

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: P158474

Luminaire Tested: **VST-F07-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158474
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15922.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - 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



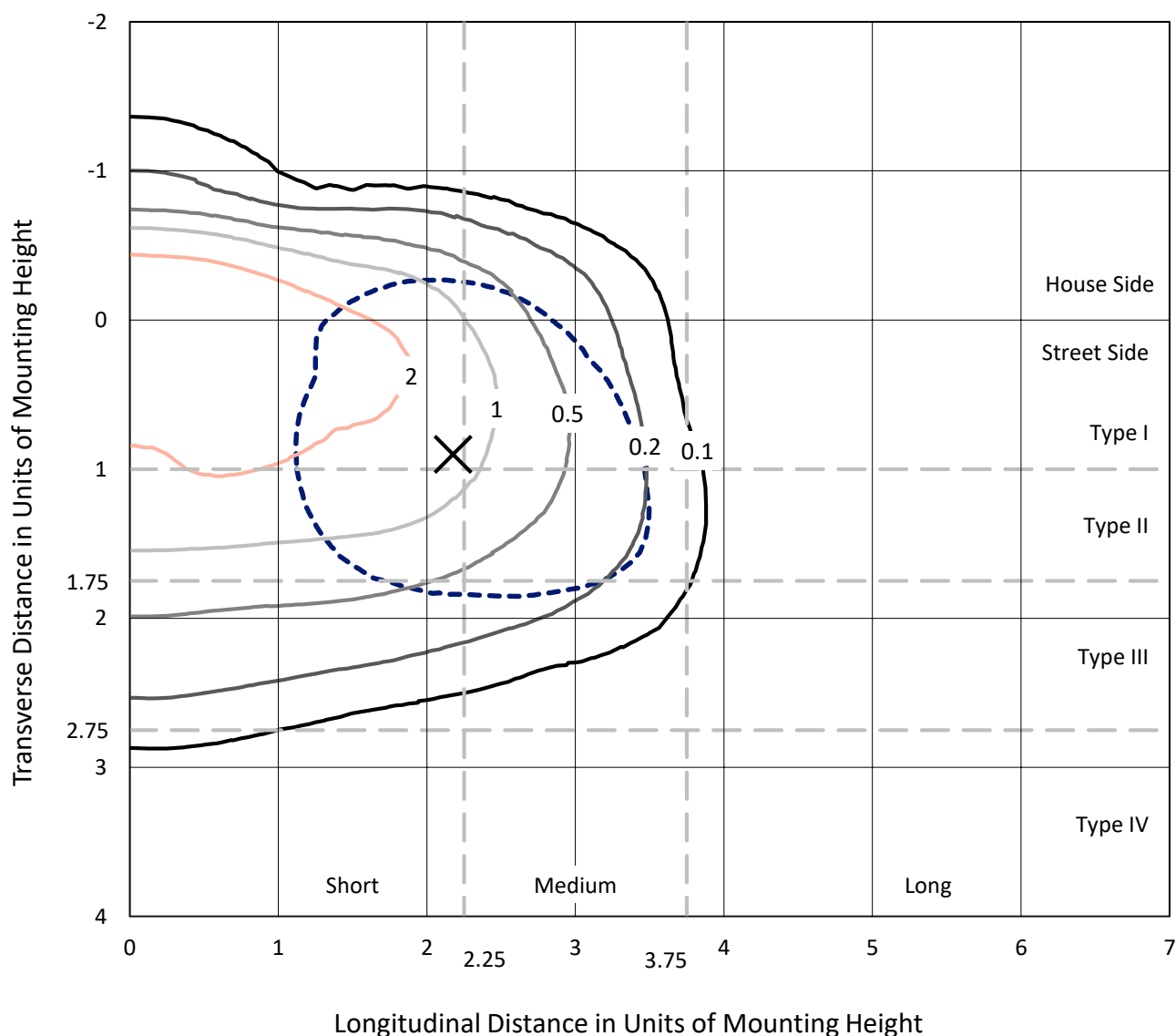
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

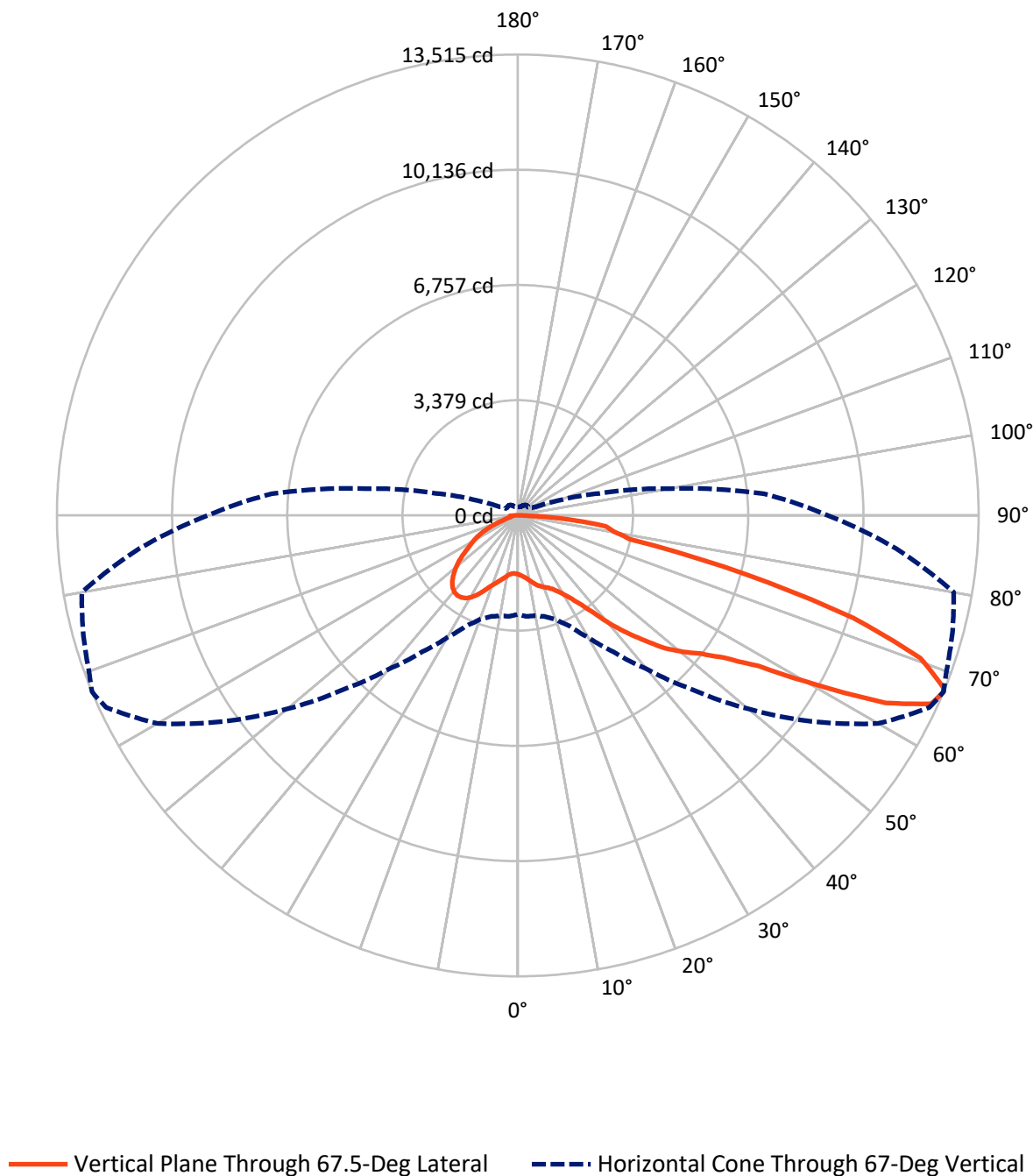


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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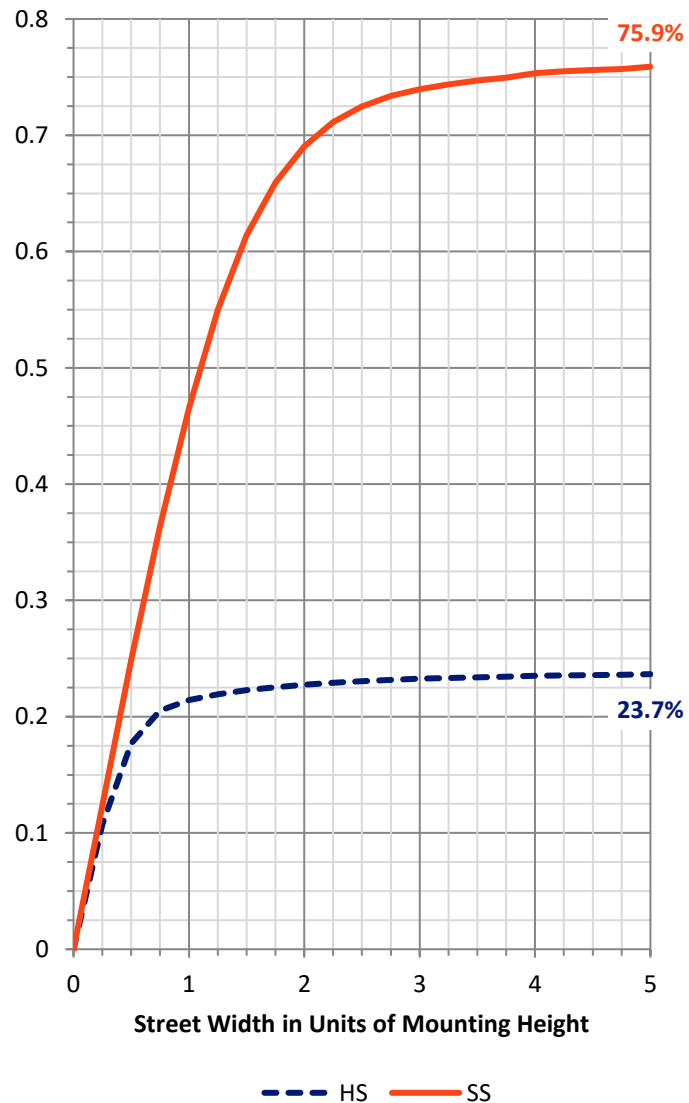
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3819.9	0.0	3819.9
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	12103.0	0.0	12103.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	15922.9	0.0	15922.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	1.1
10°-20°	584.4	3.7
20°-30°	1043.4	6.6
30°-40°	1529.1	9.6
40°-50°	2362.7	14.8
50°-60°	3440.5	21.6
60°-70°	4481.8	28.1
70°-80°	2006.2	12.6
80°-90°	303.3	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°	15922.9	100.0
0°-180°	15922.9	100.0

Coefficient of Utilization



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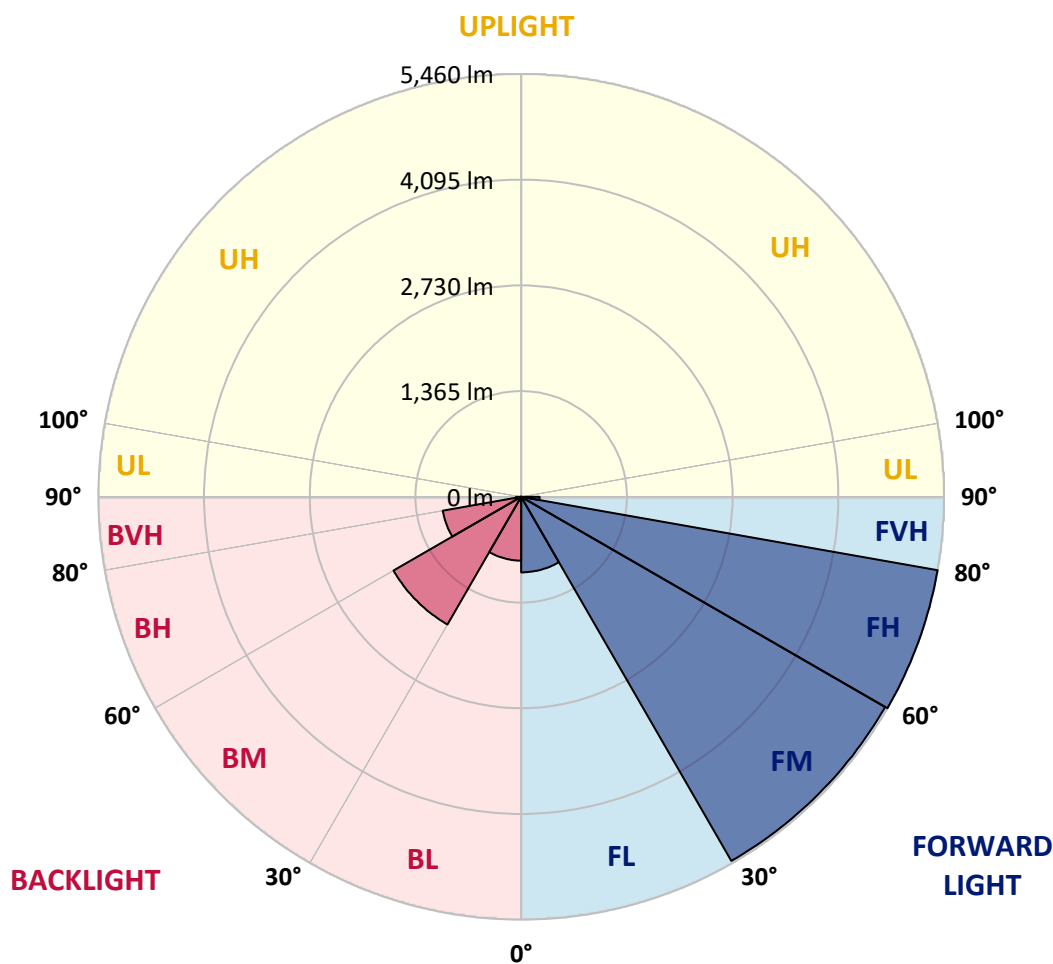
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.6	6.1			
FM	(30°-60°)	5428.9	34.1			
FH	(60°-80°)	5460.3	34.3			G3/7500
FVH	(80°-90°)	238.2	1.5			G3/500
BL	(0°-30°)	823.7	5.2	B2/1000		
BM	(30°-60°)	1903.4	12.0	B2/2500		
