

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: P233937

Luminaire Tested: **VERD-G-C028-D-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C028-D-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12550 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 103  
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: 28.75 FT

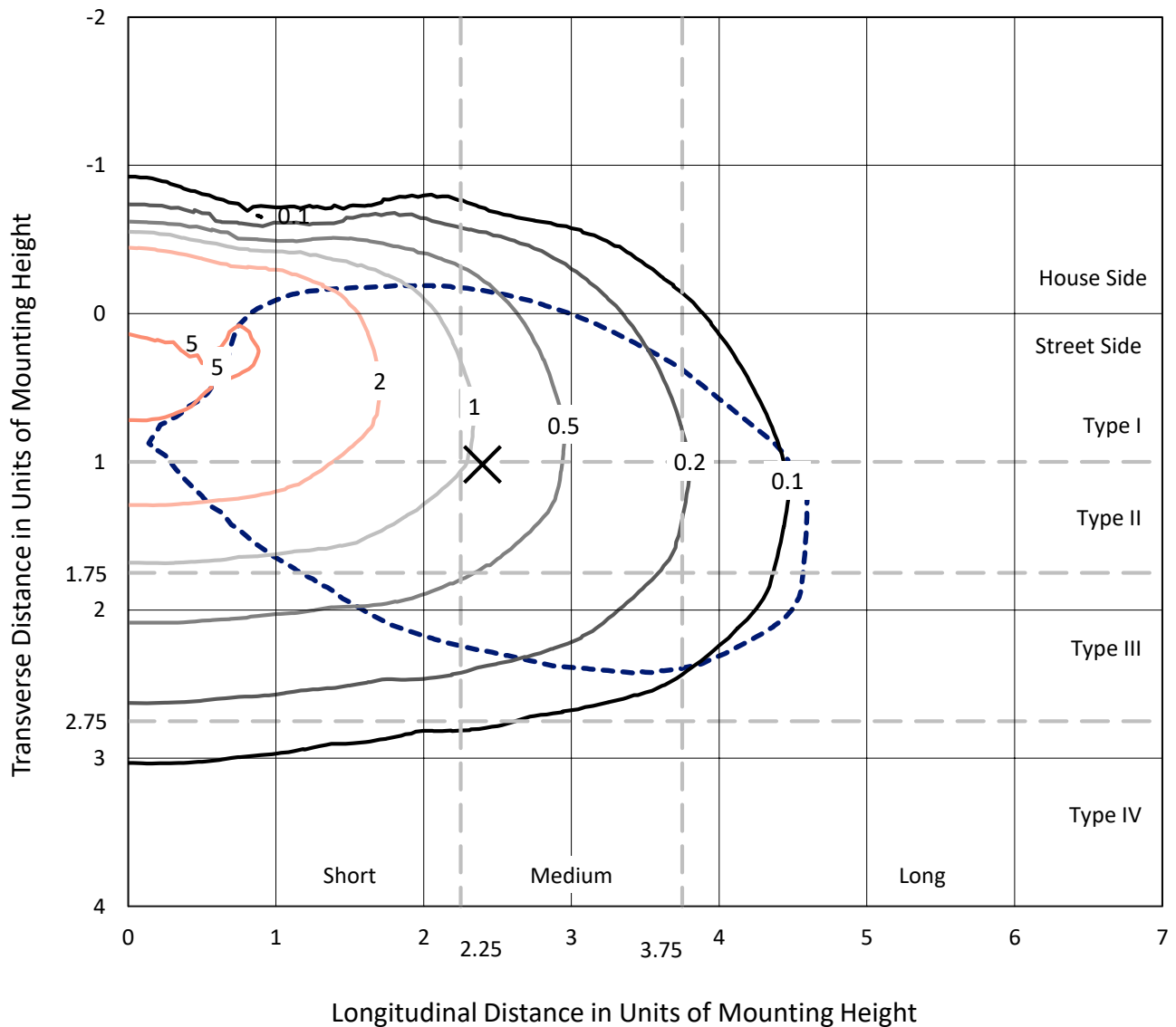


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

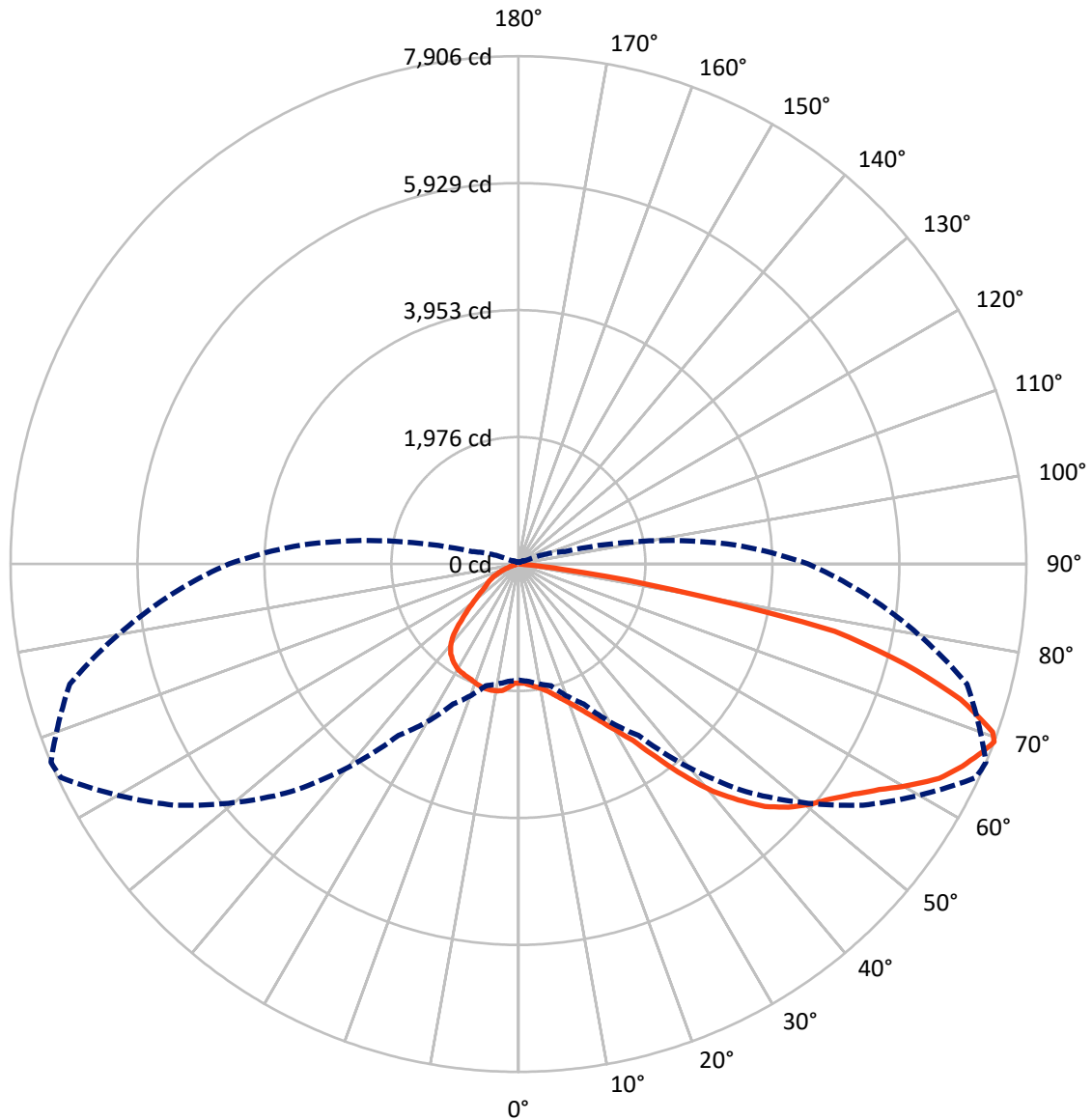


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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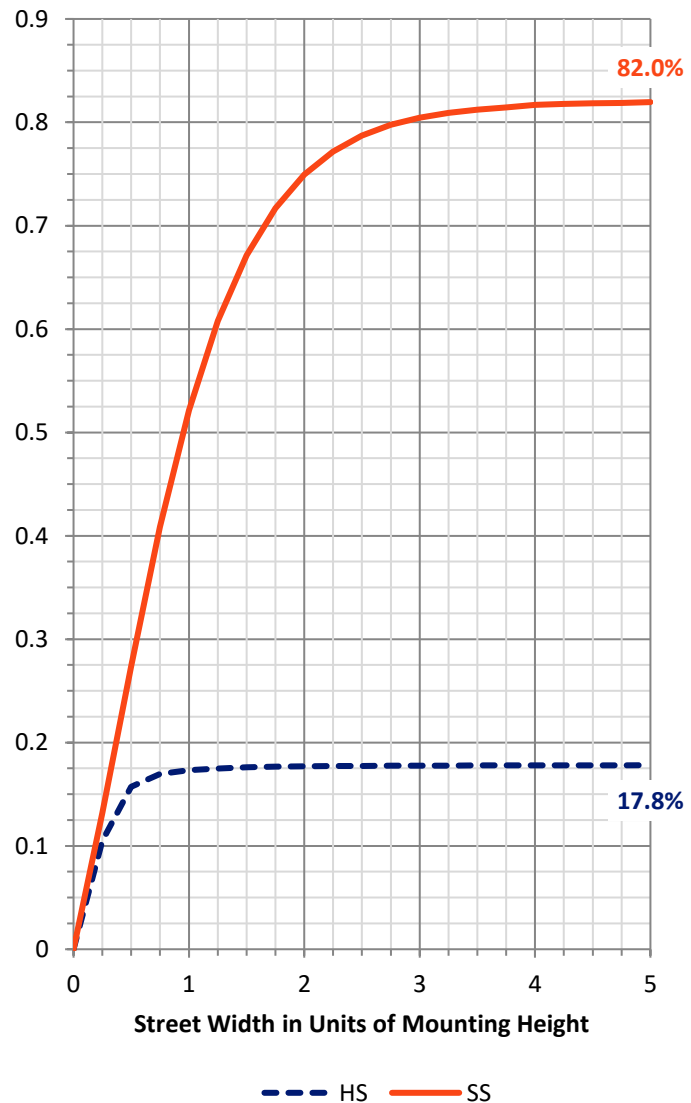
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2262.4	0.0	2262.4
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	10287.6	0.0	10287.6
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	12550.0	0.0	12550.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	1.5
10°-20°	589.2	4.7
20°-30°	1005.6	8.0
30°-40°	1520.5	12.1
40°-50°	2148.0	17.1
50°-60°	2595.9	20.7
60°-70°	2739.2	21.8
70°-80°	1649.0	13.1
80°-90°	115.3	0.9
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°	12550.0	100.0
0°-180°	12550.0	100.0



