

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: P159560

Luminaire Tested: **VST-E06-LED-E-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159560
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
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-T3
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18350.2 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

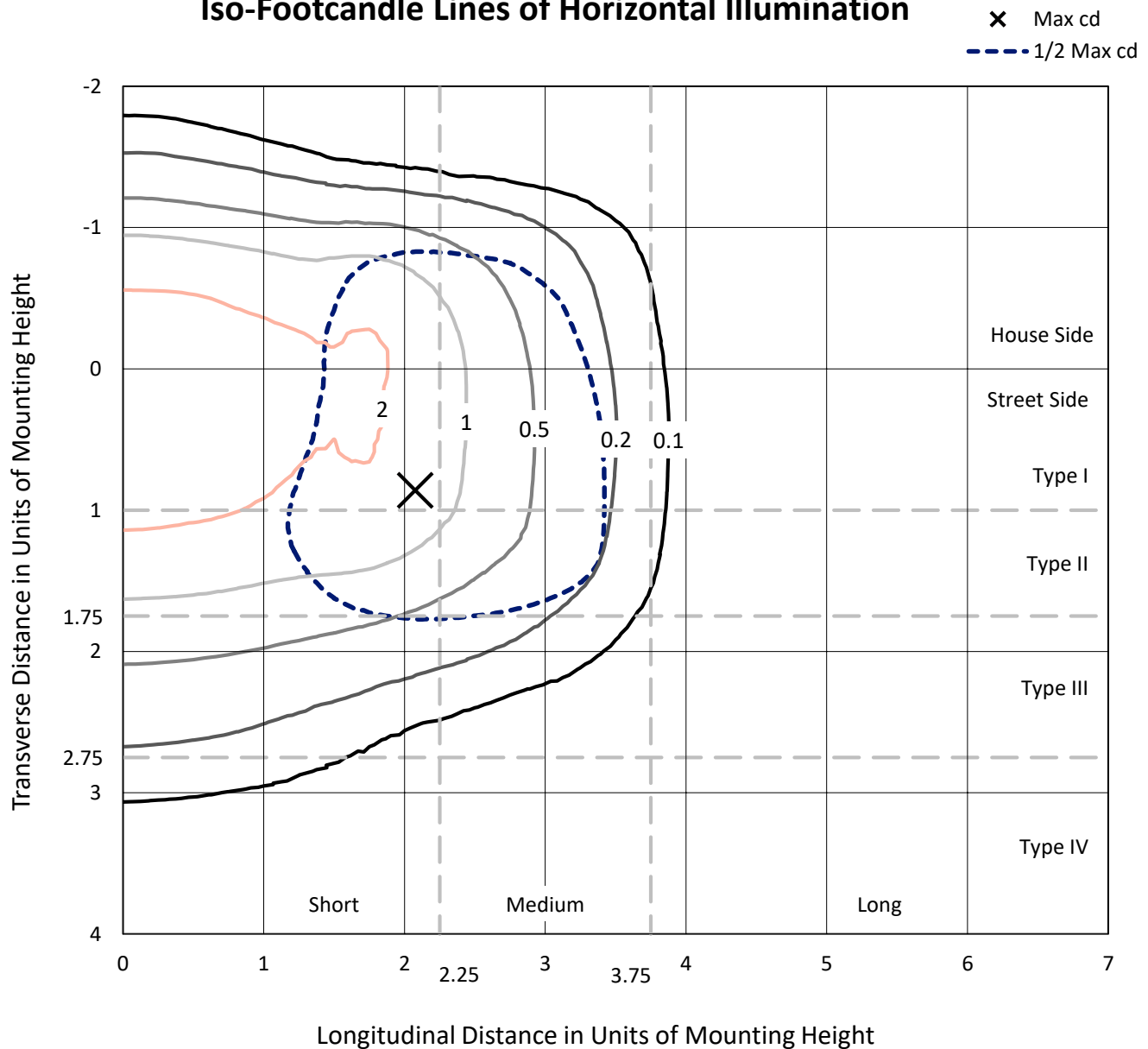
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

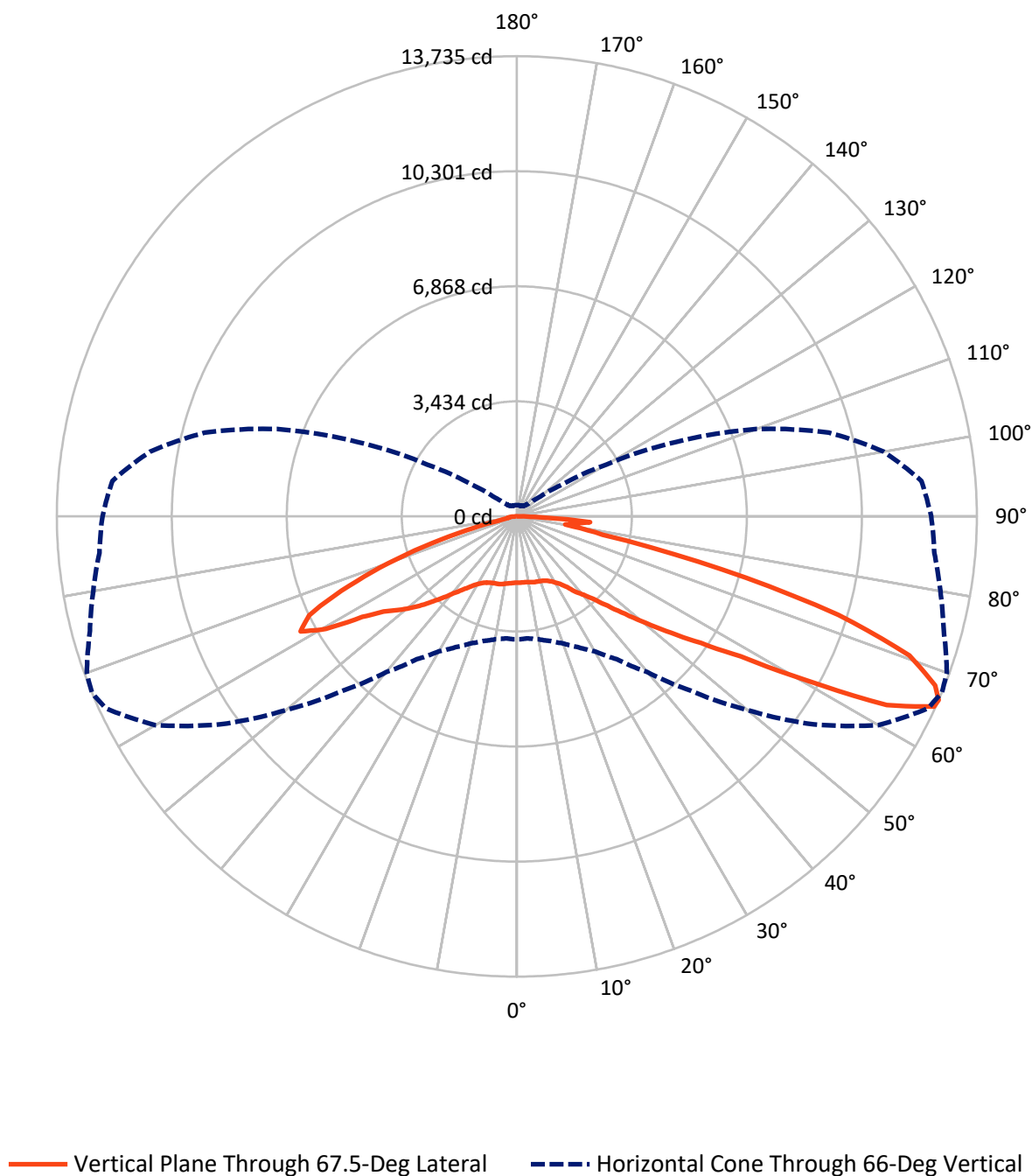


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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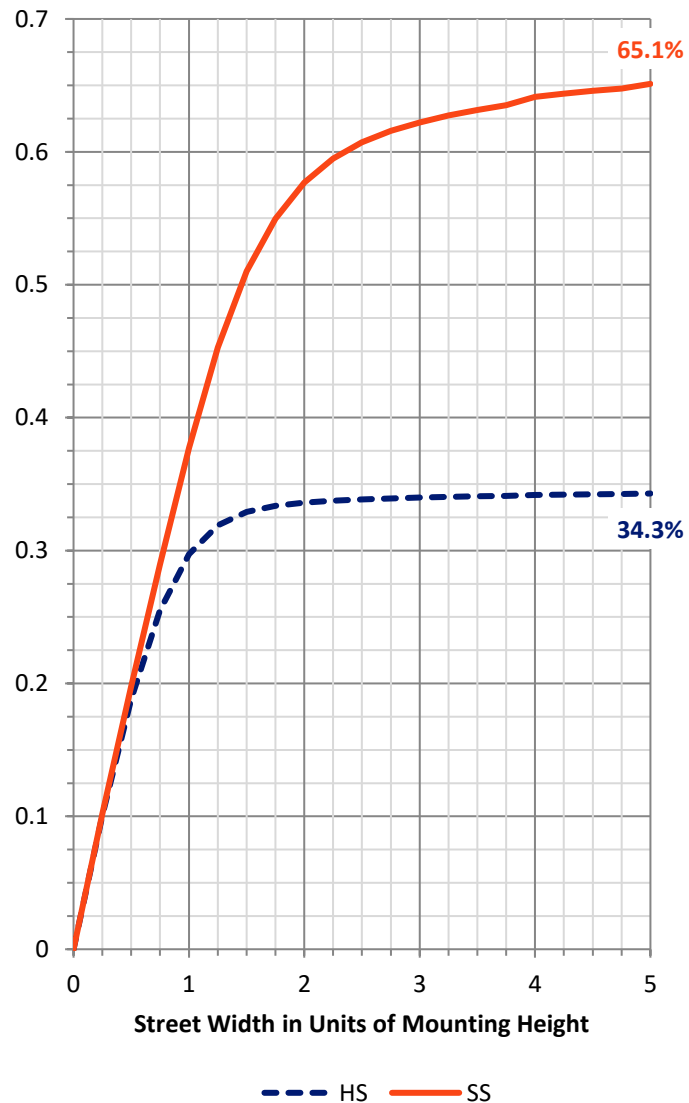
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6350.0	0.0	6350.0
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	12000.2	0.0	12000.2
	% Fixture	65.4	0.0	65.4
Total	Lumens	18350.2	0.0	18350.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	1.0
10°-20°	562.6	3.1
20°-30°	967.1	5.3
30°-40°	1563.1	8.5
40°-50°	2590.4	14.1
50°-60°	4065.4	22.2
60°-70°	5558.2	30.3
70°-80°	2444.2	13.3
80°-90°	409.1	2.2
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°	18350.2	100.0
0°-180°	18350.2	100.0

Coefficient of Utilization



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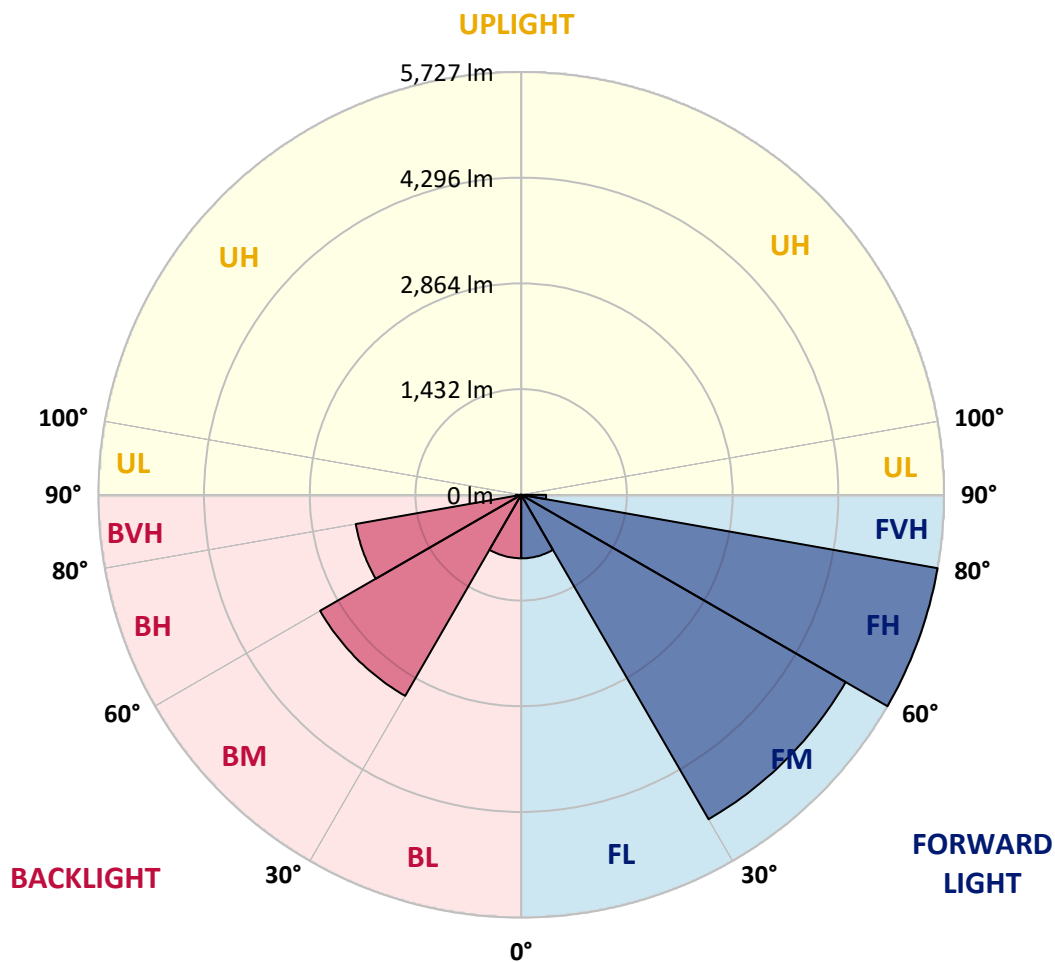
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.8	4.7			
FM	(30°-60°)	5074.4	27.7			
FH	(60°-80°)	5727.5	31.2			G3/7500
FVH	(80°-90°)	337.5	1.8			G3/500
BL	(0°-30°)	859.0	4.7	B2/1000		
