

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: P159778

Luminaire Tested: **VST-E06-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159778
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15072.1 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - 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



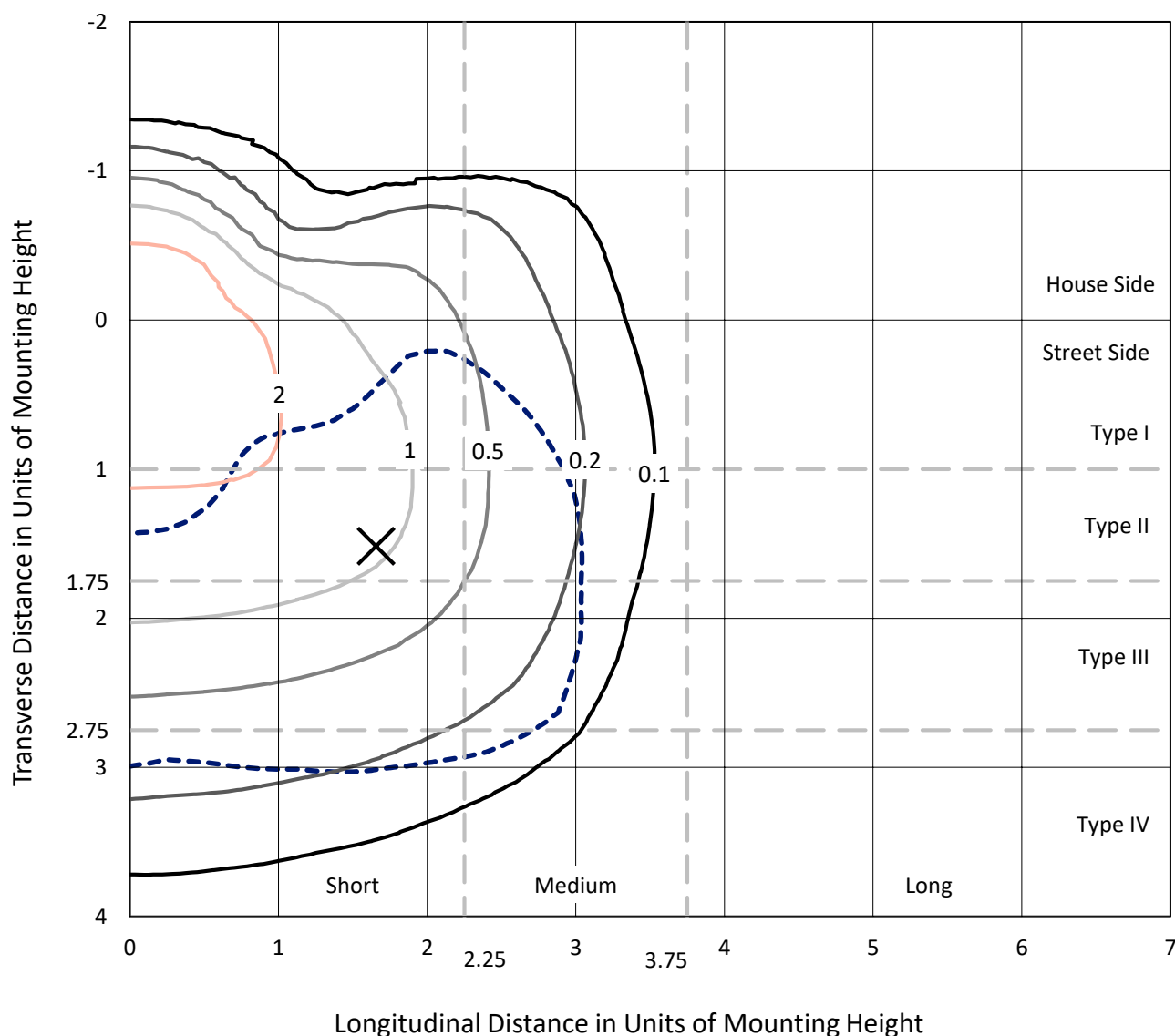
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

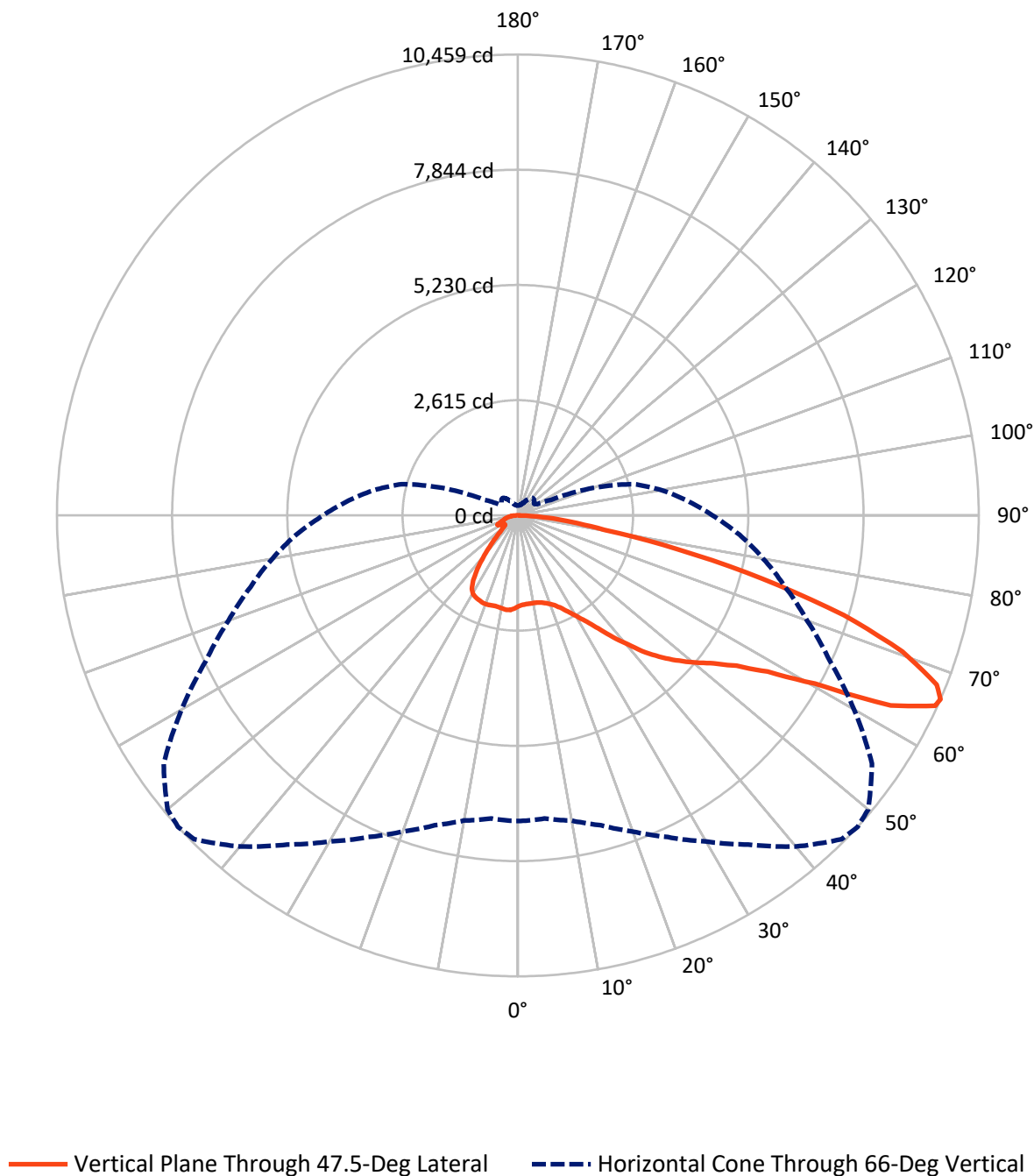


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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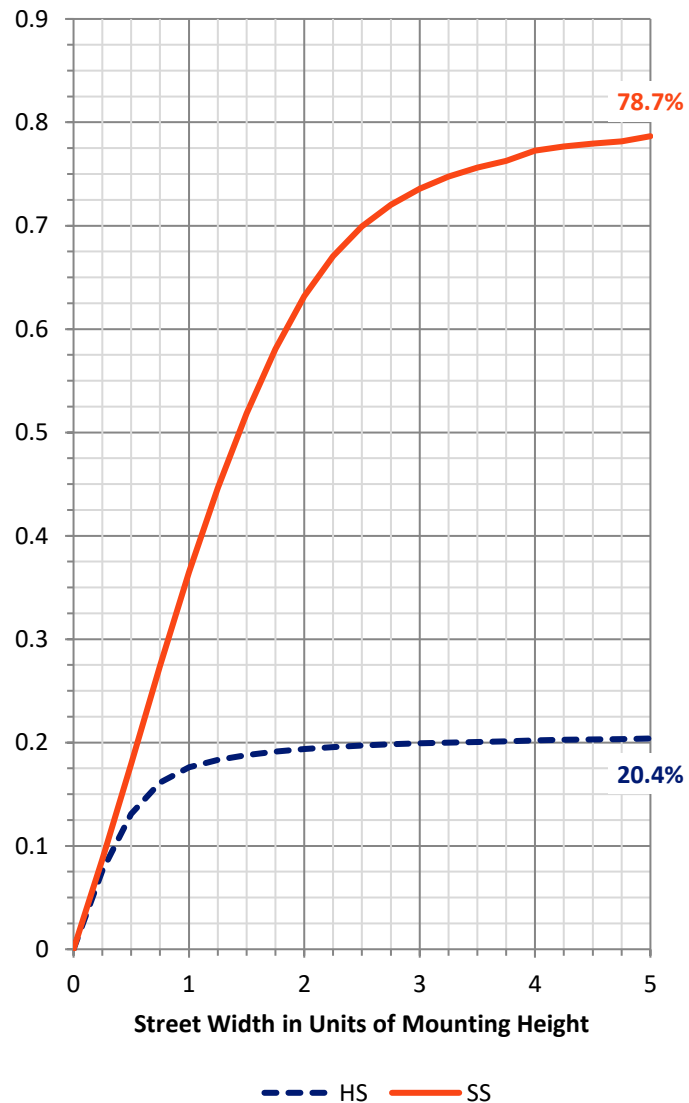
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3120.6	0.0	3120.6
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	11951.5	0.0	11951.5
	% Fixture	79.3	0.0	79.3
Total	Lumens	15072.1	0.0	15072.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	1.3
10°-20°	596.0	4.0
20°-30°	1016.9	6.7
30°-40°	1534.9	10.2
40°-50°	1995.0	13.2
50°-60°	2736.9	18.2
60°-70°	4210.3	27.9
70°-80°	2433.8	16.1
80°-90°	349.6	2.3
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°	15072.1	100.0
0°-180°	15072.1	100.0

Coefficient of Utilization



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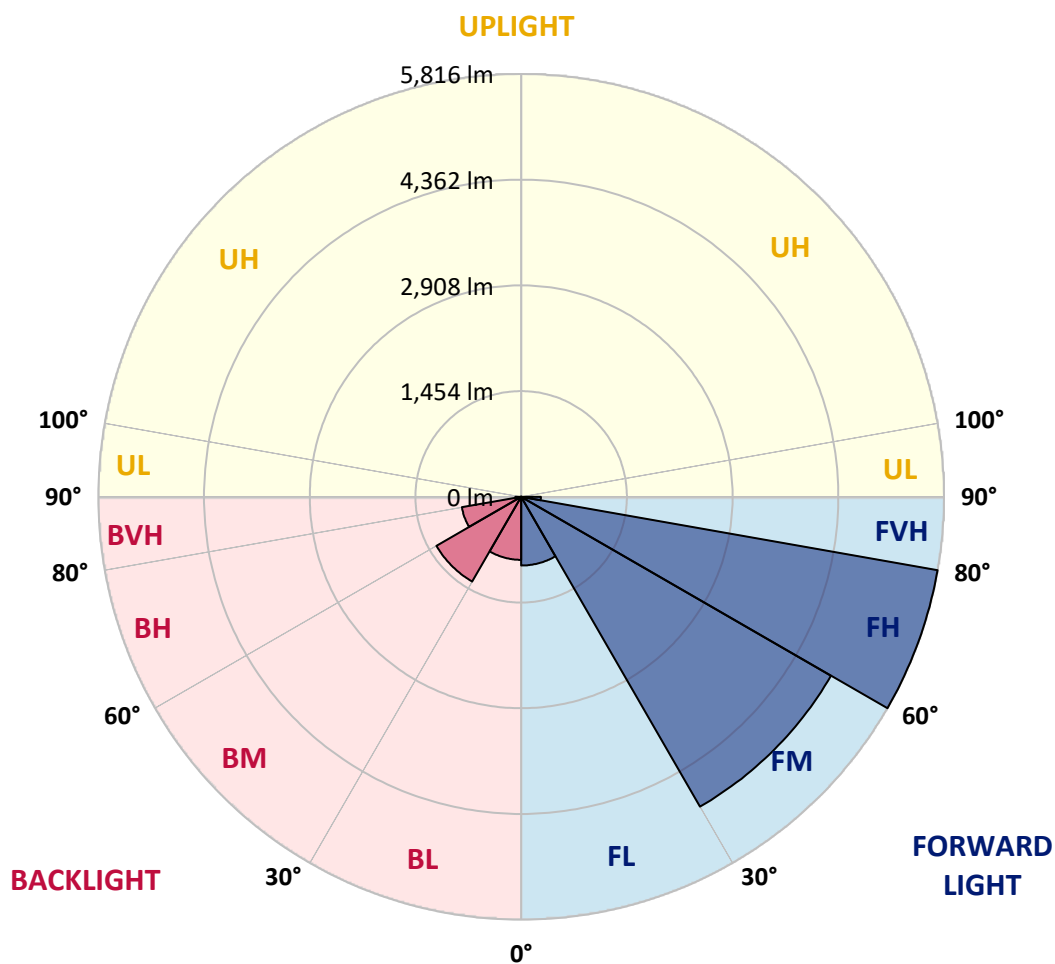
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.7	6.3			
FM	(30°-60°)	4920.4	32.6			
FH	(60°-80°)	5815.8	38.6			G3/7500
FVH	(80°-90°)	270.6	1.8			G3/500
BL	(0°-30°)	866.9	5.8	B2/1000		
BM	(30°-60°)	1346.4	8.9	B2/2500		
