

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: P158459

Luminaire Tested: **VST-E06-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158459
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16532.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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



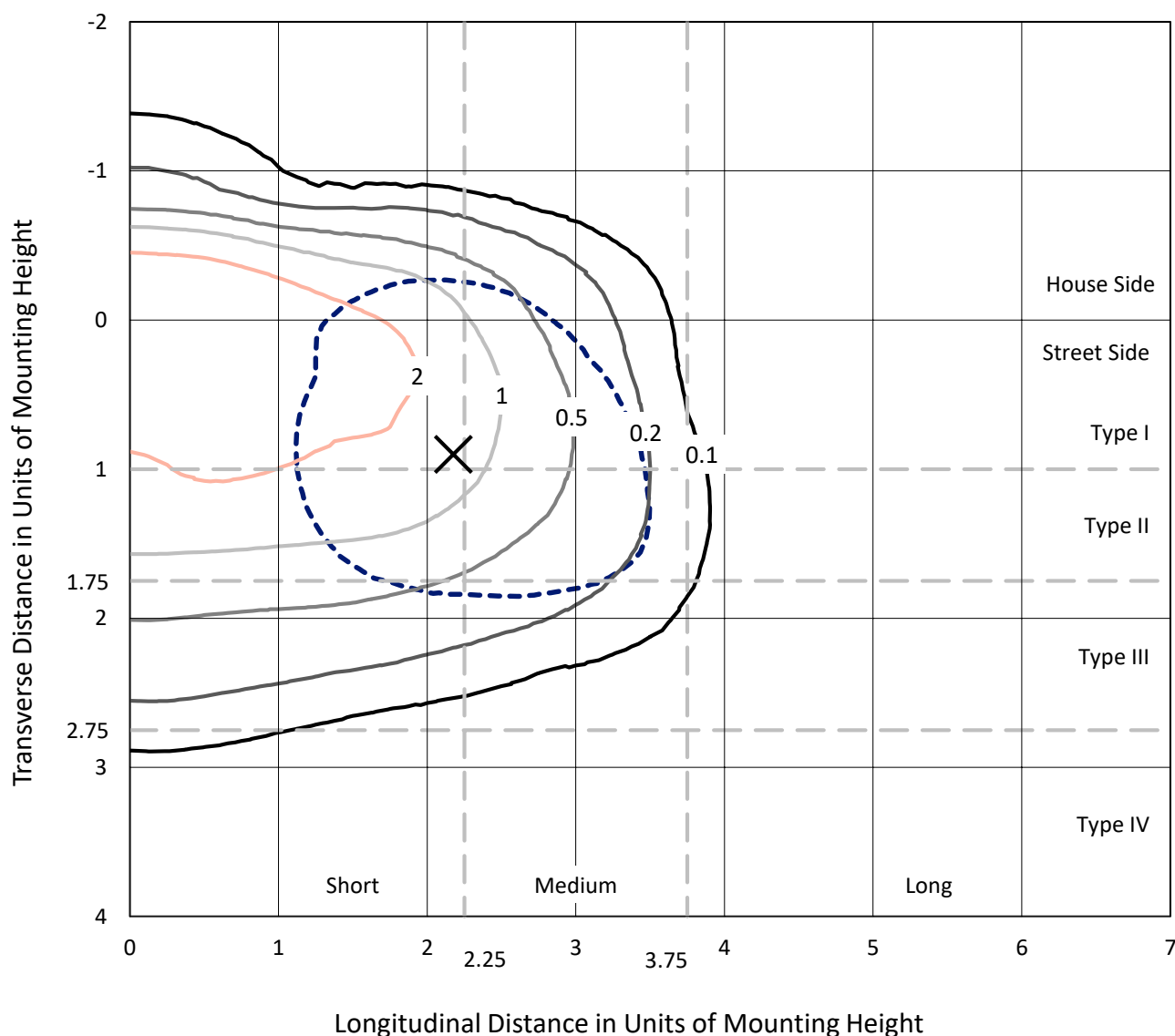
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

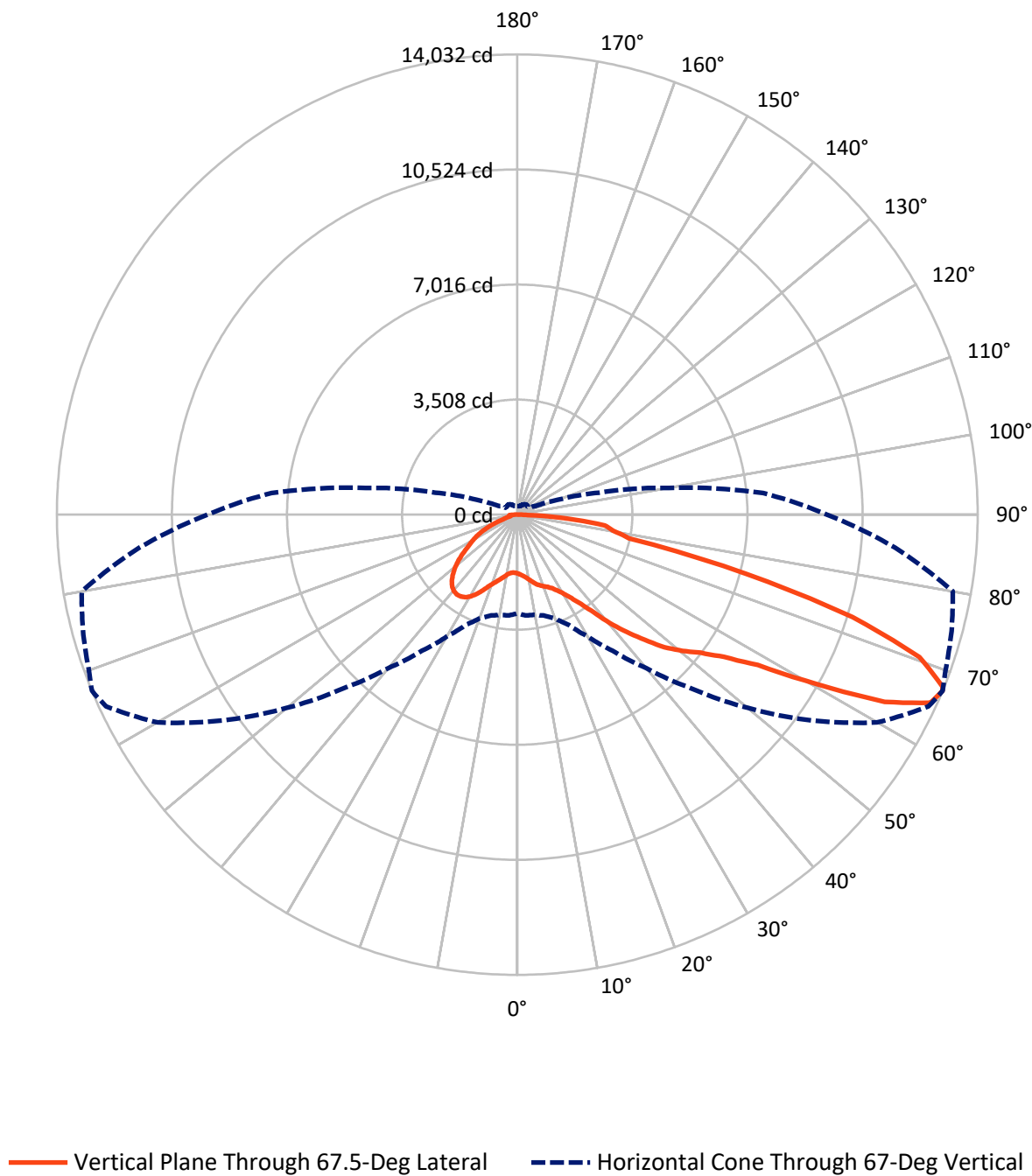


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3966.2	0.0	3966.2
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	12566.5	0.0	12566.5
	% Fixture	76.0	0.0	76.0
Total	Lumens	16532.7	0.0	16532.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.1
10°-20°	606.8	3.7
20°-30°	1083.3	6.6
30°-40°	1587.7	9.6
40°-50°	2453.2	14.8
50°-60°	3572.3	21.6
60°-70°	4653.4	28.1
70°-80°	2083.0	12.6
80°-90°	315.0	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°	16532.7	100.0
0°-180°	16532.7	100.0

Coefficient of Utilization



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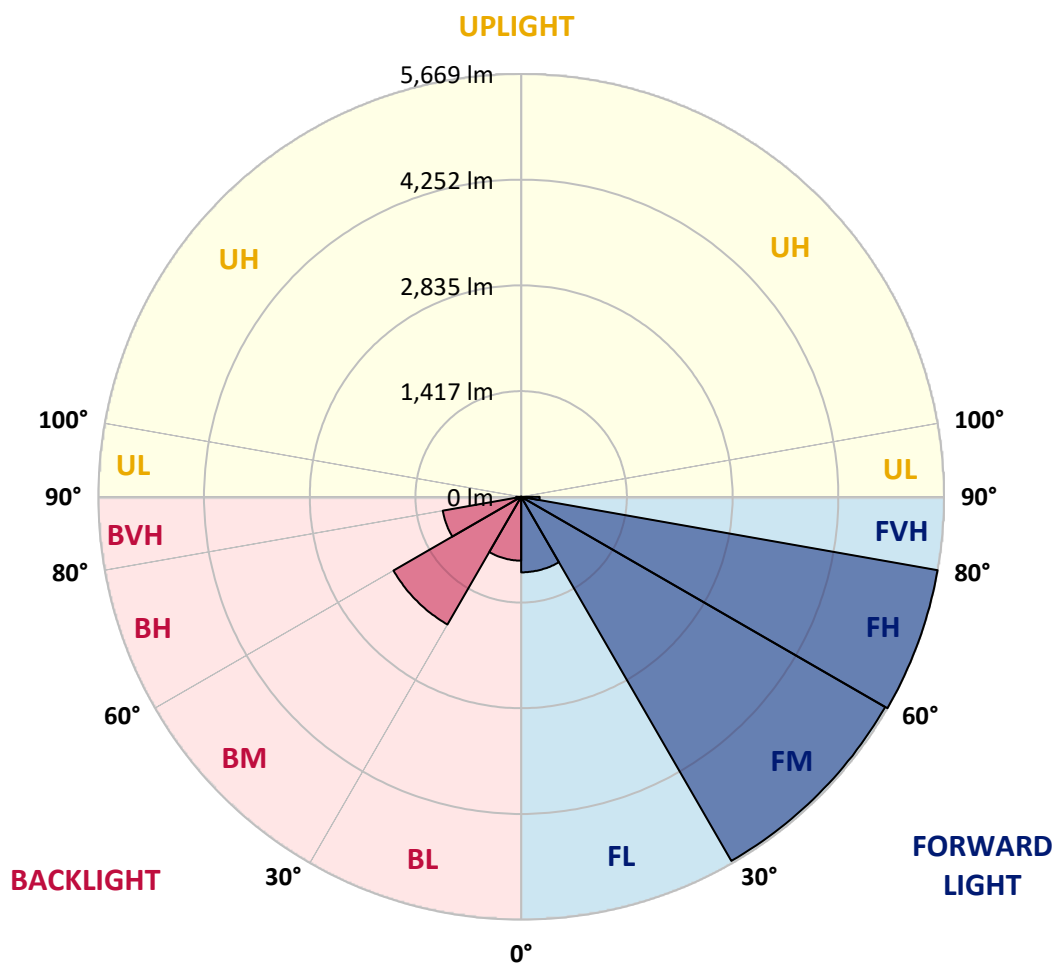
CATALOG NUMBER: VST-E06-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.0	6.1			
FM	(30°-60°)	5636.8	34.1			
FH	(60°-80°)	5669.4	34.3			G3/7500
FVH	(80°-90°)	247.3	1.5			G3/500
BL	(0°-30°)	855.2	5.2	B2/1000		
BM	(30°-60°)	1976.3	12.0	B2/2500		
BH	(60°-80°)	1067.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	67.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1862.1	1866.5	1867.6	1866.5	1867.6	1863.2	1862.1	1855.6	1858.9	1850.1	1847.9
5°	1963.0	1966.3	1968.5	1959.7	1961.9	1957.5	1952.0	1945.4	1936.7	1924.6	1916.9
7.5°	2061.6	2067.1	2066.0	2062.7	2055.0	2050.7	2039.7	2029.8	2014.5	2000.2	1990.4
