

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: P159559

Luminaire Tested: **VST-E06-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159559
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
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-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16760.1 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

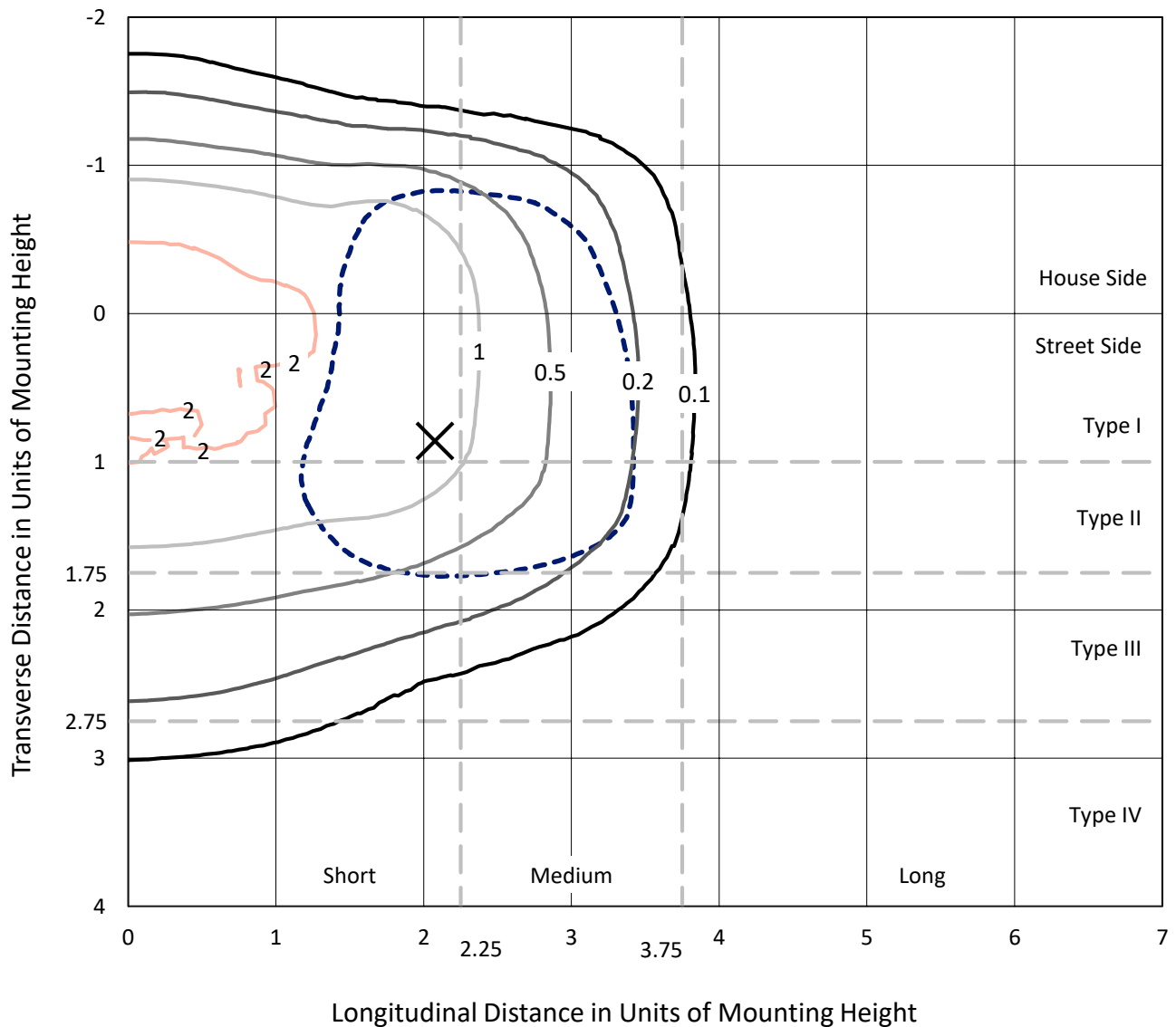
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

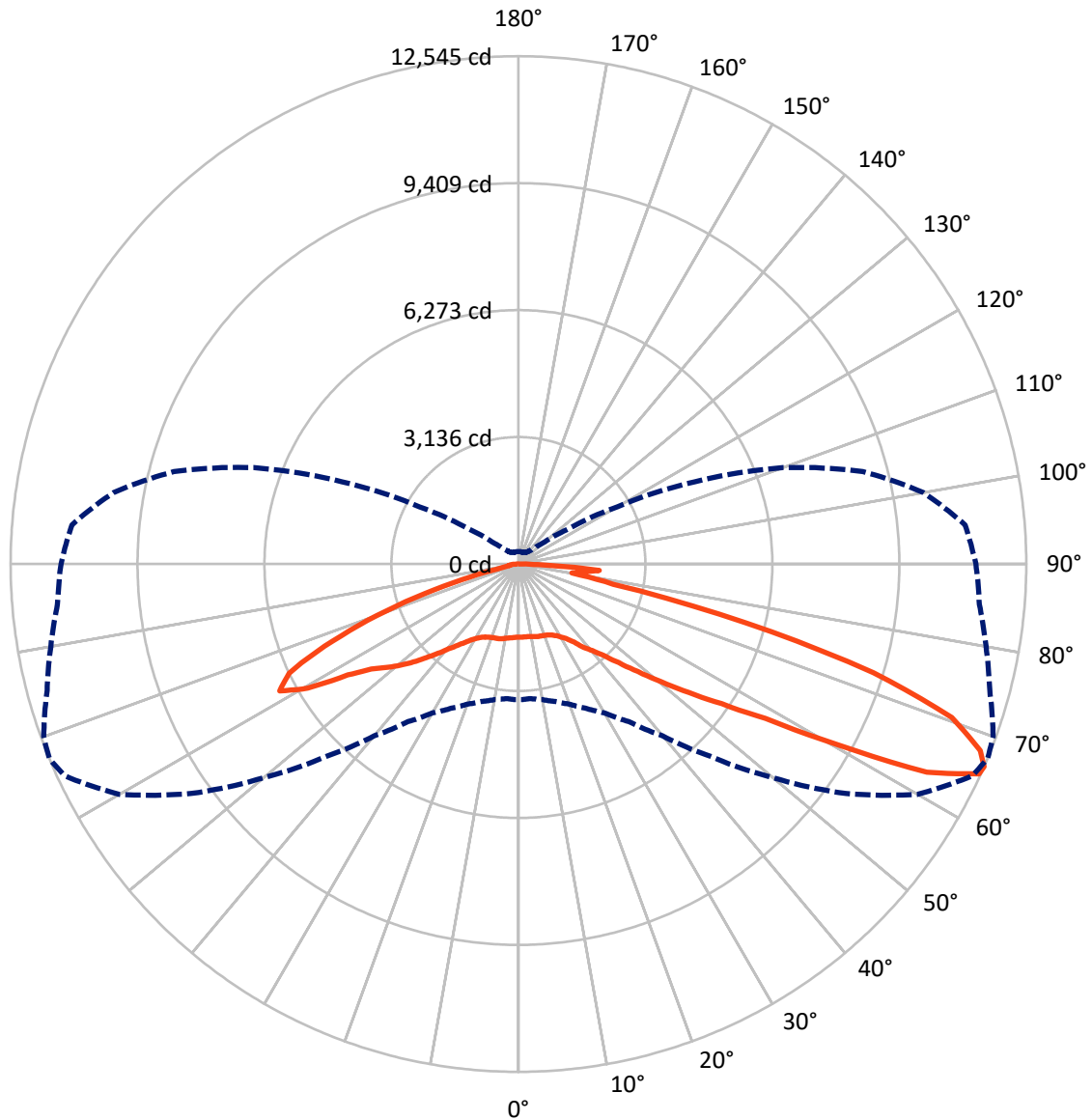


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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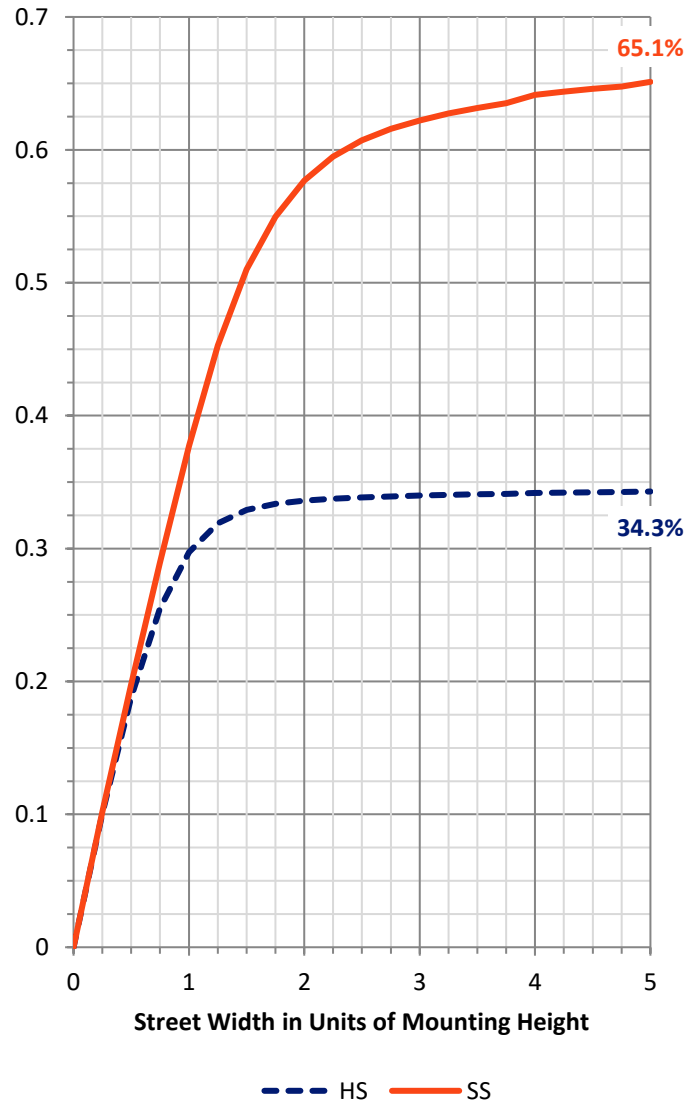
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5799.8	0.0	5799.8
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	10960.4	0.0	10960.4
	% Fixture	65.4	0.0	65.4
Total	Lumens	16760.1	0.0	16760.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.0
10°-20°	513.9	3.1
20°-30°	883.3	5.3
30°-40°	1427.6	8.5
40°-50°	2365.9	14.1
50°-60°	3713.1	22.2
60°-70°	5076.6	30.3
70°-80°	2232.4	13.3
80°-90°	373.7	2.2
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°	16760.1	100.0
0°-180°	16760.1	100.0

Coefficient of Utilization



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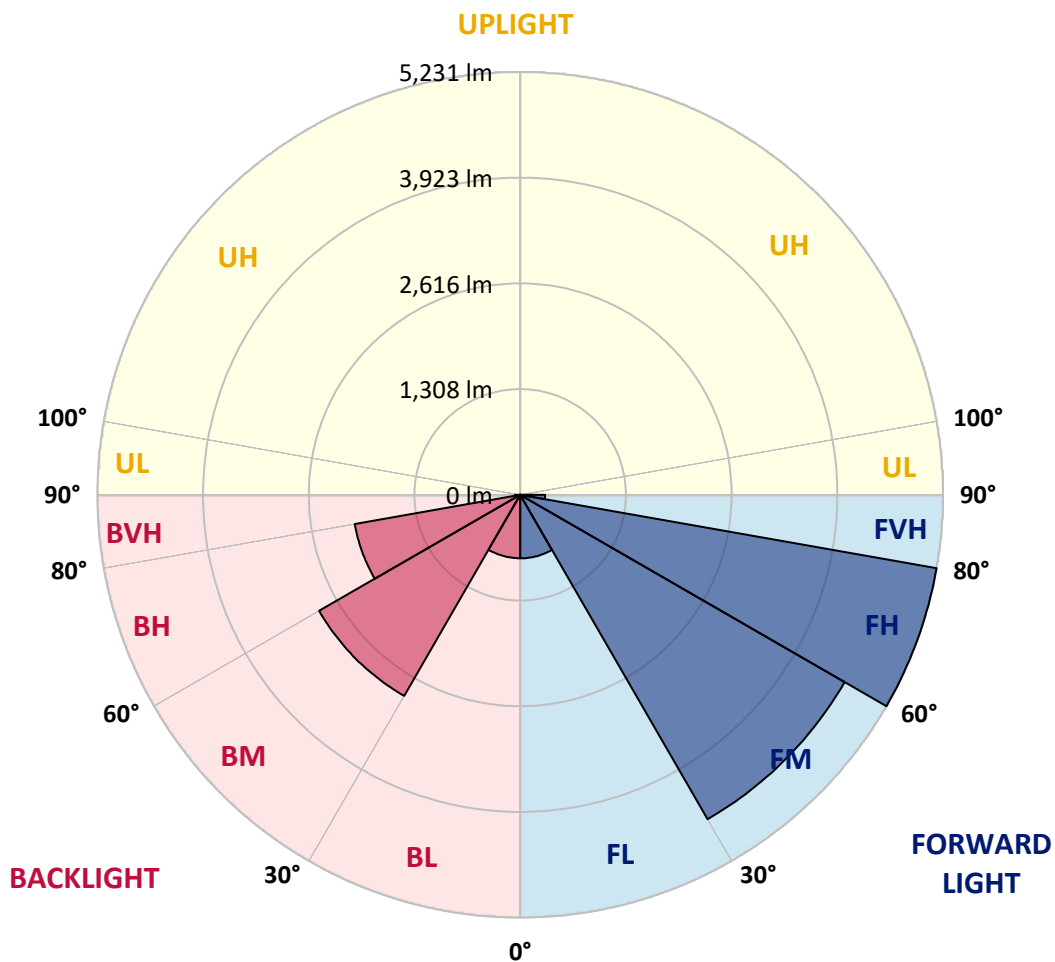
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.2	4.7			
FM (30°-60°)	4634.7	27.7			
FH (60°-80°)	5231.2	31.2			G3/7500
FVH (80°-90°)	308.3	1.8			G3/500
BL (0°-30°)	784.6	4.7	B2/1000		
