

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: P165050

Luminaire Tested: **VST-F05-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165050
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6311.2 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

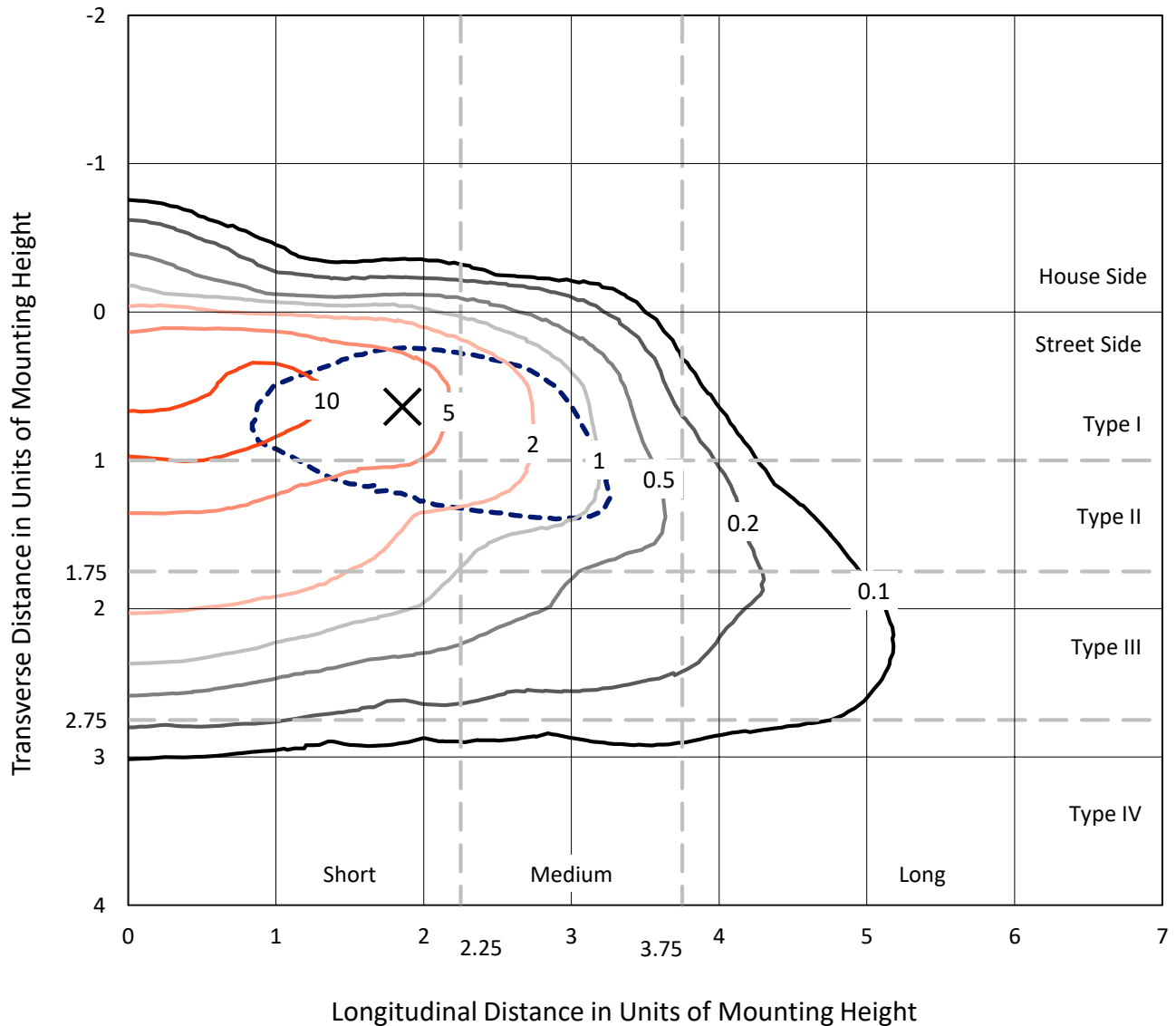
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

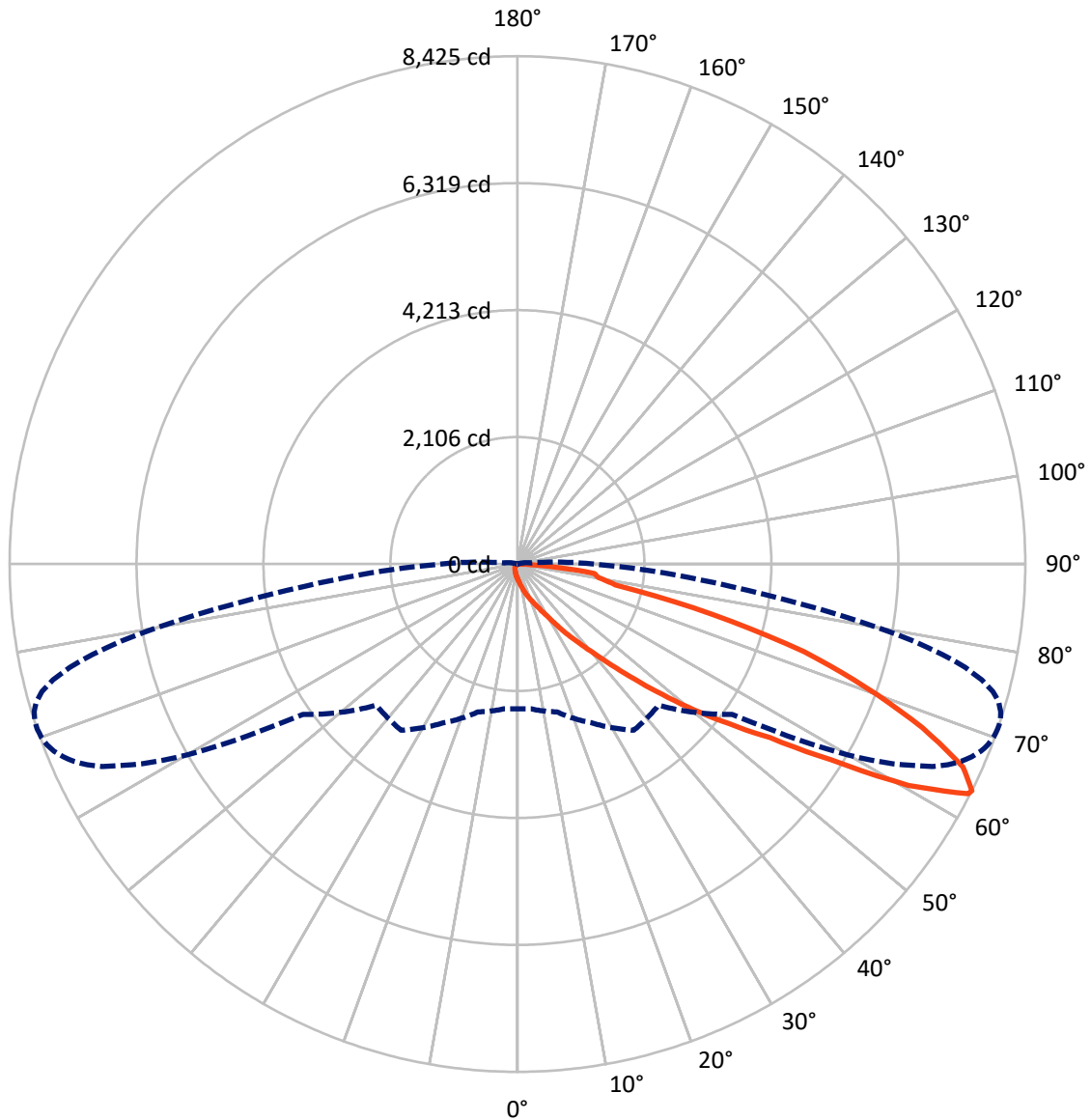
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	134.0	0.0	134.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6177.2	0.0	6177.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	6311.2	0.0	6311.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.4
10°-20°	103.8	1.6
20°-30°	210.8	3.3
30°-40°	515.0	8.2
40°-50°	1151.7	18.2
50°-60°	1619.4	25.7
60°-70°	1904.3	30.2
70°-80°	687.6	10.9
80°-90°	91.9	1.5
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°	6311.2	100.0
0°-180°	6311.2	100.0



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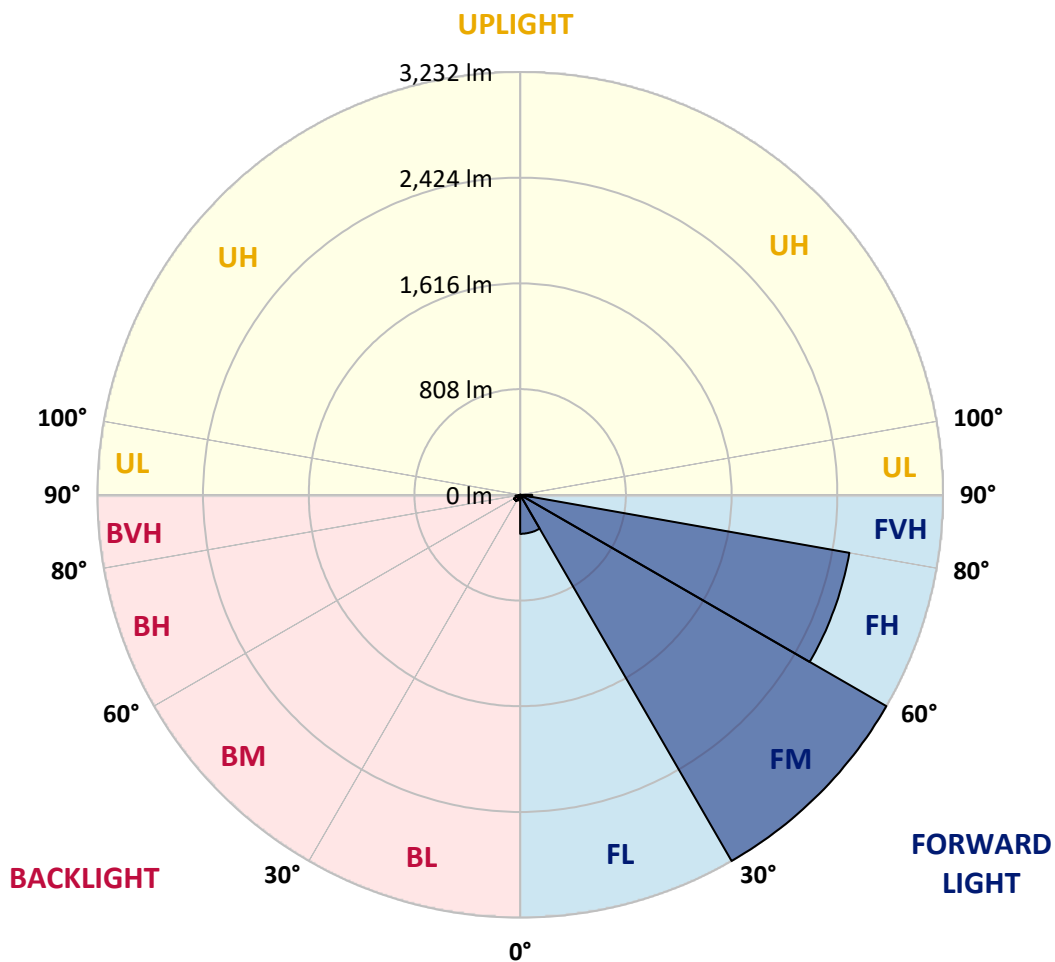
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.2	4.7			
FM (30°-60°)	3232.1	51.2			
FH (60°-80°)	2555.2	40.5			G2/5000
FVH (80°-90°)	91.8	1.5			G1/100
BL (0°-30°)	43.1	0.7	B0/110		
BM (30°-60°)	54.0	0.9	B0/220		
BH (60°-80°)	36.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	316.7	320.1	317.8	312.1	305.2	296.0	288.0	288.0	286.8	283.4	284.5
5°	415.3	416.5	411.9	398.1	385.5	366.0	344.2	341.9	339.6	336.2	335.1
7.5°	511.8	516.3	511.8	496.8	471.6	441.7	407.3	403.9	397.0	397.0	392.4
10°	610.4	610.4	605.8	588.6	565.6	523.2	479.6	473.8	465.8	463.5	456.6
12.5°	680.4	680.4	678.1	668.9	650.5	612.7	559.9	554.2	543.9	540.4	532.4