10°	2194.2	2193.1	2193.1	2174.5	2163.5	2153.7	2134.0	2118.6	2103.3	2082.4	2071.5
12.5°	2347.7	2340.0	2336.7	2323.6	2300.5	2283.0	2254.5	2224.9	2197.5	2175.6	2158.1
15°	2495.6	2495.6	2486.9	2466.0	2444.1	2421.1	2380.6	2337.8	2292.9	2257.8	2240.3
17.5°	2630.4	2618.4	2610.7	2583.3	2560.3	2523.0	2478.1	2432.1	2376.2	2326.9	2292.9
20°	2729.1	2719.2	2702.8	2668.8	2629.4	2585.5	2532.9	2479.2	2418.9	2365.2	2326.9
22.5°	2786.1	2774.0	2748.8	2703.9	2650.2	2588.8	2527.4	2477.0	2422.2	2381.7	2349.9
25°	2815.7	2803.6	2769.6	2710.5	2638.1	2557.0	2486.9	2437.5	2405.8	2395.9	2391.5
27.5°	2814.6	2804.7	2768.5	2700.6	2607.4	2514.3	2438.6	2397.0	2393.7	2432.1	2460.6
30°	2786.1	2779.5	2746.6	2678.7	2581.1	2483.6	2413.4	2391.5	2425.5	2506.6	2576.7
32.5°	2757.6	2754.3	2731.3	2669.9	2586.6	2504.4	2456.2	2458.4	2528.5	2653.5	2766.4
35°	2760.9	2765.3	2762.0	2729.1	2676.5	2633.7	2610.7	2658.9	2768.5	2919.8	3071.0
37.5°	2789.4	2805.8	2826.6	2829.9	2831.0	2824.4	2872.7	2974.6	3134.6	3331.9	3568.6
40°	2851.8	2870.5	2930.8	2983.4	3051.3	3132.4	3230.0	3371.4	3569.7	3813.1	4103.5
42.5°	3045.8	3072.1	3146.7	3244.2	3369.2	3496.3	3642.1	3835.0	4078.3	4334.8	4639.5
45°	3299.0	3353.8	3436.0	3544.5	3731.9	3910.6	4099.1	4315.0	4573.7	4894.8	5201.7
47.5°	3614.7	3669.5	3788.9	3905.1	4126.5	4349.0	4555.1	4780.8	5061.4	5390.2	5730.0
50°	3890.9	3953.3	4059.7	4216.4	4472.9	4745.8	4973.7	5218.2	5453.8	5800.1	6143.2
52.5°	4107.9	4152.8	4254.8	4398.3	4684.4	4983.6	5271.9	5543.7	5823.2	6169.5	6487.3
55°	4135.3	4176.9	4276.7	4441.1	4731.5	5063.6	5395.7	5717.9	6113.6	6491.7	6912.6
57.5°	4016.9	4050.9	4151.7	4298.6	4581.4	4959.5	5379.3	5792.5	6298.8	6809.6	7323.6