BM (30°-60°)	2872.0	17.1	B3/5000		
BH (60°-80°)	2077.8	12.4	B3/2500		G3/2500
BVH (80°-90°)	65.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4
2.5°	1805.1	1805.1	1806.2	1805.1	1805.1	1804.0	1808.4	1808.4	1808.4	1807.3	1810.6
5°	1800.8	1800.8	1801.9	1801.9	1803.0	1801.9	1805.1	1806.2	1806.2	1806.2	1809.5
7.5°	1789.8	1793.1	1790.9	1792.0	1793.1	1796.4	1800.8	1803.0	1805.1	1808.4	1809.5
10°	1766.8	1772.3	1771.2	1774.5	1775.6	1785.4	1788.7	1793.1	1800.8	1805.1	1808.4
12.5°	1735.0	1738.3	1739.4	1743.8	1748.2	1760.2	1769.0	1776.6	1787.6	1798.6	1809.5
15°	1709.8	1712.0	1712.0	1716.4	1722.9	1733.9	1744.9	1758.0	1774.5	1793.1	1810.6
17.5°	1717.5	1722.9	1718.6	1717.5	1719.7	1726.2	1736.1	1747.1	1766.8	1787.6	1808.4
20°	1767.9	1769.0	1766.8	1761.3	1756.9	1758.0	1758.0	1760.2	1772.3	1788.7	1805.1
22.5°	1809.5	1813.9	1812.8	1813.9	1812.8	1817.2	1815.0	1810.6	1806.2	1807.3	1815.0
25°	1845.7	1850.1	1850.1	1853.4	1858.9	1867.6	1874.2	1873.1	1866.5	1857.8	1854.5
27.5°	1904.9	1904.9	1904.9	1908.2	1915.8	1926.8	1937.8	1944.3	1949.8	1941.1	1922.4
30°	1998.0	1999.1	1995.9	1996.9	2002.4	2016.7	2029.8	2039.7	2050.7	2049.6	2025.4
32.5°	2100.0	2104.4	2103.3	2107.6	2115.3	2128.5	2142.7	2158.1	2172.3	2181.1	2165.7
35°	2231.5	2235.9	2237.0	2243.6	2252.3	2272.1	2291.8	2311.5	2326.9	2333.4	2330.1
37.5°	2447.4	2448.5	2444.1	2434.3	2437.5	2452.9	2475.9	2507.7	2517.6	2524.1	2539.5
40°	2770.7	2767.5	2749.9	2741.1	2735.7	2742.2	2737.9	2763.1	2786.1	2787.2	2786.1
42.5°	3163.1	3153.3	3136.8	3134.6	3132.4	3130.2	3118.2	3119.3	3140.1	3145.6	3139.0
