

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: P158460

Luminaire Tested: **VST-E06-LED-E-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158460  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E06-LED-E-U-SL3  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (126) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18101.2 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 150.5  
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

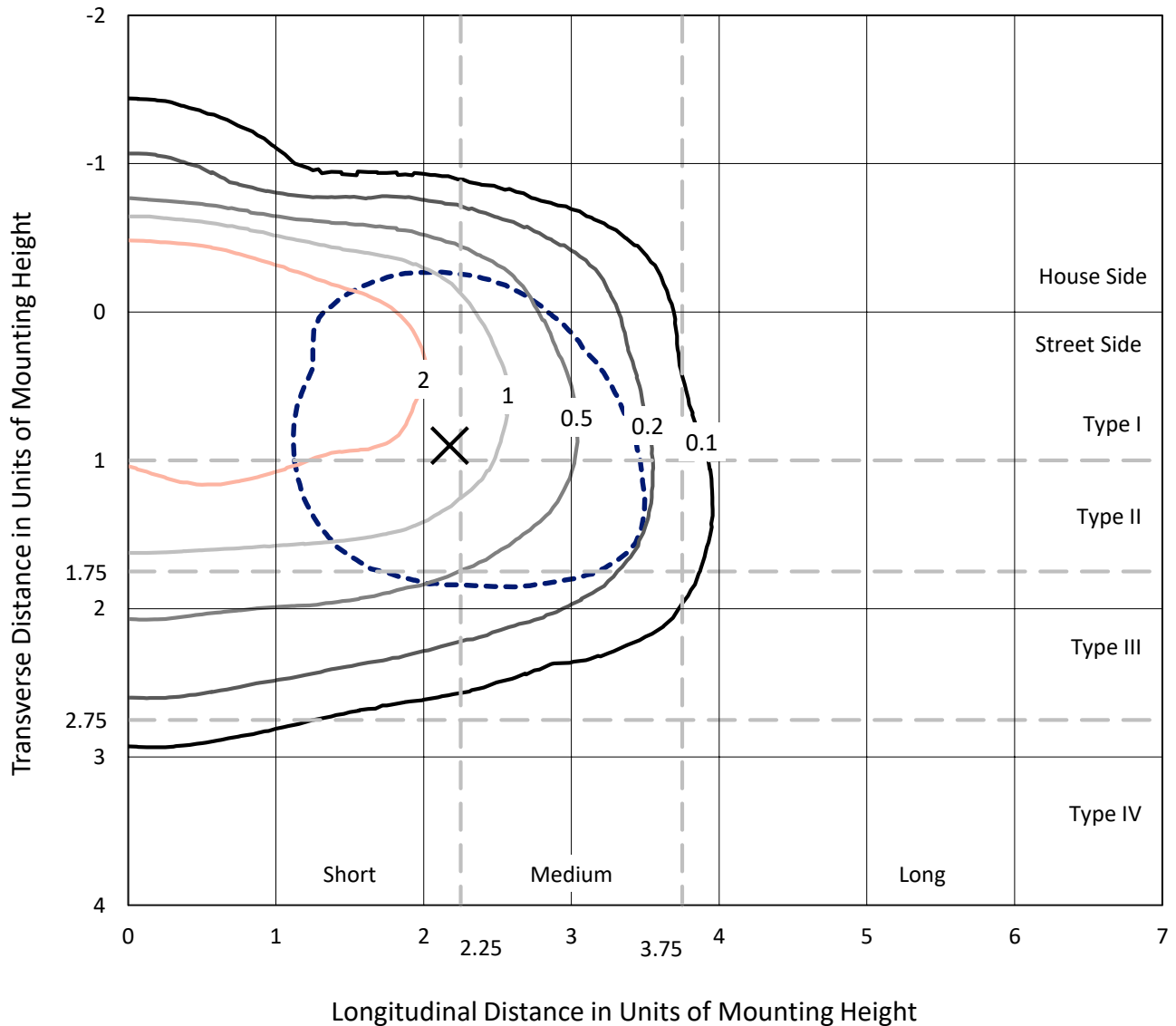


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

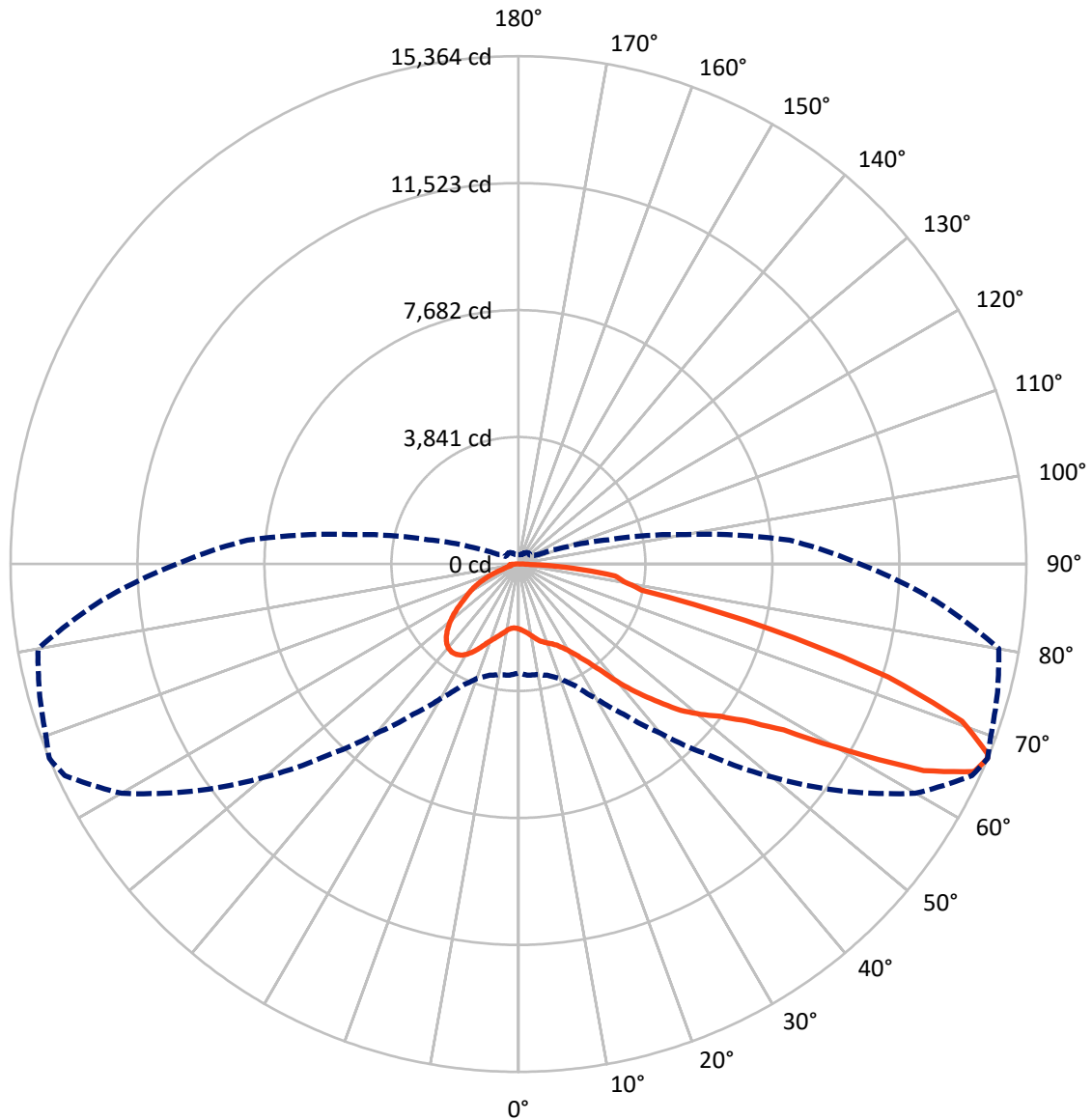


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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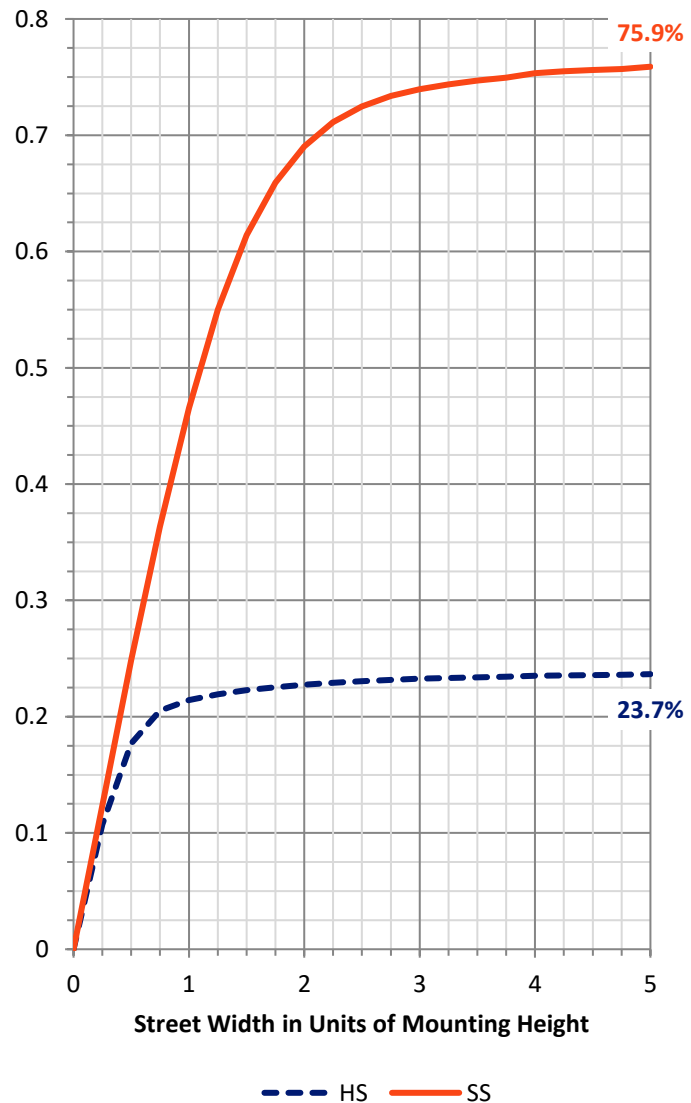
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4342.5	0.0	4342.5
	% Fixture	24.0	0.0	24.0
<b>Street Side</b>	Lumens	13758.7	0.0	13758.7
	% Fixture	76.0	0.0	76.0
<b>Total</b>	Lumens	18101.2	0.0	18101.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	1.1
10°-20°	664.4	3.7
20°-30°	1186.1	6.6
30°-40°	1738.3	9.6
40°-50°	2685.9	14.8
50°-60°	3911.1	21.6
60°-70°	5094.9	28.1
70°-80°	2280.6	12.6
80°-90°	344.8	1.9
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°	18101.2	100.0
0°-180°	18101.2	100.0



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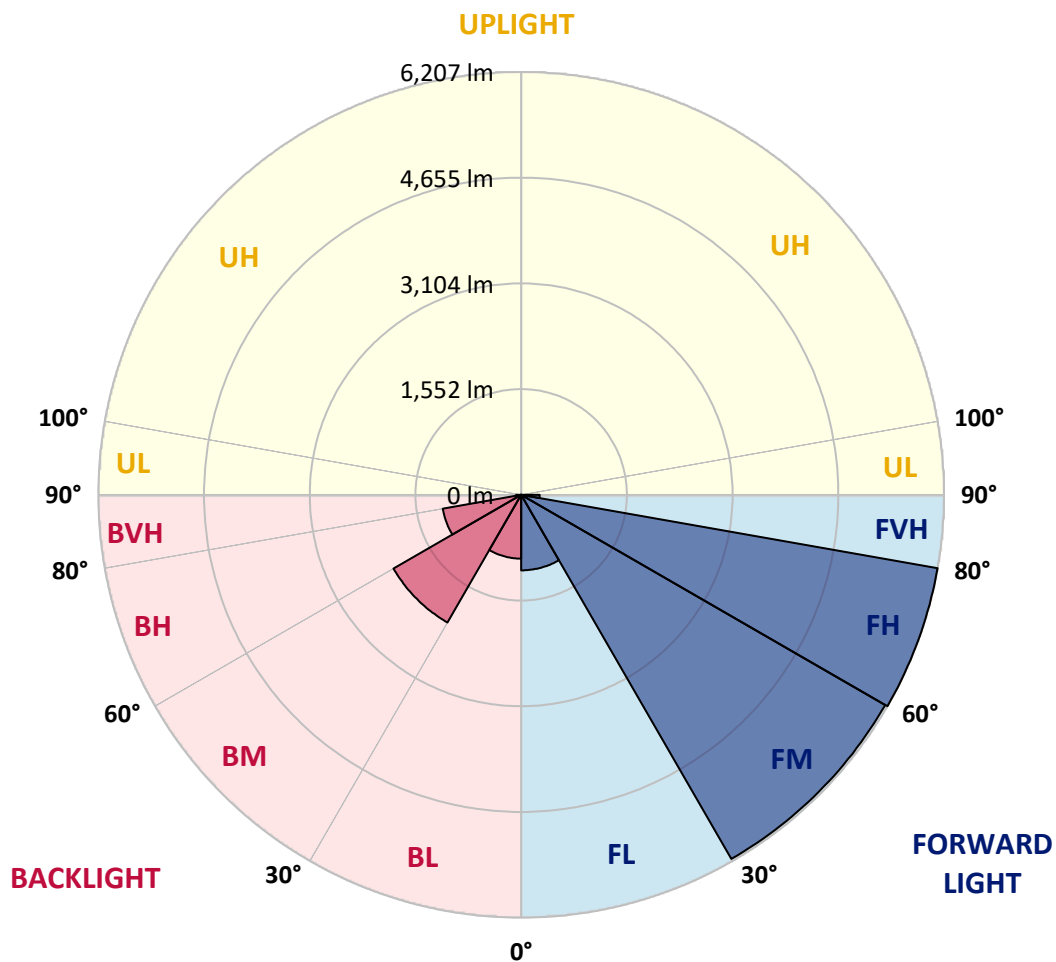
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.1	6.1			
FM	(30°-60°)	6171.6	34.1			
FH	(60°-80°)	6207.3	34.3			G3/7500
