

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: P159779

Luminaire Tested: **VST-E06-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159779
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-T4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16310.8 lumens
Efficiency: N/A
Efficacy: 108.4 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



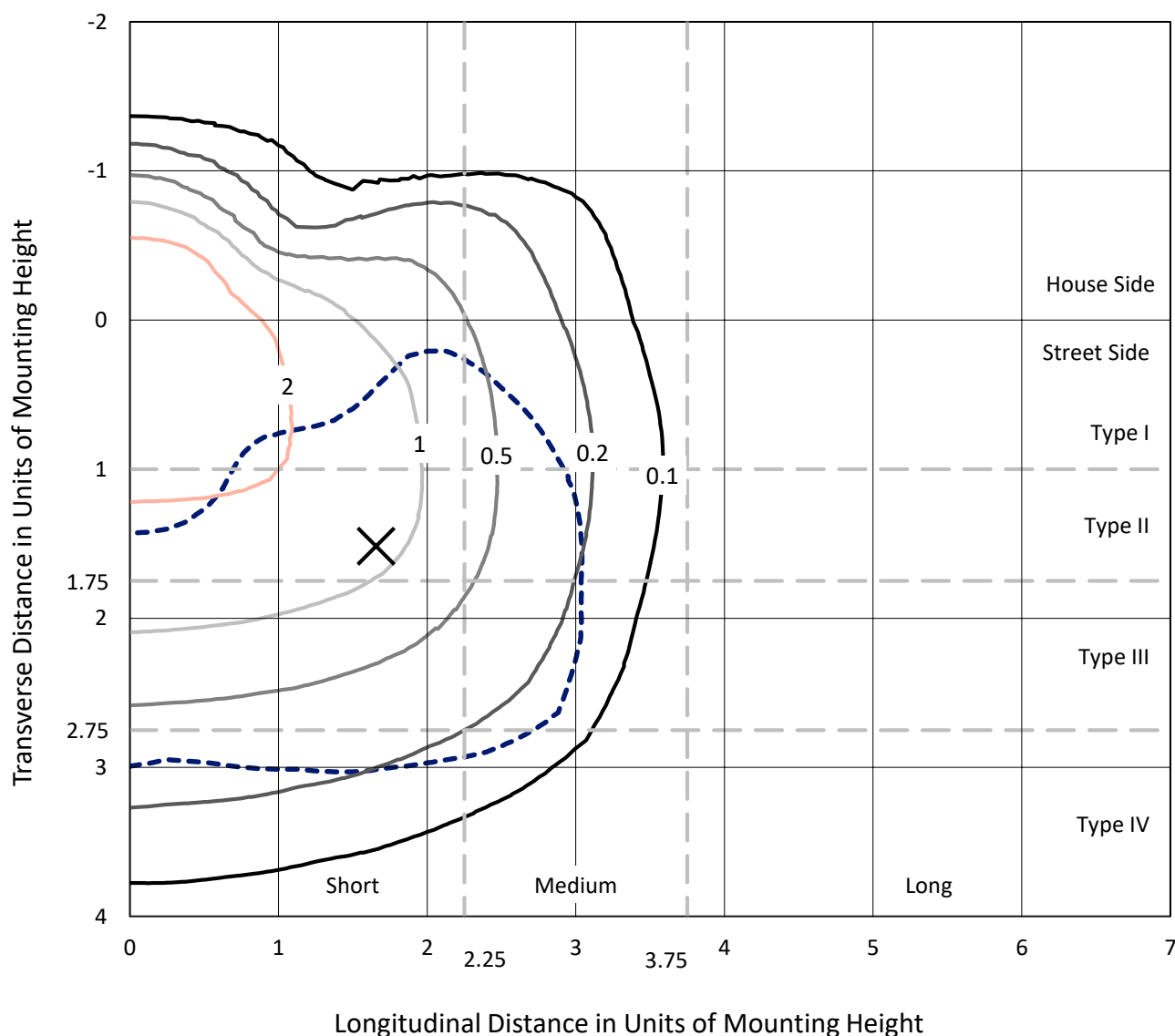
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

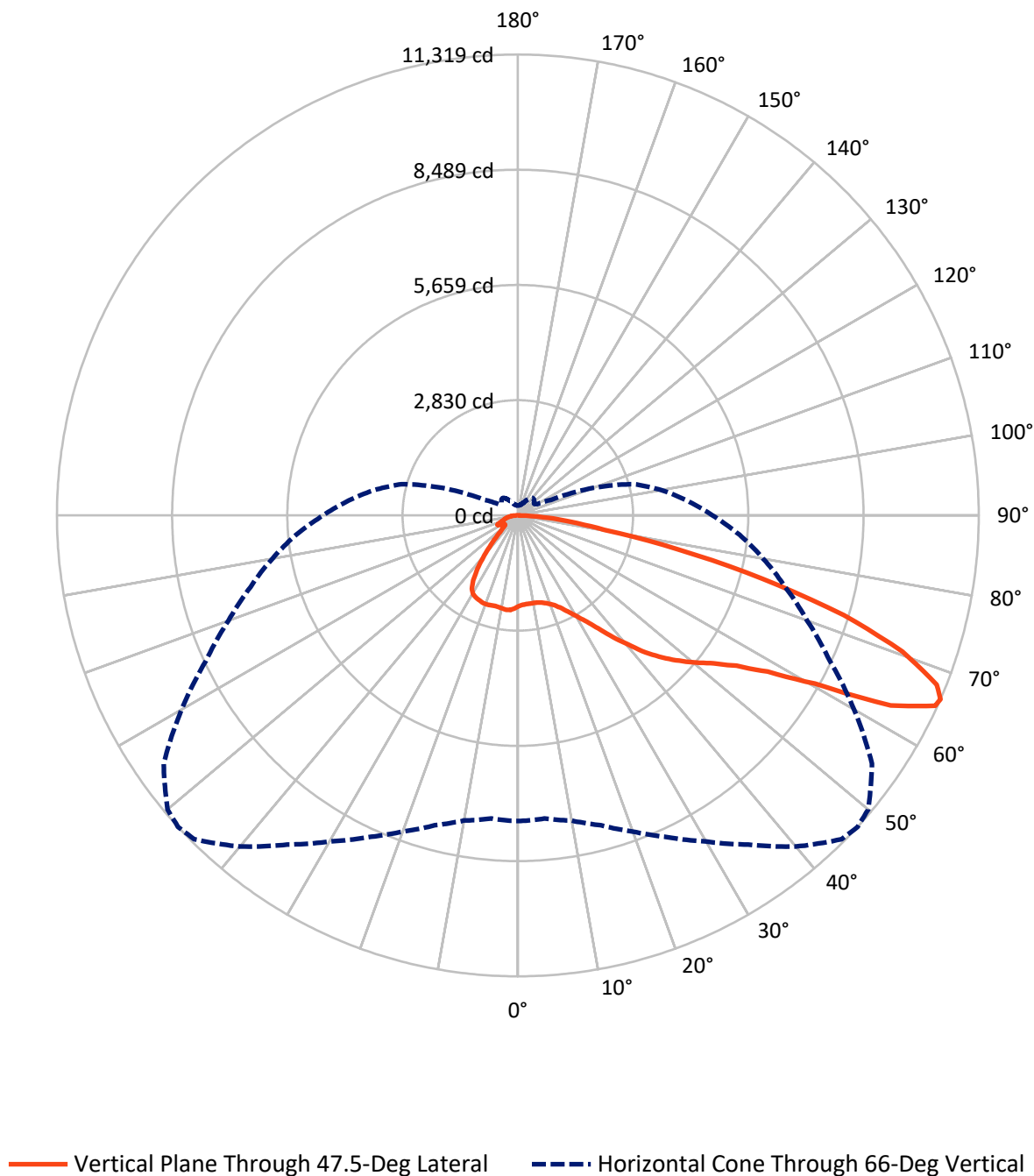


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3377.0	0.0	3377.0
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	12933.7	0.0	12933.7
	% Fixture	79.3	0.0	79.3
Total	Lumens	16310.8	0.0	16310.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	1.3
10°-20°	645.0	4.0
20°-30°	1100.5	6.7
30°-40°	1661.0	10.2
40°-50°	2158.9	13.2
50°-60°	2961.8	18.2
60°-70°	4556.3	27.9
70°-80°	2633.8	16.1
80°-90°	378.4	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°	16310.8	100.0
0°-180°	16310.8	100.0

Coefficient of Utilization



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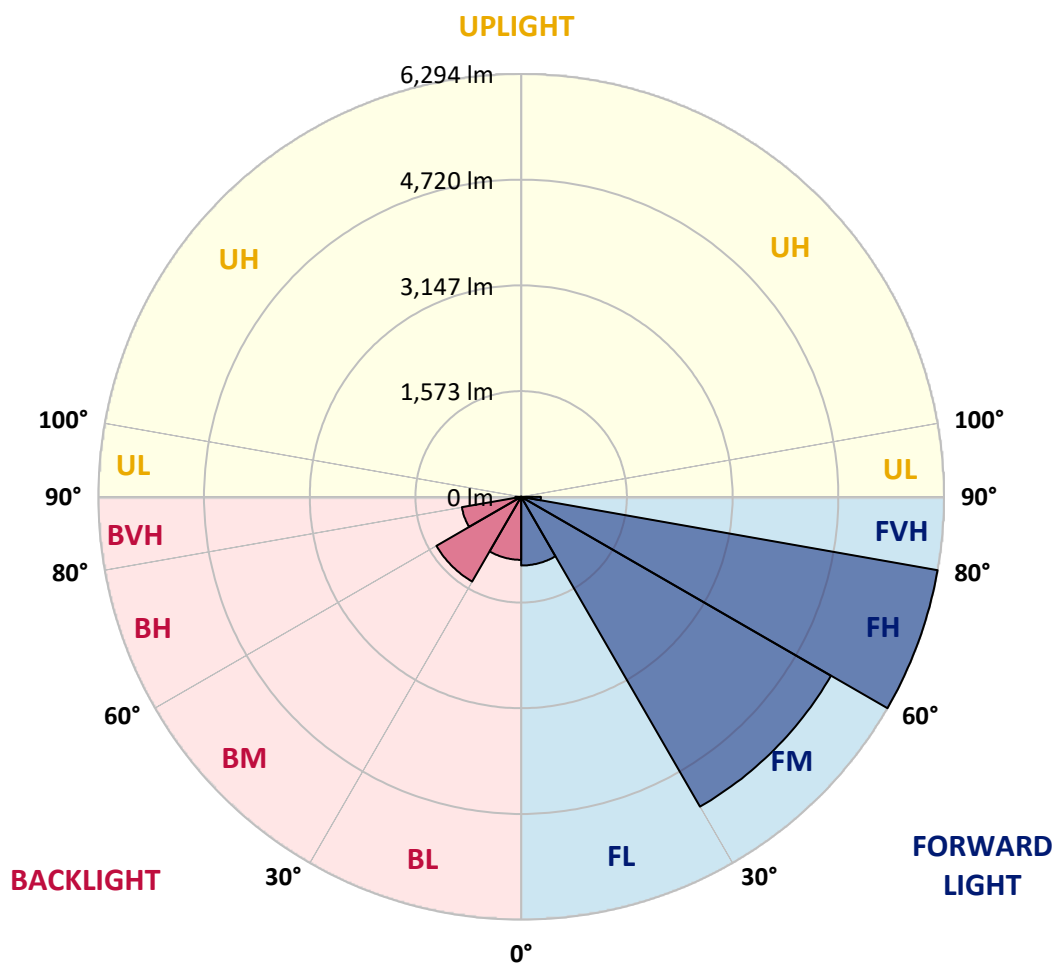
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.4	6.3			
FM	(30°-60°)	5324.8	32.6			
FH	(60°-80°)	6293.8	38.6			G3/7500
FVH	(80°-90°)	292.8	1.8			G3/500
BL	(0°-30°)	938.2	5.8	B2/1000		
BM	(30°-60°)	1457.0	8.9	B2/2500		
BH	(60°-80°)	896.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	85.6	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°	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5
2.5°	2174.5	2175.6	2176.7	2176.7	2180.0	2180.0	2185.5	2188.8	2189.8	2196.4	2200.8
5°	2134.0	2132.9	2134.0	2136.1	2141.6	2146.0	2157.0	2164.6	2171.2	2182.2	2187.7
