

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: STREETWORKS

Report Number: P322247

Luminaire Tested: **GAN-SA3C-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3C-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA 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: 15736 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

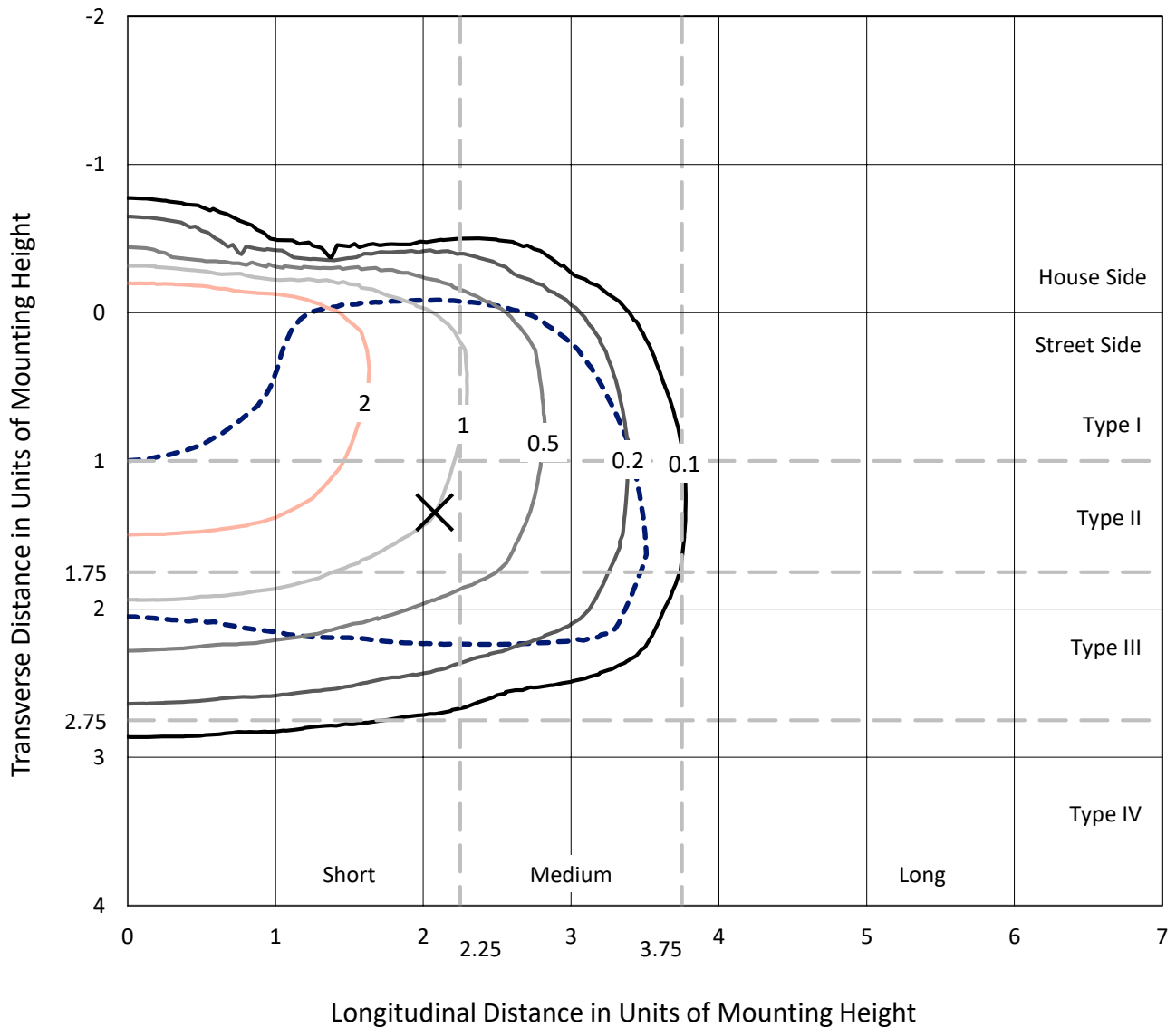
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

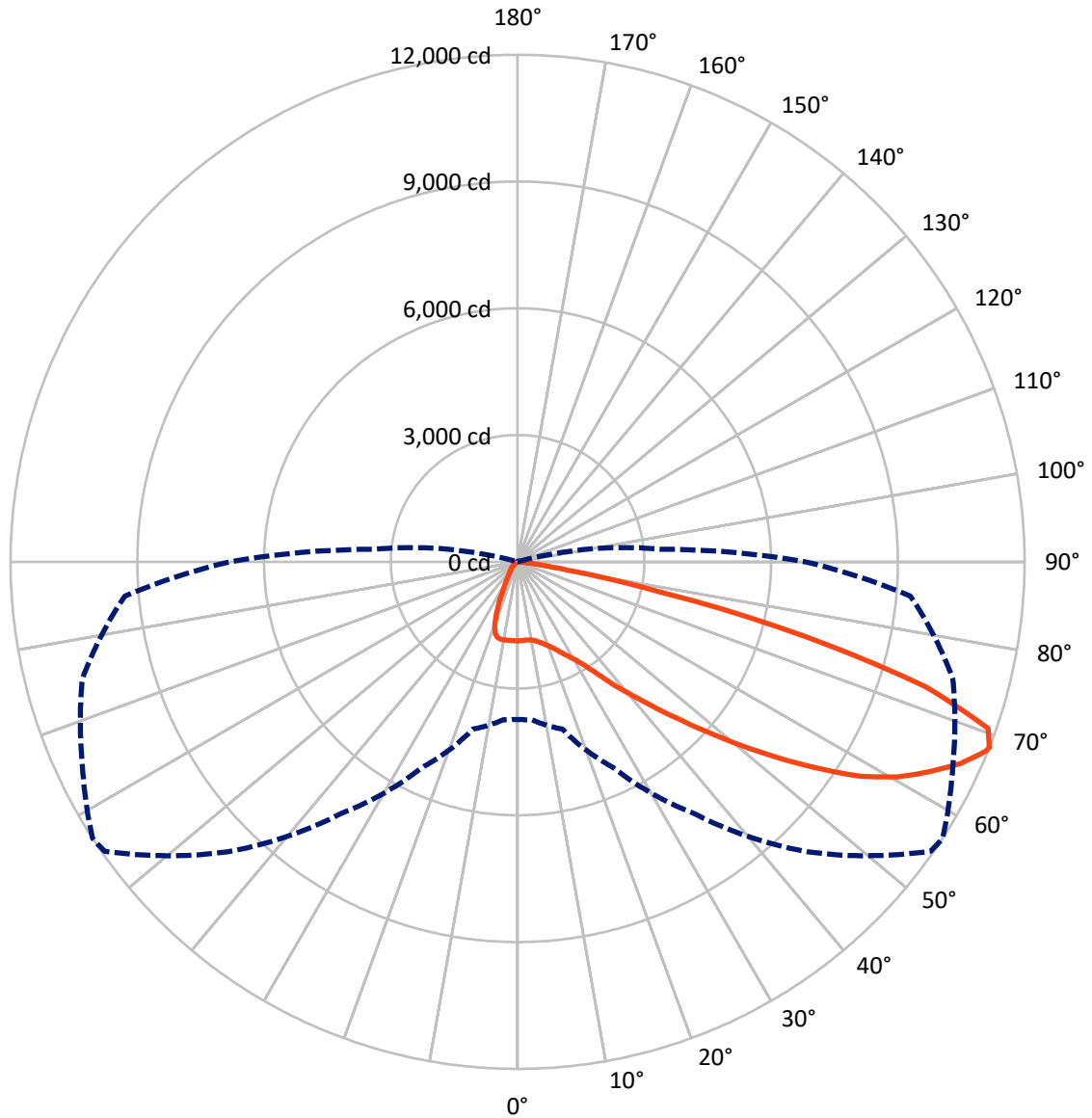
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P322247  
CATALOG NUMBER: GAN-SA3C-740-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P322247

CATALOG NUMBER: GAN-SA3C-740-U-T3-HSS

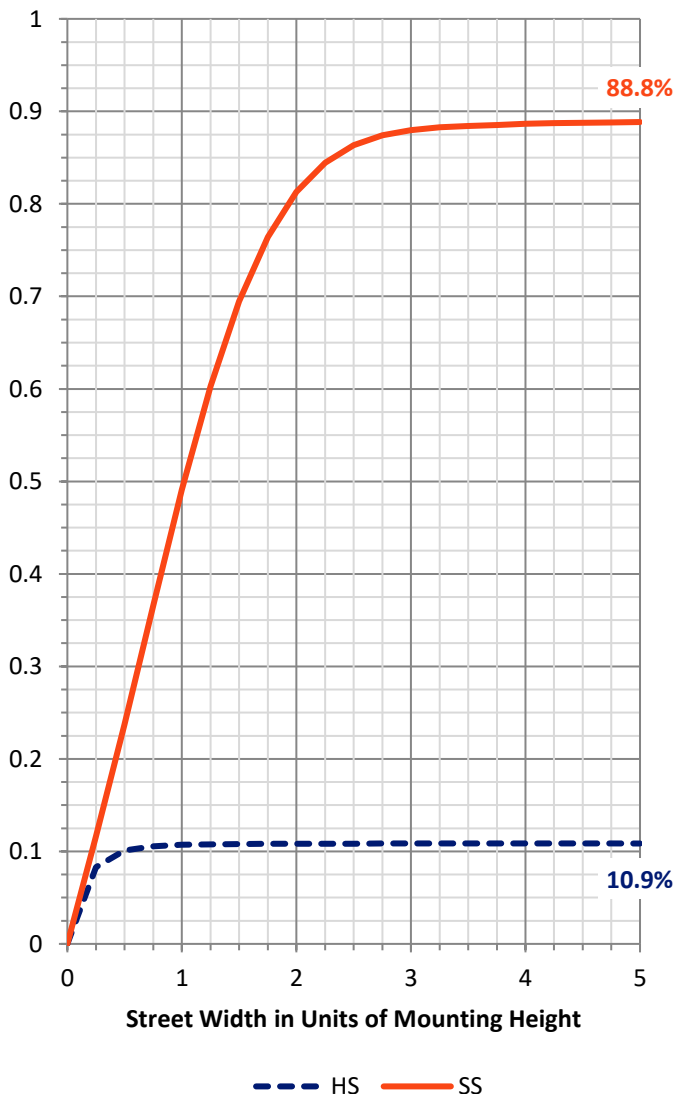
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1725.5	0.0	1725.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	14010.5	0.0	14010.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	15736.0	0.0	15736.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	1.1
10°-20°	484.9	3.1
20°-30°	836.5	5.3
30°-40°	1443.8	9.2
40°-50°	2469.6	15.7
50°-60°	3951.2	25.1
60°-70°	4565.2	29.0
70°-80°	1744.4	11.1
80°-90°	65.4	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°	15736.0	100.0