BM	(30°-60°)	3144.5	17.1	B3/5000		
BH	(60°-80°)	2274.9	12.4	B3/2500		G3/2500
BVH	(80°-90°)	71.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1976.4	1976.4	1977.6	1976.4	1976.4	1975.2	1980.0	1980.0	1980.0	1978.8	1982.4
5°	1971.6	1971.6	1972.8	1972.8	1974.0	1972.8	1976.4	1977.6	1977.6	1977.6	1981.2
7.5°	1959.6	1963.2	1960.8	1962.0	1963.2	1966.8	1971.6	1974.0	1976.4	1980.0	1981.2
10°	1934.4	1940.4	1939.2	1942.8	1944.0	1954.8	1958.4	1963.2	1971.6	1976.4	1980.0
12.5°	1899.6	1903.2	1904.4	1909.2	1914.0	1927.2	1936.8	1945.2	1957.2	1969.2	1981.2
15°	1872.0	1874.4	1874.4	1879.2	1886.4	1898.4	1910.4	1924.8	1942.8	1963.2	1982.4
17.5°	1880.4	1886.4	1881.6	1880.4	1882.8	1890.0	1900.8	1912.8	1934.4	1957.2	1980.0
20°	1935.6	1936.8	1934.4	1928.4	1923.6	1924.8	1924.8	1927.2	1940.4	1958.4	1976.4
22.5°	1981.2	1986.0	1984.8	1986.0	1984.8	1989.6	1987.2	1982.4	1977.6	1978.8	1987.2
25°	2020.8	2025.6	2025.6	2029.2	2035.2	2044.8	2052.0	2050.8	2043.6	2034.0	2030.4
27.5°	2085.6	2085.6	2085.6	2089.2	2097.6	2109.6	2121.6	2128.8	2134.8	2125.2	2104.8
30°	2187.6	2188.8	2185.2	2186.4	2192.4	2208.0	2222.4	2233.2	2245.2	2244.0	2217.6
32.5°	2299.2	2304.0	2302.8	2307.6	2316.0	2330.4	2346.0	2362.8	2378.4	2388.0	2371.2
35°	2443.2	2448.0	2449.2	2456.4	2466.0	2487.6	2509.2	2530.8	2547.6	2554.8	2551.2
37.5°	2679.6	2680.8	2676.0	2665.2	2668.8	2685.6	2710.8	2745.6	2756.4	2763.6	2780.4
40°	3033.6	3030.0	3010.8	3001.2	2995.2	3002.4	2997.6	3025.2	3050.4	3051.6	3050.4
42.5°	3463.2	3452.4	3434.4	3432.0	3429.6	3427.2	3414.0	3415.2	3438.0	3444.0	3436.8
