

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: P158467

Luminaire Tested: **VST-F06-LED-E-U-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158467
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-F06-LED-E-U-SL3-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15333.1 lumens
Efficiency: N/A
Efficacy: 98.0 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): 156.5
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

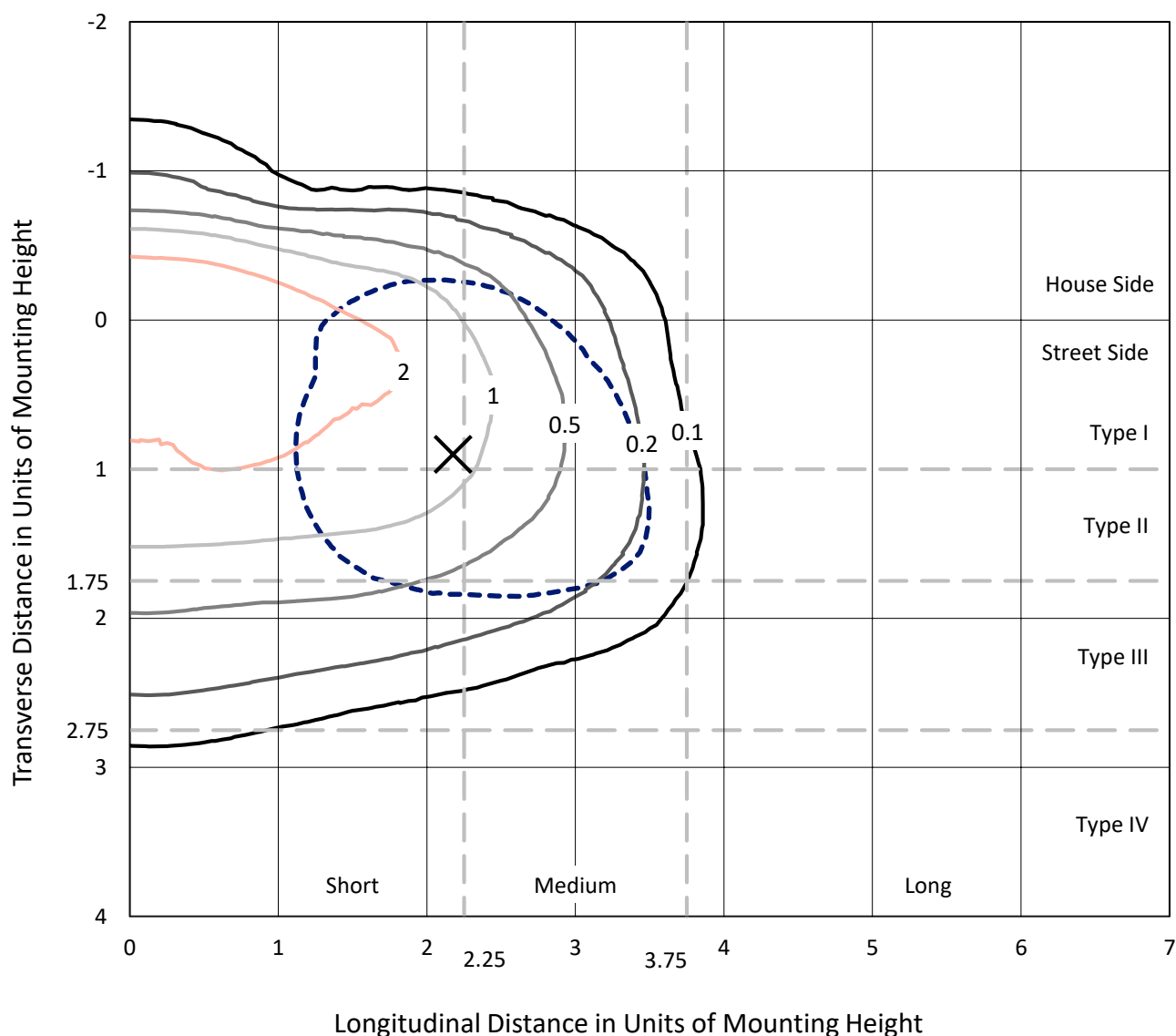


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

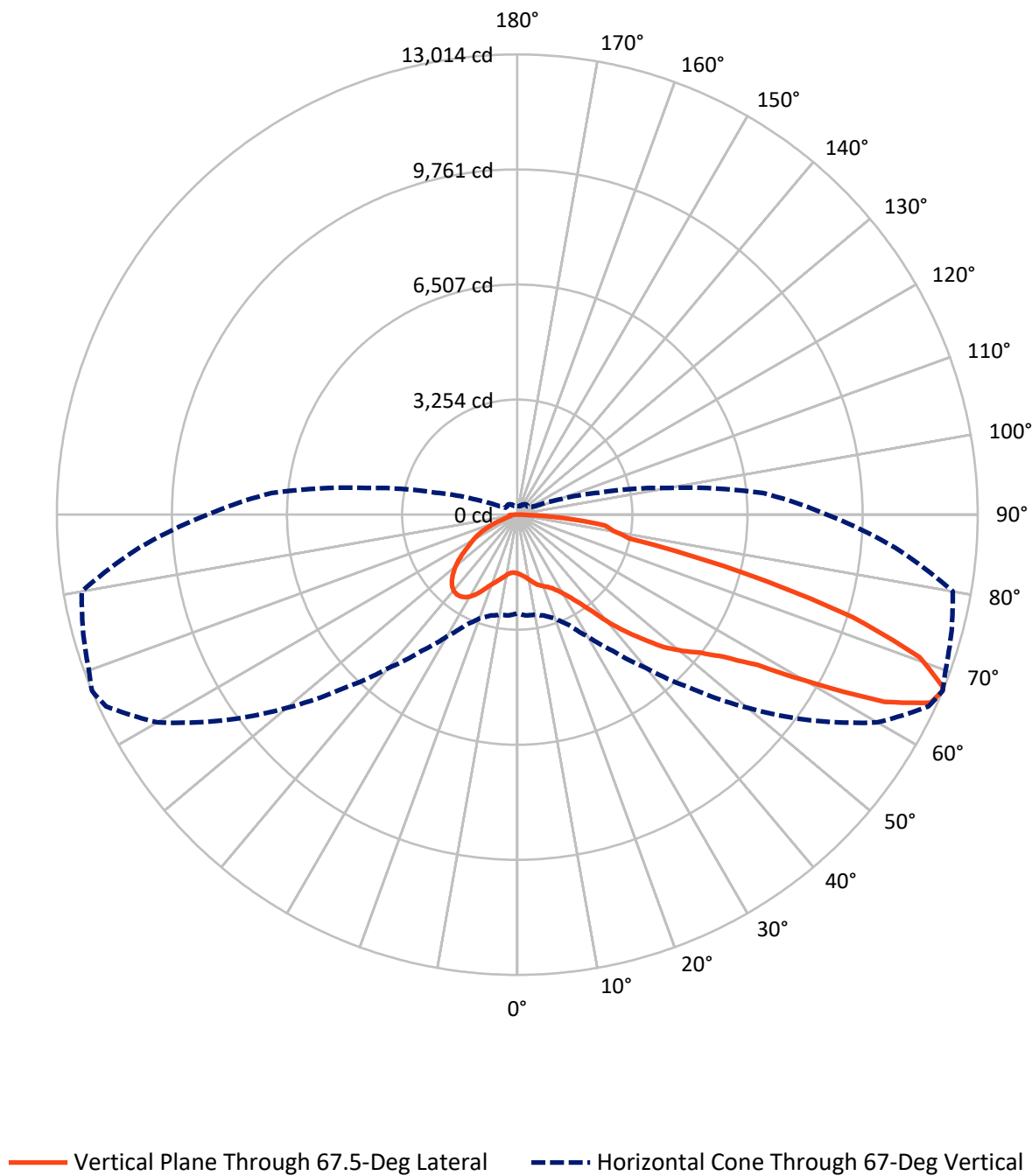


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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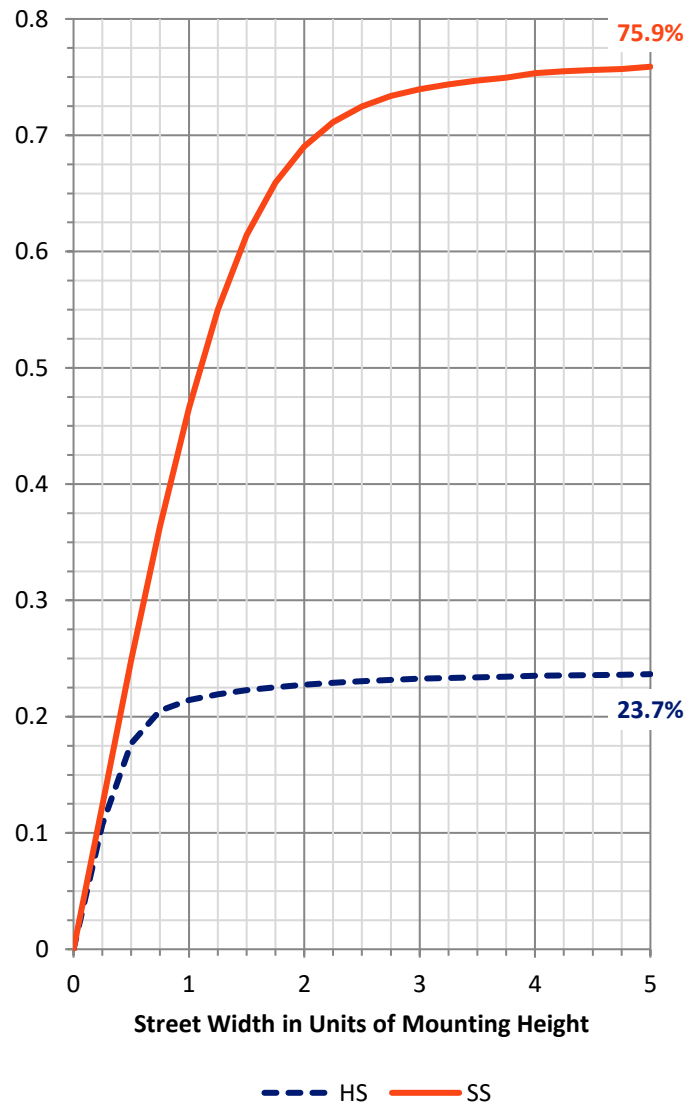
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3678.4	0.0	3678.4
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	11654.7	0.0	11654.7
	% Fixture	76.0	0.0	76.0
Total	Lumens	15333.1	0.0	15333.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.1
10°-20°	562.8	3.7
20°-30°	1004.7	6.6
30°-40°	1472.5	9.6
40°-50°	2275.2	14.8
50°-60°	3313.0	21.6
60°-70°	4315.8	28.1
70°-80°	1931.9	12.6
80°-90°	292.1	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°	15333.1	100.0
0°-180°	15333.1	100.0

Coefficient of Utilization



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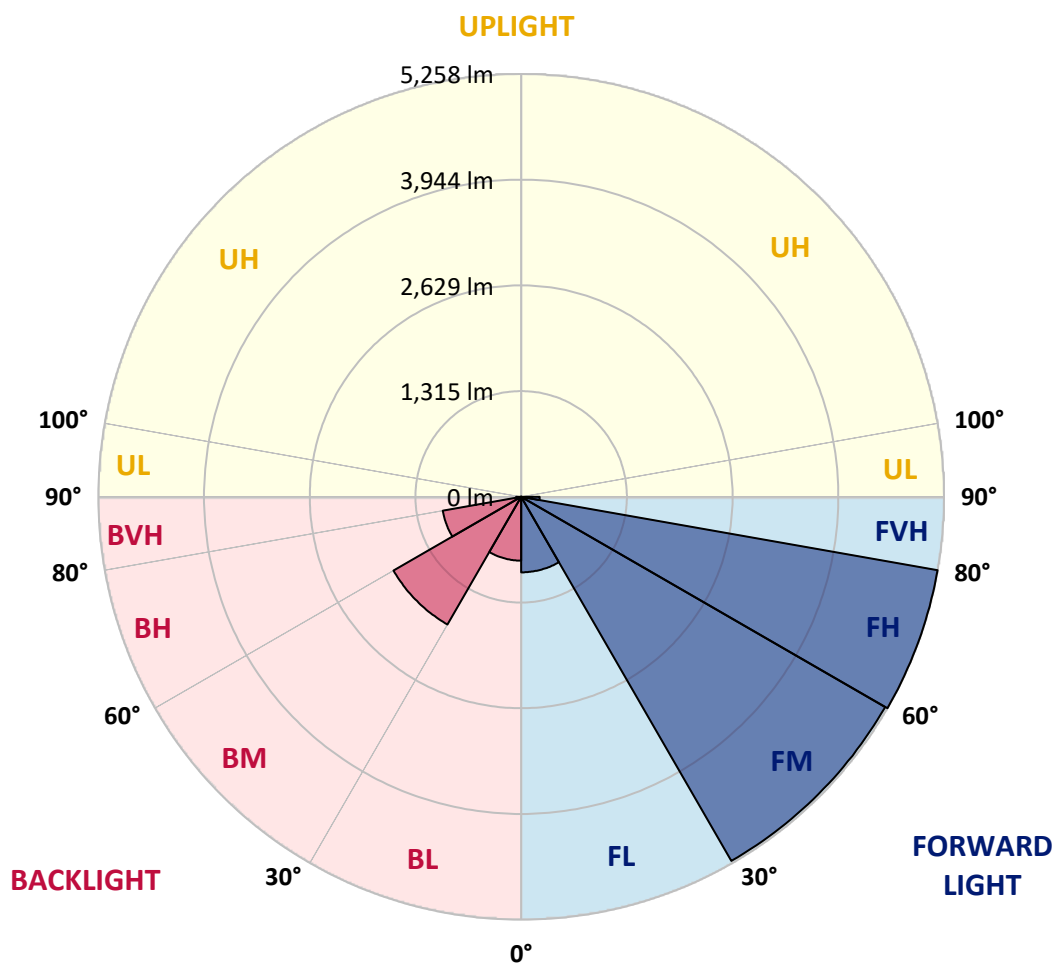
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.5	6.1			
FM	(30°-60°)	5227.8	34.1			
FH	(60°-80°)	5258.0	34.3			G3/7500