0°-180°	15736.0	100.0

**Coefficient of Utilization**



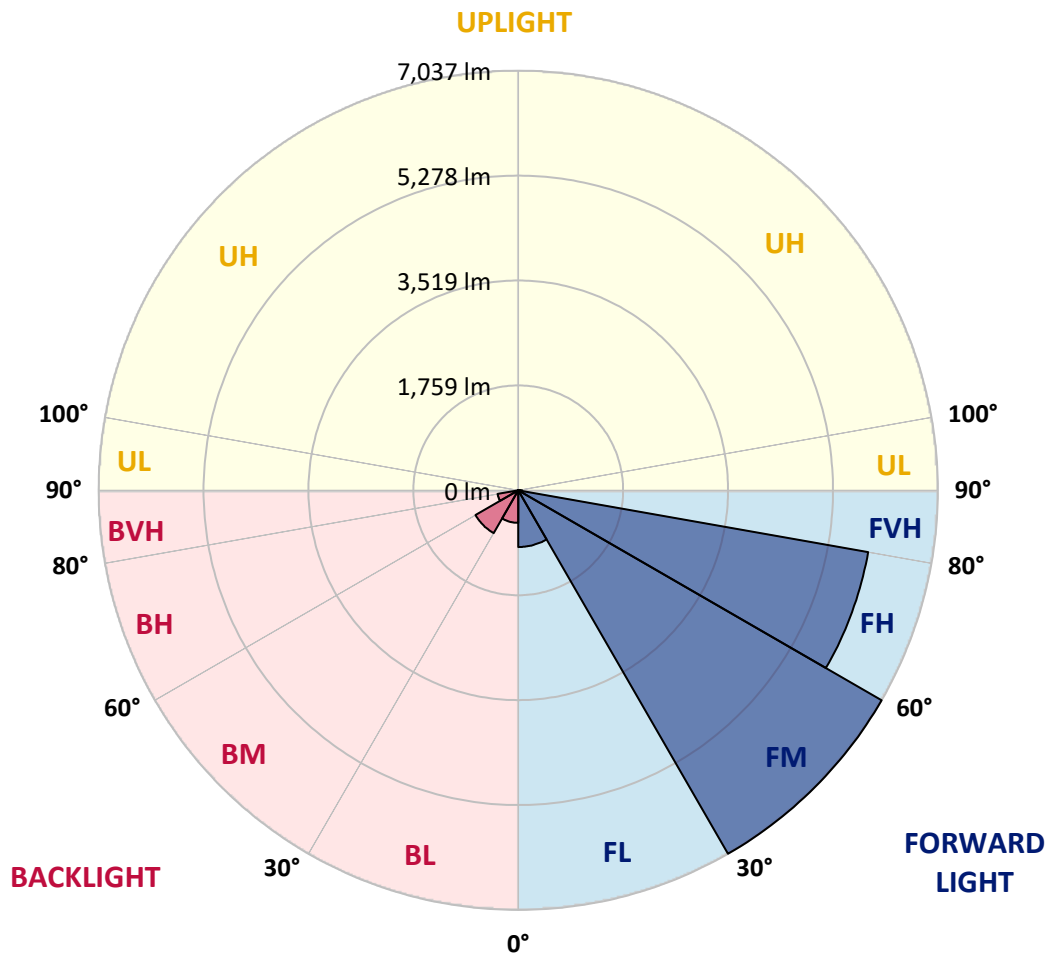
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 CATALOG NUMBER: GAN-SA3C-740-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.1	6.0			
FM (30°-60°)	7037.0	44.7			
FH (60°-80°)	5958.2	37.9			G3/7500
FVH (80°-90°)	64.2	0.4			G1/100
BL (0°-30°)	545.3	3.5	B2/1000		
BM (30°-60°)	827.6	5.3	B1/1000		
BH (60°-80°)	351.4	2.2	B1/500		G1/500
BVH (80°-90°)	1.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9
2.5°	1826.0	1834.1	1840.1	1843.8	1848.3	1857.9	1860.9	1865.4	1867.6	1867.6	1872.8
5°	1753.8	1762.7	1775.4	1785.8	1806.6	1833.4	1852.7	1860.2	1873.6	1885.5	1892.2
7.5°	1686.8	1697.2	1712.1	1736.7	1772.4	1815.5	1855.7	1866.1	1892.2	1917.5	1930.1
10°	1643.7	1651.8	1671.2	1706.2	1753.0	1813.3	1869.9	1882.5	1927.1	1969.6	1993.4
12.5°	1628.8	1636.2	1656.3	1695.7	1753.8	1824.5	1902.6	1921.2	1986.7	2048.4	2081.9
15°	1650.4	1651.8	1673.4	1710.6	1767.9	1852.0	1956.9	1979.2	2061.8	2142.2	2183.8
17.5°	1733.7	1727.0	1738.2	1754.5	1799.9	1888.5	2014.2	2047.7	2157.8	2252.3	2291.7
20°	1942.0	1942.0	1916.7	1872.1	1872.8	1945.0	2091.6	2129.5	2264.2	2373.6	2409.3