45°	3553.3	3541.2	3529.2	3540.1	3527.0	3561.0	3570.8	3597.1	3600.4	3611.4	3594.9
47.5°	3873.3	3874.4	3874.4	3889.8	3916.1	3980.7	4038.8	4089.3	4107.9	4134.2	4137.5
50°	4115.6	4122.1	4143.0	4192.3	4248.2	4356.7	4454.2	4545.2	4627.4	4658.1	4739.2
52.5°	4256.9	4274.5	4318.3	4400.5	4500.3	4640.6	4794.0	4948.5	5091.0	5211.6	5308.0
55°	4231.7	4244.9	4321.6	4449.8	4605.5	4794.0	5008.8	5232.4	5454.9	5658.8	5816.6
57.5°	4069.5	4078.3	4155.0	4299.7	4493.7	4746.9	5050.5	5382.6	5694.9	6023.7	6293.3
60°	3856.9	3870.0	3941.3	4055.3	4258.0	4527.7	4879.5	5329.9	5828.6	6346.0	6850.1
62.5°	3721.0	3717.7	3780.2	3882.1	4034.5	4278.9	4617.5	5151.3	5841.8	6716.4	7712.7
65°	3495.2	3485.3	3550.0	3666.2	3831.7	4068.4	4389.6	4902.5	5703.7	6856.7	8269.5
66°	3354.9	3335.2	3399.9	3517.1	3682.6	3934.7	4242.7	4749.1	5536.0	6719.7	8210.3
67.5°	3109.4	3099.5	3130.2	3222.3	3345.1	3581.8	3902.9	4412.6	5139.2	6307.6	7776.3
70°	2527.4	2505.5	2529.6	2571.3	2618.4	2676.5	2873.8	3278.2	3893.1	5025.3	6264.9
72.5°	1721.8	1710.9	1755.8	1819.4	1945.4	2004.6	2082.4	2148.2	2365.2	3167.5	4369.8
75°	1309.7	1316.3	1373.3	1478.5	1640.7	1816.1	1987.1	2049.6	1977.2	1914.7	2480.3
77.5°	734.3	772.7	841.7	975.5	1147.5	1395.2	1693.4	2022.2	2186.6	2146.0	2006.8
80°	302.5	297.0	331.0	404.4	463.6	666.4	1019.3	1431.4	1893.9	2186.6	2140.5
82.5°	84.4	86.6	111.8	143.6	185.2	235.6	368.3	591.9	964.5	1500.5	1964.1
85°	26.3	26.3	36.2	53.7	63.6	73.4	93.2	153.4	261.9	522.8	1059.9
