

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: P158473

Luminaire Tested: **VST-F07-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158473
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-F07-LED-E-U-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14713.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 180.5
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



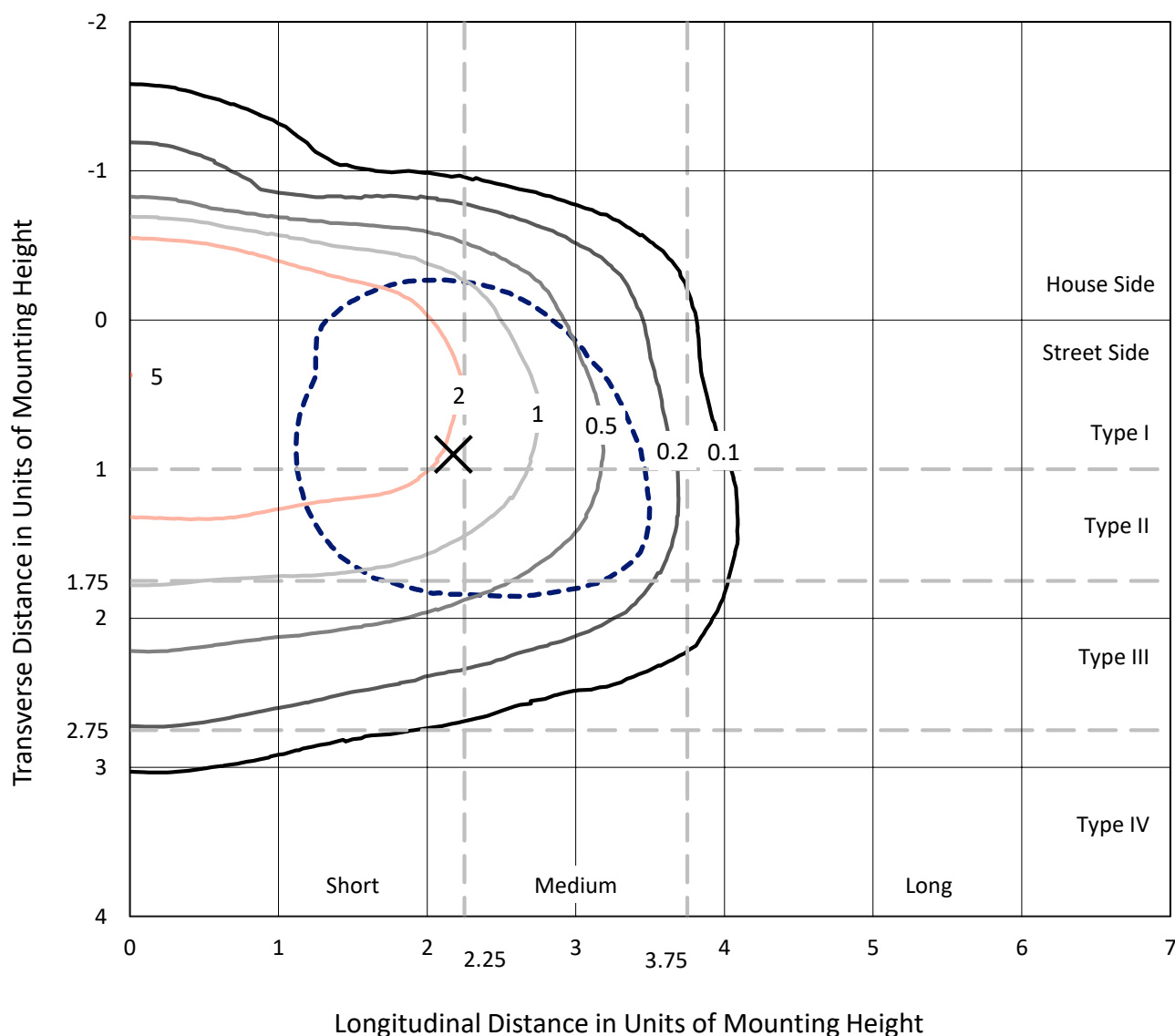
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

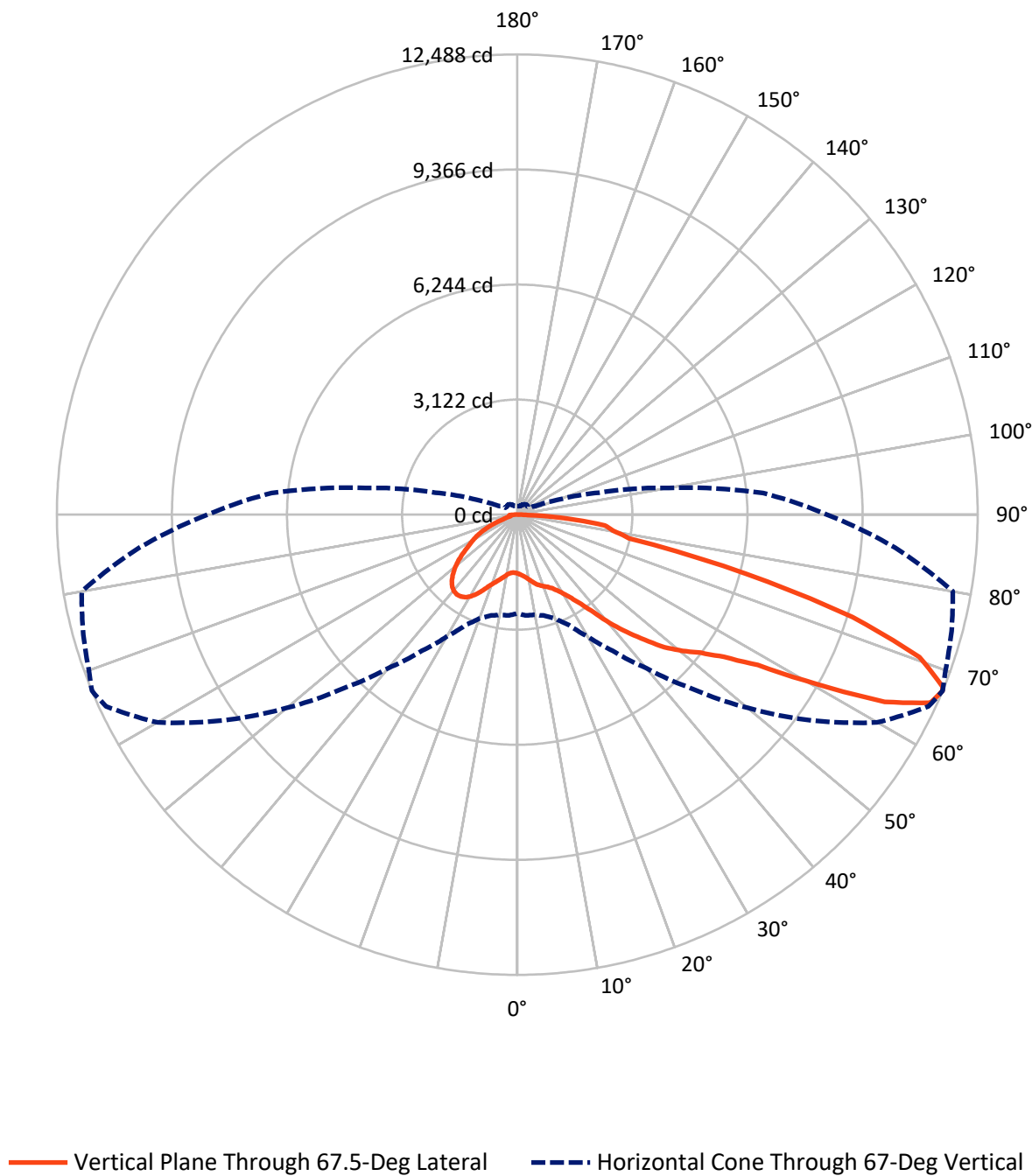


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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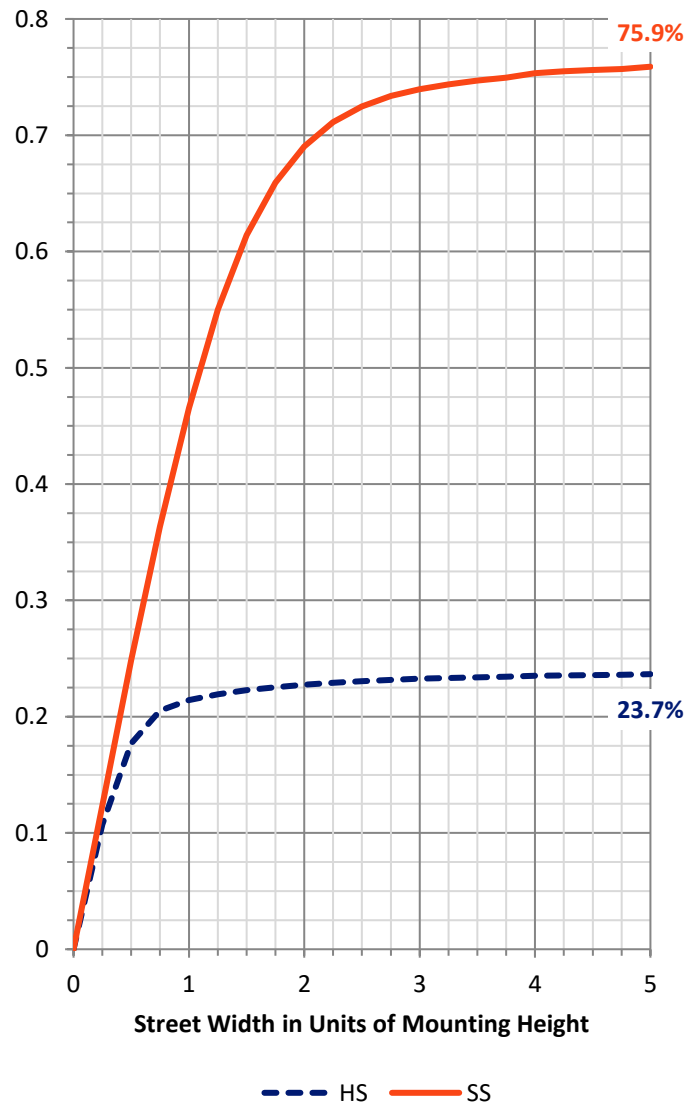
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3529.8	0.0	3529.8
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	11183.9	0.0	11183.9
	% Fixture	76.0	0.0	76.0
Total	Lumens	14713.7	0.0	14713.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.1
10°-20°	540.0	3.7
20°-30°	964.1	6.6
30°-40°	1413.0	9.6
40°-50°	2183.3	14.8
50°-60°	3179.2	21.6
60°-70°	4141.4	28.1
70°-80°	1853.8	12.6
80°-90°	280.3	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°	14713.7	100.0
0°-180°	14713.7	100.0

Coefficient of Utilization



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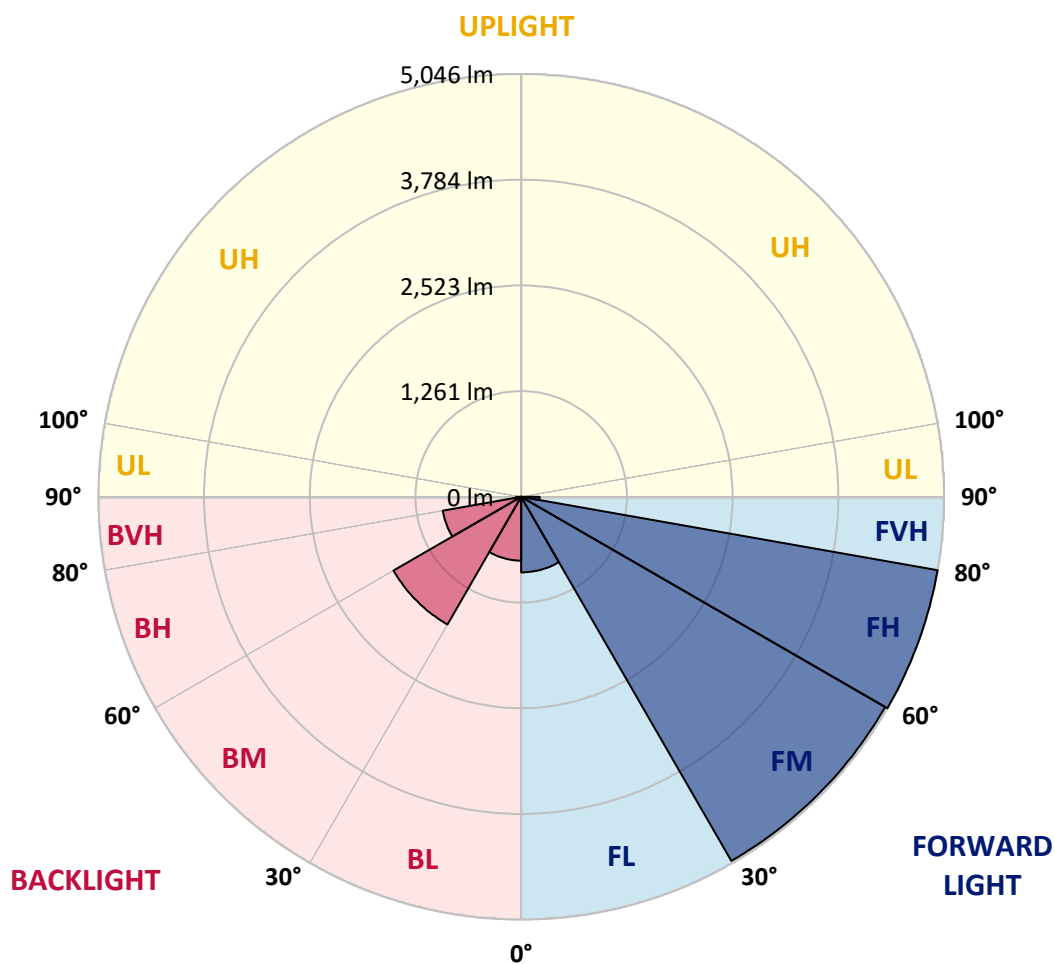
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.5	6.1			
FM	(30°-60°)	5016.6	34.1			
FH	(60°-80°)	5045.6	34.3			G3/7500
FVH	(80°-90°)	220.1	1.5			G2/225
BL	(0°-30°)	761.1	5.2	B2/1000		