FVH	(80°-90°)	270.8	1.5			G3/500
BL	(0°-30°)	936.4	5.2	B2/1000		
BM	(30°-60°)	2163.8	12.0	B2/2500		
BH	(60°-80°)	1168.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	74.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	2038.8	2043.6	2044.8	2043.6	2044.8	2040.0	2038.8	2031.6	2035.2	2025.6	2023.2
5°	2149.2	2152.8	2155.2	2145.6	2148.0	2143.2	2137.2	2130.0	2120.4	2107.2	2098.8
7.5°	2257.2	2263.2	2262.0	2258.4	2250.0	2245.2	2233.2	2222.4	2205.6	2190.0	2179.2
10°	2402.4	2401.2	2401.2	2380.8	2368.8	2358.0	2336.4	2319.6	2302.8	2280.0	2268.0
12.5°	2570.4	2562.0	2558.4	2544.0	2518.8	2499.6	2468.4	2436.0	2406.0	2382.0	2362.8
15°	2732.4	2732.4	2722.8	2700.0	2676.0	2650.8	2606.4	2559.6	2510.4	2472.0	2452.8
17.5°	2880.0	2866.8	2858.4	2828.4	2803.2	2762.4	2713.2	2662.8	2601.6	2547.6	2510.4
20°	2988.0	2977.2	2959.2	2922.0	2878.8	2830.8	2773.2	2714.4	2648.4	2589.6	2547.6
22.5°	3050.4	3037.2	3009.6	2960.4	2901.6	2834.4	2767.2	2712.0	2652.0	2607.6	2572.8
25°	3082.8	3069.6	3032.4	2967.6	2888.4	2799.6	2722.8	2668.8	2634.0	2623.2	2618.4
27.5°	3081.6	3070.8	3031.2	2956.8	2854.8	2752.8	2670.0	2624.4	2620.8	2662.8	2694.0
30°	3050.4	3043.2	3007.2	2932.8	2826.0	2719.2	2642.4	2618.4	2655.6	2744.4	2821.2
32.5°	3019.2	3015.6	2990.4	2923.2	2832.0	2742.0	2689.2	2691.6	2768.4	2905.2	3028.8
35°	3022.8	3027.6	3024.0	2988.0	2930.4	2883.6	2858.4	2911.2	3031.2	3196.8	3362.4
37.5°	3054.0	3072.0	3094.8	3098.4	3099.6	3092.4	3145.2	3256.8	3432.0	3648.0	3907.2
40°	3122.4	3142.8	3208.8	3266.4	3340.8	3429.6	3536.4	3691.2	3908.4	4174.8	4492.8