15°	707.9	707.9	709.1	717.1	718.3	701.1	645.9	641.3	631.0	621.8	618.4
17.5°	725.1	724.0	724.0	735.5	756.1	767.6	732.0	727.4	716.0	711.4	699.9
20°	763.0	760.7	753.8	753.8	773.3	813.4	813.4	812.3	799.7	796.2	790.5
22.5°	819.2	816.9	796.2	779.0	788.2	838.7	885.8	883.5	878.9	874.3	870.8
25°	911.0	903.0	867.4	816.9	808.9	862.8	940.8	946.6	950.0	950.0	952.3
27.5°	1049.8	1039.5	976.4	882.3	846.7	901.8	1001.6	1013.1	1023.4	1025.7	1036.0
30°	1242.6	1224.2	1133.6	995.9	914.5	959.2	1091.2	1103.8	1118.7	1123.3	1139.3
32.5°	1559.2	1548.9	1461.8	1255.2	1080.8	1071.6	1216.2	1232.2	1251.8	1259.8	1279.3
35°	2041.2	2043.5	1972.3	1786.4	1545.5	1419.3	1439.9	1453.7	1460.6	1484.7	1495.0
37.5°	2368.1	2373.8	2389.9	2316.5	2144.4	2015.9	1854.1	1869.1	1833.5	1836.9	1838.1
40°	2547.1	2565.4	2659.6	2730.7	2716.9	2642.4	2512.7	2520.7	2454.2	2439.3	2367.0
42.5°	2666.4	2690.5	2840.9	3061.1	3173.6	3241.3	3211.5	3208.0	3156.4	3136.8	3076.0
45°	2741.0	2762.8	2952.1	3276.8	3536.1	3733.5	3814.9	3824.1	3780.5	3761.0	3710.5
47.5°	2737.5	2762.8	2965.9	3357.2	3739.2	4054.7	4284.2	4295.7	4322.1	4304.9	4308.3
50°	2586.1	2610.3	2814.5	3220.6	3679.5	4201.6	4621.5	4658.2	4700.7	4729.4	4743.2
52.5°	2402.6	2419.8	2601.1	2986.6	3424.8	4140.8	4821.1	4884.3	4947.4	5001.3	5039.1
55°	2334.8	2354.3	2496.6	2816.8	3220.6	3886.0	4914.1	5007.0	5096.6	5184.9	5257.1
57.5°	2370.4	2388.8	2490.9	2736.4	3099.0	3617.6	4940.5	5085.1	5231.9	5375.3	5517.6
60°	2501.2	2520.7	2608.0	2811.0	3066.9	3462.7	4837.2	5077.0	5321.4	5571.5	5806.7
62.5°	2449.6	2457.6	2586.1	2941.8	3296.3	3330.7	4462.0	4797.1	5170.0	5555.5	5935.2
63°	2400.3	2409.5	2540.2	2906.2	3366.3	3311.2	4346.2	4699.6	5093.1	5508.4	5921.5