BM	(30°-60°)	1758.8	12.0	B2/2500		
BH	(60°-80°)	949.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	60.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8
2.5°	1657.3	1661.2	1662.1	1661.2	1662.1	1658.2	1657.3	1651.4	1654.3	1646.5	1644.6
5°	1747.0	1749.9	1751.9	1744.1	1746.0	1742.1	1737.2	1731.4	1723.6	1712.9	1706.0
7.5°	1834.8	1839.7	1838.7	1835.8	1828.9	1825.0	1815.3	1806.5	1792.8	1780.2	1771.4
10°	1952.8	1951.8	1951.8	1935.3	1925.5	1916.7	1899.2	1885.5	1871.8	1853.3	1843.6
12.5°	2089.4	2082.5	2079.6	2067.9	2047.4	2031.8	2006.5	1980.1	1955.7	1936.2	1920.6
15°	2221.1	2221.1	2213.3	2194.7	2175.2	2154.7	2118.6	2080.6	2040.6	2009.4	1993.8
17.5°	2341.0	2330.3	2323.5	2299.1	2278.6	2245.4	2205.4	2164.5	2114.7	2070.8	2040.6
20°	2428.8	2420.0	2405.4	2375.2	2340.1	2301.0	2254.2	2206.4	2152.8	2105.0	2070.8
22.5°	2479.5	2468.8	2446.4	2406.4	2358.6	2304.0	2249.3	2204.5	2155.7	2119.6	2091.3
25°	2505.9	2495.1	2464.9	2412.2	2347.9	2275.7	2213.3	2169.4	2141.1	2132.3	2128.4
27.5°	2504.9	2496.1	2463.9	2403.5	2320.5	2237.6	2170.3	2133.3	2130.3	2164.5	2189.8
30°	2479.5	2473.7	2444.4	2384.0	2297.1	2210.3	2147.9	2128.4	2158.6	2230.8	2293.2
32.5°	2454.2	2451.3	2430.8	2376.1	2302.0	2228.9	2185.9	2187.9	2250.3	2361.5	2462.0
35°	2457.1	2461.0	2458.1	2428.8	2382.0	2344.0	2323.5	2366.4	2463.9	2598.5	2733.2
37.5°	2482.5	2497.1	2515.6	2518.6	2519.5	2513.7	2556.6	2647.3	2789.7	2965.3	3176.0
40°	2538.1	2554.7	2608.3	2655.1	2715.6	2787.8	2874.6	3000.4	3177.0	3393.5	3652.0
