

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: P158458

Luminaire Tested: **VST-E06-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158458
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-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15277.2 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - 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



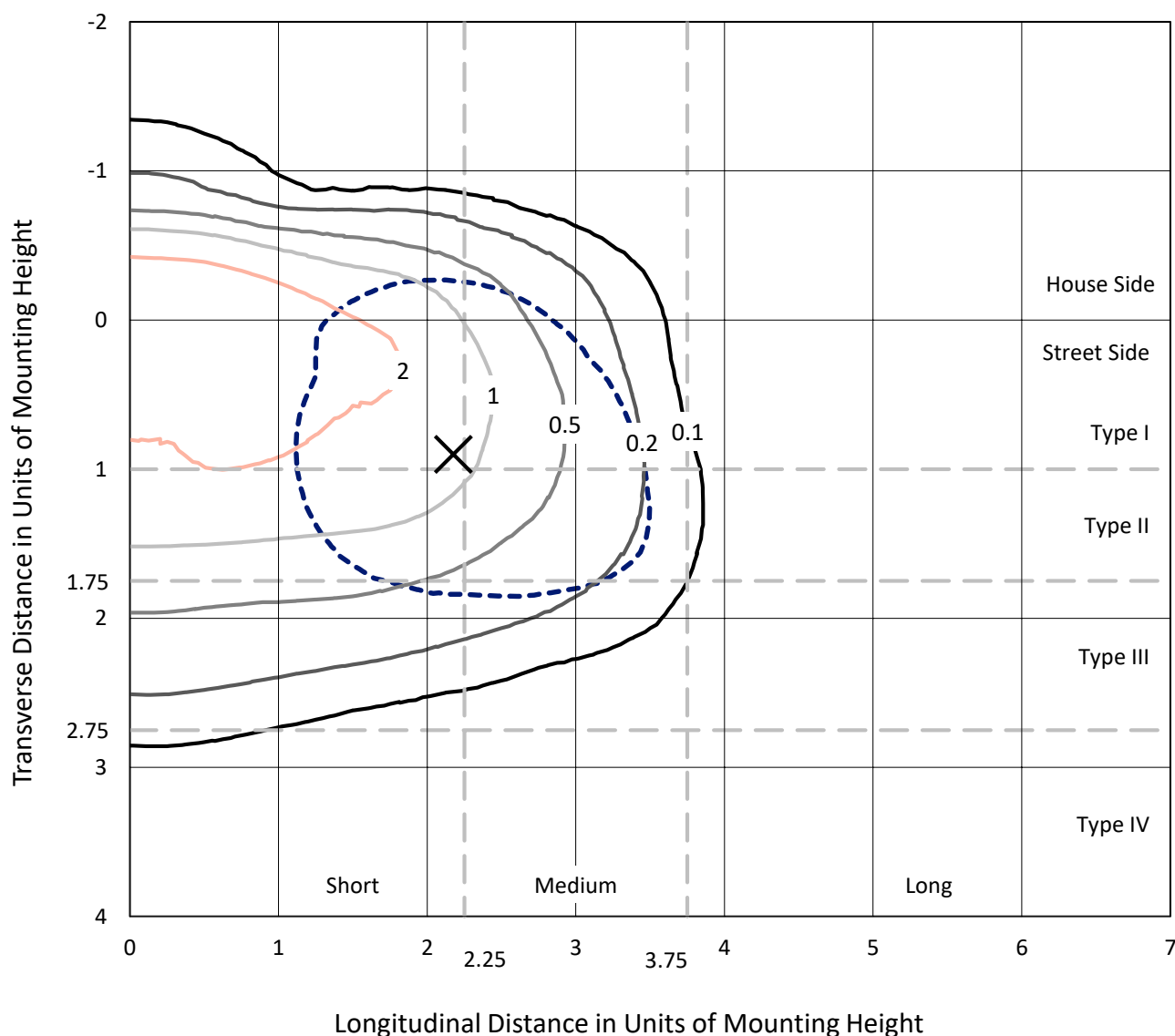
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

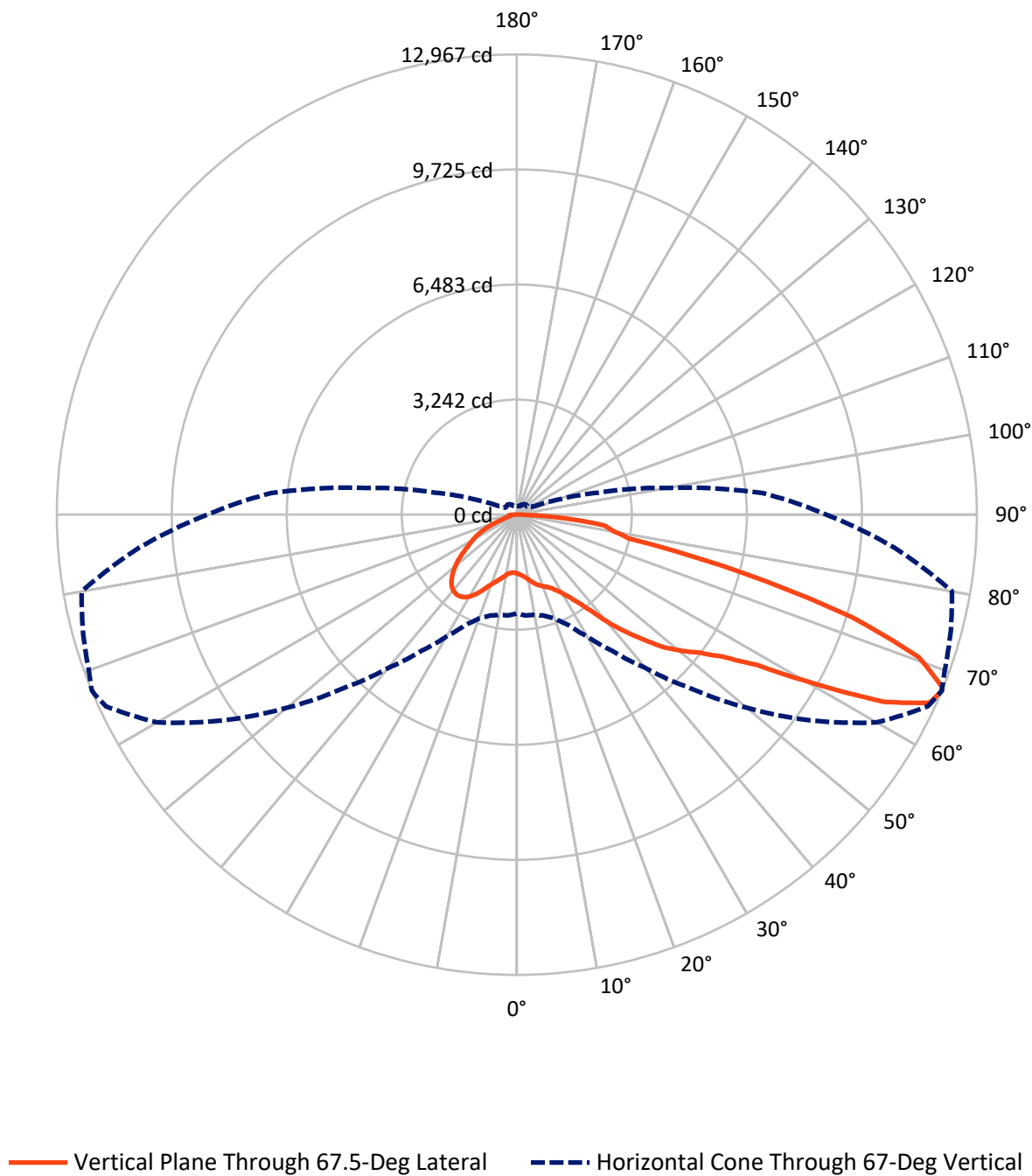


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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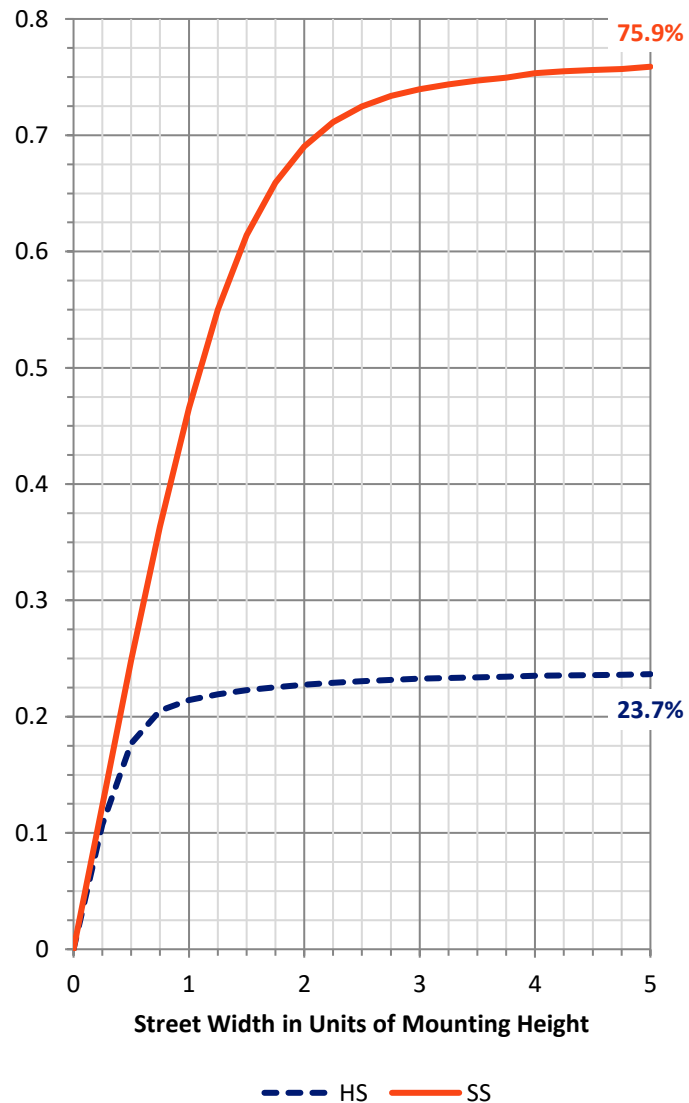
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.0	0.0	3665.0
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	11612.2	0.0	11612.2
	% Fixture	76.0	0.0	76.0
Total	Lumens	15277.2	0.0	15277.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.1
10°-20°	560.7	3.7
20°-30°	1001.1	6.6
30°-40°	1467.1	9.6
40°-50°	2266.9	14.8
50°-60°	3301.0	21.6
60°-70°	4300.1	28.1
70°-80°	1924.8	12.6
80°-90°	291.0	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°	15277.2	100.0
0°-180°	15277.2	100.0

Coefficient of Utilization



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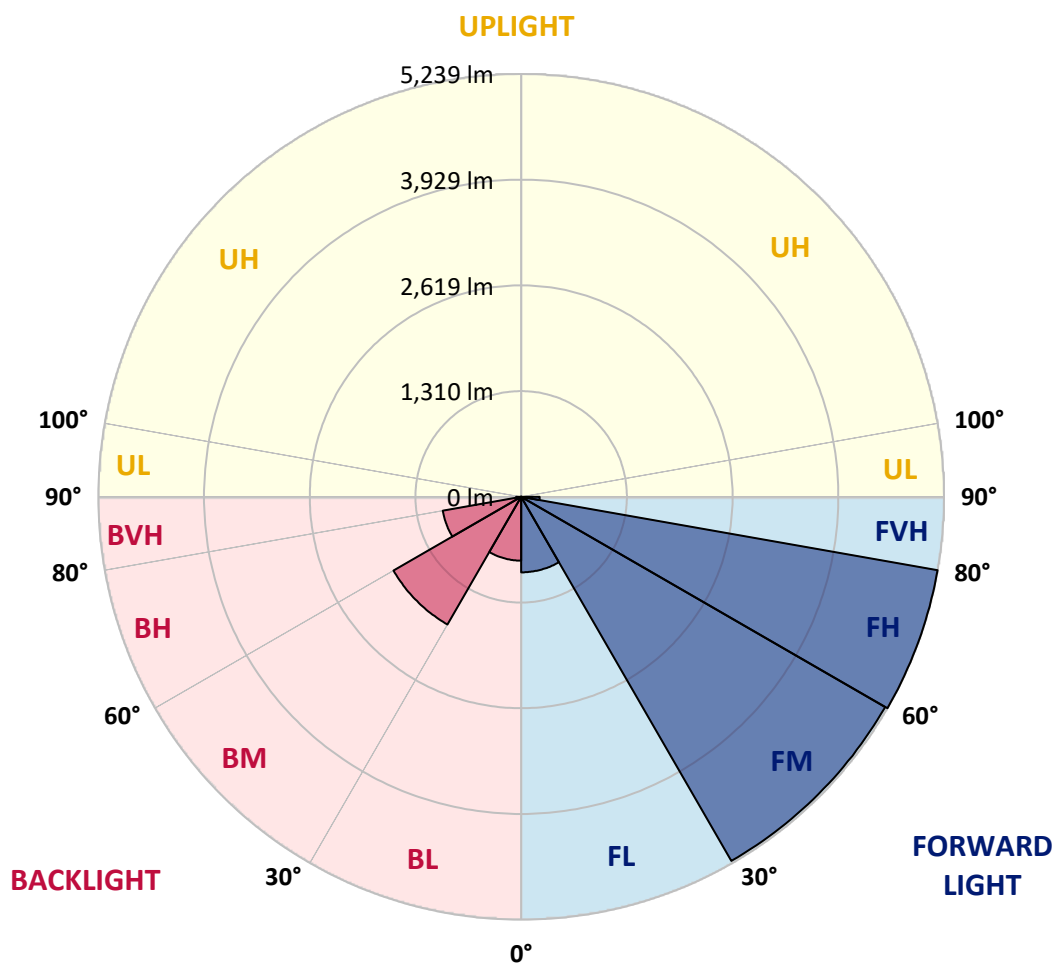
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.0	6.1			
FM	(30°-60°)	5208.7	34.1			
FH	(60°-80°)	5238.9	34.3			G3/7500
FVH	(80°-90°)	228.6	1.5			G3/500
BL	(0°-30°)	790.3	5.2	B2/1000		