87.5°	5.5	5.5	7.7	15.3	16.4	16.4	20.8	28.5	25.2	23.0	103.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4
2.5°	1807.3	1805.1	1806.2	1807.3	1806.2	1806.2	1805.1	1804.0	1805.1	1805.1	1808.4
5°	1806.2	1805.1	1806.2	1806.2	1806.2	1807.3	1807.3	1807.3	1810.6	1810.6	1816.1
7.5°	1808.4	1808.4	1810.6	1810.6	1810.6	1810.6	1811.7	1813.9	1819.4	1818.3	1828.2
10°	1812.8	1815.0	1820.5	1821.6	1821.6	1824.9	1827.1	1831.5	1836.9	1839.1	1847.9
12.5°	1818.3	1829.3	1839.1	1841.3	1844.6	1850.1	1853.4	1855.6	1865.4	1868.7	1879.7
15°	1824.9	1840.2	1852.3	1856.7	1861.0	1867.6	1872.0	1875.3	1884.1	1888.4	1901.6
17.5°	1826.0	1843.5	1857.8	1864.3	1869.8	1877.5	1884.1	1890.6	1900.5	1907.1	1920.2
20°	1824.9	1847.9	1869.8	1878.6	1884.1	1898.3	1908.2	1916.9	1929.0	1935.6	1948.7
22.5°	1836.9	1863.2	1892.8	1903.8	1912.6	1932.3	1945.4	1959.7	1975.0	1979.4	1989.3
25°	1865.4	1892.8	1930.1	1945.4	1960.8	1987.1	2005.7	2026.5	2041.9	2044.1	2047.4
27.5°	1913.7	1938.9	1983.8	2006.8	2032.0	2069.3	2096.7	2117.5	2139.4	2139.4	2137.2
30°	2011.2	2016.7	2063.8	2093.4	2130.7	2185.5	2226.0	2249.0	2265.5	2265.5	2246.8
32.5°	2137.2	2130.7	2173.4	2205.2	2256.7	2333.4	2388.2	2405.8	2423.3	2417.8	2386.0
35°	2319.2	2300.5	2324.7	2372.9	2431.0	2536.2	2593.2	2632.6	2643.6	2628.3	2577.8
37.5°	2548.2	2546.1	2558.1	2611.8	2676.5	2812.4	2870.5	2895.7	2886.9	2859.5	2770.7
40°	2790.5	2783.9	2776.2	2812.4	2884.7	3048.0	3151.1	3164.2	3152.2	3111.6	2999.8
42.5°	3113.8	3113.8	3077.6	3087.5	3147.8	3330.8	3452.5	3494.1	3495.2	3436.0	3287.0