BH	(60°-80°)	1027.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	65.1	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°	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1793.4	1797.7	1798.7	1797.7	1798.7	1794.5	1793.4	1787.1	1790.3	1781.8	1779.7
5°	1890.6	1893.7	1895.8	1887.4	1889.5	1885.3	1880.0	1873.7	1865.2	1853.6	1846.2
7.5°	1985.6	1990.8	1989.8	1986.6	1979.2	1975.0	1964.5	1955.0	1940.2	1926.5	1917.0
10°	2113.3	2112.2	2112.2	2094.3	2083.7	2074.2	2055.2	2040.5	2025.7	2005.6	1995.1
12.5°	2261.1	2253.7	2250.5	2237.9	2215.7	2198.8	2171.4	2142.8	2116.5	2095.3	2078.5
15°	2403.6	2403.6	2395.1	2375.1	2354.0	2331.8	2292.7	2251.6	2208.3	2174.5	2157.6
17.5°	2533.4	2521.8	2514.4	2488.0	2465.9	2430.0	2386.7	2342.4	2288.5	2241.0	2208.3
20°	2628.4	2618.9	2603.1	2570.4	2532.4	2490.1	2439.5	2387.7	2329.7	2278.0	2241.0
22.5°	2683.3	2671.7	2647.4	2604.1	2552.4	2493.3	2434.2	2385.6	2332.9	2293.8	2263.2
25°	2711.8	2700.2	2667.5	2610.5	2540.8	2462.7	2395.1	2347.6	2317.0	2307.5	2303.3
27.5°	2710.8	2701.3	2666.4	2601.0	2511.3	2421.5	2348.7	2308.6	2305.4	2342.4	2369.8
30°	2683.3	2677.0	2645.3	2579.9	2485.9	2392.0	2324.4	2303.3	2336.0	2414.1	2481.7
32.5°	2655.9	2652.7	2630.5	2571.4	2491.2	2412.0	2365.6	2367.7	2435.2	2555.6	2664.3
35°	2659.0	2663.3	2660.1	2628.4	2577.8	2536.6	2514.4	2560.9	2666.4	2812.1	2957.8
37.5°	2686.5	2702.3	2722.4	2725.5	2726.6	2720.3	2766.7	2864.9	3019.0	3209.0	3437.0
40°	2746.6	2764.6	2822.6	2873.3	2938.8	3016.9	3110.8	3247.0	3438.1	3672.4	3952.1