7.5°	2116.4	2118.6	2120.8	2121.9	2126.3	2137.2	2147.1	2154.8	2167.9	2181.1	2186.6
10°	2139.4	2142.7	2139.4	2141.6	2141.6	2151.5	2155.9	2161.4	2171.2	2183.3	2186.6
12.5°	2193.1	2199.7	2193.1	2187.7	2183.3	2192.0	2189.8	2185.5	2190.9	2194.2	2194.2
15°	2281.9	2281.9	2277.5	2269.9	2258.9	2260.0	2250.1	2240.3	2235.9	2228.2	2222.7
17.5°	2368.5	2366.3	2356.4	2346.6	2338.9	2335.6	2321.4	2308.2	2292.9	2280.8	2267.7
20°	2452.9	2461.7	2449.6	2435.4	2423.3	2415.6	2404.7	2378.4	2359.7	2340.0	2326.9
22.5°	2598.7	2591.0	2577.8	2557.0	2545.0	2531.8	2508.8	2480.3	2451.8	2427.7	2411.2
25°	2748.8	2741.1	2722.5	2707.2	2689.6	2678.7	2653.5	2618.4	2591.0	2553.7	2531.8
27.5°	2909.9	2903.4	2881.4	2869.4	2857.3	2844.2	2822.3	2786.1	2760.9	2718.1	2695.1
30°	3091.9	3090.8	3061.2	3059.0	3041.5	3027.2	3011.9	2981.2	2956.0	2913.2	2885.8
32.5°	3285.9	3281.5	3260.7	3254.1	3266.1	3256.3	3234.4	3202.6	3169.7	3144.5	3113.8
35°	3562.1	3554.4	3542.3	3547.8	3555.5	3582.9	3548.9	3521.5	3482.1	3449.2	3406.4
37.5°	3763.7	3752.8	3767.0	3797.7	3841.6	3862.4	3892.0	3893.1	3874.4	3830.6	3793.3
40°	3949.0	3944.6	3977.5	4020.2	4101.3	4160.5	4216.4	4243.8	4250.4	4221.9	4166.0
42.5°	4105.7	4118.8	4162.7	4228.4	4342.4	4432.3	4536.4	4601.1	4641.6	4626.3	4601.1
45°	4292.0	4298.6	4352.3	4435.6	4544.1	4693.2	4830.2	4939.8	5011.0	5009.9	4981.4
47.5°	4525.5	4526.6	4572.6	4670.1	4786.3	4937.6	5110.7	5256.5	5350.8	5355.2	5333.2
50°	4802.8	4800.6	4851.0	4943.1	5066.9	5212.7	5396.8	5578.7	5710.3	5710.3	5678.5
52.5°	5160.1	5155.7	5183.1	5264.2	5383.7	5537.1	5720.1	5930.6	6073.0	6103.7	6034.7
55°	5636.8	5643.4	5650.0	5721.2	5823.2	5944.8	6155.3	6349.2	6540.0	6557.5	6516.9
57.5°	6188.1	6166.2	6213.3	6329.5	6445.7	6598.0	6747.1	6976.2	7202.0	7240.3	7234.8