BH	(60°-80°)	828.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	79.1	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2009.4	2010.4	2011.4	2011.4	2014.4	2014.4	2019.5	2022.5	2023.6	2029.6	2033.7
5°	1971.9	1970.9	1971.9	1973.9	1979.0	1983.0	1993.2	2000.3	2006.3	2016.5	2021.5
7.5°	1955.7	1957.7	1959.7	1960.8	1964.8	1974.9	1984.1	1991.1	2003.3	2015.5	2020.5
10°	1977.0	1980.0	1977.0	1979.0	1979.0	1988.1	1992.2	1997.2	2006.3	2017.5	2020.5
12.5°	2026.6	2032.7	2026.6	2021.5	2017.5	2025.6	2023.6	2019.5	2024.6	2027.6	2027.6
15°	2108.6	2108.6	2104.6	2097.5	2087.4	2088.4	2079.3	2070.1	2066.1	2059.0	2053.9
17.5°	2188.6	2186.6	2177.5	2168.4	2161.3	2158.3	2145.1	2132.9	2118.8	2107.6	2095.5
20°	2266.6	2274.7	2263.6	2250.4	2239.3	2232.2	2222.1	2197.8	2180.5	2162.3	2150.2
22.5°	2401.3	2394.2	2382.1	2362.8	2351.7	2339.5	2318.3	2291.9	2265.6	2243.3	2228.1
25°	2540.1	2533.0	2515.8	2501.6	2485.4	2475.3	2452.0	2419.6	2394.2	2359.8	2339.5
27.5°	2689.0	2682.9	2662.6	2651.5	2640.3	2628.2	2607.9	2574.5	2551.2	2511.7	2490.4
30°	2857.1	2856.1	2828.7	2826.7	2810.5	2797.3	2783.1	2754.8	2731.5	2692.0	2666.7
32.5°	3036.3	3032.3	3013.0	3007.0	3018.1	3009.0	2988.7	2959.4	2929.0	2905.7	2877.3
35°	3291.6	3284.5	3273.3	3278.4	3285.5	3310.8	3279.4	3254.1	3217.6	3187.2	3147.7
37.5°	3477.9	3467.8	3481.0	3509.3	3549.8	3569.1	3596.4	3597.4	3580.2	3539.7	3505.3
40°	3649.1	3645.0	3675.4	3714.9	3789.9	3844.5	3896.2	3921.5	3927.6	3901.3	3849.6
42.5°	3793.9	3806.1	3846.6	3907.3	4012.7	4095.7	4191.9	4251.7	4289.2	4275.0	4251.7