42.5°	2933.5	2958.8	3030.6	3124.5	3244.9	3367.3	3507.7	3693.5	3927.9	4174.9	4468.3
45°	3177.3	3230.1	3309.3	3413.8	3594.3	3766.3	3947.9	4155.9	4405.0	4714.3	5009.8
47.5°	3481.3	3534.1	3649.2	3761.1	3974.3	4188.6	4387.0	4604.5	4874.7	5191.4	5518.6
50°	3747.3	3807.5	3909.9	4060.9	4307.9	4570.7	4790.3	5025.7	5252.6	5586.2	5916.6
52.5°	3956.4	3999.6	4097.8	4236.1	4511.6	4799.8	5077.4	5339.2	5608.4	5941.9	6248.0
55°	3982.7	4022.9	4118.9	4277.3	4557.0	4876.8	5196.7	5507.0	5888.1	6252.3	6657.6
57.5°	3868.7	3901.5	3998.6	4140.0	4412.4	4776.5	5180.8	5578.8	6066.5	6558.4	7053.5
60°	3707.2	3740.0	3816.0	3928.9	4174.9	4567.5	5039.4	5584.1	6232.2	6942.6	7671.0
62.5°	3529.9	3558.4	3619.6	3699.8	3916.2	4278.3	4818.8	5549.2	6367.3	7324.7	8447.9
65°	3231.2	3299.8	3326.2	3408.5	3624.9	3966.9	4516.9	5313.8	6312.4	7494.7	8935.6
67°	2900.8	2970.4	2984.2	3067.5	3240.7	3569.0	4128.4	4877.9	5877.5	7201.2	8827.9
67.5°	2795.2	2854.3	2875.4	2958.8	3122.4	3431.7	3962.7	4720.6	5744.5	7040.8	8698.1
70°	2055.2	2120.7	2143.9	2178.7	2295.9	2553.5	2905.0	3562.6	4580.2	5745.6	7337.4
72.5°	1099.9	1152.7	1174.9	1226.6	1286.8	1427.2	1696.3	2168.2	2811.0	3844.5	5219.9
75°	744.2	765.3	781.1	817.0	879.3	991.2	1109.4	1275.2	1663.6	2169.2	2970.4
77.5°	424.3	433.8	436.0	442.3	491.9	598.5	792.7	1073.5	1376.5	1571.8	1900.1
80°	183.7	202.7	217.5	208.0	204.8	227.0	284.0	423.3	829.7	1317.4	1563.3
82.5°	99.2	107.7	120.3	121.4	127.7	135.1	146.7	174.2	244.9	494.0	1077.8
85°	51.7	53.8	71.8	82.3	87.6	91.8	93.9	104.5	120.3	153.1	268.1
