

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: P967863

Luminaire Tested: **NVN-SB5A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5A-827-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

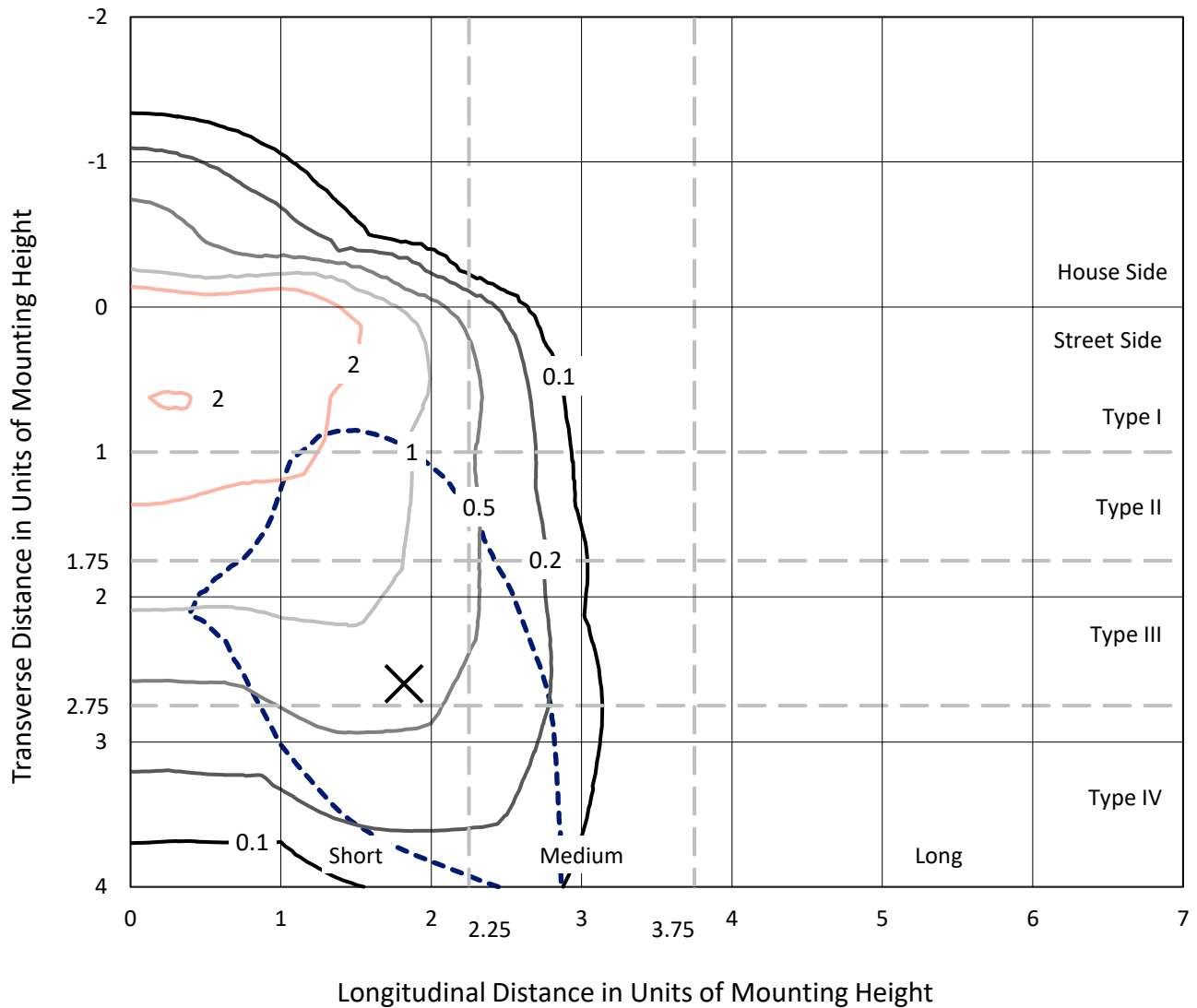
Lumens per Lamp: N/A  
Luminaire Lumens: 15292 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

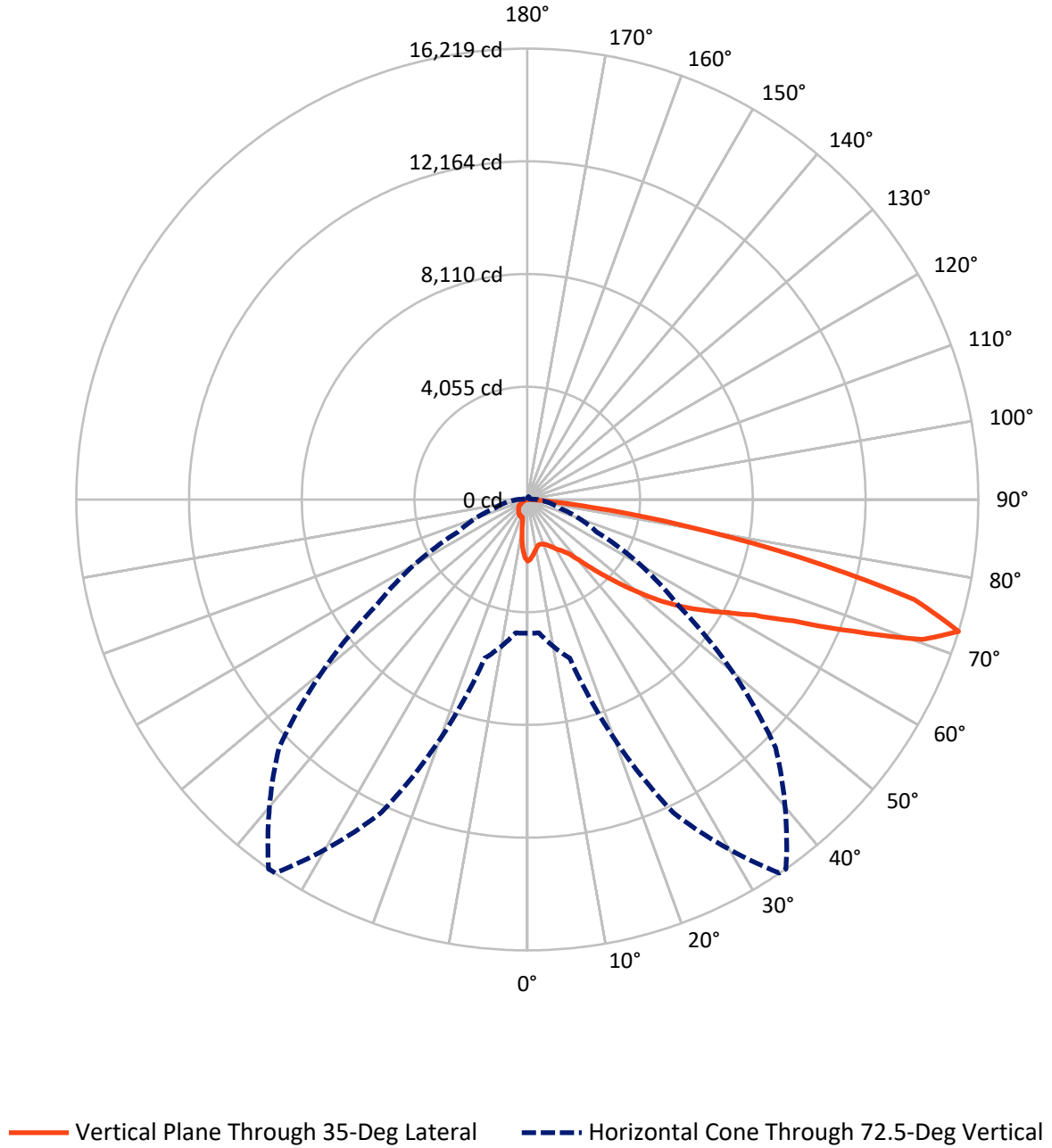
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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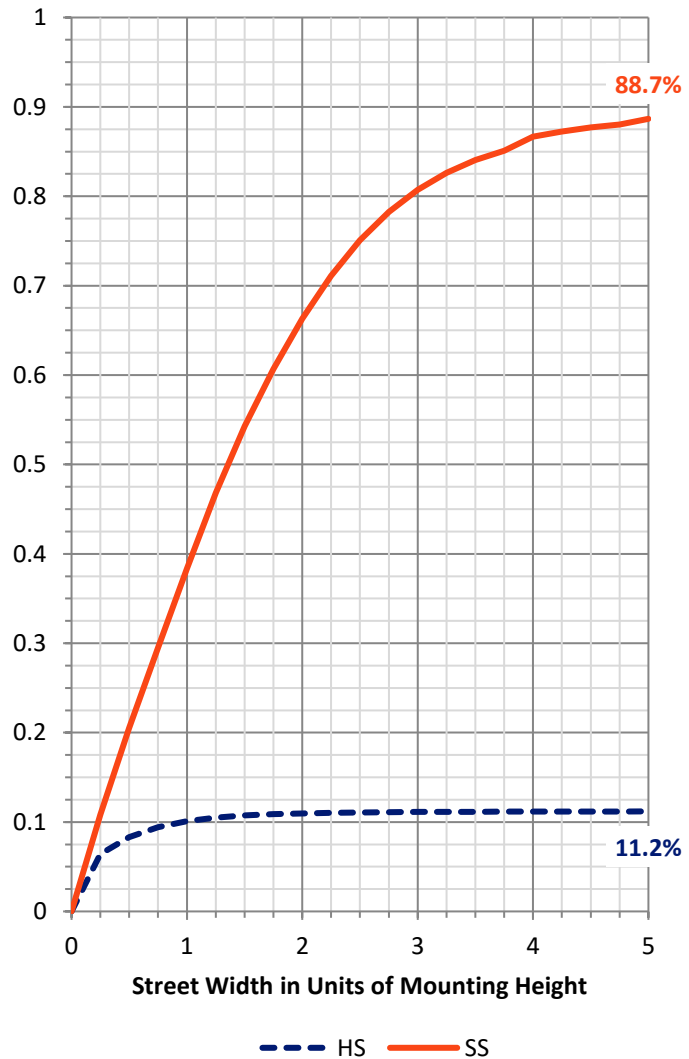
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1721.1	0.0	1721.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	13570.9	0.0	13570.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	15292.0	0.0	15292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	1.2
10°-20°	426.1	2.8
20°-30°	692.1	4.5
30°-40°	1154.8	7.6
40°-50°	2184.9	14.3
50°-60°	3471.8	22.7
60°-70°	4294.8	28.1
70°-80°	2669.7	17.5
80°-90°	215.8	1.4
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°	15292.0	100.0
0°-180°	15292.0	100.0

**Coefficient of Utilization**



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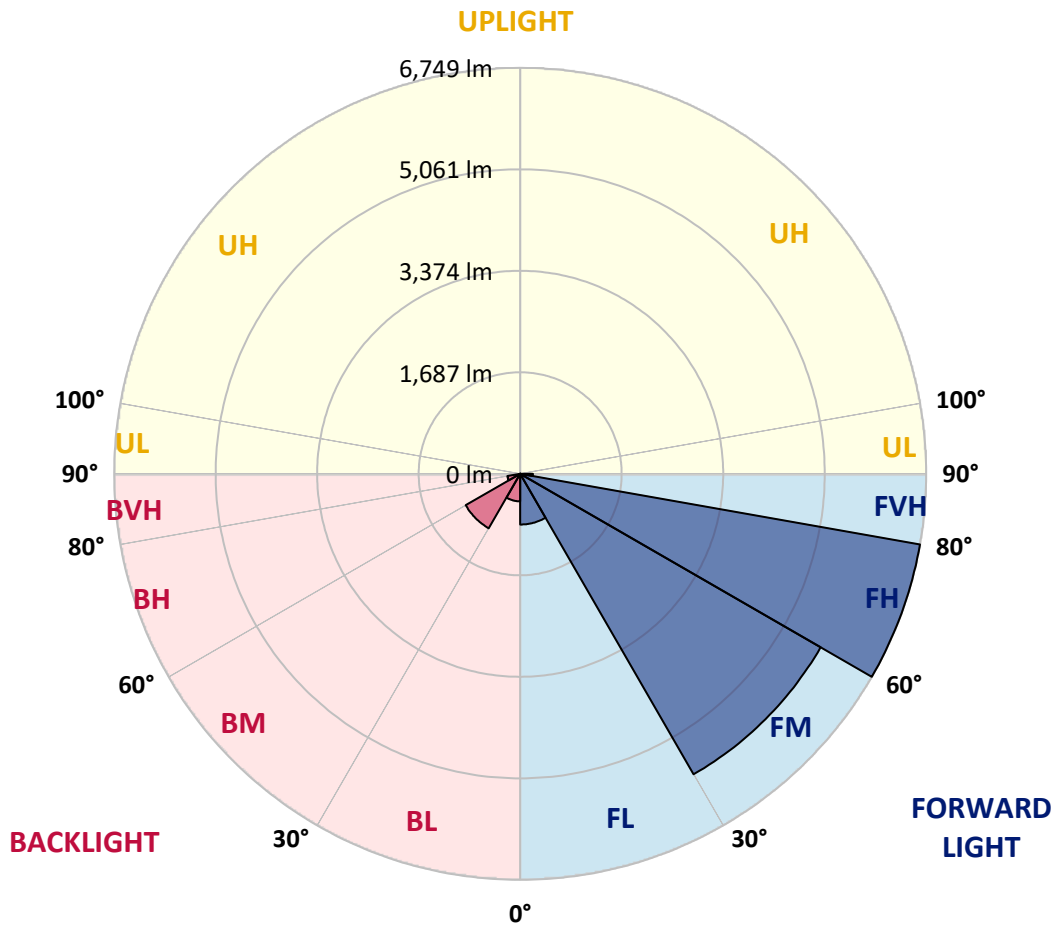