45°	3966.1	3972.2	4021.8	4098.8	4199.0	4336.8	4463.4	4564.6	4630.5	4629.5	4603.1
47.5°	4181.8	4182.8	4225.4	4315.5	4422.9	4562.6	4722.6	4857.3	4944.4	4948.5	4928.2
50°	4438.0	4436.0	4482.6	4567.7	4682.1	4816.8	4987.0	5155.1	5276.6	5276.6	5247.3
52.5°	4768.2	4764.2	4789.5	4864.4	4974.8	5116.6	5285.7	5480.2	5611.9	5640.2	5576.4
55°	5208.8	5214.9	5220.9	5286.8	5380.9	5493.4	5687.8	5867.1	6043.3	6059.5	6022.0
57.5°	5718.2	5698.0	5741.5	5848.9	5956.2	6097.0	6234.7	6446.4	6655.0	6690.5	6685.4
60°	6514.3	6487.9	6532.5	6669.2	6787.7	7009.5	7245.5	7518.9	7766.1	7839.0	7750.9
62.5°	7246.5	7278.9	7339.7	7498.7	7670.9	7966.6	8321.1	8790.0	9258.9	9514.1	9495.9
65°	7180.7	7150.3	7266.8	7483.5	7795.4	8172.2	8612.8	9177.9	9853.4	10365.9	10411.5
66°	6936.6	6905.2	7030.8	7278.9	7635.4	8054.7	8543.9	9119.2	9809.9	10389.2	10459.1
67.5°	6533.5	6502.1	6643.9	6869.7	7237.4	7765.1	8293.7	8922.7	9640.7	10195.7	10252.5
70°	5755.7	5713.1	5823.5	6078.8	6376.5	6887.0	7390.3	8056.7	8794.0	9237.6	9258.9
72.5°	4875.6	4776.3	4893.8	5090.3	5303.0	5725.3	6163.8	6619.6	7207.0	7617.2	7734.7
75°	3537.7	3589.3	3623.8	3753.4	3894.2	4243.6	4500.8	4882.7	5337.4	5634.1	5728.3
77.5°	1876.7	1954.7	2003.3	2132.9	2365.9	2632.2	2910.8	3146.7	3445.5	3611.6	3727.1
80°	1053.3	1108.0	1187.0	1289.3	1402.7	1607.3	1772.4	1893.9	1936.5	1965.8	1992.2
82.5°	579.3	718.1	835.6	906.4	973.3	1055.3	1153.6	1254.8	1287.3	1238.6	1213.3
85°	90.1	132.7	404.1	493.2	536.8	599.6	670.5	745.4	746.4	642.1	700.9