60°	3849.2	3883.2	3962.1	4079.4	4334.8	4742.5	5232.4	5797.9	6470.9	7208.5	7964.8
62.5°	3665.1	3694.7	3758.3	3841.6	4066.2	4442.2	5003.3	5761.8	6611.2	7605.3	8771.5
65°	3354.9	3426.2	3453.6	3539.0	3763.7	4118.8	4689.9	5517.4	6554.2	7781.7	9277.8
67°	3011.9	3084.2	3098.4	3185.0	3364.8	3705.6	4286.5	5064.7	6102.6	7477.1	9166.0
67.5°	2902.3	2963.6	2985.6	3072.1	3242.0	3563.2	4114.5	4901.4	5964.5	7310.5	9031.2
70°	2134.0	2201.9	2226.0	2262.2	2383.8	2651.3	3016.2	3699.1	4755.6	5965.6	7618.4
72.5°	1142.1	1196.9	1219.9	1273.6	1336.0	1481.8	1761.3	2251.2	2918.7	3991.7	5419.8
75°	772.7	794.6	811.1	848.3	913.0	1029.2	1151.9	1324.0	1727.3	2252.3	3084.2
77.5°	440.6	450.5	452.7	459.2	510.7	621.4	823.1	1114.7	1429.2	1632.0	1972.8
80°	190.7	210.4	225.8	215.9	212.6	235.6	294.8	439.5	861.5	1367.8	1623.2
82.5°	103.0	111.8	124.9	126.0	132.6	140.3	152.3	180.8	254.3	512.9	1119.0
85°	53.7	55.9	74.5	85.5	91.0	95.4	97.5	108.5	124.9	158.9	278.4
87.5°	7.7	11.0	13.2	17.5	19.7	20.8	24.1	30.7	36.2	43.8	74.5
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°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1838.0	1835.8	1829.3	1824.9	1820.5	1816.1	1810.6	1806.2	1798.6	1793.1	1786.5
5°	1906.0	1892.8	1884.1	1872.0	1869.8	1855.6	1841.3	1834.7	1821.6	1810.6	1797.5
7.5°	1975.0	1959.7	1945.4	1935.6	1930.1	1910.4	1896.1	1879.7	1864.3	1850.1	1834.7
10°	2056.1	2040.8	2025.4	2018.9	2009.0	1990.4	1978.3	1957.5	1942.1	1924.6	1903.8
12.5°	2140.5	2129.6	2118.6	2109.8	2105.5	2096.7	2079.2	2061.6	2040.8	2023.3	1999.1
15°	2215.1	2207.4	2203.0	2200.8	2200.8	2195.3	2178.9	2162.4	2140.5	2120.8	2094.5
17.5°	2267.7	2264.4	2267.7	2271.0	2275.3	2271.0	2267.7	2249.0	2234.8	2210.7	2184.4