42.5°	2710.7	2734.1	2800.5	2887.3	2998.5	3111.6	3241.4	3413.0	3629.6	3857.8	4129.0
45°	2936.0	2984.8	3058.0	3154.5	3321.3	3480.3	3648.1	3840.3	4070.5	4356.3	4629.4
47.5°	3217.0	3265.7	3372.1	3475.5	3672.5	3870.5	4053.9	4254.8	4504.5	4797.2	5099.5
50°	3462.8	3518.4	3613.0	3752.5	3980.7	4223.6	4426.5	4644.0	4853.7	5162.0	5467.3
52.5°	3655.9	3695.9	3786.6	3914.4	4169.0	4435.3	4691.8	4933.7	5182.5	5490.7	5773.6
55°	3680.3	3717.4	3806.1	3952.4	4210.9	4506.5	4802.0	5088.8	5440.9	5777.5	6152.0
57.5°	3575.0	3605.2	3694.9	3825.6	4077.3	4413.8	4787.4	5155.1	5605.8	6060.3	6517.8
60°	3425.7	3455.9	3526.2	3630.5	3857.8	4220.7	4656.7	5160.0	5758.9	6415.4	7088.4
62.5°	3261.8	3288.2	3344.7	3418.9	3618.8	3953.4	4452.8	5127.8	5883.8	6768.5	7806.4
65°	2985.8	3049.2	3073.6	3149.7	3349.6	3665.7	4173.9	4910.3	5833.1	6925.6	8257.0
67°	2680.5	2744.9	2757.5	2834.6	2994.6	3297.9	3814.9	4507.5	5431.2	6654.4	8157.5
67.5°	2582.9	2637.6	2657.1	2734.1	2885.3	3171.1	3661.8	4362.1	5308.3	6506.1	8037.5
70°	1899.2	1959.6	1981.1	2013.3	2121.6	2359.6	2684.4	3292.1	4232.4	5309.3	6780.2
72.5°	1016.4	1065.2	1085.7	1133.4	1189.0	1318.8	1567.5	2003.5	2597.6	3552.5	4823.5
75°	687.7	707.2	721.8	755.0	812.5	915.9	1025.2	1178.3	1537.3	2004.5	2744.9
77.5°	392.1	400.9	402.9	408.7	454.6	553.1	732.5	992.0	1272.0	1452.4	1755.8
80°	169.7	187.3	200.9	192.2	189.2	209.7	262.4	391.1	766.7	1217.3	1444.6
82.5°	91.7	99.5	111.2	112.2	118.0	124.9	135.6	160.9	226.3	456.5	995.9
85°	47.8	49.7	66.3	76.1	81.0	84.9	86.8	96.6	111.2	141.4	247.8
