	2074.6	2058.1	2058.1
10°	2429.9	2435.9	2387.9	2323.4	2233.5	2130.1	2016.1	1912.7	1831.8	1794.3	1785.3
12.5°	2539.3	2542.3	2462.8	2350.4	2202.0	2002.7	1759.8	1533.5	1376.1	1304.1	1296.6
15°	2659.2	2638.2	2533.3	2360.9	2112.1	1740.3	1320.6	1043.3	879.9	831.9	849.9
17.5°	2780.6	2741.7	2587.3	2344.4	1909.7	1320.6	887.4	712.0	661.1	647.6	647.6
20°	2894.6	2840.6	2626.2	2272.5	1559.0	909.9	658.1	616.1	607.1	598.1	599.6
22.5°	3008.5	2926.0	2660.7	2112.1	1161.7	650.6	589.1	575.6	563.6	551.6	550.1
25°	3119.4	3005.5	2674.2	1815.3	791.5	559.1	538.1	520.2	496.2	482.7	479.7
27.5°	3234.8	3101.4	2665.2	1440.5	577.1	500.7	479.7	454.2	425.7	401.7	401.7
30°	3456.7	3284.3	2633.7	1035.8	485.7	440.7	413.7	373.2	341.8	317.8	316.3
32.5°	3759.5	3522.6	2525.8	728.5	431.7	388.2	347.8	302.8	269.8	251.8	251.8
35°	4029.3	3762.5	2323.4	536.6	388.2	337.3	287.8	244.3	218.9	206.9	202.4
37.5°	4440.0	4113.2	2044.6	436.2	346.3	292.3	241.3	200.9	179.9	170.9	170.9
40°	5056.1	4541.9	1702.9	382.2	305.8	248.8	200.9	169.4	152.9	142.4	142.4
42.5°	5820.6	5066.6	1356.6	343.3	268.3	214.4	167.9	143.9	128.9	121.4	119.9
45°	6782.9	5619.7	1044.8	307.3	238.3	182.9	142.4	121.4	106.4	101.9	103.4
47.5°	7787.3	6106.9	809.5	275.8	206.9	154.4	121.4	104.9	94.4	88.4	88.4
50°	8644.7	6442.7	614.6	239.8	182.9	130.4	106.4	94.4	85.4	82.4	80.9
52.5°	9361.2	6540.1	470.7	208.4	160.4	112.4	94.4	85.4	77.9	73.5	73.5
55°	9971.3	6454.7	368.8	175.4	134.9	97.4	83.9	76.4	67.5	63.0	61.5
57.5°	10328.1	6180.3	281.8	145.4	109.4	80.9	73.5	64.5	54.0	46.5	46.5
60°	10507.9	5781.6	215.9	119.9	83.9	64.5	60.0	48.0	37.5	31.5	30.0
62.5°	10292.1	5252.5	163.4	94.4	63.0	48.0	40.5	34.5	24.0	18.0	18.0
63°	10158.7	5099.6	157.4	89.9	58.5	45.0	37.5	31.5	21.0	16.5	15.0
65°	9260.8	4432.5	128.9	72.0	46.5	31.5	25.5	22.5	15.0	7.5	6.0
67.5°	7354.1	3390.7	101.9	54.0	33.0	22.5	15.0	13.5	4.5	0.0	0.0
70°	4972.2	2190.0	79.4	39.0	22.5	13.5	7.5	6.0	1.5	0.0	0.0
72.5°	2593.3	1122.7	61.5	28.5	13.5	9.0	4.5	1.5	0.0	0.0	0.0
75°	917.4	382.2	45.0	18.0	9.0	4.5	1.5	0.0	0.0	0.0	0.0
77.5°	277.3	142.4	28.5	13.5	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	97.4	52.5	16.5	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	25.5	10.5	7.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.0	16.5	9.0	7.5	4.5	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	12.0	9.0	7.5	6.0	3.0	1.5	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)