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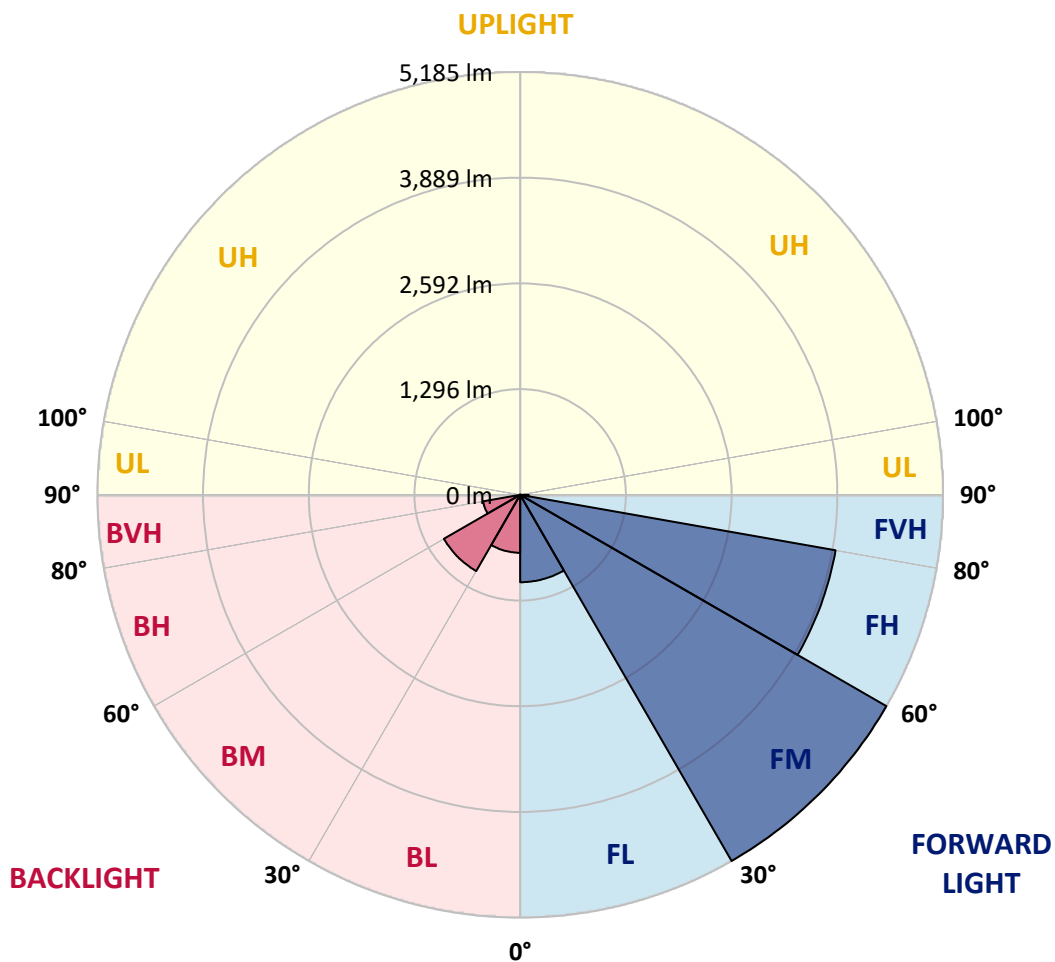
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.6	8.5			
FM	(30°-60°)	5185.0	41.3			
FH	(60°-80°)	3926.9	31.3			G2/5000
FVH	(80°-90°)	104.1	0.8			G2/225
BL	(0°-30°)	710.5	5.7	B2/1000		
BM	(30°-60°)	1079.5	8.6	B2/2500		
BH	(60°-80°)	461.2	3.7	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0
2.5°	1904.0	1901.0	1901.0	1884.0	1868.0	1864.0	1863.0	1858.0	1859.0	1852.0	1845.0
5°	1959.0	1959.0	1957.0	1935.0	1918.0	1907.0	1900.0	1891.0	1892.0	1887.0	1881.0
7.5°	2042.0	2043.0	2039.0	2010.0	1993.0	1966.0	1950.0	1933.0	1932.0	1926.0	1928.0
10°	2143.9	2146.9	2140.9	2103.9	2075.0	2038.0	2004.0	1974.0	1972.0	1965.0	1971.0
12.5°	2258.9	2262.9	2247.9	2209.9	2176.9	2118.9	2078.0	2038.0	2032.0	2031.0	2035.0
15°	2390.9	2392.9	2387.9	2331.9	2291.9	2238.9	2171.9	2120.9	2114.9	2115.9	2110.9
17.5°	2537.9	2542.9	2531.9	2481.9	2428.9	2355.9	2275.9	2212.9	2209.9	2206.9	2184.9
20°	2693.9	2698.9	2691.9	2644.9	2581.9	2489.9	2391.9	2319.9	2318.9	2311.9	2260.9
22.5°	2869.9	2876.9	2872.9	2815.9	2748.9	2648.9	2526.9	2451.9	2449.9	2427.9	2350.9
25°	3060.9	3058.9	3062.9	3001.9	2938.9	2833.9	2682.9	2604.9	2604.9	2577.9	2463.9