FVH	(80°-90°)	229.4	1.5			G3/500
BL	(0°-30°)	793.2	5.2	B2/1000		
BM	(30°-60°)	1832.9	12.0	B2/2500		
BH	(60°-80°)	989.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	62.7	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°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1727.0	1731.1	1732.1	1731.1	1732.1	1728.0	1727.0	1720.9	1724.0	1715.8	1713.8
5°	1820.5	1823.6	1825.6	1817.5	1819.5	1815.5	1810.4	1804.3	1796.1	1785.0	1777.8
7.5°	1912.0	1917.1	1916.1	1913.0	1905.9	1901.9	1891.7	1882.5	1868.3	1855.1	1845.9
10°	2035.0	2034.0	2034.0	2016.7	2006.6	1997.4	1979.1	1964.9	1950.6	1931.3	1921.2
12.5°	2177.3	2170.2	2167.2	2155.0	2133.6	2117.4	2090.9	2063.5	2038.1	2017.7	2001.5
15°	2314.5	2314.5	2306.4	2287.1	2266.8	2245.4	2207.8	2168.2	2126.5	2094.0	2077.7
17.5°	2439.6	2428.4	2421.3	2395.9	2374.5	2340.0	2298.3	2255.6	2203.8	2158.0	2126.5
20°	2531.1	2521.9	2506.7	2475.2	2438.6	2397.9	2349.1	2299.3	2243.4	2193.6	2158.0
22.5°	2583.9	2572.7	2549.4	2507.7	2457.9	2401.0	2344.0	2297.3	2246.4	2208.8	2179.4
25°	2611.4	2600.2	2568.7	2513.8	2446.7	2371.5	2306.4	2260.7	2231.2	2222.0	2218.0
27.5°	2610.3	2601.2	2567.7	2504.6	2418.2	2331.8	2261.7	2223.1	2220.0	2255.6	2282.0
30°	2583.9	2577.8	2547.3	2484.3	2393.8	2303.4	2238.3	2218.0	2249.5	2324.7	2389.8
32.5°	2557.5	2554.4	2533.1	2476.2	2398.9	2322.7	2278.0	2280.0	2345.0	2460.9	2565.6
35°	2560.5	2564.6	2561.6	2531.1	2482.3	2442.6	2421.3	2466.0	2567.7	2707.9	2848.2
37.5°	2587.0	2602.2	2621.5	2624.6	2625.6	2619.5	2664.2	2758.8	2907.2	3090.1	3309.7