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.0	5.5			
FM (30°-60°)	5766.6	37.7			
FH (60°-80°)	6748.5	44.1			G3/7500
FVH (80°-90°)	212.8	1.4			G2/225
BL (0°-30°)	457.3	3.0	B1/500		
BM (30°-60°)	1044.8	6.8	B2/2500		
BH (60°-80°)	216.0	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2117.8	2135.7	2139.0	2144.6	2144.6	2151.4	2162.5	2178.2	2204.0	2217.5	2226.4
5°	1951.9	1965.3	1982.1	1995.6	2021.4	2024.7	2068.4	2111.0	2170.3	2215.2	2246.6
7.5°	1784.9	1800.6	1823.1	1855.6	1889.2	1899.2	1965.3	2037.1	2131.2	2215.2	2267.8
10°	1667.3	1668.4	1688.6	1721.1	1774.9	1787.2	1867.9	1969.8	2087.5	2201.8	2288.0
12.5°	1601.2	1609.0	1618.0	1642.7	1694.2	1702.0	1788.3	1908.1	2043.7	2193.9	2311.6
15°	1601.2	1606.8	1612.4	1624.7	1666.1	1672.9	1749.1	1869.0	2021.4	2197.3	2349.6
17.5°	1618.0	1627.0	1622.5	1637.0	1680.7	1685.2	1752.4	1857.8	2020.3	2218.5	2407.9
20°	1658.3	1665.0	1656.1	1665.0	1708.8	1717.7	1787.2	1879.0	2039.2	2255.5	2480.7
22.5°	1722.2	1725.6	1704.3	1710.9	1755.8	1767.0	1847.7	1939.6	2085.3	2315.0	2578.3
25°	1802.9	1809.5	1777.0	1784.9	1827.5	1841.0	1934.0	2030.3	2158.0	2396.8	2702.6