45°	3890.4	3877.2	3864.0	3876.0	3861.6	3898.8	3909.6	3938.4	3942.0	3954.0	3936.0
47.5°	4240.8	4242.0	4242.0	4258.8	4287.6	4358.4	4422.0	4477.2	4497.6	4526.4	4530.0
50°	4506.0	4513.2	4536.0	4590.0	4651.2	4770.0	4876.8	4976.4	5066.4	5100.0	5188.8
52.5°	4660.8	4680.0	4728.0	4818.0	4927.2	5080.8	5248.8	5418.0	5574.0	5706.0	5811.6
55°	4633.2	4647.6	4731.6	4872.0	5042.4	5248.8	5484.0	5728.8	5972.4	6195.6	6368.4
57.5°	4455.6	4465.2	4549.2	4707.6	4920.0	5197.2	5529.6	5893.2	6235.2	6595.2	6890.4
60°	4222.8	4237.2	4315.2	4440.0	4662.0	4957.2	5342.4	5835.6	6381.6	6948.0	7500.0
62.5°	4074.0	4070.4	4138.8	4250.4	4417.2	4684.8	5055.6	5640.0	6396.0	7353.6	8444.4
65°	3826.8	3816.0	3886.8	4014.0	4195.2	4454.4	4806.0	5367.6	6244.8	7507.2	9054.0
66°	3673.2	3651.6	3722.4	3850.8	4032.0	4308.0	4645.2	5199.6	6061.2	7357.2	8989.2
67.5°	3404.4	3393.6	3427.2	3528.0	3662.4	3921.6	4273.2	4831.2	5626.8	6906.0	8514.0
70°	2767.2	2743.2	2769.6	2815.2	2866.8	2930.4	3146.4	3589.2	4262.4	5502.0	6859.2
72.5°	1885.2	1873.2	1922.4	1992.0	2130.0	2194.8	2280.0	2352.0	2589.6	3468.0	4784.4
75°	1434.0	1441.2	1503.6	1618.8	1796.4	1988.4	2175.6	2244.0	2164.8	2096.4	2715.6
77.5°	804.0	846.0	921.6	1068.0	1256.4	1527.6	1854.0	2214.0	2394.0	2349.6	2197.2
80°	331.2	325.2	362.4	442.8	507.6	729.6	1116.0	1567.2	2073.6	2394.0	2343.6
82.5°	92.4	94.8	122.4	157.2	202.8	258.0	403.2	648.0	1056.0	1642.8	2150.4
85°	28.8	28.8	39.6	58.8	69.6	80.4	102.0	168.0	286.8	572.4	1160.4
87.5°	6.0	6.0	8.4	16.8	18.0	18.0	22.8	31.2	27.6	25.2	112.8