20°	2298.4	2304.9	2321.4	2332.3	2342.2	2349.9	2353.2	2337.8	2319.2	2301.6	2284.1
22.5°	2331.2	2349.9	2378.4	2394.8	2411.2	2438.6	2445.2	2434.3	2420.0	2409.1	2390.4
25°	2386.0	2413.4	2462.8	2489.1	2512.1	2552.6	2558.1	2560.3	2557.0	2548.2	2525.2
27.5°	2471.5	2525.2	2591.0	2625.0	2650.2	2702.8	2723.6	2723.6	2714.8	2724.7	2724.7
30°	2620.6	2691.8	2777.3	2797.0	2836.5	2882.5	2916.5	2920.9	2922.0	2942.8	2973.5
32.5°	2849.7	2917.6	3013.0	3034.9	3068.9	3112.7	3151.1	3146.7	3156.5	3201.5	3242.0
35°	3182.8	3251.9	3314.4	3344.0	3359.3	3398.8	3413.0	3437.1	3466.7	3522.6	3517.1
37.5°	3676.1	3737.4	3746.2	3764.8	3746.2	3753.9	3764.8	3793.3	3872.2	3922.7	3841.6
40°	4270.1	4372.0	4362.2	4340.2	4298.6	4242.7	4262.4	4306.3	4391.8	4347.9	4129.8
42.5°	4830.2	4935.4	4915.7	4890.4	4798.4	4777.6	4775.4	4811.5	4857.6	4732.6	4355.6
45°	5381.5	5488.9	5454.9	5440.6	5379.3	5334.3	5371.6	5373.8	5361.7	5094.3	4552.9
47.5°	5950.3	6048.9	6027.0	6039.1	5975.5	5945.9	5949.2	5933.9	5821.0	5401.2	4706.3
50°	6409.5	6542.1	6555.3	6527.9	6493.9	6449.0	6564.1	6522.4	6271.4	5699.3	4854.3
52.5°	6766.8	6945.5	7013.4	6995.9	6968.5	6974.0	7189.9	7237.0	6821.6	6075.2	5017.6
55°	7189.9	7471.6	7582.3	7648.0	7619.5	7729.1	8223.4	8247.6	7586.7	6566.3	5230.2
57.5°	7800.4	8203.7	8553.3	8646.5	8736.4	9092.6	9894.9	9650.5	8579.6	7309.4	5499.8
60°	8728.7	9612.1	10179.8	10478.0	10688.4	11186.0	11948.8	11329.6	9817.1	8193.8	5838.5
62.5°	10028.6	11319.7	12268.9	12568.1	12654.7	12940.7	13493.1	12308.3	10491.1	8590.6	5868.1
65°	10996.4	12545.0	13681.6	13835.1	13732.0	13737.5	13882.2	12256.8	10240.1	8244.3	5359.5
67°	10932.8	12666.7	13830.7	14032.3	13889.9	13702.4	13476.7	11558.6	9433.4	7518.7	4693.2