BM	(30°-60°)	1826.2	12.0	B2/2500		
BH	(60°-80°)	986.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	62.5	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°	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1720.7	1724.8	1725.8	1724.8	1725.8	1721.7	1720.7	1714.7	1717.7	1709.6	1707.6
5°	1813.9	1816.9	1819.0	1810.9	1812.9	1808.8	1803.8	1797.7	1789.6	1778.5	1771.4
7.5°	1905.1	1910.1	1909.1	1906.1	1899.0	1894.9	1884.8	1875.7	1861.5	1848.3	1839.2
10°	2027.6	2026.6	2026.6	2009.4	1999.2	1990.1	1971.9	1957.7	1943.5	1924.3	1914.2
12.5°	2169.4	2162.3	2159.3	2147.1	2125.8	2109.6	2083.3	2056.0	2030.6	2010.4	1994.2
15°	2306.1	2306.1	2298.0	2278.8	2258.5	2237.3	2199.8	2160.3	2118.8	2086.3	2070.1
17.5°	2430.7	2419.6	2412.5	2387.1	2365.9	2331.4	2289.9	2247.4	2195.7	2150.2	2118.8
20°	2521.8	2512.7	2497.5	2466.1	2429.7	2389.2	2340.6	2290.9	2235.2	2185.6	2150.2
22.5°	2574.5	2563.4	2540.1	2498.6	2448.9	2392.2	2335.5	2288.9	2238.3	2200.8	2171.4
25°	2601.9	2590.7	2559.3	2504.6	2437.8	2362.8	2298.0	2252.4	2223.1	2214.0	2209.9
27.5°	2600.8	2591.7	2558.3	2495.5	2409.4	2323.3	2253.5	2215.0	2211.9	2247.4	2273.7
30°	2574.5	2568.4	2538.0	2475.3	2385.1	2295.0	2230.2	2209.9	2241.3	2316.2	2381.1
32.5°	2548.2	2545.1	2523.9	2467.2	2390.2	2314.2	2269.7	2271.7	2336.5	2452.0	2556.3
35°	2551.2	2555.3	2552.2	2521.8	2473.2	2433.7	2412.5	2457.0	2558.3	2698.1	2837.8
37.5°	2577.5	2592.7	2612.0	2615.0	2616.0	2610.0	2654.5	2748.7	2896.6	3078.9	3297.6
40°	2635.3	2652.5	2708.2	2756.8	2819.6	2894.6	2984.7	3115.3	3298.7	3523.5	3791.9
