

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: P233750

Luminaire Tested: **VERD-C02H8-D-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233750  
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-C02H8-D-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12868 lumens  
Efficiency: N/A  
Efficacy: 117.0 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): 110  
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

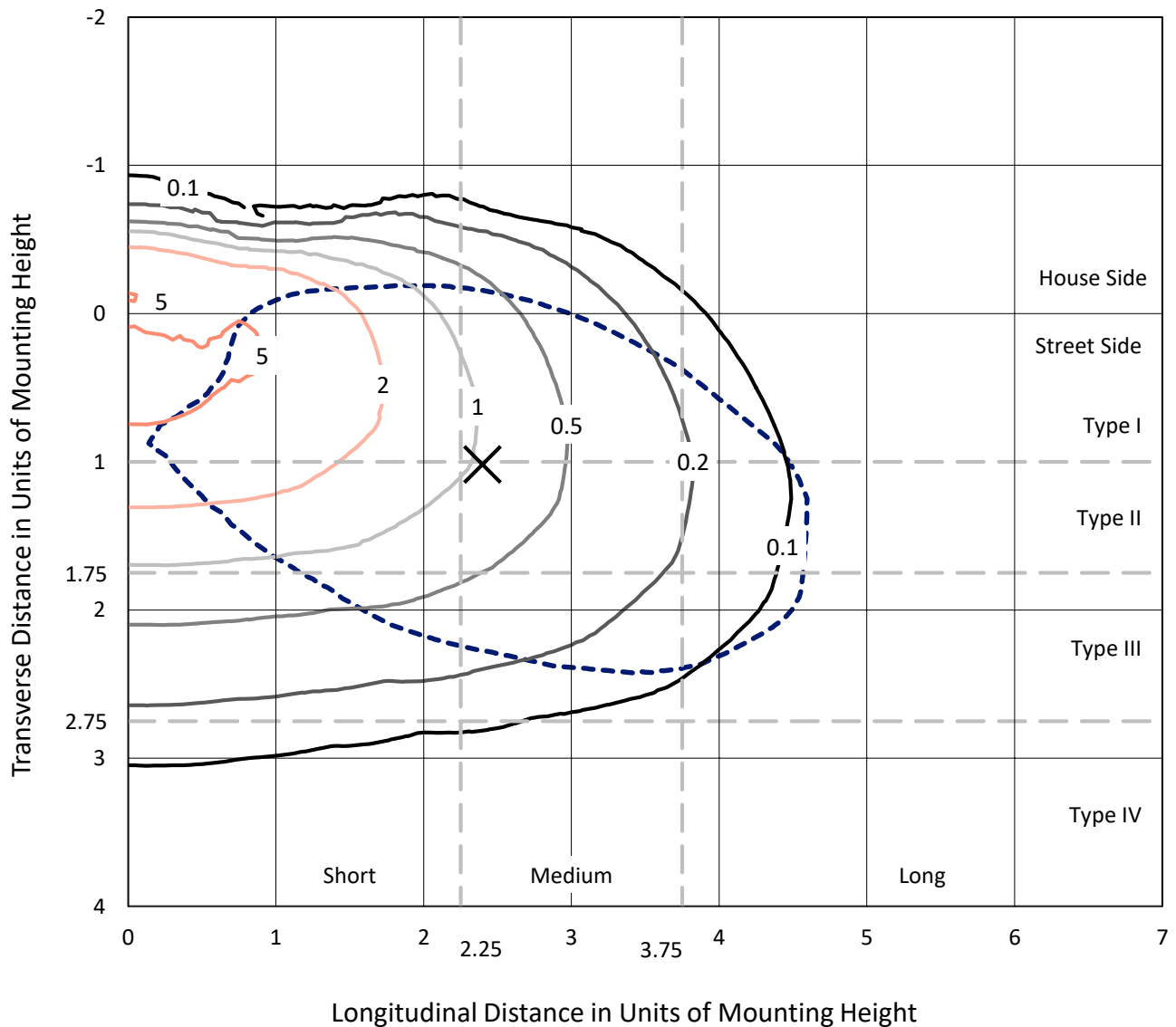


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

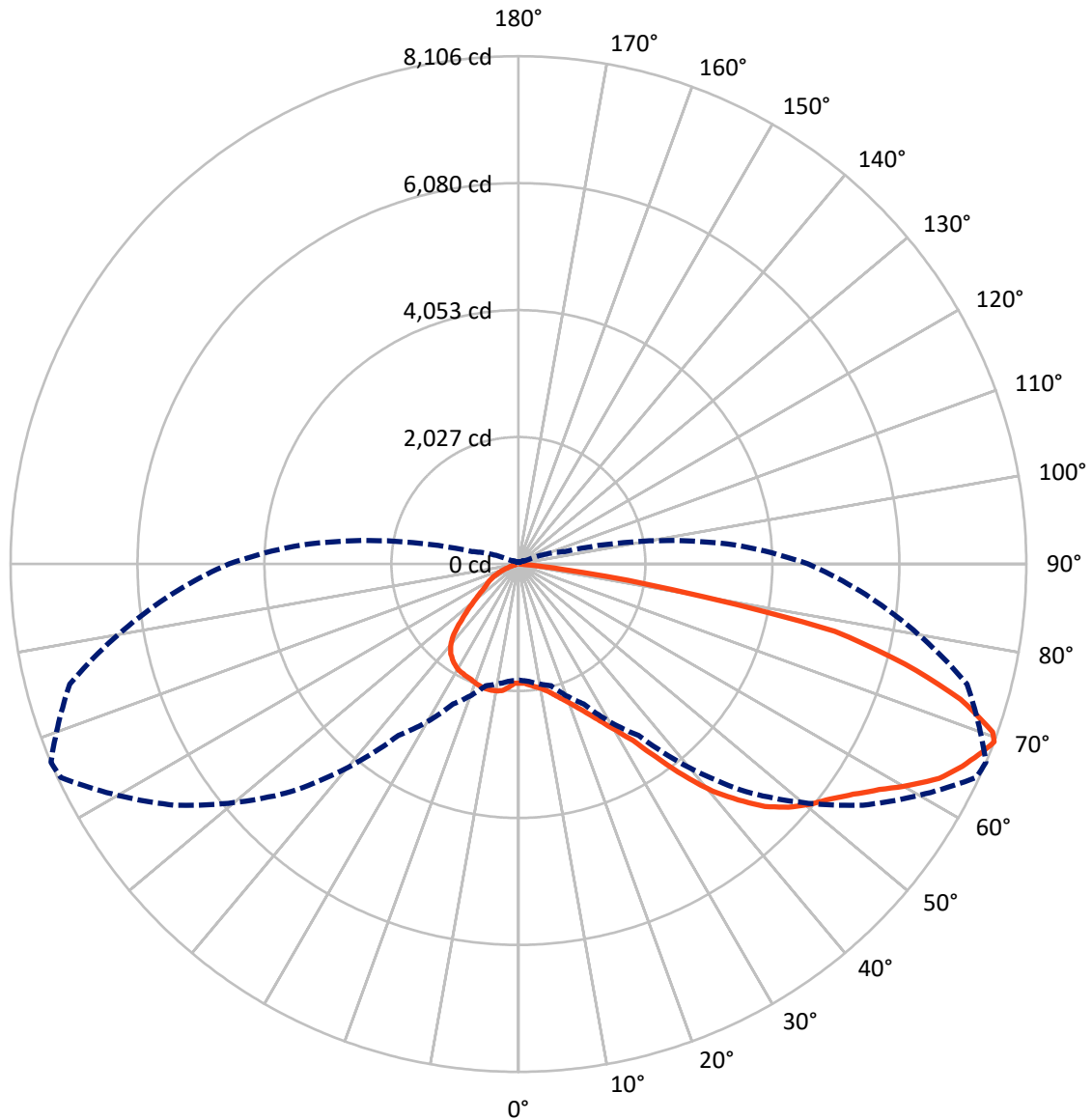


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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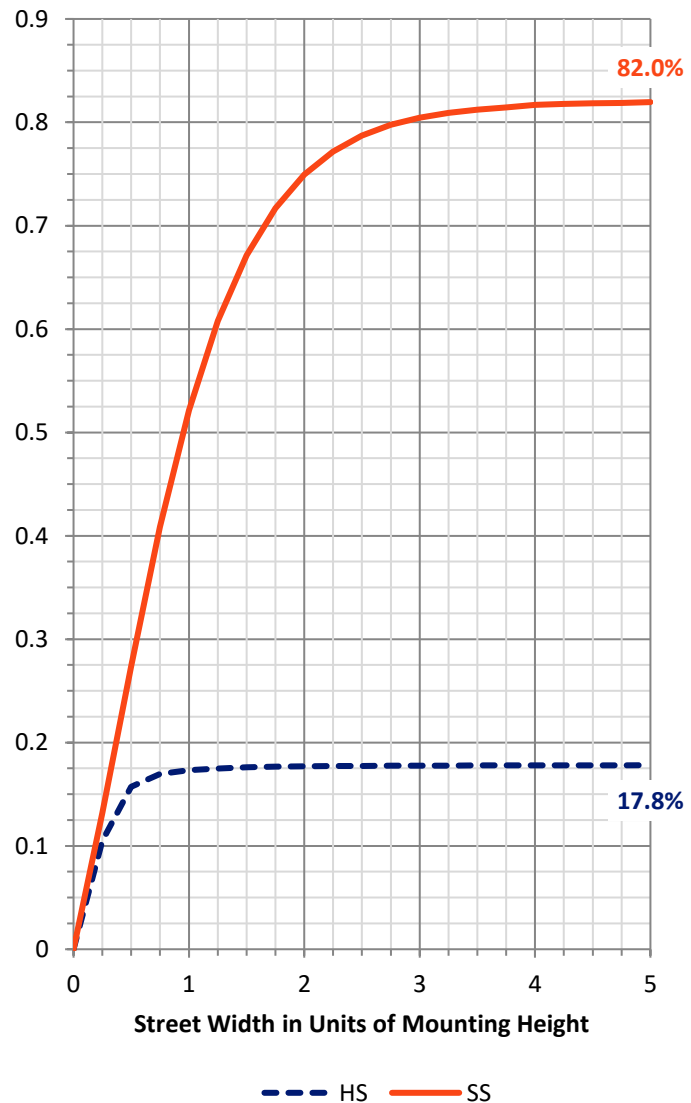
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2319.7	0.0	2319.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	10548.3	0.0	10548.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	12868.0	0.0	12868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.5
10°-20°	604.1	4.7
20°-30°	1031.1	8.0
30°-40°	1559.0	12.1
40°-50°	2202.5	17.1
50°-60°	2661.7	20.7
60°-70°	2808.6	21.8
70°-80°	1690.8	13.1
80°-90°	118.2	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°	12868.0	100.0