45°	3558.8	3554.4	3490.8	3475.5	3521.5	3701.3	3858.0	3881.0	3881.0	3803.2	3639.9
47.5°	4093.6	4088.2	4025.7	3972.0	3980.7	4174.7	4305.2	4340.2	4309.6	4251.5	4057.5
50°	4696.4	4686.6	4623.0	4572.6	4550.7	4746.9	4857.6	4874.0	4829.1	4760.0	4549.6
52.5°	5308.0	5337.6	5300.4	5273.0	5280.6	5407.8	5521.8	5443.9	5420.9	5346.4	5134.9
55°	5944.8	6035.8	6118.0	6093.9	6122.4	6246.2	6268.1	6165.1	6123.5	6069.8	5834.1
57.5°	6586.0	6851.2	7120.8	7196.5	7266.6	7444.2	7419.0	7250.2	7282.0	7362.0	7096.7
60°	7481.4	8247.6	8931.5	9057.5	9275.6	9426.9	9460.8	9428.0	9575.9	9534.3	9299.7
62.5°	8856.9	10133.8	11085.2	11321.9	11541.1	11533.4	11418.3	11300.0	11445.7	11445.7	10833.1
65°	9839.0	11287.9	12306.1	12502.3	12493.5	12229.4	11957.6	11720.8	11700.0	11537.8	10642.4
66°	9885.0	11376.7	12374.1	12545.0	12479.3	12054.0	11728.5	11428.2	11300.0	11074.2	10156.8
67.5°	9470.7	11125.7	12152.7	12301.7	12128.6	11519.2	11070.9	10668.7	10482.3	10102.0	9238.4
70°	7768.6	9561.7	11055.6	11360.3	11164.1	10392.5	9778.7	9235.1	8878.9	8329.8	7707.2
72.5°	5670.8	7059.5	8677.2	9172.6	9141.9	8431.7	7937.4	7439.8	6971.8	6472.0	6017.2
75°	3685.9	4592.3	5494.4	5783.7	5644.5	5233.5	4879.5	4589.0	4145.1	3797.7	3713.3
77.5°	2104.4	2571.3	2432.1	2395.9	2221.6	1793.1	1192.5	836.3	755.2	942.6	1033.5
80°	2002.4	1815.0	1486.2	1340.4	1231.9	839.6	440.6	310.2	271.8	278.4	299.2
82.5°	2257.8	2353.2	1924.6	1607.9	1399.6	1021.5	557.9	259.8	189.6	224.7	252.1
85°	1692.3	2382.7	2361.9	2001.3	1641.8	1177.1	659.8	198.4	114.0	157.8	206.1