42.5°	2814.5	2838.8	2907.7	2997.9	3113.3	3230.8	3365.5	3543.7	3768.6	4005.6	4287.1
45°	3048.5	3099.1	3175.1	3275.4	3448.5	3613.6	3787.8	3987.4	4226.4	4523.1	4806.7
47.5°	3340.2	3390.8	3501.2	3608.6	3813.2	4018.7	4209.2	4417.8	4677.1	4980.9	5294.9
50°	3595.4	3653.1	3751.4	3896.2	4133.2	4385.4	4596.0	4821.9	5039.6	5359.7	5676.7
52.5°	3795.9	3837.5	3931.6	4064.3	4328.7	4605.2	4871.5	5122.7	5380.9	5701.0	5994.7
55°	3821.3	3859.7	3951.9	4103.8	4372.2	4679.1	4986.0	5283.7	5649.3	5998.7	6387.7
57.5°	3711.9	3743.3	3836.4	3972.2	4233.5	4582.9	4970.8	5352.6	5820.5	6292.5	6767.5
60°	3556.9	3588.3	3661.2	3769.6	4005.6	4382.3	4835.1	5357.7	5979.5	6661.1	7359.9
62.5°	3386.8	3414.1	3472.9	3549.8	3757.4	4104.8	4623.4	5324.2	6109.1	7027.7	8105.4
65°	3100.1	3166.0	3191.3	3270.3	3477.9	3806.1	4333.7	5098.4	6056.5	7190.8	8573.3
67°	2783.1	2850.0	2863.2	2943.2	3109.3	3424.2	3961.0	4680.1	5639.2	6909.2	8470.0
67.5°	2681.9	2738.6	2758.8	2838.8	2995.8	3292.6	3802.0	4529.2	5511.6	6755.3	8345.4
70°	1971.9	2034.7	2057.0	2090.4	2202.8	2449.9	2787.2	3418.2	4394.5	5512.6	7039.9
72.5°	1055.3	1106.0	1127.2	1176.9	1234.6	1369.3	1627.6	2080.3	2697.1	3688.6	5008.2
75°	714.0	734.3	749.5	783.9	843.7	951.0	1064.4	1223.4	1596.2	2081.3	2850.0
77.5°	407.1	416.3	418.3	424.4	472.0	574.3	760.6	1030.0	1320.7	1508.0	1823.0
80°	176.2	194.5	208.6	199.5	196.5	217.7	272.4	406.1	796.1	1264.0	1499.9
82.5°	95.2	103.3	115.5	116.5	122.5	129.6	140.8	167.1	235.0	474.0	1034.1