87.5°	6.8	9.8	11.7	15.6	17.6	18.5	21.5	27.3	32.2	39.0	66.3
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°	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8
2.5°	1635.8	1633.8	1628.0	1624.1	1620.2	1616.3	1611.4	1607.5	1600.7	1595.8	1590.0
5°	1696.3	1684.6	1676.8	1666.0	1664.1	1651.4	1638.7	1632.9	1621.2	1611.4	1599.7
7.5°	1757.7	1744.1	1731.4	1722.6	1717.7	1700.2	1687.5	1672.9	1659.2	1646.5	1632.9
10°	1829.9	1816.3	1802.6	1796.7	1788.0	1771.4	1760.7	1742.1	1728.5	1712.9	1694.3
12.5°	1905.0	1895.3	1885.5	1877.7	1873.8	1866.0	1850.4	1834.8	1816.3	1800.6	1779.2
15°	1971.3	1964.5	1960.6	1958.7	1958.7	1953.8	1939.2	1924.5	1905.0	1887.5	1864.0
17.5°	2018.2	2015.2	2018.2	2021.1	2025.0	2021.1	2018.2	2001.6	1988.9	1967.4	1944.0
20°	2045.5	2051.3	2066.0	2075.7	2084.5	2091.3	2094.2	2080.6	2064.0	2048.4	2032.8
22.5°	2074.7	2091.3	2116.7	2131.3	2145.9	2170.3	2176.2	2166.4	2153.7	2144.0	2127.4
25°	2123.5	2147.9	2191.8	2215.2	2235.7	2271.8	2276.7	2278.6	2275.7	2267.9	2247.4
27.5°	2199.6	2247.4	2305.9	2336.2	2358.6	2405.4	2423.9	2423.9	2416.1	2424.9	2424.9
30°	2332.3	2395.7	2471.7	2489.3	2524.4	2565.4	2595.6	2599.5	2600.5	2619.0	2646.3
32.5°	2536.1	2596.6	2681.5	2701.0	2731.2	2770.2	2804.4	2800.5	2809.2	2849.2	2885.3
35°	2832.6	2894.1	2949.7	2976.0	2989.7	3024.8	3037.5	3058.9	3085.3	3135.0	3130.2
37.5°	3271.6	3326.2	3334.0	3350.6	3334.0	3340.8	3350.6	3376.0	3446.2	3491.1	3418.9
40°	3800.3	3891.0	3882.2	3862.7	3825.6	3775.9	3793.4	3832.5	3908.5	3869.5	3675.4