27.5°	1895.8	1899.2	1871.2	1870.1	1925.0	1944.0	2038.2	2142.4	2255.5	2499.8	2859.4
30°	2002.3	2012.4	1985.5	1981.0	2050.5	2066.2	2159.2	2280.2	2398.9	2654.4	3082.5
32.5°	2086.4	2094.2	2078.5	2089.7	2160.3	2172.6	2305.9	2475.2	2624.2	2874.0	3386.1
35°	2207.3	2211.8	2176.0	2196.2	2276.8	2308.2	2506.5	2748.5	2907.6	3149.7	3782.8
37.5°	2645.4	2645.4	2493.1	2393.4	2470.7	2498.6	2781.0	3092.5	3257.2	3519.4	4282.4
40°	3251.6	3241.6	3018.6	2814.6	2804.6	2859.4	3172.1	3526.2	3708.8	3963.2	4845.0
42.5°	3898.2	3882.5	3578.8	3377.2	3343.6	3362.6	3623.7	4060.6	4246.7	4504.4	5450.0
45°	4471.9	4467.4	4189.5	3918.4	3857.8	3918.4	4187.2	4685.9	4819.2	5090.4	6054.0
47.5°	4952.6	4952.6	4749.7	4572.7	4541.4	4577.1	4950.3	5379.4	5367.1	5714.5	6642.2
50°	5506.1	5501.6	5308.9	5232.6	5265.1	5315.5	5828.8	6110.0	5934.1	6327.4	7167.7
52.5°	5893.7	5920.6	5854.5	5842.2	6008.0	6095.5	6720.7	6824.9	6441.7	6908.9	7561.0
55°	6200.7	6232.1	6308.4	6394.6	6714.0	6828.2	7584.6	7502.8	6866.4	7413.1	7787.3
57.5°	6635.5	6590.6	6708.3	6878.7	7395.2	7533.0	8421.6	8142.6	7208.1	7822.1	7812.0
60°	7163.2	7170.0	7190.2	7405.3	8075.4	8252.4	9246.2	8747.7	7427.7	8073.1	7538.7