87.5°	25.3	28.4	57.7	87.1	85.1	68.9	85.1	155.0	91.2	45.6	52.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2035.7	2037.7	2042.8	2047.9	2052.9	2058.0	2061.0	2066.1	2070.1	2076.2	2083.3
5°	2027.6	2032.7	2041.8	2052.9	2063.1	2072.2	2079.3	2089.4	2098.5	2106.6	2118.8
7.5°	2027.6	2037.7	2052.9	2065.1	2074.2	2085.3	2096.5	2106.6	2116.7	2124.8	2132.9
10°	2028.6	2038.7	2053.9	2068.1	2078.2	2090.4	2099.5	2108.6	2119.8	2124.8	2135.0
12.5°	2032.7	2036.7	2047.9	2062.0	2074.2	2086.3	2095.5	2104.6	2116.7	2118.8	2125.8
15°	2052.9	2046.8	2049.9	2060.0	2073.2	2083.3	2093.4	2100.5	2108.6	2106.6	2112.7
17.5°	2090.4	2075.2	2069.1	2070.1	2076.2	2083.3	2087.4	2088.4	2089.4	2080.3	2081.3
20°	2141.0	2119.8	2105.6	2098.5	2090.4	2083.3	2072.2	2059.0	2046.8	2028.6	2026.6
22.5°	2217.0	2185.6	2170.4	2151.2	2126.9	2096.5	2069.1	2036.7	2010.4	1983.0	1972.9
25°	2327.4	2295.0	2278.8	2248.4	2204.8	2161.3	2121.8	2078.2	2039.8	2007.3	1992.2
27.5°	2475.3	2442.8	2425.6	2394.2	2340.6	2297.0	2242.3	2195.7	2149.1	2101.5	2082.3
30°	2654.5	2626.2	2606.9	2581.6	2535.0	2487.4	2423.6	2351.7	2277.8	2201.8	2164.3
32.5°	2866.2	2834.8	2820.6	2791.2	2742.6	2693.0	2622.1	2529.9	2406.4	2286.9	2211.9
35°	3130.5	3095.1	3078.9	3040.4	2983.7	2910.8	2834.8	2711.2	2544.1	2378.0	2255.5
37.5°	3484.0	3405.0	3351.3	3263.2	3172.1	3069.8	2961.4	2834.8	2637.3	2431.7	2261.6
40°	3796.9	3716.9	3613.6	3487.0	3345.2	3204.5	3080.9	2937.1	2722.4	2470.2	2242.3
42.5°	4185.9	4044.1	3879.0	3707.8	3519.4	3346.3	3199.4	3030.3	2780.1	2480.3	2188.6