87.5°	343.1	564.5	543.6	477.9	406.6	283.9	110.7	62.5	57.0	77.8	118.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4	1808.4
2.5°	1810.6	1810.6	1812.8	1816.1	1817.2	1817.2	1819.4	1817.2	1821.6	1822.7	1823.8
5°	1820.5	1823.8	1826.0	1831.5	1834.7	1836.9	1840.2	1838.0	1842.4	1843.5	1845.7
7.5°	1831.5	1836.9	1841.3	1843.5	1847.9	1847.9	1849.0	1846.8	1845.7	1842.4	1841.3
10°	1851.2	1854.5	1859.9	1857.8	1855.6	1847.9	1841.3	1831.5	1826.0	1816.1	1810.6
12.5°	1883.0	1885.2	1885.2	1875.3	1861.0	1843.5	1827.1	1810.6	1797.5	1786.5	1779.9
15°	1904.9	1909.3	1903.8	1889.5	1868.7	1844.6	1822.7	1800.8	1783.2	1769.0	1760.2
17.5°	1921.3	1920.2	1910.4	1890.6	1870.9	1850.1	1830.4	1807.3	1785.4	1764.6	1751.4
20°	1946.5	1935.6	1918.0	1897.2	1876.4	1858.9	1843.5	1821.6	1798.6	1770.1	1750.3
22.5°	1980.5	1960.8	1935.6	1913.7	1893.9	1877.5	1859.9	1841.3	1817.2	1785.4	1758.0
25°	2028.7	1994.8	1966.3	1944.3	1926.8	1908.2	1888.4	1864.3	1840.2	1807.3	1774.5
27.5°	2102.2	2051.8	2015.6	1995.9	1979.4	1954.2	1929.0	1900.5	1869.8	1835.8	1798.6
30°	2190.9	2130.7	2089.0	2071.5	2051.8	2023.3	1995.9	1956.4	1913.7	1873.1	1827.1
32.5°	2295.1	2233.7	2192.0	2178.9	2147.1	2114.2	2075.9	2023.3	1967.4	1907.1	1852.3
35°	2452.9	2375.1	2336.7	2306.0	2262.2	2222.7	2158.1	2089.0	2009.0	1929.0	1861.0
37.5°	2615.1	2536.2	2496.7	2454.0	2397.0	2324.7	2238.1	2139.4	2033.1	1934.5	1851.2
40°	2832.1	2746.6	2696.2	2630.4	2538.4	2425.5	2297.3	2162.4	2033.1	1910.4	1809.5
42.5°	3085.3	3006.4	2928.6	2820.1	2672.1	2507.7	2327.9	2154.8	1998.0	1856.7	1750.3