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°	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1978.8	1976.4	1977.6	1978.8	1977.6	1977.6	1976.4	1975.2	1976.4	1976.4	1980.0
5°	1977.6	1976.4	1977.6	1977.6	1977.6	1978.8	1978.8	1978.8	1982.4	1982.4	1988.4
7.5°	1980.0	1980.0	1982.4	1982.4	1982.4	1982.4	1983.6	1986.0	1992.0	1990.8	2001.6
10°	1984.8	1987.2	1993.2	1994.4	1994.4	1998.0	2000.4	2005.2	2011.2	2013.6	2023.2
12.5°	1990.8	2002.8	2013.6	2016.0	2019.6	2025.6	2029.2	2031.6	2042.4	2046.0	2058.0
15°	1998.0	2014.8	2028.0	2032.8	2037.6	2044.8	2049.6	2053.2	2062.8	2067.6	2082.0
17.5°	1999.2	2018.4	2034.0	2041.2	2047.2	2055.6	2062.8	2070.0	2080.8	2088.0	2102.4
20°	1998.0	2023.2	2047.2	2056.8	2062.8	2078.4	2089.2	2098.8	2112.0	2119.2	2133.6
22.5°	2011.2	2040.0	2072.4	2084.4	2094.0	2115.6	2130.0	2145.6	2162.4	2167.2	2178.0
25°	2042.4	2072.4	2113.2	2130.0	2146.8	2175.6	2196.0	2218.8	2235.6	2238.0	2241.6
27.5°	2095.2	2122.8	2172.0	2197.2	2224.8	2265.6	2295.6	2318.4	2342.4	2342.4	2340.0
30°	2202.0	2208.0	2259.6	2292.0	2332.8	2392.8	2437.2	2462.4	2480.4	2480.4	2460.0
32.5°	2340.0	2332.8	2379.6	2414.4	2470.8	2554.8	2614.8	2634.0	2653.2	2647.2	2612.4
35°	2539.2	2518.8	2545.2	2598.0	2661.6	2776.8	2839.2	2882.4	2894.4	2877.6	2822.4
37.5°	2790.0	2787.6	2800.8	2859.6	2930.4	3079.2	3142.8	3170.4	3160.8	3130.8	3033.6
40°	3055.2	3048.0	3039.6	3079.2	3158.4	3337.2	3450.0	3464.4	3451.2	3406.8	3284.4
42.5°	3409.2	3409.2	3369.6	3380.4	3446.4	3646.8	3780.0	3825.6	3826.8	3762.0	3598.8