42.5°	4298.7	4392.4	4374.8	4352.4	4270.4	4251.9	4249.9	4282.1	4323.1	4211.9	3876.4
45°	4789.4	4885.0	4854.7	4842.0	4787.4	4747.4	4780.6	4782.5	4771.8	4533.8	4051.9
47.5°	5295.6	5383.4	5363.9	5374.6	5318.0	5291.7	5294.6	5281.0	5180.5	4806.9	4188.5
50°	5704.3	5822.3	5834.0	5809.7	5779.4	5739.4	5841.8	5804.8	5581.4	5072.2	4320.2
52.5°	6022.3	6181.3	6241.8	6226.2	6201.8	6206.7	6398.8	6440.8	6071.1	5406.8	4465.5
55°	6398.8	6649.5	6748.0	6806.5	6781.2	6878.7	7318.6	7340.1	6751.9	5843.8	4654.8
57.5°	6942.1	7301.1	7612.3	7695.2	7775.2	8092.2	8806.2	8588.7	7635.7	6505.1	4894.7
60°	7768.3	8554.5	9059.8	9325.1	9512.4	9955.2	10634.1	10083.0	8736.9	7292.3	5196.1
62.5°	8925.2	10074.2	10919.0	11185.3	11262.3	11516.9	12008.5	10954.1	9336.8	7645.4	5222.5
65°	9786.5	11164.8	12176.3	12312.8	12221.2	12226.0	12354.8	10908.2	9113.4	7337.2	4769.9
67°	9729.9	11273.0	12308.9	12488.4	12361.6	12194.8	11993.9	10286.9	8395.5	6691.4	4176.8
67.5°	9643.1	11168.7	12251.4	12440.6	12324.6	12134.3	11840.7	10046.0	8172.2	6490.5	4055.8
70°	8336.0	9850.9	11309.1	11575.4	11624.2	11450.6	10626.3	8470.6	6634.9	5280.0	3149.7
72.5°	6488.6	7837.6	9280.2	9511.4	9698.7	9198.3	7734.2	5850.6	4836.2	3805.2	2280.6
75°	4284.1	5656.5	6384.2	6418.3	6179.3	5252.7	3778.8	2930.2	2697.1	2236.7	1411.4
77.5°	2292.3	3326.2	3346.7	3098.9	2985.8	2225.9	903.2	498.4	555.0	630.1	561.8
80°	1709.9	2118.6	2455.2	2639.5	2694.1	1908.9	467.2	264.3	231.2	210.7	207.8
82.5°	1542.2	2046.5	2294.2	2394.7	2369.3	1570.4	262.4	177.5	147.3	160.0	182.4