87.5°	7.4	10.6	12.7	16.9	19.0	20.1	23.2	29.6	34.8	42.2	71.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1770.2	1768.1	1761.8	1757.6	1753.3	1749.1	1743.8	1739.6	1732.2	1726.9	1720.6
5°	1835.7	1823.0	1814.6	1802.9	1800.8	1787.1	1773.4	1767.1	1754.4	1743.8	1731.2
7.5°	1902.2	1887.4	1873.7	1864.2	1858.9	1839.9	1826.2	1810.3	1795.6	1781.8	1767.1
10°	1980.3	1965.5	1950.7	1944.4	1934.9	1917.0	1905.3	1885.3	1870.5	1853.6	1833.6
12.5°	2061.6	2051.0	2040.5	2032.0	2027.8	2019.3	2002.5	1985.6	1965.5	1948.6	1925.4
15°	2133.3	2126.0	2121.7	2119.6	2119.6	2114.3	2098.5	2082.7	2061.6	2042.6	2017.2
17.5°	2184.0	2180.9	2184.0	2187.2	2191.4	2187.2	2184.0	2166.1	2152.3	2129.1	2103.8
20°	2213.6	2219.9	2235.7	2246.3	2255.8	2263.2	2266.4	2251.6	2233.6	2216.7	2199.9
22.5°	2245.2	2263.2	2290.6	2306.5	2322.3	2348.7	2355.0	2344.5	2330.7	2320.2	2302.2
25°	2298.0	2324.4	2371.9	2397.2	2419.4	2458.5	2463.7	2465.9	2462.7	2454.2	2432.1
27.5°	2380.4	2432.1	2495.4	2528.1	2552.4	2603.1	2623.1	2623.1	2614.7	2624.2	2624.2
30°	2523.9	2592.5	2674.9	2693.9	2731.9	2776.2	2808.9	2813.1	2814.2	2834.3	2863.8
32.5°	2744.5	2810.0	2901.8	2922.9	2955.7	2997.9	3034.8	3030.6	3040.1	3083.4	3122.4
35°	3065.4	3131.9	3192.1	3220.6	3235.4	3273.4	3287.1	3310.3	3338.8	3392.7	3387.4
37.5°	3540.5	3599.6	3608.0	3626.0	3608.0	3615.4	3626.0	3653.4	3729.4	3778.0	3699.8
40°	4112.6	4210.8	4201.3	4180.1	4140.0	4086.2	4105.2	4147.4	4229.8	4187.5	3977.5