22.5°	2298.4	2291.7	2241.1	2131.8	2031.3	2042.5	2186.1	2235.2	2392.2	2509.0	2520.9
25°	2727.0	2718.8	2640.7	2486.7	2312.6	2200.2	2314.1	2370.6	2544.7	2648.2	2623.6
27.5°	3180.9	3174.2	3096.8	2905.6	2657.8	2451.7	2466.6	2520.2	2700.2	2802.2	2724.0
30°	3620.7	3622.9	3546.2	3349.8	3069.3	2772.4	2660.1	2691.3	2851.3	2954.7	2843.1
32.5°	4038.8	4041.8	3975.6	3756.1	3494.2	3145.2	2927.9	2919.7	3026.9	3128.8	3000.8
35°	4411.6	4419.0	4373.7	4203.3	3925.7	3560.4	3275.4	3256.1	3276.1	3391.5	3242.7
37.5°	4771.0	4775.5	4741.2	4597.6	4365.5	4016.5	3714.4	3686.9	3643.7	3732.3	3561.9
40°	5164.6	5153.4	5114.0	4983.8	4784.4	4520.2	4186.1	4138.5	4063.4	4142.2	3981.5
42.5°	5530.7	5518.0	5524.7	5377.4	5209.2	5038.1	4736.0	4654.2	4610.3	4701.0	4496.4
45°	5988.3	5981.6	6003.9	5875.9	5739.8	5615.5	5366.2	5277.0	5257.6	5364.0	5119.2
47.5°	6439.9	6456.3	6525.5	6471.2	6416.1	6306.8	6033.7	5993.5	6005.4	6134.1	5776.2
50°	6816.4	6835.8	7025.5	7088.0	7167.6	7103.7	6829.8	6805.3	6852.2	6968.2	6483.1
52.5°	7088.8	7128.2	7364.1	7652.0	7942.2	7985.4	7712.3	7690.0	7753.2	7771.1	7029.2
55°	7277.8	7312.7	7579.9	8106.7	8697.5	8883.5	8713.8	8627.5	8615.6	8439.3	7603.7
57.5°	7311.2	7307.5	7691.5	8400.6	9289.7	9769.7	9662.5	9577.7	9333.6	9056.8	8262.2