45°	4541.3	4372.2	4151.4	3923.5	3689.6	3471.8	3306.8	3118.4	2829.7	2480.3	2123.8
47.5°	4865.4	4662.9	4398.5	4115.0	3842.5	3604.5	3417.2	3208.5	2899.6	2511.7	2104.6
50°	5165.2	4932.3	4631.5	4302.3	3996.5	3742.3	3540.7	3324.0	3006.0	2592.7	2151.2
52.5°	5481.2	5234.1	4867.5	4518.1	4180.8	3908.4	3693.6	3466.8	3143.7	2720.4	2233.2
55°	5895.4	5605.8	5189.5	4804.7	4434.0	4133.2	3889.1	3637.9	3294.6	2864.2	2333.5
57.5°	6548.7	6128.4	5712.1	5211.8	4862.4	4466.4	4199.0	3910.4	3539.7	3051.5	2484.4
60°	7692.1	7175.6	6675.3	6100.0	5668.6	5254.3	4850.2	4473.5	4026.8	3474.9	2815.6
62.5°	9324.7	8800.1	8014.2	7310.3	6659.1	6110.2	5583.5	5104.5	4531.2	3927.6	3223.7
65°	10300.1	9699.5	8762.7	7816.7	7025.7	6345.1	5742.5	5156.1	4537.3	3948.9	3347.3
66°	10378.1	9809.9	8809.2	7809.6	6988.2	6282.3	5655.4	5048.8	4414.7	3851.6	3306.8
67.5°	10233.2	9744.0	8714.0	7671.9	6832.3	6069.6	5425.5	4789.5	4152.4	3630.8	3172.1
70°	9211.3	8857.9	7974.7	6998.4	6160.8	5488.3	4808.7	4197.0	3593.4	3154.8	2814.5
72.5°	7551.4	7103.7	6485.9	5829.6	5170.3	4573.8	3956.0	3435.4	2929.0	2610.0	2368.9
75°	5547.0	5144.0	4463.4	4054.2	3618.7	3244.0	2827.7	2334.5	1974.9	1814.9	1756.2
77.5°	3516.4	3078.9	2504.6	2052.9	1765.3	1517.2	1196.1	951.0	761.6	793.0	878.1
80°	1776.4	1530.3	1145.5	904.4	781.9	650.2	514.5	389.9	284.6	325.1	367.6
82.5°	1140.4	952.0	758.6	597.5	504.4	444.6	355.5	258.3	192.4	216.7	265.4
85°	686.7	580.3	462.8	378.8	329.2	274.5	201.5	142.8	141.8	151.9	187.4