42.5°	4652.0	4753.3	4734.3	4710.0	4621.4	4601.3	4599.2	4634.0	4678.4	4558.0	4194.9
45°	5183.0	5286.4	5253.7	5240.0	5180.8	5137.6	5173.5	5175.6	5164.0	4906.4	4384.9
47.5°	5730.8	5825.8	5804.7	5816.3	5755.1	5726.6	5729.7	5715.0	5606.2	5202.0	4532.7
50°	6173.1	6300.8	6313.5	6287.1	6254.4	6211.1	6321.9	6281.8	6040.1	5489.1	4675.2
52.5°	6517.2	6689.3	6754.7	6737.8	6711.4	6716.7	6924.7	6970.1	6570.0	5851.1	4832.5
55°	6924.7	7196.0	7302.6	7365.9	7338.5	7444.0	7920.1	7943.3	7306.8	6324.0	5037.3
57.5°	7512.6	7901.1	8237.8	8327.6	8414.1	8757.2	9529.9	9294.5	8263.2	7039.7	5297.0
60°	8406.7	9257.5	9804.3	10091.4	10294.1	10773.4	11508.1	10911.6	9454.9	7891.6	5623.1
62.5°	9658.7	10902.1	11816.3	12104.5	12187.9	12463.4	12995.4	11854.3	10104.1	8273.7	5651.6
65°	10590.7	12082.3	13176.9	13324.7	13225.5	13230.8	13370.1	11804.7	9862.4	7940.2	5161.8
67°	10529.5	12199.5	13320.5	13514.7	13377.5	13197.0	12979.5	11132.3	9085.5	7241.4	4520.0
67.5°	10435.6	12086.5	13258.2	13463.0	13337.4	13131.6	12813.8	10871.5	8843.7	7023.9	4389.1
70°	9021.1	10660.4	12238.5	12526.7	12579.5	12391.6	11499.6	9166.8	7180.1	5713.9	3408.5
72.5°	7021.8	8481.7	10042.9	10293.1	10495.7	9954.2	8369.8	6331.4	5233.6	4117.9	2468.0
75°	4636.2	6121.4	6908.8	6945.8	6687.2	5684.4	4089.4	3171.0	2918.7	2420.5	1527.4
77.5°	2480.6	3599.6	3621.7	3353.6	3231.2	2408.9	977.5	539.4	600.6	681.9	608.0
80°	1850.5	2292.7	2656.9	2856.4	2915.5	2065.8	505.6	286.1	250.2	228.0	224.8
82.5°	1668.9	2214.6	2482.7	2591.5	2564.0	1699.5	284.0	192.1	159.4	173.1	197.4