85°	49.6	51.7	68.9	79.0	84.1	88.1	90.1	100.3	115.5	146.9	257.2
87.5°	7.1	10.1	12.2	16.2	18.2	19.2	22.3	28.4	33.4	40.5	68.9
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°	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1698.4	1696.4	1690.3	1686.3	1682.2	1678.2	1673.1	1669.1	1662.0	1656.9	1650.8
5°	1761.2	1749.1	1741.0	1729.8	1727.8	1714.7	1701.5	1695.4	1683.3	1673.1	1661.0
7.5°	1825.0	1810.9	1797.7	1788.6	1783.5	1765.3	1752.1	1736.9	1722.8	1709.6	1695.4
10°	1900.0	1885.8	1871.6	1865.6	1856.4	1839.2	1828.1	1808.8	1794.7	1778.5	1759.2
12.5°	1978.0	1967.8	1957.7	1949.6	1945.6	1937.5	1921.3	1905.1	1885.8	1869.6	1847.3
15°	2046.8	2039.8	2035.7	2033.7	2033.7	2028.6	2013.4	1998.2	1978.0	1959.7	1935.4
17.5°	2095.5	2092.4	2095.5	2098.5	2102.6	2098.5	2095.5	2078.2	2065.1	2042.8	2018.5
20°	2123.8	2129.9	2145.1	2155.2	2164.3	2171.4	2174.5	2160.3	2143.1	2126.9	2110.7
22.5°	2154.2	2171.4	2197.8	2212.9	2228.1	2253.5	2259.5	2249.4	2236.2	2226.1	2208.9
25°	2204.8	2230.2	2275.7	2300.0	2321.3	2358.8	2363.8	2365.9	2362.8	2354.7	2333.5
27.5°	2283.8	2333.5	2394.2	2425.6	2448.9	2497.5	2516.8	2516.8	2508.7	2517.8	2517.8
30°	2421.6	2487.4	2566.4	2584.6	2621.1	2663.6	2695.0	2699.1	2700.1	2719.3	2747.7
32.5°	2633.3	2696.0	2784.2	2804.4	2835.8	2876.3	2911.8	2907.7	2916.8	2958.4	2995.8
35°	2941.1	3004.9	3062.7	3090.0	3104.2	3140.7	3153.8	3176.1	3203.5	3255.1	3250.0
37.5°	3396.9	3453.6	3461.7	3478.9	3461.7	3468.8	3478.9	3505.3	3578.2	3624.8	3549.8
40°	3945.8	4040.0	4030.9	4010.6	3972.2	3920.5	3938.7	3979.2	4058.2	4017.7	3816.2