60°	7049.6	7021.1	7069.3	7217.3	7345.5	7585.6	7840.9	8136.9	8404.3	8483.2	8387.8
62.5°	7842.0	7877.1	7942.9	8114.9	8301.3	8621.3	9004.9	9512.4	10019.8	10296.0	10276.3
65°	7770.8	7737.9	7863.9	8098.5	8436.1	8843.8	9320.6	9932.1	10663.2	11217.8	11267.1
66°	7506.6	7472.7	7608.6	7877.1	8262.9	8716.7	9246.0	9868.6	10616.1	11243.0	11318.6
67.5°	7070.4	7036.5	7189.9	7434.3	7832.2	8403.2	8975.3	9655.9	10433.0	11033.6	11095.0
70°	6228.7	6182.7	6302.1	6578.3	6900.5	7452.9	7997.7	8718.8	9516.7	9996.8	10019.8
72.5°	5276.2	5168.8	5296.0	5508.6	5738.8	6195.8	6670.4	7163.6	7799.3	8243.2	8370.3
75°	3828.4	3884.3	3921.6	4061.9	4214.2	4592.3	4870.7	5283.9	5776.0	6097.2	6199.1
77.5°	2030.9	2115.3	2167.9	2308.2	2560.3	2848.6	3150.0	3405.3	3728.7	3908.4	4033.4
80°	1139.9	1199.0	1284.5	1395.2	1518.0	1739.4	1918.0	2049.6	2095.6	2127.4	2155.9
82.5°	626.9	777.1	904.2	980.9	1053.3	1142.1	1248.4	1358.0	1393.0	1340.4	1313.0
85°	97.5	143.6	437.3	533.8	580.9	648.8	725.6	806.7	807.8	694.9	758.4
87.5°	27.4	30.7	62.5	94.3	92.1	74.5	92.1	167.7	98.6	49.3	57.0
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°	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5
2.5°	2203.0	2205.2	2210.7	2216.2	2221.6	2227.1	2230.4	2235.9	2240.3	2246.8	2254.5
5°	2194.2	2199.7	2209.6	2221.6	2232.6	2242.5	2250.1	2261.1	2271.0	2279.7	2292.9
7.5°	2194.2	2205.2	2221.6	2234.8	2244.6	2256.7	2268.8	2279.7	2290.7	2299.5	2308.2
10°	2195.3	2206.3	2222.7	2238.1	2249.0	2262.2	2272.1	2281.9	2294.0	2299.5	2310.4
12.5°	2199.7	2204.1	2216.2	2231.5	2244.6	2257.8	2267.7	2277.5	2290.7	2292.9	2300.5
15°	2221.6	2215.1	2218.3	2229.3	2243.6	2254.5	2265.5	2273.1	2281.9	2279.7	2286.3