85°	654.5	1182.3	1554.9	1505.3	1264.6	633.4	155.2	103.4	103.4	149.9	194.2
87.5°	134.1	242.8	329.3	314.6	282.9	122.4	76.0	62.3	63.3	121.4	183.7
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°	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1714.3	1707.9	1703.7	1699.5	1695.3	1693.2	1690.0	1690.0	1683.7	1681.6	1679.4
5°	1721.7	1711.1	1703.7	1694.2	1686.8	1680.5	1672.1	1669.9	1662.6	1657.3	1655.2
7.5°	1753.3	1737.5	1721.7	1710.1	1699.5	1685.8	1676.3	1667.8	1660.4	1655.2	1648.8
10°	1813.5	1796.6	1774.4	1753.3	1739.6	1718.5	1703.7	1688.9	1680.5	1674.2	1665.7
12.5°	1902.2	1877.9	1851.5	1826.2	1802.9	1775.5	1760.7	1742.8	1732.2	1726.9	1720.6
15°	1993.0	1966.6	1933.8	1909.6	1883.2	1862.1	1848.3	1832.5	1824.1	1817.7	1813.5
17.5°	2085.8	2055.2	2032.0	2007.7	1995.1	1979.2	1961.3	1941.2	1917.0	1902.2	1882.1
20°	2180.9	2157.6	2143.9	2130.2	2115.4	2093.2	2057.3	2016.2	1970.8	1927.5	1886.3
22.5°	2291.7	2278.0	2275.9	2263.2	2232.6	2179.8	2113.3	2036.2	1959.2	1887.4	1831.5
25°	2447.9	2447.9	2437.4	2385.6	2313.9	2218.9	2107.0	1996.1	1893.7	1795.6	1721.7
27.5°	2644.3	2636.9	2585.1	2478.5	2349.7	2202.0	2052.1	1911.7	1780.8	1673.1	1578.1
30°	2860.7	2808.9	2698.1	2530.3	2337.1	2147.1	1963.4	1800.8	1646.7	1514.8	1402.9
32.5°	3085.5	2959.9	2760.4	2530.3	2292.7	2064.7	1852.6	1653.1	1476.8	1329.0	1196.0
35°	3289.2	3060.2	2775.1	2489.1	2206.2	1943.3	1697.4	1471.5	1260.4	1101.0	955.3
37.5°	3473.9	3126.7	2759.3	2408.9	2080.6	1772.3	1484.2	1235.0	996.5	842.4	717.8