42.5°	3334.8	3363.6	3445.2	3552.0	3688.8	3828.0	3987.6	4198.8	4465.2	4746.0	5079.6
45°	3612.0	3672.0	3762.0	3880.8	4086.0	4281.6	4488.0	4724.4	5007.6	5359.2	5695.2
47.5°	3957.6	4017.6	4148.4	4275.6	4518.0	4761.6	4987.2	5234.4	5541.6	5901.6	6273.6
50°	4260.0	4328.4	4444.8	4616.4	4897.2	5196.0	5445.6	5713.2	5971.2	6350.4	6726.0
52.5°	4497.6	4546.8	4658.4	4815.6	5128.8	5456.4	5772.0	6069.6	6375.6	6754.8	7102.8
55°	4527.6	4573.2	4682.4	4862.4	5180.4	5544.0	5907.6	6260.4	6693.6	7107.6	7568.4
57.5°	4398.0	4435.2	4545.6	4706.4	5016.0	5430.0	5889.6	6342.0	6896.4	7455.6	8018.4
60°	4214.4	4251.6	4338.0	4466.4	4746.0	5192.4	5728.8	6348.0	7084.8	7892.4	8720.4
62.5°	4012.8	4045.2	4114.8	4206.0	4452.0	4863.6	5478.0	6308.4	7238.4	8326.8	9603.6
65°	3673.2	3751.2	3781.2	3874.8	4120.8	4509.6	5134.8	6040.8	7176.0	8520.0	10158.0
67°	3297.6	3376.8	3392.4	3487.2	3684.0	4057.2	4693.2	5545.2	6681.6	8186.4	10035.6
67.5°	3177.6	3244.8	3268.8	3363.6	3549.6	3901.2	4504.8	5366.4	6530.4	8004.0	9888.0
70°	2336.4	2410.8	2437.2	2476.8	2610.0	2902.8	3302.4	4050.0	5206.8	6531.6	8341.2
72.5°	1250.4	1310.4	1335.6	1394.4	1462.8	1622.4	1928.4	2464.8	3195.6	4370.4	5934.0
75°	846.0	870.0	888.0	928.8	999.6	1126.8	1261.2	1449.6	1891.2	2466.0	3376.8
77.5°	482.4	493.2	495.6	502.8	559.2	680.4	901.2	1220.4	1564.8	1786.8	2160.0
80°	208.8	230.4	247.2	236.4	232.8	258.0	322.8	481.2	943.2	1497.6	1777.2
82.5°	112.8	122.4	136.8	138.0	145.2	153.6	166.8	198.0	278.4	561.6	1225.2