17.5°	2262.2	2245.7	2239.2	2240.3	2246.8	2254.5	2258.9	2260.0	2261.1	2251.2	2252.3
20°	2317.0	2294.0	2278.6	2271.0	2262.2	2254.5	2242.5	2228.2	2215.1	2195.3	2193.1
22.5°	2399.2	2365.2	2348.8	2327.9	2301.6	2268.8	2239.2	2204.1	2175.6	2146.0	2135.0
25°	2518.7	2483.6	2466.0	2433.2	2386.0	2338.9	2296.2	2249.0	2207.4	2172.3	2155.9
27.5°	2678.7	2643.6	2625.0	2591.0	2532.9	2485.8	2426.6	2376.2	2325.8	2274.2	2253.4
30°	2872.7	2842.0	2821.2	2793.8	2743.3	2691.8	2622.8	2545.0	2464.9	2382.7	2342.2
32.5°	3101.7	3067.8	3052.4	3020.6	2968.0	2914.3	2837.6	2737.9	2604.1	2474.8	2393.7
35°	3387.8	3349.4	3331.9	3290.3	3228.9	3150.0	3067.8	2934.0	2753.2	2573.5	2440.8
37.5°	3770.3	3684.8	3626.7	3531.4	3432.7	3322.0	3204.8	3067.8	2854.0	2631.5	2447.4
40°	4109.0	4022.4	3910.6	3773.6	3620.2	3467.8	3334.1	3178.5	2946.1	2673.2	2426.6
42.5°	4529.9	4376.4	4197.8	4012.5	3808.7	3621.3	3462.3	3279.3	3008.6	2684.2	2368.5
45°	4914.6	4731.5	4492.6	4246.0	3992.8	3757.2	3578.5	3374.6	3062.3	2684.2	2298.4
47.5°	5265.3	5046.1	4760.0	4453.1	4158.3	3900.7	3698.0	3472.2	3137.9	2718.1	2277.5
50°	5589.7	5337.6	5012.1	4655.9	4324.9	4049.8	3831.7	3597.1	3253.0	2805.8	2327.9
52.5°	5931.7	5664.2	5267.5	4889.3	4524.4	4229.5	3997.2	3751.7	3402.0	2943.9	2416.7
55°	6379.9	6066.5	5616.0	5199.5	4798.4	4472.9	4208.7	3936.9	3565.4	3099.5	2525.2
57.5°	7086.9	6632.0	6181.6	5640.1	5262.0	4833.4	4544.1	4231.7	3830.6	3302.3	2688.5
60°	8324.3	7765.3	7223.9	6601.3	6134.4	5686.2	5248.8	4841.1	4357.8	3760.4	3046.9
62.5°	10091.1	9523.3	8672.8	7911.1	7206.3	6612.3	6042.4	5523.9	4903.6	4250.4	3488.6
65°	11146.5	10496.6	9482.8	8459.1	7603.1	6866.6	6214.4	5579.8	4910.2	4273.4	3622.3
66°	11230.9	10616.1	9533.2	8451.4	7562.5	6798.6	6120.2	5463.7	4777.6	4168.2	3578.5