27.5°	3245.9	3244.9	3251.9	3208.9	3142.9	3043.9	2861.9	2782.9	2789.9	2750.9	2599.9
30°	3425.9	3425.9	3442.9	3414.9	3365.9	3261.9	3083.9	3000.9	3009.9	2968.9	2771.9
32.5°	3593.9	3601.9	3630.9	3613.9	3576.9	3482.9	3330.9	3254.9	3275.9	3292.9	3091.9
35°	3717.9	3725.9	3792.9	3798.9	3789.9	3726.9	3613.9	3662.9	3687.9	3821.9	3597.9
37.5°	3826.9	3836.9	3916.9	3966.9	3995.9	3956.9	3963.9	4127.9	4174.9	4332.9	4029.9
40°	3906.9	3928.9	4007.9	4076.9	4178.9	4224.9	4338.9	4571.9	4647.9	4710.9	4326.9
42.5°	3851.9	3866.9	4005.9	4190.9	4339.9	4501.9	4686.9	4963.9	5020.9	5000.9	4588.9
45°	3770.9	3788.9	3934.9	4220.9	4467.9	4790.9	5016.9	5316.9	5381.9	5270.9	4814.9
47.5°	3679.9	3704.9	3862.9	4180.9	4574.9	5056.9	5315.9	5619.9	5657.9	5511.9	5004.9
50°	3587.9	3615.9	3794.9	4147.9	4657.9	5278.9	5533.9	5866.9	5877.9	5711.9	5175.9
52.5°	3463.9	3492.9	3688.9	4078.9	4715.9	5424.9	5724.9	6069.9	6076.9	5927.9	5337.9
55°	3306.9	3343.9	3550.9	3976.9	4729.9	5509.9	5845.9	6280.9	6327.8	6161.9	5470.9
57.5°	3121.9	3155.9	3383.9	3829.9	4659.9	5538.9	6014.9	6559.8	6624.8	6398.8	5580.9
60°	2908.9	2947.9	3176.9	3639.9	4518.9	5619.9	6294.8	6953.8	6992.8	6646.8	5677.9
62.5°	2690.9	2718.9	2926.9	3372.9	4298.9	5668.9	6542.8	7323.8	7349.8	6885.8	5735.9