65°	2176.5	2177.6	2277.5	2566.6	3288.3	3345.7	3829.9	4167.2	4619.2	5117.2	5639.2
67.5°	1624.6	1616.6	1713.0	1933.3	2581.5	3346.8	3287.1	3476.5	3790.9	4232.6	4700.7
70°	576.0	563.4	719.4	1024.5	1608.6	2737.5	2824.8	2837.4	2924.6	3163.2	3457.0
72.5°	187.0	190.5	229.4	375.2	741.2	1842.7	2557.4	2518.4	2495.5	2494.3	2533.3
75°	74.6	75.7	91.8	166.4	332.8	888.1	2239.7	2261.4	2269.5	2280.9	2293.6
77.5°	35.5	39.0	51.6	92.9	165.2	439.4	1602.8	1787.5	1893.1	1974.6	2023.9
80°	12.6	14.9	28.7	57.3	76.8	201.9	844.4	1018.8	1173.7	1373.4	1545.5
82.5°	0.0	0.0	5.7	40.1	42.4	81.4	346.5	406.1	464.7	602.3	773.3
85°	0.0	0.0	0.0	11.5	12.6	13.8	117.1	141.2	158.4	184.7	213.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	6.9	17.2	26.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	282.2	281.1	281.1	278.8	277.6	275.3	274.2	270.8	269.6	269.6	269.6
5°	333.9	329.3	327.0	321.3	317.8	316.7	311.0	308.7	305.2	306.4	300.6
7.5°	391.2	383.2	379.8	371.7	369.5	361.4	359.1	353.4	350.0	343.1	340.8
10°	454.3	444.0	438.3	425.6	422.2	416.5	409.6	402.7	397.0	390.1	386.7
12.5°	526.7	517.5	512.9	495.7	487.6	479.6	470.4	461.2	452.0	446.3	438.3
15°	611.5	596.6	592.0	576.0	562.2	551.9	539.3	527.8	520.9	509.5	501.4
17.5°	695.3	680.4	676.9	652.8	637.9	631.0	617.3	602.3	589.7	578.3	565.6
20°	779.0	768.7	759.5	736.6	720.6	709.1	690.7	675.8	665.5	649.4	633.3
22.5°	862.8	852.5	845.6	821.5	806.6	790.5	774.5	758.4	743.5	724.0	705.7
25°	948.9	942.0	938.5	916.8	903.0	888.1	872.0	853.6	835.2	813.4	794.0
27.5°	1038.3	1040.6	1033.7	1029.1	1014.2	1003.9	978.7	966.1	952.3	925.9	901.8
30°	1151.9	1158.8	1156.5	1160.0	1150.8	1143.9	1124.4	1108.4	1092.3	1067.1	1039.5