40°	2644.9	2662.2	2718.1	2766.9	2829.9	2905.1	2995.6	3126.7	3310.7	3536.4	3805.7
42.5°	2824.8	2849.2	2918.3	3008.8	3124.7	3242.6	3377.8	3556.7	3782.4	4020.2	4302.8
45°	3059.6	3110.5	3186.7	3287.3	3461.2	3626.8	3801.7	4001.9	4241.8	4539.6	4824.3
47.5°	3352.4	3403.2	3514.0	3621.8	3827.1	4033.4	4224.5	4433.9	4694.2	4999.1	5314.2
50°	3608.5	3666.5	3765.1	3910.4	4148.3	4401.4	4612.8	4839.5	5058.1	5379.3	5697.4
52.5°	3809.8	3851.5	3946.0	4079.2	4344.5	4622.0	4889.3	5141.4	5400.6	5721.8	6016.6
55°	3835.2	3873.8	3966.3	4118.8	4388.2	4696.2	5004.2	5303.0	5670.0	6020.7	6411.0
57.5°	3725.4	3756.9	3850.5	3986.7	4248.9	4599.6	4988.9	5372.2	5841.8	6315.5	6792.2
60°	3569.9	3601.4	3674.6	3783.4	4020.2	4398.4	4852.7	5377.2	6001.4	6685.5	7386.8
62.5°	3399.1	3426.6	3485.5	3562.8	3771.2	4119.8	4640.3	5343.7	6131.5	7053.4	8135.0
65°	3111.5	3177.6	3203.0	3282.2	3490.6	3820.0	4349.6	5117.0	6078.6	7217.1	8604.6
67°	2793.3	2860.4	2873.6	2953.9	3120.6	3436.8	3975.5	4697.2	5659.8	6934.5	8500.9
67.5°	2691.7	2748.6	2768.9	2849.2	3006.8	3304.6	3815.9	4545.7	5531.7	6780.0	8375.9
70°	1979.1	2042.1	2064.5	2098.0	2210.9	2458.9	2797.4	3430.7	4410.6	5532.8	7065.6
72.5°	1059.2	1110.0	1131.4	1181.2	1239.1	1374.3	1633.5	2087.9	2706.9	3702.1	5026.5
75°	716.6	737.0	752.2	786.8	846.7	954.5	1068.3	1227.9	1602.0	2088.9	2860.4
77.5°	408.6	417.8	419.8	425.9	473.7	576.4	763.4	1033.8	1325.5	1513.6	1829.7
80°	176.9	195.2	209.4	200.2	197.2	218.5	273.4	407.6	799.0	1268.6	1505.4