0°-180°	12868.0	100.0

**Coefficient of Utilization**



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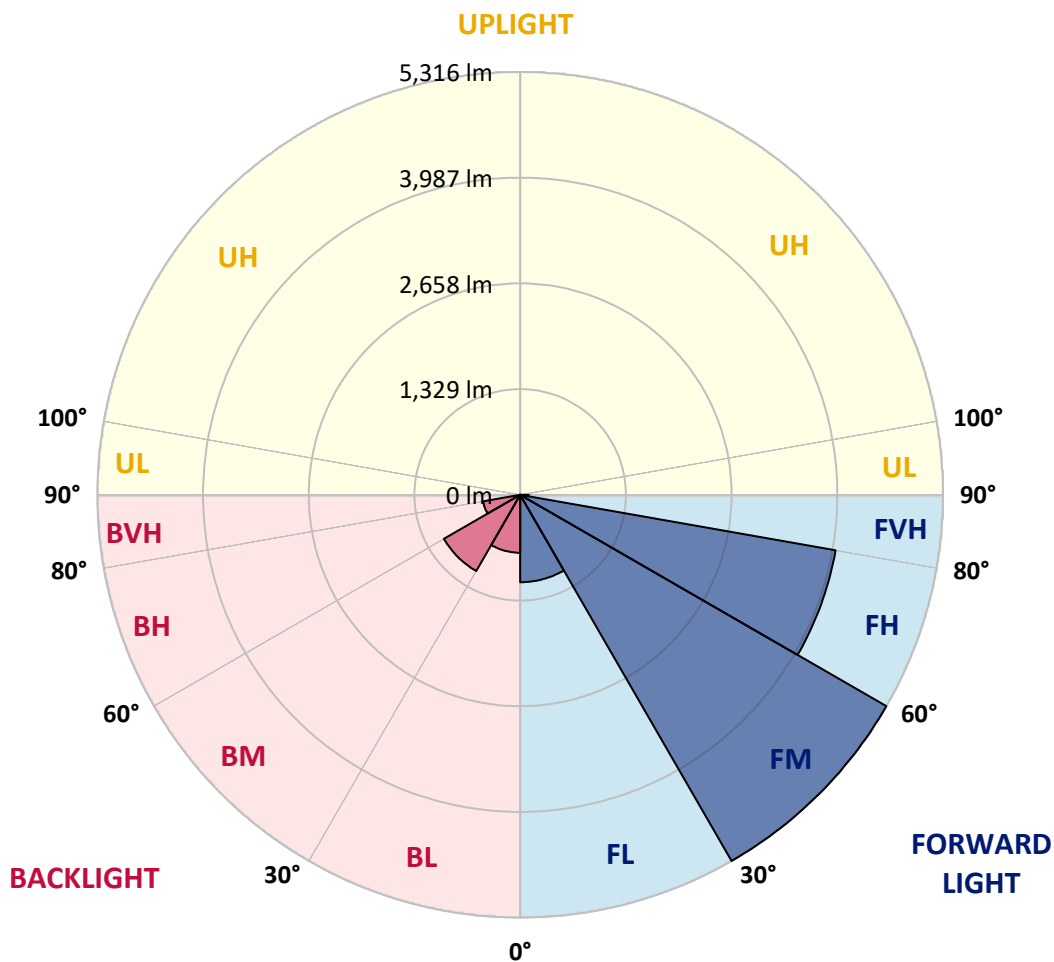
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.8	8.5			
FM	(30°-60°)	5316.4	41.3			
FH	(60°-80°)	4026.4	31.3			G2/5000
FVH	(80°-90°)	106.7	0.8			G2/225
BL	(0°-30°)	728.5	5.7	B2/1000		
BM	(30°-60°)	1106.8	8.6	B2/2500		
BH	(60°-80°)	472.9	3.7	B1/500		G1/500
BVH	(80°-90°)	11.5	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°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1952.2	1949.1	1949.1	1931.7	1915.3	1911.2	1910.2	1905.0	1906.1	1898.9	1891.7
5°	2008.6	2008.6	2006.5	1984.0	1966.6	1955.3	1948.1	1938.9	1939.9	1934.8	1928.6
7.5°	2093.7	2094.7	2090.6	2060.9	2043.5	2015.8	1999.4	1981.9	1980.9	1974.8	1976.8
10°	2198.3	2201.3	2195.2	2157.3	2127.5	2089.6	2054.7	2024.0	2021.9	2014.7	2020.9
12.5°	2316.2	2320.3	2304.9	2265.9	2232.1	2172.6	2130.6	2089.6	2083.4	2082.4	2086.5
15°	2451.5	2453.6	2448.5	2391.0	2350.0	2295.7	2227.0	2174.7	2168.5	2169.6	2164.4
17.5°	2602.2	2607.4	2596.1	2544.8	2490.5	2415.6	2333.6	2269.0	2265.9	2262.9	2240.3
20°	2762.2	2767.3	2760.1	2712.0	2647.4	2553.0	2452.6	2378.7	2377.7	2370.5	2318.2
22.5°	2942.7	2949.8	2945.7	2887.3	2818.6	2716.1	2591.0	2514.1	2512.0	2489.5	2410.5