65°	2380.9	2415.9	2618.9	3066.9	3981.9	5574.9	6637.8	7576.8	7592.8	7085.8	5707.9
67.5°	2044.0	2072.0	2219.9	2697.9	3565.9	5276.9	6598.8	7745.8	7796.8	7241.8	5580.9
69°	1805.0	1833.0	1961.0	2402.9	3256.9	5012.9	6543.8	7860.8	7905.8	7230.8	5418.9
70°	1619.0	1647.0	1768.0	2182.9	3014.9	4789.9	6456.8	7802.8	7831.8	7107.8	5260.9
72.5°	1158.0	1186.0	1285.0	1535.0	2283.9	3936.9	5917.9	7158.8	7197.8	6516.8	4701.9
75°	606.0	673.0	851.0	992.0	1353.0	2771.9	4919.9	6156.9	6213.9	5718.9	3866.9
77.5°	78.0	82.0	240.0	403.0	559.0	1169.0	3494.9	4943.9	5033.9	4576.9	2673.9
80°	63.0	64.0	83.0	201.0	278.0	474.0	1240.0	2313.9	2422.9	2034.0	983.0
82.5°	44.0	46.0	65.0	106.0	91.0	173.0	431.0	654.0	674.0	583.0	392.0
85°	25.0	25.0	31.0	41.0	29.0	65.0	89.0	95.0	85.0	84.0	63.0
87.5°	7.0	8.0	9.0	7.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0
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°	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0
2.5°	1856.0	1854.0	1855.0	1859.0	1865.0	1887.0	1902.0	1904.0	1911.0	1937.0	1934.0
5°	1888.0	1900.0	1907.0	1928.0	1942.0	1972.0	1990.0	1992.0	2002.0	2029.0	2030.0
7.5°	1933.0	1953.0	1963.0	1987.0	1992.0	2006.0	2011.0	2006.0	2007.0	2031.0	2033.0