85°	58.8	61.2	81.6	93.6	99.6	104.4	106.8	118.8	136.8	174.0	304.8
87.5°	8.4	12.0	14.4	19.2	21.6	22.8	26.4	33.6	39.6	48.0	81.6
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):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	2012.4	2010.0	2002.8	1998.0	1993.2	1988.4	1982.4	1977.6	1969.2	1963.2	1956.0
5°	2086.8	2072.4	2062.8	2049.6	2047.2	2031.6	2016.0	2008.8	1994.4	1982.4	1968.0
7.5°	2162.4	2145.6	2130.0	2119.2	2113.2	2091.6	2076.0	2058.0	2041.2	2025.6	2008.8
10°	2251.2	2234.4	2217.6	2210.4	2199.6	2179.2	2166.0	2143.2	2126.4	2107.2	2084.4
12.5°	2343.6	2331.6	2319.6	2310.0	2305.2	2295.6	2276.4	2257.2	2234.4	2215.2	2188.8
15°	2425.2	2416.8	2412.0	2409.6	2409.6	2403.6	2385.6	2367.6	2343.6	2322.0	2293.2
17.5°	2482.8	2479.2	2482.8	2486.4	2491.2	2486.4	2482.8	2462.4	2446.8	2420.4	2391.6
20°	2516.4	2523.6	2541.6	2553.6	2564.4	2572.8	2576.4	2559.6	2539.2	2520.0	2500.8
22.5°	2552.4	2572.8	2604.0	2622.0	2640.0	2670.0	2677.2	2665.2	2649.6	2637.6	2617.2
25°	2612.4	2642.4	2696.4	2725.2	2750.4	2794.8	2800.8	2803.2	2799.6	2790.0	2764.8
27.5°	2706.0	2764.8	2836.8	2874.0	2901.6	2959.2	2982.0	2982.0	2972.4	2983.2	2983.2
30°	2869.2	2947.2	3040.8	3062.4	3105.6	3156.0	3193.2	3198.0	3199.2	3222.0	3255.6
32.5°	3120.0	3194.4	3298.8	3322.8	3360.0	3408.0	3450.0	3445.2	3456.0	3505.2	3549.6
35°	3484.8	3560.4	3628.8	3661.2	3678.0	3721.2	3736.8	3763.2	3795.6	3856.8	3850.8
37.5°	4024.8	4092.0	4101.6	4122.0	4101.6	4110.0	4122.0	4153.2	4239.6	4294.8	4206.0
40°	4675.2	4786.8	4776.0	4752.0	4706.4	4645.2	4666.8	4714.8	4808.4	4760.4	4521.6