45°	3436.0	3301.2	3177.4	3003.1	2787.2	2555.9	2331.2	2118.6	1937.8	1781.0	1662.7
47.5°	3830.6	3656.3	3437.1	3164.2	2869.4	2574.6	2299.5	2050.7	1842.4	1672.5	1543.2
50°	4285.4	4018.0	3681.5	3292.4	2911.0	2549.3	2223.8	1936.7	1710.9	1515.8	1377.7
52.5°	4806.0	4398.3	3902.9	3383.4	2904.5	2472.6	2098.9	1786.5	1534.4	1327.3	1191.4
55°	5383.7	4812.6	4114.5	3441.5	2845.3	2323.6	1902.7	1575.0	1315.2	1111.4	991.9
57.5°	6401.9	5539.3	4517.8	3519.3	2721.4	2097.8	1653.9	1307.6	1073.0	899.8	785.8
60°	8293.6	6809.6	5281.7	3702.4	2535.1	1815.0	1340.4	1025.9	829.7	703.6	619.3
62.5°	9464.1	7703.9	5654.4	3676.1	2232.6	1428.1	995.2	760.6	606.1	522.8	470.2
65°	9186.8	7353.2	5199.5	3157.6	1737.2	1012.7	658.7	497.6	416.5	373.7	348.5
66°	8809.8	6960.8	4814.8	2827.7	1513.6	846.1	543.6	417.6	358.4	326.6	313.5
67.5°	8019.6	6244.0	4152.8	2264.4	1134.4	630.2	401.1	327.7	291.5	275.1	266.3
70°	6712.0	5030.7	2937.3	1337.1	614.9	342.0	256.5	228.0	219.2	213.7	210.4
72.5°	5189.7	3642.1	1716.4	657.6	310.2	221.4	195.1	183.0	179.7	179.7	180.8
75°	3269.4	2093.4	768.3	316.7	210.4	178.7	166.6	161.1	162.2	163.3	162.2
77.5°	1086.2	722.3	320.0	224.7	183.0	162.2	152.3	150.2	152.3	153.4	153.4
80°	312.4	272.9	231.3	198.4	167.7	151.3	142.5	141.4	146.9	148.0	145.8
82.5°	240.0	224.7	209.3	191.8	161.1	142.5	139.2	140.3	143.6	141.4	131.5
85°	220.3	218.1	156.7	155.6	140.3	135.9	132.6	133.7	130.4	118.4	107.4
87.5°	123.9	115.1	88.8	89.9	104.1	107.4	88.8	94.3	87.7	76.7	70.1