82.5°	95.6	103.7	115.9	116.9	123.0	130.1	141.3	167.7	235.8	475.7	1037.8
85°	49.8	51.8	69.1	79.3	84.4	88.4	90.5	100.6	115.9	147.4	258.2
87.5°	7.1	10.2	12.2	16.3	18.3	19.3	22.4	28.5	33.5	40.7	69.1
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1704.7	1702.6	1696.5	1692.5	1688.4	1684.3	1679.2	1675.2	1668.1	1663.0	1656.9
5°	1767.7	1755.5	1747.3	1736.2	1734.1	1720.9	1707.7	1701.6	1689.4	1679.2	1667.0
7.5°	1831.7	1817.5	1804.3	1795.1	1790.0	1771.7	1758.5	1743.3	1729.1	1715.8	1701.6
10°	1906.9	1892.7	1878.5	1872.4	1863.2	1845.9	1834.8	1815.5	1801.2	1785.0	1765.6
12.5°	1985.2	1975.0	1964.9	1956.7	1952.7	1944.5	1928.3	1912.0	1892.7	1876.4	1854.1
15°	2054.3	2047.2	2043.1	2041.1	2041.1	2036.0	2020.8	2005.5	1985.2	1966.9	1942.5
17.5°	2103.1	2100.1	2103.1	2106.2	2110.2	2106.2	2103.1	2085.8	2072.6	2050.3	2025.9
20°	2131.6	2137.7	2152.9	2163.1	2172.2	2179.4	2182.4	2168.2	2150.9	2134.6	2118.4
22.5°	2162.1	2179.4	2205.8	2221.0	2236.3	2261.7	2267.8	2257.6	2244.4	2234.2	2217.0
25°	2212.9	2238.3	2284.1	2308.5	2329.8	2367.4	2372.5	2374.5	2371.5	2363.3	2342.0
27.5°	2292.2	2342.0	2403.0	2434.5	2457.9	2506.7	2526.0	2526.0	2517.8	2527.0	2527.0
30°	2430.4	2496.5	2575.8	2594.1	2630.7	2673.4	2704.9	2708.9	2710.0	2729.3	2757.7
32.5°	2642.9	2705.9	2794.3	2814.7	2846.2	2886.8	2922.4	2918.3	2927.5	2969.2	3006.8
35°	2951.9	3015.9	3073.9	3101.3	3115.5	3152.1	3165.4	3187.7	3215.2	3267.0	3261.9
37.5°	3409.3	3466.2	3474.4	3491.6	3474.4	3481.5	3491.6	3518.1	3591.3	3638.0	3562.8
40°	3960.2	4054.8	4045.6	4025.3	3986.7	3934.8	3953.1	3993.8	4073.1	4032.4	3830.1