10°	1972.0	1997.0	1997.0	2003.0	1994.0	1995.0	1979.0	1964.0	1956.0	1977.0	1982.0
12.5°	2032.0	2039.0	2023.0	2005.0	1978.0	1954.0	1927.0	1903.0	1884.0	1896.0	1889.0
15°	2094.0	2083.0	2044.0	1997.0	1949.0	1908.0	1852.0	1817.0	1784.0	1791.0	1785.0
17.5°	2155.9	2119.9	2059.0	1981.0	1911.0	1833.0	1755.0	1700.0	1640.0	1635.0	1626.0
20°	2215.9	2163.9	2063.0	1948.0	1850.0	1740.0	1619.0	1525.0	1436.0	1413.0	1398.0
22.5°	2287.9	2212.9	2068.0	1916.0	1784.0	1634.0	1451.0	1305.0	1209.0	1177.0	1162.0
25°	2379.9	2280.9	2082.0	1892.0	1717.0	1503.0	1252.0	1085.0	981.0	926.0	921.0
27.5°	2488.9	2362.9	2105.9	1861.0	1622.0	1328.0	1046.0	872.0	761.0	705.0	687.0
30°	2631.9	2464.9	2127.9	1837.0	1488.0	1137.0	830.0	636.0	504.0	468.0	449.0
32.5°	2902.9	2630.9	2155.9	1781.0	1330.0	928.0	588.0	392.0	302.0	278.0	278.0
35°	3343.9	2995.9	2225.9	1704.0	1140.0	676.0	353.0	220.0	180.0	166.0	159.0
37.5°	3741.9	3363.9	2400.9	1585.0	909.0	400.0	202.0	136.0	123.0	125.0	125.0
40°	4022.9	3615.9	2593.9	1424.0	617.0	214.0	128.0	109.0	111.0	112.0	112.0
42.5°	4263.9	3830.9	2699.9	1233.0	336.0	139.0	110.0	99.0	102.0	101.0	100.0
45°	4465.9	4005.9	2734.9	970.0	163.0	123.0	100.0	91.0	91.0	90.0	90.0