67.5°	11074.2	10544.8	9430.2	8302.4	7393.8	6568.5	5871.4	5183.1	4493.7	3929.2	3432.7
70°	9968.3	9585.8	8630.1	7573.5	6667.1	5939.3	5203.9	4541.9	3888.7	3414.1	3045.8
72.5°	8171.9	7687.5	7018.9	6308.7	5595.2	4949.6	4281.1	3717.7	3169.7	2824.4	2563.6
75°	6002.9	5566.7	4830.2	4387.4	3916.1	3510.6	3060.1	2526.3	2137.2	1964.1	1900.5
77.5°	3805.4	3331.9	2710.5	2221.6	1910.4	1641.8	1294.4	1029.2	824.2	858.2	950.2
80°	1922.4	1656.1	1239.6	978.7	846.1	703.6	556.8	422.0	308.0	351.8	397.9
82.5°	1234.1	1030.3	820.9	646.7	545.8	481.2	384.7	279.5	208.2	234.5	287.2
85°	743.1	628.0	500.9	409.9	356.2	297.0	218.1	154.5	153.4	164.4	202.8
87.5°	112.9	161.1	93.2	99.7	105.2	112.9	99.7	84.4	73.4	95.4	120.6
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°	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5	2231.5
2.5°	2262.2	2264.4	2268.8	2274.2	2273.1	2280.8	2285.2	2280.8	2290.7	2290.7	2296.2
5°	2303.8	2307.1	2314.8	2320.3	2322.5	2329.0	2331.2	2330.1	2332.3	2333.4	2335.6
7.5°	2315.9	2324.7	2327.9	2331.2	2332.3	2334.5	2334.5	2332.3	2332.3	2331.2	2333.4
10°	2312.6	2315.9	2318.1	2317.0	2317.0	2314.8	2313.7	2312.6	2312.6	2310.4	2313.7
12.5°	2301.6	2301.6	2301.6	2299.5	2299.5	2298.4	2298.4	2298.4	2300.5	2301.6	2307.1
15°	2279.7	2279.7	2281.9	2280.8	2284.1	2289.6	2296.2	2300.5	2306.0	2307.1	2310.4
17.5°	2245.7	2246.8	2253.4	2267.7	2281.9	2298.4	2310.4	2313.7	2309.3	2298.4	2290.7
20°	2186.6	2200.8	2227.1	2261.1	2292.9	2313.7	2319.2	2306.0	2285.2	2256.7	2241.4
22.5°	2134.0	2162.4	2209.6	2265.5	2304.9	2319.2	2302.7	2272.1	2234.8	2201.9	2178.9
25°	2154.8	2187.7	2237.0	2285.2	2310.4	2302.7	2269.9	2226.0	2186.6	2148.2	2110.9
27.5°	2242.5	2275.3	2310.4	2324.7	2315.9	2287.4	2241.4	2194.2	2141.6	2086.8	2040.8