40°	3594.3	3140.4	2693.9	2283.2	1901.1	1541.2	1222.4	943.7	754.7	614.4	531.0
42.5°	3669.2	3114.0	2588.3	2111.2	1659.4	1250.9	917.3	676.6	536.2	458.1	426.5
45°	3711.5	3045.4	2432.1	1875.8	1367.0	951.1	651.3	488.7	412.7	385.3	374.7
47.5°	3709.3	2934.5	2236.8	1603.4	1044.0	662.9	461.3	381.1	360.0	351.5	349.4
50°	3687.2	2798.4	2007.7	1307.9	753.7	462.3	365.2	342.0	336.7	331.5	329.3
52.5°	3656.6	2629.5	1754.4	1019.7	535.2	369.5	331.5	325.1	320.9	315.6	313.5
55°	3599.6	2421.5	1479.9	767.4	419.1	333.6	319.8	317.7	312.5	305.1	300.8
57.5°	3529.9	2210.4	1217.1	599.6	370.5	325.1	317.7	314.6	307.2	298.7	290.3
60°	3504.6	2036.2	1011.3	505.6	358.9	328.3	323.0	318.8	308.2	295.6	286.1
62.5°	3346.2	1839.9	863.5	468.7	365.2	342.0	339.9	333.6	317.7	303.0	288.2
65°	2936.7	1555.9	731.5	443.3	377.9	365.2	367.3	357.8	342.0	322.0	295.6
67°	2483.8	1268.8	609.1	419.1	387.4	389.5	396.9	389.5	369.5	341.0	305.1
67.5°	2363.5	1196.0	578.5	411.7	389.5	395.8	404.3	399.0	379.0	346.2	309.3
70°	1756.5	842.4	431.7	372.6	389.5	414.8	433.8	439.1	417.0	371.6	317.7
72.5°	1237.2	543.6	331.5	323.0	353.6	387.4	423.3	441.2	415.9	366.3	306.1
75°	743.1	339.9	269.2	274.5	297.7	332.5	361.0	368.4	336.7	305.1	265.0
77.5°	344.1	225.9	211.1	218.5	240.7	256.5	256.5	241.7	217.5	198.5	190.0
80°	202.7	184.7	183.7	197.4	212.2	200.6	182.6	162.6	149.9	143.6	140.4
82.5°	190.0	197.4	210.1	213.2	201.6	173.1	150.9	130.9	124.6	121.4	118.2
85°	223.8	239.6	218.5	201.6	178.4	145.7	118.2	101.3	98.2	95.0	90.8
87.5°	206.9	197.4	172.1	147.8	122.4	88.7	64.4	58.1	62.3	61.2	59.1