42.5°	5288.4	5403.6	5382.0	5354.4	5253.6	5230.8	5228.4	5268.0	5318.4	5181.6	4768.8
45°	5892.0	6009.6	5972.4	5956.8	5889.6	5840.4	5881.2	5883.6	5870.4	5577.6	4984.8
47.5°	6514.8	6622.8	6598.8	6612.0	6542.4	6510.0	6513.6	6496.8	6373.2	5913.6	5152.8
50°	7017.6	7162.8	7177.2	7147.2	7110.0	7060.8	7186.8	7141.2	6866.4	6240.0	5314.8
52.5°	7408.8	7604.4	7678.8	7659.6	7629.6	7635.6	7872.0	7923.6	7468.8	6651.6	5493.6
55°	7872.0	8180.4	8301.6	8373.6	8342.4	8462.4	9003.6	9030.0	8306.4	7189.2	5726.4
57.5°	8540.4	8982.0	9364.8	9466.8	9565.2	9955.2	10833.6	10566.0	9393.6	8002.8	6021.6
60°	9556.8	10524.0	11145.6	11472.0	11702.4	12247.2	13082.4	12404.4	10748.4	8971.2	6392.4
62.5°	10980.0	12393.6	13432.8	13760.4	13855.2	14168.4	14773.2	13476.0	11486.4	9405.6	6424.8
65°	12039.6	13735.2	14979.6	15147.6	15034.8	15040.8	15199.2	13419.6	11211.6	9026.4	5868.0
67°	11970.0	13868.4	15142.8	15363.6	15207.6	15002.4	14755.2	12655.2	10328.4	8232.0	5138.4
67.5°	11863.2	13740.0	15072.0	15304.8	15162.0	14928.0	14566.8	12358.8	10053.6	7984.8	4989.6
70°	10255.2	12118.8	13912.8	14240.4	14300.4	14086.8	13072.8	10420.8	8162.4	6495.6	3874.8
72.5°	7982.4	9642.0	11416.8	11701.2	11931.6	11316.0	9514.8	7197.6	5949.6	4681.2	2805.6
75°	5270.4	6958.8	7854.0	7896.0	7602.0	6462.0	4648.8	3604.8	3318.0	2751.6	1736.4
77.5°	2820.0	4092.0	4117.2	3812.4	3673.2	2738.4	1111.2	613.2	682.8	775.2	691.2
80°	2103.6	2606.4	3020.4	3247.2	3314.4	2348.4	574.8	325.2	284.4	259.2	255.6