62.5°	7797.5	7807.5	7849.0	8179.5	8988.5	9155.5	10124.7	9242.8	7528.5	8002.5	6832.8
65°	7753.7	7796.4	8259.1	9389.7	10376.8	10541.5	11149.9	9590.2	7376.1	7357.1	5563.2
67.5°	7063.6	7133.0	7907.3	10835.1	12469.8	12653.6	12389.2	9658.6	6718.5	5721.2	3629.2
70°	6158.2	6182.8	7113.9	12134.9	14893.5	15079.5	13498.5	8906.7	5098.2	3191.1	1625.9
72.5°	4809.1	4814.7	5907.2	12436.2	16208.9	16219.0	12627.9	6612.0	2741.9	1225.8	564.8
75°	3435.4	3401.8	3956.4	10085.5	14260.4	14374.7	9467.0	3101.5	1047.7	579.3	281.3
77.5°	1842.0	1879.0	2238.7	5981.2	9851.3	10046.2	5165.5	894.1	533.3	394.4	186.0
80°	569.2	600.5	917.7	2738.5	5580.0	5697.7	1914.9	397.8	372.0	281.3	122.2
82.5°	179.3	186.0	428.0	1150.8	2316.1	2369.8	554.6	225.2	254.3	186.0	71.8
85°	51.6	52.7	190.4	429.2	572.6	583.7	155.7	87.4	145.7	115.4	37.0
87.5°	5.6	17.9	71.8	71.8	50.4	49.3	16.8	19.1	41.4	14.6	6.8
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°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2220.8	2221.9	2207.3	2182.7	2155.8	2133.4	2105.4	2083.0	2067.3	2062.8	2070.7
5°	2236.4	2228.7	2187.1	2112.1	2022.4	1945.1	1858.8	1790.6	1745.7	1726.7	1733.4
7.5°	2260.0	2237.6	2146.9	1999.0	1827.5	1675.2	1520.5	1400.6	1324.4	1286.3	1291.9