30°	2325.8	2344.4	2346.6	2332.3	2300.5	2254.5	2200.8	2146.0	2079.2	2013.4	1955.3
32.5°	2352.1	2330.1	2290.7	2250.1	2206.3	2159.2	2096.7	2024.3	1953.1	1878.6	1813.9
35°	2344.4	2255.6	2158.1	2071.5	2018.9	1965.2	1908.2	1811.7	1731.7	1668.1	1626.5
37.5°	2275.3	2113.1	1963.0	1836.9	1754.7	1691.2	1606.8	1526.8	1457.7	1429.2	1395.2
40°	2178.9	1931.2	1722.9	1546.5	1461.0	1379.9	1285.6	1224.3	1204.5	1178.2	1179.3
42.5°	2040.8	1718.6	1450.0	1247.3	1154.1	1065.3	998.5	962.3	963.4	941.5	945.9
45°	1895.0	1504.8	1167.3	965.6	873.5	797.9	760.6	749.7	750.8	751.9	745.3
47.5°	1806.2	1338.2	936.0	732.1	651.0	608.3	588.6	583.1	584.2	585.3	577.6
50°	1793.1	1251.7	781.5	560.1	507.5	483.3	473.5	468.0	468.0	463.6	457.0
52.5°	1830.4	1229.7	705.8	485.5	435.1	413.2	405.5	401.1	394.6	385.8	373.7
55°	1889.5	1249.5	682.8	460.3	411.0	389.1	379.2	377.0	366.1	349.6	329.9
57.5°	1999.1	1320.7	698.2	466.9	415.4	395.7	389.1	386.9	371.6	346.3	321.1
60°	2313.7	1527.9	774.9	504.2	447.2	430.7	430.7	427.4	406.6	370.5	334.3
62.5°	2747.7	1831.5	879.0	555.7	491.0	488.8	507.5	508.6	471.3	413.2	356.2
65°	2957.1	1973.9	915.2	566.6	503.1	528.3	565.5	565.5	512.9	432.9	359.5
66°	2958.2	1970.6	904.2	553.5	489.9	522.8	561.2	561.2	506.4	427.4	354.0
67.5°	2882.5	1909.3	868.0	529.4	460.3	491.0	525.0	523.9	474.6	405.5	338.7
70°	2585.5	1689.0	765.0	489.9	425.3	426.4	438.4	430.7	397.9	350.7	308.0
72.5°	2229.3	1412.8	663.1	464.7	397.9	377.0	367.2	360.6	339.8	311.3	285.0
75°	1709.8	1097.1	577.6	441.7	373.7	337.6	324.4	318.9	304.7	288.3	267.4
77.5°	1047.8	751.9	489.9	404.4	346.3	313.5	299.2	288.3	274.0	258.7	244.4
80°	451.6	453.8	392.4	343.1	301.4	263.0	244.4	231.3	223.6	218.1	210.4