45°	3896.4	3891.6	3822.0	3805.2	3855.6	4052.4	4224.0	4249.2	4249.2	4164.0	3985.2
47.5°	4482.0	4476.0	4407.6	4348.8	4358.4	4570.8	4713.6	4752.0	4718.4	4654.8	4442.4
50°	5142.0	5131.2	5061.6	5006.4	4982.4	5197.2	5318.4	5336.4	5287.2	5211.6	4981.2
52.5°	5811.6	5844.0	5803.2	5773.2	5781.6	5920.8	6045.6	5960.4	5935.2	5853.6	5622.0
55°	6508.8	6608.4	6698.4	6672.0	6703.2	6838.8	6862.8	6750.0	6704.4	6645.6	6387.6
57.5°	7210.8	7501.2	7796.4	7879.2	7956.0	8150.4	8122.8	7938.0	7972.8	8060.4	7770.0
60°	8191.2	9030.0	9778.8	9916.8	10155.6	10321.2	10358.4	10322.4	10484.4	10438.8	10182.0
62.5°	9697.2	11095.2	12136.8	12396.0	12636.0	12627.6	12501.6	12372.0	12531.6	12531.6	11860.8
65°	10772.4	12358.8	13473.6	13688.4	13678.8	13389.6	13092.0	12832.8	12810.0	12632.4	11652.0
66°	10822.8	12456.0	13548.0	13735.2	13663.2	13197.6	12841.2	12512.4	12372.0	12124.8	11120.4
67.5°	10369.2	12181.2	13305.6	13468.8	13279.2	12612.0	12121.2	11680.8	11476.8	11060.4	10114.8
70°	8505.6	10468.8	12104.4	12438.0	12223.2	11378.4	10706.4	10111.2	9721.2	9120.0	8438.4
72.5°	6208.8	7729.2	9500.4	10042.8	10009.2	9231.6	8690.4	8145.6	7633.2	7086.0	6588.0
75°	4035.6	5028.0	6015.6	6332.4	6180.0	5730.0	5342.4	5024.4	4538.4	4158.0	4065.6
77.5°	2304.0	2815.2	2662.8	2623.2	2432.4	1963.2	1305.6	915.6	826.8	1032.0	1131.6
80°	2192.4	1987.2	1627.2	1467.6	1348.8	919.2	482.4	339.6	297.6	304.8	327.6
82.5°	2472.0	2576.4	2107.2	1760.4	1532.4	1118.4	610.8	284.4	207.6	246.0	276.0
85°	1852.8	2608.8	2586.0	2191.2	1797.6	1288.8	722.4	217.2	124.8	172.8	225.6