42.5°	4479.7	4577.3	4559.0	4535.6	4450.2	4430.9	4428.9	4462.4	4505.1	4389.2	4039.5
45°	4991.0	5090.6	5059.1	5045.9	4988.9	4947.3	4981.8	4983.9	4972.7	4724.6	4222.5
47.5°	5518.5	5610.0	5589.7	5600.9	5541.9	5514.5	5517.5	5503.3	5398.6	5009.3	4364.8
50°	5944.4	6067.4	6079.6	6054.2	6022.7	5981.0	6087.8	6049.1	5816.4	5285.8	4502.0
52.5°	6275.8	6441.5	6504.5	6488.3	6462.8	6467.9	6668.2	6711.9	6326.6	5634.4	4653.5
55°	6668.2	6929.4	7032.1	7093.1	7066.6	7168.3	7626.7	7649.1	7036.1	6089.8	4850.7
57.5°	7234.4	7608.4	7932.7	8019.1	8102.4	8432.8	9176.9	8950.2	7957.1	6779.0	5100.8
60°	8095.3	8914.6	9441.2	9717.7	9912.8	10374.3	11081.8	10507.5	9104.7	7599.3	5414.8
62.5°	9300.9	10498.3	11378.6	11656.1	11736.4	12001.7	12514.0	11415.2	9729.8	7967.3	5442.3
65°	10198.5	11634.8	12688.9	12831.2	12735.6	12740.7	12874.9	11367.4	9497.1	7646.0	4970.6
67°	10139.5	11747.6	12827.1	13014.1	12882.0	12708.2	12498.8	10719.9	8748.9	6973.1	4352.6
67.5°	10049.0	11638.8	12767.1	12964.3	12843.4	12645.1	12339.2	10468.8	8516.2	6763.7	4226.6
70°	8686.9	10265.5	11785.2	12062.7	12113.5	11932.6	11073.7	8827.2	6914.2	5502.3	3282.2
72.5°	6761.7	8167.5	9670.9	9911.8	10107.0	9585.5	8059.8	6096.9	5039.8	3965.3	2376.6
75°	4464.4	5894.6	6652.9	6688.5	6439.5	5473.8	3937.9	3053.5	2810.6	2330.8	1470.9
77.5°	2388.8	3466.2	3487.6	3229.4	3111.5	2319.6	941.3	519.4	578.4	656.7	585.5
80°	1781.9	2207.8	2558.5	2750.6	2807.5	1989.3	486.9	275.5	240.9	219.6	216.5