85°	604.8	1092.5	1436.8	1391.0	1168.6	585.3	143.4	95.6	95.6	138.5	179.5
87.5°	123.9	224.3	304.3	290.7	261.4	113.1	70.2	57.6	58.5	112.2	169.7
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°	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8	1594.8
2.5°	1584.1	1578.2	1574.3	1570.4	1566.5	1564.6	1561.7	1561.7	1555.8	1553.9	1551.9
5°	1590.9	1581.2	1574.3	1565.6	1558.7	1552.9	1545.1	1543.1	1536.3	1531.4	1529.5
7.5°	1620.2	1605.6	1590.9	1580.2	1570.4	1557.8	1549.0	1541.2	1534.4	1529.5	1523.6
10°	1675.8	1660.2	1639.7	1620.2	1607.5	1588.0	1574.3	1560.7	1552.9	1547.0	1539.2
12.5°	1757.7	1735.3	1710.9	1687.5	1666.0	1640.7	1627.0	1610.4	1600.7	1595.8	1590.0
15°	1841.6	1817.2	1787.0	1764.6	1740.2	1720.7	1708.0	1693.3	1685.5	1679.7	1675.8
17.5°	1927.4	1899.2	1877.7	1855.3	1843.6	1828.9	1812.3	1793.8	1771.4	1757.7	1739.2
20°	2015.2	1993.8	1981.1	1968.4	1954.8	1934.3	1901.1	1863.1	1821.1	1781.1	1743.1
22.5°	2117.7	2105.0	2103.0	2091.3	2063.0	2014.3	1952.8	1881.6	1810.4	1744.1	1692.4
25°	2262.0	2262.0	2252.3	2204.5	2138.1	2050.4	1947.0	1844.5	1749.9	1659.2	1590.9
27.5°	2443.5	2436.6	2388.8	2290.3	2171.3	2034.7	1896.2	1766.5	1645.6	1546.1	1458.3
30°	2643.4	2595.6	2493.2	2338.1	2159.6	1984.0	1814.3	1664.1	1521.7	1399.7	1296.3
32.5°	2851.2	2735.1	2550.7	2338.1	2118.6	1907.9	1711.9	1527.5	1364.6	1228.1	1105.2
35°	3039.4	2827.8	2564.4	2300.1	2038.6	1795.8	1568.5	1359.7	1164.7	1017.4	882.8
37.5°	3210.1	2889.2	2549.8	2225.9	1922.6	1637.7	1371.5	1141.3	920.8	778.4	663.3