10°	2280.2	2235.3	2079.6	1835.4	1573.2	1342.3	1134.0	989.4	908.7	870.6	871.8
12.5°	2299.3	2234.3	1992.2	1641.5	1286.3	1004.0	810.2	738.4	716.0	708.2	705.9
15°	2335.1	2237.6	1882.4	1419.6	1000.6	758.6	688.0	686.9	691.4	689.1	688.0
17.5°	2384.4	2241.0	1758.1	1184.4	772.0	668.9	665.5	675.7	682.3	679.1	677.9
20°	2448.2	2254.4	1625.9	951.3	663.3	646.6	654.4	663.3	668.9	663.3	662.3
22.5°	2537.9	2278.0	1481.3	764.1	628.6	633.0	639.8	649.8	655.5	647.6	646.6
25°	2647.7	2315.0	1339.0	664.4	611.8	617.4	627.5	638.7	645.4	637.6	636.4
27.5°	2790.0	2374.3	1207.9	642.1	595.0	598.3	612.9	629.8	638.7	628.6	628.6
30°	2996.2	2471.8	1094.7	652.1	584.9	577.1	597.3	620.7	630.8	621.9	620.7
32.5°	3269.5	2609.6	1025.2	667.8	580.5	552.4	571.4	601.7	618.5	612.9	612.9
35°	3628.1	2819.2	998.4	685.7	577.1	526.6	540.1	572.6	601.7	607.3	607.3
37.5°	4062.9	3110.5	1006.2	693.6	566.9	505.3	512.1	540.1	578.2	596.1	600.5
40°	4557.0	3449.9	1051.0	685.7	555.8	487.4	488.5	509.8	543.5	570.3	579.3
42.5°	5066.9	3846.6	1134.0	656.6	545.7	471.7	468.3	483.0	505.3	524.4	532.2
45°	5552.0	4254.5	1215.8	616.2	533.3	456.0	448.2	453.8	458.3	466.2	470.6