42.5°	4463.4	4560.6	4542.4	4519.1	4434.0	4414.7	4412.7	4446.1	4488.7	4373.2	4024.8
45°	4972.8	5072.0	5040.7	5027.5	4970.8	4929.2	4963.7	4965.7	4954.6	4707.4	4207.1
47.5°	5498.4	5589.6	5569.3	5580.5	5521.7	5494.4	5497.4	5483.2	5378.9	4991.0	4348.9
50°	5922.8	6045.3	6057.5	6032.2	6000.8	5959.3	6065.6	6027.1	5795.2	5266.5	4485.6
52.5°	6253.0	6418.0	6480.8	6464.6	6439.3	6444.4	6643.9	6687.4	6303.6	5613.9	4636.5
55°	6643.9	6904.2	7006.5	7067.2	7040.9	7142.2	7599.0	7621.2	7010.5	6067.6	4833.0
57.5°	7208.0	7580.7	7903.8	7989.9	8072.9	8402.1	9143.5	8917.6	7928.1	6754.3	5082.2
60°	8065.9	8882.2	9406.8	9682.3	9876.7	10336.5	11041.4	10469.2	9071.6	7571.6	5395.1
62.5°	9267.0	10460.1	11337.2	11613.7	11693.7	11958.0	12468.4	11373.6	9694.4	7938.2	5422.5
65°	10161.3	11592.4	12642.6	12784.4	12689.2	12694.3	12828.0	11326.0	9462.5	7618.2	4952.5
67°	10102.6	11704.8	12780.4	12966.7	12835.1	12661.9	12453.3	10680.9	8717.1	6947.7	4336.8
67.5°	10012.4	11596.4	12720.6	12917.1	12796.6	12599.1	12294.2	10430.7	8485.1	6739.1	4211.2
70°	8655.3	10228.2	11742.3	12018.8	12069.4	11889.1	11033.3	8795.1	6889.0	5482.2	3270.3
72.5°	6737.1	8137.8	9635.7	9875.7	10070.2	9550.6	8030.4	6074.7	5021.4	3950.9	2367.9
75°	4448.2	5873.2	6628.7	6664.2	6416.0	5453.9	3923.5	3042.4	2800.4	2322.3	1465.5
77.5°	2380.1	3453.6	3474.9	3217.6	3100.1	2311.2	937.8	517.5	576.3	654.3	583.4
80°	1775.4	2199.8	2549.2	2740.6	2797.3	1982.0	485.1	274.5	240.0	218.8	215.7
82.5°	1601.2	2124.8	2382.1	2486.4	2460.1	1630.6	272.4	184.3	152.9	166.1	189.4