87.5°	104.3	148.9	86.1	92.2	97.2	104.3	92.2	78.0	67.9	88.1	111.4
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°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2090.4	2092.4	2096.5	2101.5	2100.5	2107.6	2111.7	2107.6	2116.7	2116.7	2121.8
5°	2128.9	2131.9	2139.0	2144.1	2146.1	2152.2	2154.2	2153.2	2155.2	2156.2	2158.3
7.5°	2140.0	2148.1	2151.2	2154.2	2155.2	2157.2	2157.2	2155.2	2155.2	2154.2	2156.2
10°	2137.0	2140.0	2142.0	2141.0	2141.0	2139.0	2138.0	2137.0	2137.0	2135.0	2138.0
12.5°	2126.9	2126.9	2126.9	2124.8	2124.8	2123.8	2123.8	2123.8	2125.8	2126.9	2131.9
15°	2106.6	2106.6	2108.6	2107.6	2110.7	2115.7	2121.8	2125.8	2130.9	2131.9	2135.0
17.5°	2075.2	2076.2	2082.3	2095.5	2108.6	2123.8	2135.0	2138.0	2133.9	2123.8	2116.7
20°	2020.5	2033.7	2058.0	2089.4	2118.8	2138.0	2143.1	2130.9	2111.7	2085.3	2071.2
22.5°	1971.9	1998.2	2041.8	2093.4	2129.9	2143.1	2127.9	2099.5	2065.1	2034.7	2013.4
25°	1991.1	2021.5	2067.1	2111.7	2135.0	2127.9	2097.5	2057.0	2020.5	1985.1	1950.6
27.5°	2072.2	2102.6	2135.0	2148.1	2140.0	2113.7	2071.2	2027.6	1979.0	1928.4	1885.8
30°	2149.1	2166.4	2168.4	2155.2	2125.8	2083.3	2033.7	1983.0	1921.3	1860.5	1806.8
32.5°	2173.4	2153.2	2116.7	2079.3	2038.7	1995.2	1937.5	1870.6	1804.8	1735.9	1676.2
35°	2166.4	2084.3	1994.2	1914.2	1865.6	1815.9	1763.3	1674.1	1600.2	1541.5	1503.0
37.5°	2102.6	1952.7	1813.9	1697.4	1621.5	1562.7	1484.7	1410.8	1347.0	1320.7	1289.3
40°	2013.4	1784.5	1592.1	1429.0	1350.0	1275.1	1188.0	1131.3	1113.1	1088.7	1089.8