87.5°	375.6	618.0	595.2	523.2	445.2	310.8	121.2	68.4	62.4	85.2	129.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1982.4	1982.4	1984.8	1988.4	1989.6	1989.6	1992.0	1989.6	1994.4	1995.6	1996.8
5°	1993.2	1996.8	1999.2	2005.2	2008.8	2011.2	2014.8	2012.4	2017.2	2018.4	2020.8
7.5°	2005.2	2011.2	2016.0	2018.4	2023.2	2023.2	2024.4	2022.0	2020.8	2017.2	2016.0
10°	2026.8	2030.4	2036.4	2034.0	2031.6	2023.2	2016.0	2005.2	1999.2	1988.4	1982.4
12.5°	2061.6	2064.0	2064.0	2053.2	2037.6	2018.4	2000.4	1982.4	1968.0	1956.0	1948.8
15°	2085.6	2090.4	2084.4	2068.8	2046.0	2019.6	1995.6	1971.6	1952.4	1936.8	1927.2
17.5°	2103.6	2102.4	2091.6	2070.0	2048.4	2025.6	2004.0	1978.8	1954.8	1932.0	1917.6
20°	2131.2	2119.2	2100.0	2077.2	2054.4	2035.2	2018.4	1994.4	1969.2	1938.0	1916.4
22.5°	2168.4	2146.8	2119.2	2095.2	2073.6	2055.6	2036.4	2016.0	1989.6	1954.8	1924.8
25°	2221.2	2184.0	2152.8	2128.8	2109.6	2089.2	2067.6	2041.2	2014.8	1978.8	1942.8
27.5°	2301.6	2246.4	2206.8	2185.2	2167.2	2139.6	2112.0	2080.8	2047.2	2010.0	1969.2
30°	2398.8	2332.8	2287.2	2268.0	2246.4	2215.2	2185.2	2142.0	2095.2	2050.8	2000.4
32.5°	2512.8	2445.6	2400.0	2385.6	2350.8	2314.8	2272.8	2215.2	2154.0	2088.0	2028.0
35°	2685.6	2600.4	2558.4	2524.8	2476.8	2433.6	2362.8	2287.2	2199.6	2112.0	2037.6
37.5°	2863.2	2776.8	2733.6	2686.8	2624.4	2545.2	2450.4	2342.4	2226.0	2118.0	2026.8
40°	3100.8	3007.2	2952.0	2880.0	2779.2	2655.6	2515.2	2367.6	2226.0	2091.6	1981.2
42.5°	3378.0	3291.6	3206.4	3087.6	2925.6	2745.6	2548.8	2359.2	2187.6	2032.8	1916.4