85°	627.9	1134.3	1491.8	1444.2	1213.3	607.7	148.9	99.3	99.3	143.8	186.4
87.5°	128.6	232.9	316.0	301.8	271.4	117.5	72.9	59.8	60.8	116.5	176.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1644.8	1638.7	1634.6	1630.6	1626.5	1624.5	1621.5	1621.5	1615.4	1613.4	1611.3
5°	1651.9	1641.7	1634.6	1625.5	1618.4	1612.4	1604.3	1602.2	1595.1	1590.1	1588.1
7.5°	1682.2	1667.1	1651.9	1640.7	1630.6	1617.4	1608.3	1600.2	1593.1	1588.1	1582.0
10°	1740.0	1723.8	1702.5	1682.2	1669.1	1648.8	1634.6	1620.5	1612.4	1606.3	1598.2
12.5°	1825.0	1801.8	1776.4	1752.1	1729.8	1703.5	1689.3	1672.1	1662.0	1656.9	1650.8
15°	1912.1	1886.8	1855.4	1832.1	1806.8	1786.6	1773.4	1758.2	1750.1	1744.0	1740.0
17.5°	2001.3	1971.9	1949.6	1926.3	1914.2	1899.0	1881.8	1862.5	1839.2	1825.0	1805.8
20°	2092.4	2070.1	2057.0	2043.8	2029.6	2008.4	1973.9	1934.4	1890.9	1849.4	1809.9
22.5°	2198.8	2185.6	2183.6	2171.4	2142.0	2091.4	2027.6	1953.7	1879.7	1810.9	1757.2
25°	2348.7	2348.7	2338.5	2288.9	2220.0	2128.9	2021.5	1915.2	1816.9	1722.8	1651.9
27.5°	2537.0	2529.9	2480.3	2378.0	2254.5	2112.7	1968.9	1834.2	1708.6	1605.3	1514.1
30°	2744.7	2695.0	2588.7	2427.7	2242.3	2060.0	1883.8	1727.8	1580.0	1453.4	1346.0
32.5°	2960.4	2839.9	2648.4	2427.7	2199.8	1981.0	1777.4	1586.0	1416.9	1275.1	1147.5
35°	3155.9	2936.1	2662.6	2388.2	2116.7	1864.5	1628.6	1411.8	1209.3	1056.3	916.6
37.5°	3333.1	2999.9	2647.4	2311.2	1996.2	1700.5	1424.0	1185.0	956.1	808.2	688.7