82.5°	1897.2	2517.6	2822.4	2946.0	2914.8	1932.0	322.8	218.4	181.2	196.8	224.4
85°	744.0	1344.0	1767.6	1711.2	1437.6	720.0	176.4	117.6	117.6	170.4	220.8
87.5°	152.4	276.0	374.4	357.6	321.6	139.2	86.4	70.8	72.0	138.0	208.8
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1948.8	1941.6	1936.8	1932.0	1927.2	1924.8	1921.2	1921.2	1914.0	1911.6	1909.2
5°	1957.2	1945.2	1936.8	1926.0	1917.6	1910.4	1900.8	1898.4	1890.0	1884.0	1881.6
7.5°	1993.2	1975.2	1957.2	1944.0	1932.0	1916.4	1905.6	1896.0	1887.6	1881.6	1874.4
10°	2061.6	2042.4	2017.2	1993.2	1977.6	1953.6	1936.8	1920.0	1910.4	1903.2	1893.6
12.5°	2162.4	2134.8	2104.8	2076.0	2049.6	2018.4	2001.6	1981.2	1969.2	1963.2	1956.0
15°	2265.6	2235.6	2198.4	2170.8	2140.8	2116.8	2101.2	2083.2	2073.6	2066.4	2061.6
17.5°	2371.2	2336.4	2310.0	2282.4	2268.0	2250.0	2229.6	2206.8	2179.2	2162.4	2139.6
20°	2479.2	2452.8	2437.2	2421.6	2404.8	2379.6	2338.8	2292.0	2240.4	2191.2	2144.4
22.5°	2605.2	2589.6	2587.2	2572.8	2538.0	2478.0	2402.4	2314.8	2227.2	2145.6	2082.0
25°	2782.8	2782.8	2770.8	2712.0	2630.4	2522.4	2395.2	2269.2	2152.8	2041.2	1957.2
27.5°	3006.0	2997.6	2938.8	2817.6	2671.2	2503.2	2332.8	2173.2	2024.4	1902.0	1794.0
30°	3252.0	3193.2	3067.2	2876.4	2656.8	2440.8	2232.0	2047.2	1872.0	1722.0	1594.8
32.5°	3507.6	3364.8	3138.0	2876.4	2606.4	2347.2	2106.0	1879.2	1678.8	1510.8	1359.6
35°	3739.2	3478.8	3154.8	2829.6	2508.0	2209.2	1929.6	1672.8	1432.8	1251.6	1086.0
37.5°	3949.2	3554.4	3136.8	2738.4	2365.2	2014.8	1687.2	1404.0	1132.8	957.6	816.0