67.5°	10835.3	12549.4	13766.0	13978.6	13848.2	13634.5	13304.6	11287.9	9182.5	7292.9	4557.3
70°	9366.6	11068.7	12707.3	13006.5	13061.3	12866.2	11940.0	9517.8	7455.1	5932.8	3539.0
72.5°	7290.7	8806.5	10427.5	10687.3	10897.7	10335.5	8690.3	6573.9	5434.1	4275.6	2562.5
75°	4813.7	6355.8	7173.5	7211.8	6943.3	5902.1	4246.0	3292.4	3030.5	2513.2	1585.9
77.5°	2575.6	3737.4	3760.4	3482.1	3354.9	2501.1	1014.9	560.1	623.6	708.0	631.3
80°	1921.3	2380.6	2758.7	2965.8	3027.2	2144.9	525.0	297.0	259.8	236.7	233.5
82.5°	1732.8	2299.5	2577.8	2690.7	2662.2	1764.6	294.8	199.5	165.5	179.7	205.0
85°	679.5	1227.5	1614.4	1562.9	1313.0	657.6	161.1	107.4	107.4	155.6	201.7
87.5°	139.2	252.1	342.0	326.6	293.7	127.1	78.9	64.7	65.8	126.0	190.7
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°	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1779.9	1773.4	1769.0	1764.6	1760.2	1758.0	1754.7	1754.7	1748.2	1746.0	1743.8
5°	1787.6	1776.6	1769.0	1759.1	1751.4	1744.9	1736.1	1733.9	1726.2	1720.8	1718.6
7.5°	1820.5	1804.0	1787.6	1775.6	1764.6	1750.3	1740.5	1731.7	1724.0	1718.6	1712.0
10°	1883.0	1865.4	1842.4	1820.5	1806.2	1784.3	1769.0	1753.6	1744.9	1738.3	1729.5
12.5°	1975.0	1949.8	1922.4	1896.1	1872.0	1843.5	1828.2	1809.5	1798.6	1793.1	1786.5
15°	2069.3	2041.9	2007.9	1982.7	1955.3	1933.4	1919.1	1902.7	1893.9	1887.3	1883.0
17.5°	2165.7	2134.0	2109.8	2084.6	2071.5	2055.0	2036.4	2015.6	1990.4	1975.0	1954.2
20°	2264.4	2240.3	2226.0	2211.8	2196.4	2173.4	2136.1	2093.4	2046.3	2001.3	1958.6
22.5°	2379.5	2365.2	2363.0	2349.9	2318.1	2263.3	2194.2	2114.2	2034.2	1959.7	1901.6
25°	2541.7	2541.7	2530.7	2477.0	2402.5	2303.8	2187.7	2072.6	1966.3	1864.3	1787.6
27.5°	2745.5	2737.9	2684.2	2573.5	2439.7	2286.3	2130.7	1984.9	1849.0	1737.2	1638.6