60°	7122.3	7143.8	7589.5	8502.5	9661.8	10440.1	10448.3	10338.1	9957.9	9657.3	8900.6
62.5°	6540.4	6628.2	7078.4	8235.4	9657.3	10710.2	11024.2	10940.1	10485.5	10149.1	9547.9
65°	5596.9	5628.2	6057.5	7320.2	9004.8	10597.1	11542.8	11511.5	10960.9	10626.8	9880.5
67.5°	4087.2	4019.5	4470.4	5764.3	7623.8	9937.8	11914.8	11954.3	11327.7	10725.0	9526.3
68°	3730.0	3750.1	4101.3	5379.6	7262.1	9704.9	11939.4	11999.6	11364.2	10661.1	9332.9
70°	2223.3	2262.0	2575.2	3704.0	5524.7	8387.2	11674.5	11812.1	11146.9	10001.1	8072.4
72.5°	567.7	613.9	910.0	1657.8	3155.6	5909.4	9855.2	10088.1	9678.1	8113.4	5449.6
75°	233.6	245.5	325.2	546.1	1175.6	2662.3	6495.7	6994.3	6709.3	4857.3	2462.9
77.5°	161.5	169.6	209.1	302.8	508.9	902.6	3184.6	3544.8	3193.6	1657.8	537.2
80°	116.1	122.8	149.6	201.6	292.4	322.2	1038.0	1200.2	953.2	363.9	133.2
82.5°	69.2	74.4	111.6	143.6	177.8	154.0	258.2	293.2	276.1	180.8	59.5
85°	34.2	40.2	75.2	102.7	96.0	64.7	78.9	87.8	108.6	110.1	32.0
87.5°	2.2	4.5	43.9	61.8	26.8	14.9	23.1	28.3	38.7	54.3	13.4
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°	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9	1869.9
2.5°	1875.1	1875.8	1870.6	1868.4	1869.9	1860.9	1857.2	1858.7	1858.7	1860.9	1857.2