40°	3448.5	3013.0	2584.6	2190.7	1824.0	1478.7	1172.8	905.4	724.1	589.4	509.4
42.5°	3520.5	2987.7	2483.4	2025.6	1592.1	1200.2	880.1	649.2	514.5	439.6	409.2
45°	3561.0	2921.9	2333.5	1799.7	1311.6	912.5	624.9	468.9	396.0	369.7	359.5
47.5°	3558.9	2815.6	2146.1	1538.4	1001.6	636.0	442.6	365.6	345.4	337.3	335.2
50°	3537.7	2684.9	1926.3	1254.8	723.1	443.6	350.4	328.1	323.1	318.0	316.0
52.5°	3508.3	2522.9	1683.3	978.4	513.5	354.5	318.0	311.9	307.9	302.8	300.8
55°	3453.6	2323.3	1419.9	736.3	402.1	320.0	306.9	304.8	299.8	292.7	288.6
57.5°	3386.8	2120.8	1167.7	575.3	355.5	311.9	304.8	301.8	294.7	286.6	278.5
60°	3362.5	1953.7	970.3	485.1	344.3	315.0	309.9	305.9	295.7	283.6	274.5
62.5°	3210.5	1765.3	828.5	449.7	350.4	328.1	326.1	320.0	304.8	290.7	276.5
65°	2817.6	1492.9	701.9	425.4	362.6	350.4	352.5	343.3	328.1	308.9	283.6
67°	2383.1	1217.4	584.4	402.1	371.7	373.7	380.8	373.7	354.5	327.1	292.7
67.5°	2267.6	1147.5	555.0	395.0	373.7	379.8	387.9	382.8	363.6	332.2	296.7
70°	1685.3	808.2	414.2	357.5	373.7	398.0	416.3	421.3	400.1	356.5	304.8
72.5°	1187.0	521.6	318.0	309.9	339.3	371.7	406.1	423.3	399.0	351.4	293.7
75°	713.0	326.1	258.3	263.3	285.6	319.0	346.4	353.5	323.1	292.7	254.2
77.5°	330.2	216.7	202.6	209.6	230.9	246.1	246.1	231.9	208.6	190.4	182.3
80°	194.5	177.2	176.2	189.4	203.6	192.4	175.2	156.0	143.8	137.7	134.7
82.5°	182.3	189.4	201.5	204.6	193.4	166.1	144.8	125.6	119.5	116.5	113.4
85°	214.7	229.9	209.6	193.4	171.2	139.8	113.4	97.2	94.2	91.2	87.1
87.5°	198.5	189.4	165.1	141.8	117.5	85.1	61.8	55.7	59.8	58.7	56.7