25°	3138.5	3136.4	3140.5	3078.0	3013.4	2905.7	2750.9	2670.9	2670.9	2643.3	2526.4
27.5°	3328.2	3327.1	3334.3	3290.2	3222.6	3121.1	2934.4	2853.4	2860.6	2820.6	2665.8
30°	3512.7	3512.7	3530.2	3501.4	3451.2	3344.6	3162.1	3077.0	3086.2	3044.2	2842.2
32.5°	3685.0	3693.2	3722.9	3705.5	3667.5	3571.2	3415.3	3337.4	3358.9	3376.4	3170.3
35°	3812.1	3820.3	3889.0	3895.2	3885.9	3821.3	3705.5	3755.7	3781.4	3918.8	3689.1
37.5°	3923.9	3934.1	4016.2	4067.4	4097.2	4057.2	4064.3	4232.5	4280.7	4442.7	4132.0
40°	4005.9	4028.5	4109.5	4180.2	4284.8	4332.0	4448.8	4687.7	4765.7	4830.3	4436.5
42.5°	3949.5	3964.9	4107.4	4297.1	4449.9	4616.0	4805.6	5089.7	5148.1	5127.6	4705.2
45°	3866.5	3884.9	4034.6	4327.9	4581.1	4912.3	5144.0	5451.6	5518.2	5404.4	4936.9
47.5°	3773.2	3798.8	3960.8	4286.8	4690.8	5185.0	5450.6	5762.3	5801.2	5651.5	5131.7
50°	3678.8	3707.5	3891.1	4253.0	4775.9	5412.6	5674.1	6015.5	6026.8	5856.6	5307.0
52.5°	3551.7	3581.4	3782.4	4182.3	4835.4	5562.3	5869.9	6223.7	6230.8	6078.1	5473.1
55°	3390.7	3428.7	3640.9	4077.7	4849.7	5649.5	5994.0	6440.0	6488.2	6318.0	5609.5
57.5°	3201.0	3235.9	3469.7	3927.0	4778.0	5679.2	6167.3	6726.1	6792.7	6561.0	5722.3