30°	2970.2	2916.5	2801.4	2627.2	2426.6	2229.3	2038.6	1869.8	1709.8	1572.8	1456.6
32.5°	3203.7	3073.2	2866.1	2627.2	2380.6	2143.8	1923.5	1716.4	1533.3	1379.9	1241.8
35°	3415.2	3177.4	2881.4	2584.4	2290.7	2017.8	1762.4	1527.9	1308.6	1143.1	991.9
37.5°	3607.0	3246.4	2865.0	2501.1	2160.3	1840.2	1541.0	1282.3	1034.6	874.6	745.3
40°	3731.9	3260.7	2797.0	2370.7	1973.9	1600.2	1269.2	979.8	783.7	637.9	551.3
42.5°	3809.8	3233.3	2687.4	2192.0	1722.9	1298.8	952.4	702.5	556.8	475.7	442.8
45°	3853.6	3162.0	2525.2	1947.6	1419.3	987.5	676.2	507.5	428.5	400.0	389.1
47.5°	3851.4	3046.9	2322.5	1664.9	1084.0	688.3	479.0	395.7	373.7	365.0	362.8
50°	3828.4	2905.6	2084.6	1358.0	782.6	480.1	379.2	355.1	349.6	344.2	342.0
52.5°	3796.6	2730.2	1821.6	1058.8	555.7	383.6	344.2	337.6	333.2	327.7	325.5
55°	3737.4	2514.3	1536.6	796.8	435.1	346.3	332.1	329.9	324.4	316.7	312.4
57.5°	3665.1	2295.1	1263.7	622.5	384.7	337.6	329.9	326.6	318.9	310.2	301.4
60°	3638.8	2114.2	1050.0	525.0	372.6	340.9	335.4	331.0	320.0	306.9	297.0
62.5°	3474.4	1910.4	896.5	486.6	379.2	355.1	352.9	346.3	329.9	314.6	299.2
65°	3049.1	1615.5	759.5	460.3	392.4	379.2	381.4	371.6	355.1	334.3	306.9
67°	2578.9	1317.4	632.4	435.1	402.2	404.4	412.1	404.4	383.6	354.0	316.7
67.5°	2454.0	1241.8	600.6	427.4	404.4	411.0	419.8	414.3	393.5	359.5	321.1
70°	1823.8	874.6	448.3	386.9	404.4	430.7	450.5	455.9	432.9	385.8	329.9
72.5°	1284.5	564.5	344.2	335.4	367.2	402.2	439.5	458.1	431.8	380.3	317.8
75°	771.6	352.9	279.5	285.0	309.1	345.2	374.8	382.5	349.6	316.7	275.1
77.5°	357.3	234.5	219.2	226.9	249.9	266.3	266.3	251.0	225.8	206.1	197.3
80°	210.4	191.8	190.7	205.0	220.3	208.2	189.6	168.8	155.6	149.1	145.8