45°	3762.0	3614.4	3478.8	3288.0	3051.6	2798.4	2552.4	2319.6	2121.6	1950.0	1820.4
47.5°	4194.0	4003.2	3763.2	3464.4	3141.6	2818.8	2517.6	2245.2	2017.2	1831.2	1689.6
50°	4692.0	4399.2	4030.8	3604.8	3187.2	2791.2	2434.8	2120.4	1873.2	1659.6	1508.4
52.5°	5262.0	4815.6	4273.2	3704.4	3180.0	2707.2	2298.0	1956.0	1680.0	1453.2	1304.4
55°	5894.4	5269.2	4504.8	3768.0	3115.2	2544.0	2083.2	1724.4	1440.0	1216.8	1086.0
57.5°	7009.2	6064.8	4946.4	3853.2	2979.6	2296.8	1810.8	1431.6	1174.8	985.2	860.4
60°	9080.4	7455.6	5782.8	4053.6	2775.6	1987.2	1467.6	1123.2	908.4	770.4	678.0
62.5°	10362.0	8434.8	6190.8	4024.8	2444.4	1563.6	1089.6	832.8	663.6	572.4	514.8
65°	10058.4	8050.8	5692.8	3457.2	1902.0	1108.8	721.2	544.8	456.0	409.2	381.6
66°	9645.6	7621.2	5271.6	3096.0	1657.2	926.4	595.2	457.2	392.4	357.6	343.2
67.5°	8780.4	6836.4	4546.8	2479.2	1242.0	690.0	439.2	358.8	319.2	301.2	291.6
70°	7348.8	5508.0	3216.0	1464.0	673.2	374.4	280.8	249.6	240.0	234.0	230.4
72.5°	5682.0	3987.6	1879.2	720.0	339.6	242.4	213.6	200.4	196.8	196.8	198.0
75°	3579.6	2292.0	841.2	346.8	230.4	195.6	182.4	176.4	177.6	178.8	177.6
77.5°	1189.2	790.8	350.4	246.0	200.4	177.6	166.8	164.4	166.8	168.0	168.0
80°	342.0	298.8	253.2	217.2	183.6	165.6	156.0	154.8	160.8	162.0	159.6
82.5°	262.8	246.0	229.2	210.0	176.4	156.0	152.4	153.6	157.2	154.8	144.0
85°	241.2	238.8	171.6	170.4	153.6	148.8	145.2	146.4	142.8	129.6	117.6
87.5°	135.6	126.0	97.2	98.4	114.0	117.6	97.2	103.2	96.0	84.0	76.8
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):