40°	4086.0	3570.0	3062.4	2595.6	2161.2	1752.0	1389.6	1072.8	858.0	698.4	603.6
42.5°	4171.2	3540.0	2942.4	2400.0	1886.4	1422.0	1042.8	769.2	609.6	520.8	484.8
45°	4219.2	3462.0	2764.8	2132.4	1554.0	1081.2	740.4	555.6	469.2	438.0	426.0
47.5°	4216.8	3336.0	2542.8	1822.8	1186.8	753.6	524.4	433.2	409.2	399.6	397.2
50°	4191.6	3181.2	2282.4	1486.8	856.8	525.6	415.2	388.8	382.8	376.8	374.4
52.5°	4156.8	2989.2	1994.4	1159.2	608.4	420.0	376.8	369.6	364.8	358.8	356.4
55°	4092.0	2752.8	1682.4	872.4	476.4	379.2	363.6	361.2	355.2	346.8	342.0
57.5°	4012.8	2512.8	1383.6	681.6	421.2	369.6	361.2	357.6	349.2	339.6	330.0
60°	3984.0	2314.8	1149.6	574.8	408.0	373.2	367.2	362.4	350.4	336.0	325.2
62.5°	3804.0	2091.6	981.6	532.8	415.2	388.8	386.4	379.2	361.2	344.4	327.6
65°	3338.4	1768.8	831.6	504.0	429.6	415.2	417.6	406.8	388.8	366.0	336.0
67°	2823.6	1442.4	692.4	476.4	440.4	442.8	451.2	442.8	420.0	387.6	346.8
67.5°	2686.8	1359.6	657.6	468.0	442.8	450.0	459.6	453.6	430.8	393.6	351.6
70°	1996.8	957.6	490.8	423.6	442.8	471.6	493.2	499.2	474.0	422.4	361.2
72.5°	1406.4	618.0	376.8	367.2	402.0	440.4	481.2	501.6	472.8	416.4	348.0
75°	844.8	386.4	306.0	312.0	338.4	378.0	410.4	418.8	382.8	346.8	301.2
77.5°	391.2	256.8	240.0	248.4	273.6	291.6	291.6	274.8	247.2	225.6	216.0
80°	230.4	210.0	208.8	224.4	241.2	228.0	207.6	184.8	170.4	163.2	159.6
82.5°	216.0	224.4	238.8	242.4	229.2	196.8	171.6	148.8	141.6	138.0	134.4
85°	254.4	272.4	248.4	229.2	202.8	165.6	134.4	115.2	111.6	108.0	103.2
87.5°	235.2	224.4	195.6	168.0	139.2	100.8	73.2	66.0	70.8	69.6	67.2