82.5°	197.3	205.0	218.1	221.4	209.3	179.7	156.7	135.9	129.3	126.0	122.8
85°	232.4	248.8	226.9	209.3	185.2	151.3	122.8	105.2	101.9	98.6	94.3
87.5°	214.8	205.0	178.7	153.4	127.1	92.1	66.9	60.3	64.7	63.6	61.4
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):

	160°	165°	170°	175°	180°
0°	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1744.9	1744.9	1740.5	1738.3	1743.8
5°	1714.2	1715.3	1712.0	1710.9	1712.0
7.5°	1707.6	1706.5	1704.3	1702.1	1704.3
10°	1727.3	1726.2	1722.9	1725.1	1721.8
12.5°	1786.5	1793.1	1792.0	1794.2	1798.6
15°	1883.0	1881.9	1878.6	1880.8	1884.1
17.5°	1937.8	1929.0	1921.3	1918.0	1918.0
20°	1924.6	1899.4	1886.3	1878.6	1876.4
22.5°	1846.8	1810.6	1783.2	1776.6	1771.2
25°	1719.7	1674.7	1639.6	1632.0	1617.7
27.5°	1571.7	1511.4	1469.8	1461.0	1453.3
30°	1377.7	1308.6	1260.4	1229.7	1239.6
32.5°	1141.0	1075.2	1019.3	970.0	962.3
35°	881.2	808.9	759.5	737.6	723.4
37.5°	657.6	597.3	564.5	543.6	544.7
40°	503.1	471.3	453.8	439.5	440.6
42.5°	419.8	405.5	401.1	394.6	391.3
45°	380.3	375.9	377.0	370.5	368.3
47.5°	358.4	355.1	356.2	351.8	350.7
50°	340.9	338.7	339.8	336.5	335.4
52.5°	323.3	324.4	323.3	321.1	321.1
55°	308.0	306.9	309.1	305.8	305.8
57.5°	295.9	294.8	294.8	293.7	293.7
60°	289.3	285.0	283.9	283.9	285.0
62.5°	286.1	278.4	277.3	277.3	278.4
65°	287.2	275.1	270.7	269.6	268.5
67°	288.3	270.7	261.9	257.6	256.5
67.5°	289.3	268.5	258.7	254.3	252.1
70°	282.8	253.2	238.9	231.3	229.1
72.5°	266.3	234.5	217.0	207.1	205.0
75°	236.7	212.6	197.3	186.3	181.9
77.5°	183.0	172.1	166.6	160.0	157.8
80°	142.5	137.0	134.8	130.4	129.3
82.5°	118.4	112.9	109.6	104.1	100.8
85°	92.1	85.5	83.3	78.9	76.7
87.5°	60.3	57.0	55.9	50.4	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)