32.5°	1295.4	1304.6	1309.1	1321.8	1317.2	1314.9	1309.1	1286.2	1274.7	1231.1	1219.6
35°	1516.8	1512.2	1531.7	1542.0	1537.4	1535.2	1528.3	1515.7	1501.9	1470.9	1442.2
37.5°	1804.8	1809.4	1816.3	1795.6	1781.8	1780.7	1760.0	1747.4	1727.9	1693.5	1659.1
40°	2332.5	2303.9	2271.8	2184.5	2146.7	2124.9	2064.1	2046.9	2013.6	1966.5	1931.0
42.5°	3018.7	2990.0	2893.6	2747.9	2669.9	2562.0	2512.7	2451.9	2404.9	2328.0	2286.7
45°	3700.2	3617.6	3606.1	3436.3	3339.9	3197.7	3109.3	3007.2	2900.5	2799.6	2726.1
47.5°	4275.0	4256.6	4200.5	4097.2	4007.7	3888.3	3774.8	3617.6	3507.4	3364.0	3232.1
50°	4735.1	4734.0	4713.3	4653.6	4579.1	4482.7	4382.9	4249.8	4124.7	3949.2	3808.1
52.5°	5079.3	5097.7	5104.6	5086.2	5057.5	4972.6	4922.2	4810.8	4705.3	4556.1	4403.5
55°	5331.7	5399.4	5433.8	5472.9	5464.8	5435.0	5432.7	5360.4	5312.3	5194.0	5086.2
57.5°	5643.8	5755.1	5861.8	6051.1	6058.0	6124.6	6159.0	6193.4	6202.5	6155.5	6120.0
60°	6040.8	6268.0	6469.9	6865.8	6969.0	7131.9	7237.5	7352.2	7449.7	7457.8	7455.5
62.5°	6320.7	6670.7	6996.5	7584.0	7784.8	7973.0	8114.0	8225.4	8293.0	8361.9	8394.0
63°	6328.8	6712.0	7058.5	7664.3	7875.4	8054.4	8188.7	8291.9	8363.1	8404.3	8425.0
65°	6134.9	6599.5	7012.6	7616.1	7814.6	7994.8	8064.7	8132.4	8166.9	8182.9	8122.1
67.5°	5199.8	5654.1	6136.0	6810.7	6980.5	7196.2	7253.6	7288.0	7304.0	7300.6	7249.0
70°	3888.3	4269.3	4805.1	5576.1	5801.0	6012.1	6142.9	6199.1	6217.5	6211.7	6134.9
72.5°	2714.6	2938.3	3380.1	4238.3	4544.7	4815.4	4977.2	5060.9	5078.2	5043.7	4972.6
75°	2279.8	2291.3	2391.1	2860.3	3147.2	3436.3	3618.7	3671.5	3637.1	3532.7	3351.4
77.5°	2035.4	2060.7	2060.7	2130.6	2186.8	2267.2	2284.4	2155.8	2006.7	1814.0	1658.0