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):

	160°	165°	170°	175°	180°
0°	1808.4	1808.4	1808.4	1808.4	1808.4
2.5°	1826.0	1824.9	1824.9	1828.2	1823.8
5°	1846.8	1845.7	1845.7	1849.0	1845.7
7.5°	1836.9	1833.6	1831.5	1830.4	1830.4
10°	1804.0	1800.8	1794.2	1792.0	1789.8
12.5°	1770.1	1766.8	1759.1	1759.1	1756.9
15°	1749.2	1744.9	1739.4	1736.1	1733.9
17.5°	1738.3	1731.7	1725.1	1721.8	1719.7
20°	1733.9	1725.1	1717.5	1712.0	1712.0
22.5°	1735.0	1724.0	1715.3	1708.7	1706.5
25°	1746.0	1729.5	1718.6	1712.0	1709.8
27.5°	1761.3	1741.6	1727.3	1718.6	1715.3
30°	1782.1	1754.7	1735.0	1724.0	1719.7
32.5°	1796.4	1758.0	1732.8	1717.5	1712.0
35°	1795.3	1746.0	1715.3	1695.5	1689.0
37.5°	1775.6	1717.5	1676.9	1652.8	1641.8
40°	1731.7	1664.9	1622.1	1599.1	1585.9
42.5°	1668.1	1595.8	1557.4	1532.2	1518.0
45°	1568.4	1497.2	1450.0	1430.3	1411.7
47.5°	1430.3	1358.0	1317.4	1288.9	1276.9
50°	1268.1	1195.8	1153.0	1130.0	1119.0
52.5°	1090.5	1021.5	990.8	968.9	953.5
55°	906.4	842.8	829.7	805.6	791.3
57.5°	733.2	696.0	683.9	659.8	647.7
60°	573.2	561.2	548.0	532.7	526.1
62.5°	443.9	432.9	429.6	419.8	418.7
65°	338.7	339.8	337.6	335.4	333.2
66°	308.0	306.9	308.0	305.8	304.7
67.5°	261.9	266.3	269.6	268.5	268.5
70°	212.6	215.9	220.3	219.2	219.2
72.5°	181.9	187.4	189.6	188.5	188.5
75°	164.4	169.9	169.9	167.7	166.6
77.5°	153.4	155.6	153.4	151.3	149.1
80°	142.5	140.3	137.0	133.7	131.5
82.5°	123.9	118.4	115.1	109.6	109.6
85°	99.7	95.4	87.7	82.2	76.7
87.5°	64.7	62.5	57.0	42.7	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)