42.5°	1885.8	1588.1	1339.9	1152.6	1066.5	984.4	922.7	889.2	890.2	870.0	874.0
45°	1751.1	1390.6	1078.6	892.3	807.2	737.3	702.9	692.7	693.8	694.8	688.7
47.5°	1669.1	1236.6	864.9	676.5	601.6	562.1	543.9	538.8	539.8	540.8	533.7
50°	1656.9	1156.6	722.1	517.5	468.9	446.6	437.5	432.5	432.5	428.4	422.3
52.5°	1691.4	1136.3	652.2	448.7	402.1	381.8	374.7	370.7	364.6	356.5	345.4
55°	1746.0	1154.6	631.0	425.4	379.8	359.5	350.4	348.4	338.3	323.1	304.8
57.5°	1847.3	1220.4	645.1	431.4	383.8	365.6	359.5	357.5	343.3	320.0	296.7
60°	2138.0	1411.8	716.0	465.9	413.2	398.0	398.0	395.0	375.7	342.3	308.9
62.5°	2539.1	1692.4	812.3	513.5	453.7	451.7	468.9	469.9	435.5	381.8	329.2
65°	2732.5	1824.0	845.7	523.6	464.9	488.2	522.6	522.6	474.0	400.1	332.2
66°	2733.5	1821.0	835.6	511.5	452.7	483.1	518.5	518.5	467.9	395.0	327.1
67.5°	2663.6	1764.3	802.1	489.2	425.4	453.7	485.1	484.1	438.5	374.7	313.0
70°	2389.2	1560.7	706.9	452.7	393.0	394.0	405.1	398.0	367.6	324.1	284.6
72.5°	2060.0	1305.5	612.7	429.4	367.6	348.4	339.3	333.2	314.0	287.6	263.3
75°	1580.0	1013.8	533.7	408.2	345.4	311.9	299.8	294.7	281.6	266.4	247.1
77.5°	968.2	694.8	452.7	373.7	320.0	289.7	276.5	266.4	253.2	239.0	225.9
80°	417.3	419.3	362.6	317.0	278.5	243.1	225.9	213.7	206.6	201.5	194.5
82.5°	291.7	300.8	276.5	246.1	212.7	187.4	172.2	169.1	170.1	170.1	168.1
85°	218.8	214.7	193.4	176.2	161.0	144.8	132.7	131.7	135.7	135.7	132.7
87.5°	126.6	127.6	109.4	102.3	106.3	91.2	83.0	84.1	94.2	93.2	91.2
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):