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°	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1680.5	1680.5	1676.3	1674.2	1679.4
5°	1650.9	1652.0	1648.8	1647.8	1648.8
7.5°	1644.6	1643.6	1641.4	1639.3	1641.4
10°	1663.6	1662.6	1659.4	1661.5	1658.3
12.5°	1720.6	1726.9	1725.9	1728.0	1732.2
15°	1813.5	1812.4	1809.3	1811.4	1814.6
17.5°	1866.3	1857.8	1850.5	1847.3	1847.3
20°	1853.6	1829.3	1816.7	1809.3	1807.2
22.5°	1778.7	1743.8	1717.4	1711.1	1705.8
25°	1656.2	1612.9	1579.2	1571.8	1558.1
27.5°	1513.7	1455.7	1415.5	1407.1	1399.7
30°	1326.9	1260.4	1213.9	1184.4	1193.9
32.5°	1098.9	1035.5	981.7	934.2	926.8
35°	848.7	779.0	731.5	710.4	696.7
37.5°	633.4	575.3	543.6	523.6	524.6
40°	484.5	453.9	437.0	423.3	424.3
42.5°	404.3	390.6	386.3	380.0	376.8
45°	366.3	362.1	363.1	356.8	354.7
47.5°	345.2	342.0	343.1	338.8	337.8
50°	328.3	326.2	327.2	324.1	323.0
52.5°	311.4	312.5	311.4	309.3	309.3
55°	296.6	295.6	297.7	294.5	294.5
57.5°	285.0	284.0	284.0	282.9	282.9
60°	278.7	274.5	273.4	273.4	274.5
62.5°	275.5	268.1	267.1	267.1	268.1
65°	276.6	265.0	260.7	259.7	258.6
67°	277.6	260.7	252.3	248.1	247.0
67.5°	278.7	258.6	249.1	244.9	242.8
70°	272.3	243.8	230.1	222.7	220.6
72.5°	256.5	225.9	209.0	199.5	197.4
75°	228.0	204.8	190.0	179.5	175.2
77.5°	176.3	165.7	160.4	154.1	152.0
80°	137.2	131.9	129.8	125.6	124.6
82.5°	114.0	108.7	105.6	100.3	97.1
85°	88.7	82.3	80.2	76.0	73.9
87.5°	58.1	54.9	53.8	48.6	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)