80°	1707.3	1795.6	1857.6	1909.2	1914.9	1898.9	1856.4	1784.1	1669.4	1522.5	1359.6
82.5°	1037.2	1211.6	1282.8	1548.9	1679.7	1768.0	1761.2	1664.8	1577.6	1425.0	1286.2
85°	261.6	282.2	306.4	398.1	446.3	545.0	606.9	635.6	645.9	593.2	537.0
87.5°	25.2	17.2	28.7	21.8	31.0	22.9	31.0	28.7	35.5	37.8	41.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	267.3	266.2	265.0	263.9	262.7	261.6	259.3	259.3	257.0	255.8	254.7
5°	297.2	294.9	293.7	291.4	288.0	285.7	282.2	277.6	274.2	273.1	270.8
7.5°	335.1	329.3	327.0	323.6	319.0	312.1	307.5	304.1	298.3	294.9	288.0
10°	377.5	371.7	364.9	358.0	351.1	343.1	337.3	332.8	323.6	319.0	311.0
12.5°	431.4	421.1	413.0	403.9	394.7	385.5	378.6	364.9	356.8	346.5	339.6
15°	486.5	477.3	468.1	456.6	442.8	427.9	421.1	408.4	398.1	382.1	372.9
17.5°	553.0	535.8	522.1	508.3	495.7	481.9	468.1	448.6	433.7	419.9	401.6
20°	618.4	597.8	582.8	564.5	546.2	524.4	508.3	494.5	473.8	455.5	436.0
22.5°	688.4	667.8	643.6	625.3	600.1	582.8	561.1	538.1	517.5	493.4	469.3
25°	773.3	751.5	724.0	699.9	671.2	647.1	620.7	594.3	569.1	541.6	510.6
27.5°	877.7	854.8	824.9	796.2	758.4	728.6	703.4	667.8	635.6	601.2	565.6
30°	1009.6	984.4	947.7	906.4	868.6	835.2	799.7	752.7	717.1	675.8	629.9
32.5°	1181.8	1151.9	1102.6	1063.6	1016.5	972.9	923.6	876.6	826.1	772.2	719.4
35°	1398.6	1371.1	1313.7	1256.4	1204.7	1153.1	1091.2	1037.2	966.1	900.7	832.9
37.5°	1623.5	1574.1	1521.4	1459.5	1395.1	1333.2	1257.5	1182.9	1101.5	1030.3	945.4
40°	1880.5	1820.8	1777.2	1710.7	1620.0	1531.7	1461.8	1368.8	1266.7	1171.4	1071.6
42.5°	2232.8	2166.2	2088.2	1987.2	1921.8	1818.5	1727.9	1617.8	1483.5	1376.8	1256.4
45°	2640.1	2549.4	2473.7	2376.1	2297.0	2168.5	2063.0	1916.1	1781.8	1641.9	1495.0