5°	1893.7	1893.7	1884.7	1872.8	1866.1	1849.0	1837.9	1834.9	1832.6	1831.2	1828.2
7.5°	1933.8	1929.4	1913.8	1887.7	1865.4	1828.2	1799.9	1785.0	1777.6	1774.6	1772.4
10°	1998.6	1990.4	1964.3	1916.0	1864.6	1798.4	1736.7	1692.8	1656.3	1641.4	1632.5
12.5°	2085.6	2073.7	2029.8	1949.5	1859.4	1737.4	1603.5	1474.7	1355.0	1305.8	1281.3
15°	2186.1	2169.0	2099.8	1977.7	1828.9	1599.8	1308.8	1083.4	917.4	854.9	828.2
17.5°	2288.0	2265.7	2160.8	1995.6	1737.4	1314.8	918.2	693.5	582.6	552.8	542.4
20°	2390.7	2358.0	2213.6	1982.2	1530.6	947.9	605.7	506.7	474.7	465.8	462.8
22.5°	2488.2	2437.6	2261.2	1930.1	1212.1	636.2	479.2	447.9	437.5	432.3	430.8
25°	2573.0	2502.3	2302.9	1769.4	857.9	480.7	431.6	421.1	407.8	398.1	398.8
27.5°	2652.6	2567.0	2328.2	1504.5	572.2	410.7	399.6	385.4	360.9	346.7	346.7
30°	2748.6	2653.4	2346.8	1157.8	421.1	363.1	354.2	332.6	299.1	280.5	280.5
32.5°	2892.9	2784.3	2334.9	812.5	349.0	319.2	298.4	268.6	232.2	214.3	213.5
35°	3113.9	2986.7	2250.1	532.8	308.0	277.5	244.1	207.6	175.6	160.7	160.0
37.5°	3411.6	3257.5	2059.6	381.0	276.1	238.8	198.7	158.5	134.7	125.0	124.3
40°	3797.7	3572.3	1787.3	308.8	246.3	201.6	153.3	122.8	106.4	99.0	99.7
42.5°	4261.3	3909.4	1460.6	266.4	217.3	165.9	119.8	96.7	86.3	81.1	79.6