82.5°	1607.1	2132.6	2390.8	2495.5	2469.1	1636.6	273.4	185.0	153.5	166.7	190.1
85°	630.2	1138.5	1497.3	1449.5	1217.8	609.9	149.4	99.6	99.6	144.3	187.0
87.5°	129.1	233.8	317.1	302.9	272.4	117.9	73.2	60.0	61.0	116.9	176.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1650.8	1644.7	1640.6	1636.6	1632.5	1630.5	1627.4	1627.4	1621.3	1619.3	1617.2
5°	1657.9	1647.7	1640.6	1631.5	1624.4	1618.3	1610.1	1608.1	1601.0	1595.9	1593.9
7.5°	1688.4	1673.1	1657.9	1646.7	1636.6	1623.3	1614.2	1606.1	1598.9	1593.9	1587.8
10°	1746.3	1730.1	1708.7	1688.4	1675.2	1654.8	1640.6	1626.4	1618.3	1612.2	1604.0
12.5°	1831.7	1808.3	1782.9	1758.5	1736.2	1709.7	1695.5	1678.2	1668.1	1663.0	1656.9
15°	1919.1	1893.7	1862.2	1838.8	1813.4	1793.1	1779.9	1764.6	1756.5	1750.4	1746.3
17.5°	2008.6	1979.1	1956.7	1933.4	1921.2	1905.9	1888.6	1869.3	1845.9	1831.7	1812.4
20°	2100.1	2077.7	2064.5	2051.3	2037.0	2015.7	1981.1	1941.5	1897.8	1856.1	1816.5
22.5°	2206.8	2193.6	2191.6	2179.4	2149.9	2099.1	2035.0	1960.8	1886.6	1817.5	1763.6
25°	2357.2	2357.2	2347.1	2297.3	2228.1	2136.7	2028.9	1922.2	1823.6	1729.1	1657.9
27.5°	2546.3	2539.2	2489.4	2386.7	2262.7	2120.4	1976.1	1840.9	1714.8	1611.1	1519.7
30°	2754.7	2704.9	2598.2	2436.5	2250.5	2067.5	1890.7	1734.1	1585.7	1458.7	1350.9
32.5°	2971.2	2850.2	2658.1	2436.5	2207.8	1988.3	1783.9	1591.8	1422.1	1279.8	1151.7
35°	3167.4	2946.8	2672.4	2396.9	2124.5	1871.4	1634.5	1417.0	1213.7	1060.2	919.9
37.5°	3345.3	3010.8	2657.1	2319.6	2003.5	1706.7	1429.2	1189.3	959.6	811.2	691.2