47.5°	3104.7	2992.3	2882.1	2785.8	2659.6	2533.3	2399.1	2243.1	2071.0	1917.2	1742.8
50°	3638.2	3478.7	3326.1	3202.3	3029.0	2883.3	2737.5	2562.0	2371.5	2194.9	1996.4
52.5°	4231.4	4046.7	3844.8	3654.3	3453.5	3266.5	3090.9	2889.0	2676.8	2461.1	2239.7
55°	4947.4	4808.5	4571.1	4329.0	4060.4	3810.4	3584.3	3334.2	3076.0	2792.7	2559.7
57.5°	6068.4	6000.6	5802.1	5560.1	5210.1	4906.1	4522.9	4216.5	3842.5	3452.4	3151.8
60°	7587.5	7503.6	7392.4	7196.2	6918.5	6505.5	6083.3	5607.1	5038.0	4497.6	3984.8
62.5°	8397.5	8367.6	8277.0	8141.6	7882.3	7556.4	7130.8	6607.6	5965.1	5308.8	4654.8
63°	8421.5	8383.7	8305.6	8168.0	7939.6	7624.2	7206.5	6698.2	6069.5	5400.6	4732.8
65°	8095.7	8080.8	8001.6	7851.3	7695.3	7454.3	7130.8	6693.6	6165.8	5533.7	4869.3
67.5°	7180.1	7135.3	7013.8	6967.8	6858.9	6691.3	6444.7	6144.0	5766.6	5269.8	4696.1
70°	6072.9	6006.3	5853.8	5772.3	5639.2	5533.7	5383.4	5168.8	4935.9	4589.4	4161.5
72.5°	4899.2	4761.5	4621.5	4409.3	4223.4	4035.2	3868.8	3717.4	3461.5	3321.5	2996.9
75°	3181.6	2931.4	2691.7	2370.4	2081.3	1825.4	1576.4	1450.3	1187.5	1080.8	928.2
77.5°	1509.9	1369.9	1181.8	1036.0	850.2	694.2	566.8	425.6	333.9	261.6	199.6
80°	1218.5	1100.3	986.7	854.8	714.8	570.2	437.1	327.0	231.7	160.6	113.6
82.5°	1086.6	958.0	818.0	727.4	632.2	517.5	424.5	346.5	255.8	187.0	127.4
85°	422.2	355.7	274.2	223.7	174.4	143.4	129.7	89.5	70.0	55.0	42.4
87.5°	36.7	29.8	24.1	16.1	17.2	9.2	10.3	6.9	5.7	5.7	4.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	253.5	252.4	251.2	248.9	248.9	246.7	245.5	244.4	238.6	226.0	215.7
5°	266.2	263.9	261.6	258.1	255.8	252.4	250.1	246.7	234.0	210.0	189.3