40°	3321.3	2901.9	2489.3	2109.9	1756.7	1424.1	1129.5	872.0	697.4	567.7	490.6
42.5°	3390.6	2877.5	2391.8	1950.9	1533.4	1155.9	847.6	625.3	495.5	423.3	394.1
45°	3429.6	2814.1	2247.4	1733.3	1263.2	878.9	601.8	451.6	381.4	356.0	346.3
47.5°	3427.7	2711.7	2066.9	1481.7	964.7	612.6	426.3	352.1	332.6	324.8	322.9
50°	3407.2	2585.9	1855.3	1208.6	696.5	427.2	337.5	316.0	311.2	306.3	304.3
52.5°	3378.9	2429.8	1621.2	942.3	494.5	341.4	306.3	300.4	296.5	291.7	289.7
55°	3326.2	2237.6	1367.6	709.1	387.2	308.2	295.6	293.6	288.7	281.9	278.0
57.5°	3261.8	2042.5	1124.7	554.0	342.4	300.4	293.6	290.7	283.9	276.0	268.2
60°	3238.4	1881.6	934.5	467.2	331.6	303.4	298.5	294.6	284.8	273.1	264.3
62.5°	3092.1	1700.2	797.9	433.1	337.5	316.0	314.1	308.2	293.6	279.9	266.3
65°	2713.6	1437.8	676.0	409.7	349.2	337.5	339.4	330.7	316.0	297.5	273.1
67°	2295.2	1172.5	562.8	387.2	358.0	359.9	366.8	359.9	341.4	315.1	281.9
67.5°	2184.0	1105.2	534.5	380.4	359.9	365.8	373.6	368.7	350.2	319.9	285.8
70°	1623.1	778.4	399.0	344.3	359.9	383.3	400.9	405.8	385.3	343.4	293.6
72.5°	1143.2	502.3	306.3	298.5	326.8	358.0	391.1	407.7	384.3	338.5	282.9
75°	686.7	314.1	248.7	253.6	275.1	307.3	333.6	340.4	311.2	281.9	244.8
77.5°	318.0	208.7	195.1	201.9	222.4	237.0	237.0	223.4	200.9	183.4	175.6
80°	187.3	170.7	169.7	182.4	196.1	185.3	168.7	150.2	138.5	132.7	129.7
82.5°	175.6	182.4	194.1	197.0	186.3	160.0	139.5	121.0	115.1	112.2	109.2
85°	206.8	221.4	201.9	186.3	164.8	134.6	109.2	93.6	90.7	87.8	83.9
87.5°	191.2	182.4	159.0	136.6	113.1	81.9	59.5	53.6	57.6	56.6	54.6