47.5°	5975.5	4541.4	1192.2	579.3	516.5	438.1	424.7	422.4	409.0	407.8	406.7
50°	6268.0	4604.1	1058.8	542.3	491.9	417.9	396.7	383.2	359.7	348.5	349.6
52.5°	6360.9	4356.5	865.0	505.3	451.5	391.0	360.8	339.5	310.4	300.3	299.2
55°	6237.7	3871.3	691.4	460.5	395.5	355.2	321.5	293.6	270.1	257.7	257.7
57.5°	5936.3	3253.9	546.8	407.8	336.1	314.9	281.3	253.3	233.1	220.8	218.5
60°	5436.6	2583.8	432.6	345.1	286.8	271.1	236.5	218.5	200.6	186.0	182.7
62.5°	4678.0	1844.3	339.5	273.4	239.7	221.8	201.7	188.3	167.0	146.8	143.4
65°	3650.5	1128.3	262.2	200.6	192.7	183.8	171.5	159.1	133.4	113.2	109.8
67.5°	2302.6	534.4	187.2	151.3	152.4	147.9	142.3	132.2	113.2	95.2	93.0
70°	1014.0	258.8	123.2	115.4	113.2	113.2	117.7	114.3	96.4	79.5	76.2
72.5°	345.1	139.0	91.8	87.4	81.8	80.7	98.6	95.2	77.3	61.6	58.2
75°	180.4	93.0	67.2	62.7	49.3	59.3	78.4	73.9	54.9	40.4	37.0
77.5°	117.7	66.1	45.9	40.4	28.0	39.3	58.2	51.6	32.5	20.2	17.9
80°	73.9	43.7	26.9	19.1	13.4	21.3	31.4	22.4	12.3	4.5	3.4
82.5°	39.3	22.4	10.0	6.8	5.6	6.8	7.9	5.6	2.3	0.0	0.0
85°	15.7	7.9	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0	0.0
87.5°	5.6	1.1	0.0	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)