7.5°	284.5	279.9	276.5	269.6	266.2	261.6	258.1	252.4	231.7	195.0	166.4
10°	306.4	298.3	292.6	284.5	277.6	271.9	266.2	258.1	229.4	179.0	145.7
12.5°	332.8	323.6	312.1	302.9	293.7	285.7	277.6	267.3	226.0	165.2	129.7
15°	359.1	345.4	337.3	324.7	312.1	300.6	289.1	279.9	227.2	150.3	115.9
17.5°	388.9	375.2	358.0	344.2	330.5	315.6	301.8	283.4	221.4	138.9	105.6
20°	417.6	398.1	382.1	364.9	345.4	327.0	309.8	293.7	216.8	127.4	96.4
22.5°	448.6	425.6	405.0	383.2	359.1	338.5	317.8	297.2	208.8	117.1	88.3
25°	486.5	460.1	430.2	403.9	378.6	353.4	327.0	301.8	200.8	107.9	82.6
27.5°	532.4	498.0	468.1	434.8	399.3	367.2	338.5	311.0	192.8	101.0	76.8
30°	590.9	550.7	508.3	465.8	427.9	391.2	351.1	316.7	184.7	94.1	71.1
32.5°	668.9	618.4	566.8	517.5	467.0	419.9	377.5	332.8	180.1	88.3	65.4
35°	772.2	706.8	643.6	581.7	520.9	463.5	408.4	358.0	180.1	81.4	58.5
37.5°	869.7	794.0	713.7	636.7	564.5	498.0	432.5	371.7	171.0	75.7	52.8
40°	975.2	884.6	790.5	699.9	612.7	530.1	455.5	385.5	162.9	68.8	47.0
42.5°	1137.0	1022.3	899.6	794.0	689.6	587.4	494.5	411.9	152.6	61.9	41.3
45°	1349.3	1203.5	1059.0	930.5	797.4	672.3	562.2	460.1	150.3	56.2	35.5
47.5°	1576.4	1404.3	1234.5	1070.5	914.5	768.7	636.7	514.0	150.3	50.5	31.0
50°	1802.5	1586.8	1405.5	1215.0	1039.5	867.4	710.2	570.2	151.5	45.9	25.2
52.5°	2006.7	1776.1	1573.0	1352.7	1158.8	959.2	788.2	625.3	149.2	40.1	20.6
55°	2290.1	2019.3	1784.1	1540.9	1313.7	1088.9	895.0	707.9	150.3	35.5	17.2
57.5°	2812.2	2494.3	2211.0	1892.0	1630.4	1340.1	1104.9	877.7	164.1	29.8	12.6
60°	3561.4	3148.3	2750.2	2361.2	2028.5	1683.2	1377.9	1110.7	192.8	24.1	9.2
62.5°	4065.0	3524.6	3049.7	2620.6	2233.9	1872.5	1539.7	1235.7	212.2	19.5	5.7