60°	2982.6	3022.6	3257.4	3732.1	4633.4	5762.3	6454.4	7130.0	7170.0	6815.3	5821.7
62.5°	2759.1	2787.8	3001.1	3458.4	4407.8	5812.5	6708.6	7509.4	7536.1	7060.3	5881.2
65°	2441.3	2477.2	2685.3	3144.6	4082.8	5716.1	6806.0	7768.8	7785.2	7265.4	5852.5
67.5°	2095.7	2124.5	2276.2	2766.3	3656.3	5410.6	6766.0	7942.1	7994.4	7425.3	5722.3
69°	1850.7	1879.4	2010.6	2463.8	3339.4	5139.9	6709.7	8060.0	8106.1	7414.0	5556.2
70°	1660.0	1688.7	1812.8	2238.3	3091.3	4911.3	6620.5	8000.5	8030.3	7287.9	5394.2
72.5°	1187.3	1216.0	1317.5	1573.9	2341.8	4036.7	6067.8	7340.2	7380.2	6682.0	4821.0
75°	621.3	690.0	872.5	1017.1	1387.3	2842.2	5044.5	6312.9	6371.3	5863.8	3964.9
77.5°	80.0	84.1	246.1	413.2	573.2	1198.6	3583.5	5069.2	5161.4	4692.9	2741.7
80°	64.6	65.6	85.1	206.1	285.0	486.0	1271.4	2372.6	2484.3	2085.5	1007.9
82.5°	45.1	47.2	66.6	108.7	93.3	177.4	441.9	670.6	691.1	597.8	401.9
85°	25.6	25.6	31.8	42.0	29.7	66.6	91.3	97.4	87.2	86.1	64.6
87.5°	7.2	8.2	9.2	7.2	3.1	3.1	4.1	4.1	4.1	3.1	3.1
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°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1903.0	1900.9	1902.0	1906.1	1912.2	1934.8	1950.1	1952.2	1959.4	1986.0	1983.0
5°	1935.8	1948.1	1955.3	1976.8	1991.2	2021.9	2040.4	2042.4	2052.7	2080.4	2081.4