45°	4776.2	4242.0	1118.3	237.4	188.3	133.9	93.8	76.6	68.5	65.5	65.5
47.5°	5342.4	4565.6	818.5	212.1	157.0	103.4	75.2	62.5	55.8	53.6	52.8
50°	5856.6	4790.3	590.0	185.3	128.7	81.8	61.0	52.1	47.6	44.6	44.6
52.5°	6285.2	4861.0	434.5	156.3	104.2	65.5	50.6	44.6	40.2	37.9	37.9
55°	6662.4	4832.0	322.9	128.7	84.1	53.6	43.2	37.9	34.2	32.0	32.0
57.5°	7024.0	4738.2	241.1	104.9	67.7	43.2	36.5	32.0	28.3	26.8	26.8
60°	7319.4	4582.0	179.3	84.8	54.3	35.0	30.5	26.0	23.1	20.8	20.8
62.5°	7559.0	4409.4	131.7	69.9	43.2	27.5	23.8	21.6	17.1	14.9	14.9
65°	7560.5	4122.9	99.0	58.0	33.5	21.6	17.9	17.1	11.2	8.9	8.2
67.5°	7013.6	3554.4	75.9	49.9	26.0	16.4	13.4	14.1	6.0	3.7	3.0
68°	6815.0	3410.1	71.4	49.1	24.6	15.6	12.6	14.1	5.2	3.0	2.2
70°	5745.7	2712.9	57.3	47.6	21.6	11.9	10.4	14.1	4.5	2.2	1.5
72.5°	3675.0	1574.5	42.4	37.9	16.4	8.9	6.7	12.6	4.5	1.5	0.7
75°	1564.0	488.1	29.0	26.8	9.7	6.7	4.5	8.2	3.0	0.7	0.0
77.5°	329.6	110.1	17.1	16.4	6.7	4.5	3.0	2.2	0.7	0.0	0.0
80°	84.8	32.0	8.9	8.2	3.7	2.2	1.5	0.0	0.0	0.0	0.0
82.5°	26.8	12.6	5.2	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	7.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	2.2	0.7	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)