63°	4116.7	3557.9	3080.6	2637.8	2243.1	1881.7	1546.6	1244.9	213.4	18.3	5.7
65°	4214.2	3615.3	3097.8	2641.2	2233.9	1869.1	1542.0	1243.7	215.7	14.9	4.6
67.5°	4102.9	3526.9	2998.1	2542.5	2153.5	1794.4	1484.7	1197.8	214.5	10.3	3.4
70°	3669.2	3192.0	2727.2	2302.7	1949.3	1624.6	1351.6	1092.3	197.3	6.9	2.3
72.5°	2694.0	2369.2	2009.0	1702.7	1468.6	1219.6	1040.6	820.3	152.6	4.6	1.1
75°	798.5	727.4	611.5	539.3	476.1	393.5	350.0	273.1	78.0	2.3	0.0
77.5°	159.5	144.6	129.7	118.2	111.3	95.2	90.6	74.6	32.1	1.1	0.0
80°	83.7	68.8	58.5	51.6	44.7	36.7	31.0	25.2	5.7	0.0	0.0
82.5°	80.3	53.9	39.0	32.1	27.5	21.8	17.2	12.6	3.4	0.0	0.0
85°	29.8	22.9	17.2	13.8	11.5	10.3	8.0	6.9	0.0	0.0	0.0
87.5°	4.6	3.4	3.4	2.3	2.3	1.1	1.1	1.1	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	205.4	196.2	191.6	185.9	185.9	184.7	187.0
5°	171.0	158.4	149.2	142.3	143.4	140.0	141.2
7.5°	144.6	132.0	123.9	119.4	118.2	117.1	117.1
10°	125.1	113.6	106.7	103.3	102.1	102.1	102.1
12.5°	111.3	99.8	94.1	91.8	91.8	90.6	90.6
15°	99.8	90.6	84.9	82.6	82.6	81.4	82.6
17.5°	90.6	81.4	76.8	74.6	74.6	73.4	73.4
20°	82.6	74.6	70.0	66.5	66.5	65.4	66.5
22.5°	75.7	67.7	61.9	59.6	58.5	57.3	58.5
25°	68.8	60.8	55.0	51.6	50.5	50.5	49.3
27.5°	63.1	55.0	48.2	44.7	43.6	43.6	42.4
30°	57.3	48.2	41.3	37.8	36.7	36.7	36.7
32.5°	51.6	41.3	35.5	32.1	31.0	31.0	31.0
35°	45.9	35.5	29.8	26.4	25.2	25.2	25.2
37.5°	39.0	29.8	22.9	20.6	19.5	18.3	18.3
40°	33.3	22.9	17.2	14.9	12.6	12.6	12.6
42.5°	27.5	18.3	12.6	9.2	8.0	6.9	8.0
45°	22.9	13.8	8.0	4.6	3.4	3.4	3.4
47.5°	18.3	9.2	3.4	1.1	1.1	1.1	1.1
50°	13.8	5.7	1.1	0.0	0.0	1.1	1.1
52.5°	10.3	3.4	0.0	0.0	0.0	0.0	0.0
55°	5.7	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)