40°	3461.2	3024.1	2594.1	2198.7	1830.7	1484.1	1177.1	908.7	726.8	591.6	511.3
42.5°	3533.3	2998.6	2492.4	2033.0	1597.9	1204.5	883.3	651.6	516.4	441.2	410.7
45°	3574.0	2932.6	2342.0	1806.3	1316.4	915.9	627.2	470.6	397.4	371.0	360.9
47.5°	3571.9	2825.8	2153.9	1544.0	1005.3	638.4	444.2	367.0	346.6	338.5	336.5
50°	3550.6	2694.7	1933.4	1259.4	725.8	445.2	351.7	329.3	324.3	319.2	317.1
52.5°	3521.1	2532.1	1689.4	981.9	515.4	355.8	319.2	313.1	309.0	303.9	301.9
55°	3466.2	2331.8	1425.1	739.0	403.5	321.2	308.0	306.0	300.9	293.8	289.7
57.5°	3399.1	2128.5	1172.0	577.4	356.8	313.1	306.0	302.9	295.8	287.7	279.5
60°	3374.7	1960.8	973.8	486.9	345.6	316.1	311.0	307.0	296.8	284.6	275.5
62.5°	3222.3	1771.7	831.5	451.3	351.7	329.3	327.3	321.2	306.0	291.7	277.5
65°	2827.9	1498.3	704.4	426.9	363.9	351.7	353.7	344.6	329.3	310.0	284.6
67°	2391.8	1221.8	586.5	403.5	373.1	375.1	382.2	375.1	355.8	328.3	293.8
67.5°	2275.9	1151.7	557.0	396.4	375.1	381.2	389.3	384.2	364.9	333.4	297.8
70°	1691.4	811.2	415.7	358.8	375.1	399.5	417.8	422.9	401.5	357.8	306.0
72.5°	1191.3	523.5	319.2	311.0	340.5	373.1	407.6	424.9	400.5	352.7	294.8
75°	715.6	327.3	259.2	264.3	286.7	320.2	347.6	354.8	324.3	293.8	255.1
77.5°	331.4	217.5	203.3	210.4	231.8	247.0	247.0	232.8	209.4	191.1	183.0
80°	195.2	177.9	176.9	190.1	204.3	193.1	175.9	156.5	144.3	138.2	135.2
82.5°	183.0	190.1	202.3	205.3	194.1	166.7	145.4	126.0	119.9	116.9	113.8
85°	215.5	230.7	210.4	194.1	171.8	140.3	113.8	97.6	94.5	91.5	87.4
87.5°	199.2	190.1	165.7	142.3	117.9	85.4	62.0	55.9	60.0	59.0	56.9