82.5°	315.7	325.5	299.2	266.3	230.2	202.8	186.3	183.0	184.1	184.1	181.9
85°	236.7	232.4	209.3	190.7	174.3	156.7	143.6	142.5	146.9	146.9	143.6
87.5°	137.0	138.1	118.4	110.7	115.1	98.6	89.9	91.0	101.9	100.8	98.6
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):

	160°	165°	170°	175°	180°
0°	2231.5	2231.5	2231.5	2231.5	2231.5
2.5°	2296.2	2299.5	2298.4	2301.6	2298.4
5°	2338.9	2337.8	2336.7	2341.1	2335.6
7.5°	2332.3	2333.4	2333.4	2333.4	2332.3
10°	2315.9	2320.3	2322.5	2326.9	2325.8
12.5°	2310.4	2317.0	2323.6	2330.1	2331.2
15°	2311.5	2315.9	2319.2	2322.5	2323.6
17.5°	2283.0	2281.9	2278.6	2276.4	2274.2
20°	2224.9	2219.4	2214.0	2205.2	2209.6
22.5°	2152.6	2137.2	2119.7	2105.5	2104.4
25°	2068.2	2039.7	2011.2	1992.6	1986.0
27.5°	1993.7	1959.7	1930.1	1913.7	1909.3
30°	1904.9	1874.2	1847.9	1833.6	1824.9
32.5°	1773.4	1749.2	1716.4	1705.4	1704.3
35°	1590.3	1571.7	1548.7	1544.3	1538.8
37.5°	1383.2	1376.6	1365.6	1352.5	1350.3
40°	1161.8	1166.2	1162.9	1155.2	1143.1
42.5°	948.1	955.7	956.8	962.3	967.8
45°	755.2	761.7	761.7	767.2	773.8
47.5°	579.8	575.4	578.7	584.2	587.5
50°	438.4	435.1	429.6	425.3	420.9
52.5°	352.9	346.3	331.0	326.6	322.2
55°	311.3	299.2	288.3	283.9	283.9
57.5°	299.2	283.9	271.8	266.3	264.1
60°	301.4	279.5	264.1	255.4	252.1
62.5°	311.3	280.6	259.8	249.9	246.6
65°	310.2	278.4	258.7	247.7	244.4
66°	304.7	275.1	256.5	246.6	244.4
67.5°	295.9	270.7	254.3	245.5	242.2
70°	278.4	261.9	249.9	242.2	238.9
72.5°	264.1	253.2	242.2	233.5	231.3
75°	251.0	240.0	230.2	225.8	222.5
77.5°	231.3	221.4	215.9	211.5	209.3
80°	205.0	198.4	191.8	187.4	184.1
82.5°	178.7	169.9	163.3	160.0	157.8
85°	145.8	140.3	130.4	123.9	122.8
87.5°	97.5	92.1	88.8	83.3	77.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)