47.5°	4638.9	4160.9	2669.9	721.0	132.0	113.0	95.0	84.0	83.0	88.0	88.0
50°	4796.9	4280.9	2507.9	546.0	128.0	104.0	90.0	78.0	79.0	86.0	86.0
52.5°	4928.9	4351.9	2267.9	409.0	119.0	96.0	83.0	73.0	73.0	80.0	80.0
55°	5026.9	4351.9	2085.0	306.0	114.0	88.0	77.0	70.0	66.0	68.0	69.0
57.5°	5075.9	4269.9	1938.0	248.0	108.0	80.0	71.0	61.0	54.0	56.0	55.0
60°	5062.9	4222.9	1769.0	221.0	101.0	74.0	63.0	52.0	45.0	43.0	43.0
62.5°	5038.9	4169.9	1558.0	192.0	94.0	69.0	52.0	42.0	38.0	36.0	37.0
65°	4947.9	3997.9	1291.0	160.0	87.0	67.0	44.0	37.0	33.0	31.0	31.0
67.5°	4727.9	3687.9	976.0	135.0	81.0	54.0	38.0	32.0	28.0	26.0	26.0
69°	4509.9	3391.9	749.0	123.0	77.0	49.0	35.0	29.0	26.0	23.0	23.0
70°	4321.9	3162.9	587.0	115.0	74.0	47.0	34.0	28.0	25.0	22.0	22.0
72.5°	3679.9	2508.9	298.0	100.0	62.0	41.0	30.0	25.0	21.0	18.0	18.0
75°	2854.9	1729.0	197.0	79.0	48.0	37.0	27.0	22.0	18.0	15.0	14.0
77.5°	1718.0	676.0	141.0	51.0	31.0	29.0	22.0	18.0	15.0	12.0	12.0
80°	474.0	290.0	95.0	34.0	18.0	19.0	16.0	13.0	11.0	9.0	9.0
82.5°	285.0	188.0	63.0	22.0	12.0	12.0	9.0	9.0	7.0	7.0	7.0
85°	49.0	38.0	15.0	9.0	7.0	7.0	5.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	4.0	4.0	3.0	2.0	1.0	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)