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):**

	160°	165°	170°	175°	180°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1910.4	1910.4	1905.6	1903.2	1909.2
5°	1876.8	1878.0	1874.4	1873.2	1874.4
7.5°	1869.6	1868.4	1866.0	1863.6	1866.0
10°	1891.2	1890.0	1886.4	1888.8	1885.2
12.5°	1956.0	1963.2	1962.0	1964.4	1969.2
15°	2061.6	2060.4	2056.8	2059.2	2062.8
17.5°	2121.6	2112.0	2103.6	2100.0	2100.0
20°	2107.2	2079.6	2065.2	2056.8	2054.4
22.5°	2022.0	1982.4	1952.4	1945.2	1939.2
25°	1882.8	1833.6	1795.2	1786.8	1771.2
27.5°	1720.8	1654.8	1609.2	1599.6	1591.2
30°	1508.4	1432.8	1380.0	1346.4	1357.2
32.5°	1249.2	1177.2	1116.0	1062.0	1053.6
35°	964.8	885.6	831.6	807.6	792.0
37.5°	720.0	654.0	618.0	595.2	596.4
40°	550.8	516.0	496.8	481.2	482.4
42.5°	459.6	444.0	439.2	432.0	428.4
45°	416.4	411.6	412.8	405.6	403.2
47.5°	392.4	388.8	390.0	385.2	384.0
50°	373.2	370.8	372.0	368.4	367.2
52.5°	354.0	355.2	354.0	351.6	351.6
55°	337.2	336.0	338.4	334.8	334.8
57.5°	324.0	322.8	322.8	321.6	321.6
60°	316.8	312.0	310.8	310.8	312.0
62.5°	313.2	304.8	303.6	303.6	304.8
65°	314.4	301.2	296.4	295.2	294.0
67°	315.6	296.4	286.8	282.0	280.8
67.5°	316.8	294.0	283.2	278.4	276.0
70°	309.6	277.2	261.6	253.2	250.8
72.5°	291.6	256.8	237.6	226.8	224.4
75°	259.2	232.8	216.0	204.0	199.2
77.5°	200.4	188.4	182.4	175.2	172.8
80°	156.0	150.0	147.6	142.8	141.6
82.5°	129.6	123.6	120.0	114.0	110.4
85°	100.8	93.6	91.2	86.4	84.0
87.5°	66.0	62.4	61.2	55.2	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)