	160°	165°	170°	175°	180°
0°	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1999.2	1998.0	1998.0	2001.6	1996.8
5°	2022.0	2020.8	2020.8	2024.4	2020.8
7.5°	2011.2	2007.6	2005.2	2004.0	2004.0
10°	1975.2	1971.6	1964.4	1962.0	1959.6
12.5°	1938.0	1934.4	1926.0	1926.0	1923.6
15°	1915.2	1910.4	1904.4	1900.8	1898.4
17.5°	1903.2	1896.0	1888.8	1885.2	1882.8
20°	1898.4	1888.8	1880.4	1874.4	1874.4
22.5°	1899.6	1887.6	1878.0	1870.8	1868.4
25°	1911.6	1893.6	1881.6	1874.4	1872.0
27.5°	1928.4	1906.8	1891.2	1881.6	1878.0
30°	1951.2	1921.2	1899.6	1887.6	1882.8
32.5°	1966.8	1924.8	1897.2	1880.4	1874.4
35°	1965.6	1911.6	1878.0	1856.4	1849.2
37.5°	1944.0	1880.4	1836.0	1809.6	1797.6
40°	1896.0	1822.8	1776.0	1750.8	1736.4
42.5°	1826.4	1747.2	1705.2	1677.6	1662.0
45°	1717.2	1639.2	1587.6	1566.0	1545.6
47.5°	1566.0	1486.8	1442.4	1411.2	1398.0
50°	1388.4	1309.2	1262.4	1237.2	1225.2
52.5°	1194.0	1118.4	1084.8	1060.8	1044.0
55°	992.4	922.8	908.4	882.0	866.4
57.5°	802.8	762.0	748.8	722.4	709.2
60°	627.6	614.4	600.0	583.2	576.0
62.5°	486.0	474.0	470.4	459.6	458.4
65°	370.8	372.0	369.6	367.2	364.8
66°	337.2	336.0	337.2	334.8	333.6
67.5°	286.8	291.6	295.2	294.0	294.0
70°	232.8	236.4	241.2	240.0	240.0
72.5°	199.2	205.2	207.6	206.4	206.4
75°	180.0	186.0	186.0	183.6	182.4
77.5°	168.0	170.4	168.0	165.6	163.2
80°	156.0	153.6	150.0	146.4	144.0
82.5°	135.6	129.6	126.0	120.0	120.0
85°	109.2	104.4	96.0	90.0	84.0
87.5°	70.8	68.4	62.4	46.8	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)