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):

	160°	165°	170°	175°	180°
0°	1594.8	1594.8	1594.8	1594.8	1594.8
2.5°	1552.9	1552.9	1549.0	1547.0	1551.9
5°	1525.6	1526.5	1523.6	1522.6	1523.6
7.5°	1519.7	1518.7	1516.8	1514.8	1516.8
10°	1537.3	1536.3	1533.4	1535.3	1532.4
12.5°	1590.0	1595.8	1594.8	1596.8	1600.7
15°	1675.8	1674.8	1671.9	1673.8	1676.8
17.5°	1724.6	1716.8	1709.9	1707.0	1707.0
20°	1712.9	1690.4	1678.7	1671.9	1669.9
22.5°	1643.6	1611.4	1587.0	1581.2	1576.3
25°	1530.4	1490.5	1459.2	1452.4	1439.7
27.5°	1398.8	1345.1	1308.1	1300.2	1293.4
30°	1226.1	1164.7	1121.7	1094.4	1103.2
32.5°	1015.4	956.9	907.1	863.3	856.4
35°	784.2	719.9	676.0	656.5	643.8
37.5°	585.3	531.6	502.3	483.8	484.8
40°	447.7	419.4	403.8	391.1	392.1
42.5°	373.6	360.9	357.0	351.2	348.2
45°	338.5	334.6	335.5	329.7	327.7
47.5°	319.0	316.0	317.0	313.1	312.1
50°	303.4	301.4	302.4	299.5	298.5
52.5°	287.8	288.7	287.8	285.8	285.8
55°	274.1	273.1	275.1	272.1	272.1
57.5°	263.4	262.4	262.4	261.4	261.4
60°	257.5	253.6	252.6	252.6	253.6
62.5°	254.6	247.8	246.8	246.8	247.8
65°	255.6	244.8	240.9	240.0	239.0
67°	256.5	240.9	233.1	229.2	228.3
67.5°	257.5	239.0	230.2	226.3	224.3
70°	251.7	225.3	212.6	205.8	203.9
72.5°	237.0	208.7	193.1	184.4	182.4
75°	210.7	189.2	175.6	165.8	161.9
77.5°	162.9	153.1	148.3	142.4	140.5
80°	126.8	121.9	120.0	116.1	115.1
82.5°	105.3	100.5	97.5	92.7	89.7
85°	81.9	76.1	74.1	70.2	68.3
87.5°	53.6	50.7	49.7	44.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)