7.5°	1981.9	2002.4	2012.7	2037.3	2042.4	2056.8	2061.9	2056.8	2057.8	2082.4	2084.5
10°	2021.9	2047.6	2047.6	2053.7	2044.5	2045.5	2029.1	2013.7	2005.5	2027.0	2032.2
12.5°	2083.4	2090.6	2074.2	2055.8	2028.1	2003.5	1975.8	1951.2	1931.7	1944.0	1936.8
15°	2147.0	2135.7	2095.7	2047.6	1998.3	1956.3	1898.9	1863.0	1829.2	1836.3	1830.2
17.5°	2210.6	2173.7	2111.1	2031.1	1959.4	1879.4	1799.4	1743.0	1681.5	1676.4	1667.2
20°	2272.1	2218.8	2115.2	1997.3	1896.8	1784.0	1660.0	1563.6	1472.4	1448.8	1433.4
22.5°	2345.9	2269.0	2120.3	1964.5	1829.2	1675.4	1487.7	1338.0	1239.6	1206.8	1191.4
25°	2440.2	2338.7	2134.7	1939.9	1760.5	1541.0	1283.7	1112.5	1005.8	949.4	944.3
27.5°	2552.0	2422.8	2159.3	1908.1	1663.1	1361.6	1072.5	894.1	780.3	722.8	704.4
30°	2698.6	2527.4	2181.9	1883.5	1525.7	1165.8	851.0	652.1	516.8	479.8	460.4
32.5°	2976.5	2697.6	2210.6	1826.1	1363.7	951.5	602.9	401.9	309.6	285.0	285.0
35°	3428.7	3071.8	2282.3	1747.1	1168.9	693.1	361.9	225.6	184.6	170.2	163.0
37.5°	3836.7	3449.2	2461.8	1625.1	932.0	410.1	207.1	139.4	126.1	128.2	128.2
40°	4124.8	3707.5	2659.7	1460.0	632.6	219.4	131.2	111.8	113.8	114.8	114.8
42.5°	4371.9	3928.0	2768.3	1264.2	344.5	142.5	112.8	101.5	104.6	103.6	102.5
45°	4579.1	4107.4	2804.2	994.6	167.1	126.1	102.5	93.3	93.3	92.3	92.3