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):

	160°	165°	170°	175°	180°
0°	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1612.4	1612.4	1608.3	1606.3	1611.3
5°	1584.0	1585.0	1582.0	1581.0	1582.0
7.5°	1577.9	1576.9	1574.9	1572.9	1574.9
10°	1596.2	1595.1	1592.1	1594.1	1591.1
12.5°	1650.8	1656.9	1655.9	1657.9	1662.0
15°	1740.0	1739.0	1735.9	1737.9	1741.0
17.5°	1790.6	1782.5	1775.4	1772.4	1772.4
20°	1778.5	1755.2	1743.0	1735.9	1733.9
22.5°	1706.5	1673.1	1647.8	1641.7	1636.7
25°	1589.1	1547.5	1515.1	1508.0	1494.9
27.5°	1452.3	1396.6	1358.2	1350.0	1343.0
30°	1273.1	1209.3	1164.7	1136.3	1145.5
32.5°	1054.3	993.5	941.9	896.3	889.2
35°	814.3	747.4	701.9	681.6	668.4
37.5°	607.7	552.0	521.6	502.3	503.4
40°	464.9	435.5	419.3	406.1	407.1
42.5°	387.9	374.7	370.7	364.6	361.6
45°	351.4	347.4	348.4	342.3	340.3
47.5°	331.2	328.1	329.2	325.1	324.1
50°	315.0	313.0	314.0	310.9	309.9
52.5°	298.8	299.8	298.8	296.7	296.7
55°	284.6	283.6	285.6	282.6	282.6
57.5°	273.5	272.4	272.4	271.4	271.4
60°	267.4	263.3	262.3	262.3	263.3
62.5°	264.3	257.2	256.2	256.2	257.2
65°	265.4	254.2	250.2	249.1	248.1
67°	266.4	250.2	242.1	238.0	237.0
67.5°	267.4	248.1	239.0	235.0	232.9
70°	261.3	234.0	220.8	213.7	211.7
72.5°	246.1	216.7	200.5	191.4	189.4
75°	218.8	196.5	182.3	172.2	168.1
77.5°	169.1	159.0	153.9	147.9	145.8
80°	131.7	126.6	124.6	120.5	119.5
82.5°	109.4	104.3	101.3	96.2	93.2
85°	85.1	79.0	77.0	72.9	70.9
87.5°	55.7	52.7	51.7	46.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)