	160°	165°	170°	175°	180°
0°	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2121.8	2124.8	2123.8	2126.9	2123.8
5°	2161.3	2160.3	2159.3	2163.3	2158.3
7.5°	2155.2	2156.2	2156.2	2156.2	2155.2
10°	2140.0	2144.1	2146.1	2150.2	2149.1
12.5°	2135.0	2141.0	2147.1	2153.2	2154.2
15°	2136.0	2140.0	2143.1	2146.1	2147.1
17.5°	2109.6	2108.6	2105.6	2103.6	2101.5
20°	2056.0	2050.9	2045.8	2037.7	2041.8
22.5°	1989.1	1974.9	1958.7	1945.6	1944.6
25°	1911.1	1884.8	1858.5	1841.3	1835.2
27.5°	1842.3	1810.9	1783.5	1768.3	1764.3
30°	1760.2	1731.9	1707.6	1694.4	1686.3
32.5°	1638.7	1616.4	1586.0	1575.9	1574.9
35°	1469.6	1452.3	1431.1	1427.0	1422.0
37.5°	1278.1	1272.1	1261.9	1249.8	1247.8
40°	1073.6	1077.6	1074.6	1067.5	1056.3
42.5°	876.1	883.2	884.2	889.2	894.3
45°	697.8	703.9	703.9	709.0	715.0
47.5°	535.8	531.7	534.8	539.8	542.9
50°	405.1	402.1	397.0	393.0	388.9
52.5°	326.1	320.0	305.9	301.8	297.8
55°	287.6	276.5	266.4	262.3	262.3
57.5°	276.5	262.3	251.2	246.1	244.1
60°	278.5	258.3	244.1	236.0	232.9
62.5°	287.6	259.3	240.0	230.9	227.9
65°	286.6	257.2	239.0	228.9	225.9
66°	281.6	254.2	237.0	227.9	225.9
67.5°	273.5	250.2	235.0	226.9	223.8
70°	257.2	242.1	230.9	223.8	220.8
72.5°	244.1	234.0	223.8	215.7	213.7
75°	231.9	221.8	212.7	208.6	205.6
77.5°	213.7	204.6	199.5	195.5	193.4
80°	189.4	183.3	177.2	173.2	170.1
82.5°	165.1	157.0	150.9	147.9	145.8
85°	134.7	129.6	120.5	114.4	113.4
87.5°	90.1	85.1	82.0	77.0	71.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)