47.5°	4756.4	4266.3	2737.6	739.3	135.3	115.9	97.4	86.1	85.1	90.2	90.2
50°	4918.4	4389.4	2571.5	559.8	131.2	106.6	92.3	80.0	81.0	88.2	88.2
52.5°	5053.8	4462.2	2325.4	419.4	122.0	98.4	85.1	74.8	74.8	82.0	82.0
55°	5154.3	4462.2	2137.8	313.7	116.9	90.2	78.9	71.8	67.7	69.7	70.7
57.5°	5204.5	4378.1	1987.1	254.3	110.7	82.0	72.8	62.5	55.4	57.4	56.4
60°	5191.2	4329.9	1813.8	226.6	103.6	75.9	64.6	53.3	46.1	44.1	44.1
62.5°	5166.6	4275.6	1597.4	196.9	96.4	70.7	53.3	43.1	39.0	36.9	37.9
65°	5073.3	4099.2	1323.7	164.1	89.2	68.7	45.1	37.9	33.8	31.8	31.8
67.5°	4847.7	3781.4	1000.7	138.4	83.1	55.4	39.0	32.8	28.7	26.7	26.7
69°	4624.2	3477.9	768.0	126.1	78.9	50.2	35.9	29.7	26.7	23.6	23.6
70°	4431.4	3243.1	601.9	117.9	75.9	48.2	34.9	28.7	25.6	22.6	22.6
72.5°	3773.2	2572.5	305.5	102.5	63.6	42.0	30.8	25.6	21.5	18.5	18.5
75°	2927.3	1772.8	202.0	81.0	49.2	37.9	27.7	22.6	18.5	15.4	14.4
77.5°	1761.5	693.1	144.6	52.3	31.8	29.7	22.6	18.5	15.4	12.3	12.3
80°	486.0	297.3	97.4	34.9	18.5	19.5	16.4	13.3	11.3	9.2	9.2
82.5°	292.2	192.8	64.6	22.6	12.3	12.3	9.2	9.2	7.2	7.2	7.2
85°	50.2	39.0	15.4	9.2	7.2	7.2	5.1	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	4.1	4.1	3.1	2.1	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)