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):

	160°	165°	170°	175°	180°
0°	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1618.3	1618.3	1614.2	1612.2	1617.2
5°	1589.8	1590.8	1587.8	1586.7	1587.8
7.5°	1583.7	1582.7	1580.6	1578.6	1580.6
10°	1602.0	1601.0	1597.9	1600.0	1596.9
12.5°	1656.9	1663.0	1662.0	1664.0	1668.1
15°	1746.3	1745.3	1742.3	1744.3	1747.3
17.5°	1797.2	1789.0	1781.9	1778.9	1778.9
20°	1785.0	1761.6	1749.4	1742.3	1740.2
22.5°	1712.8	1679.2	1653.8	1647.7	1642.6
25°	1594.9	1553.2	1520.7	1513.6	1500.3
27.5°	1457.6	1401.7	1363.1	1355.0	1347.9
30°	1277.7	1213.7	1169.0	1140.5	1149.7
32.5°	1058.2	997.2	945.3	899.6	892.5
35°	817.3	750.2	704.4	684.1	670.9
37.5°	609.9	554.0	523.5	504.2	505.2
40°	466.6	437.1	420.8	407.6	408.6
42.5°	389.3	376.1	372.0	365.9	362.9
45°	352.7	348.7	349.7	343.6	341.5
47.5°	332.4	329.3	330.4	326.3	325.3
50°	316.1	314.1	315.1	312.1	311.0
52.5°	299.9	300.9	299.9	297.8	297.8
55°	285.6	284.6	286.7	283.6	283.6
57.5°	274.5	273.4	273.4	272.4	272.4
60°	268.4	264.3	263.3	263.3	264.3
62.5°	265.3	258.2	257.2	257.2	258.2
65°	266.3	255.1	251.1	250.1	249.0
67°	267.3	251.1	242.9	238.9	237.9
67.5°	268.4	249.0	239.9	235.8	233.8
70°	262.3	234.8	221.6	214.5	212.4
72.5°	247.0	217.5	201.3	192.1	190.1
75°	219.6	197.2	183.0	172.8	168.7
77.5°	169.8	159.6	154.5	148.4	146.4
80°	132.1	127.1	125.0	121.0	119.9
82.5°	109.8	104.7	101.6	96.6	93.5
85°	85.4	79.3	77.3	73.2	71.2
87.5°	55.9	52.9	51.8	46.8	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)