

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: P165041

Luminaire Tested: **VST-F04-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165041
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-F04-LED-E-U-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5463.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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



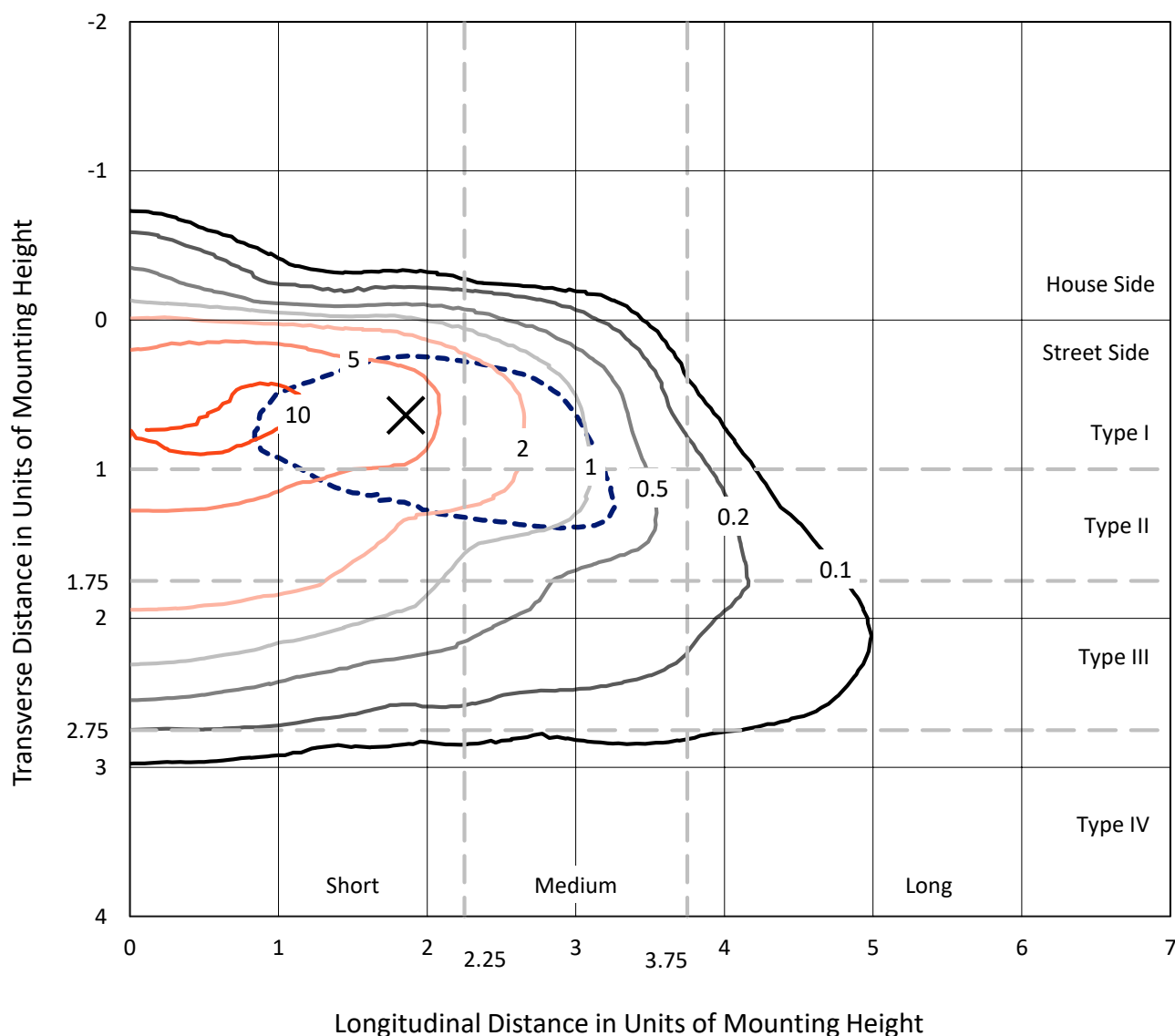
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

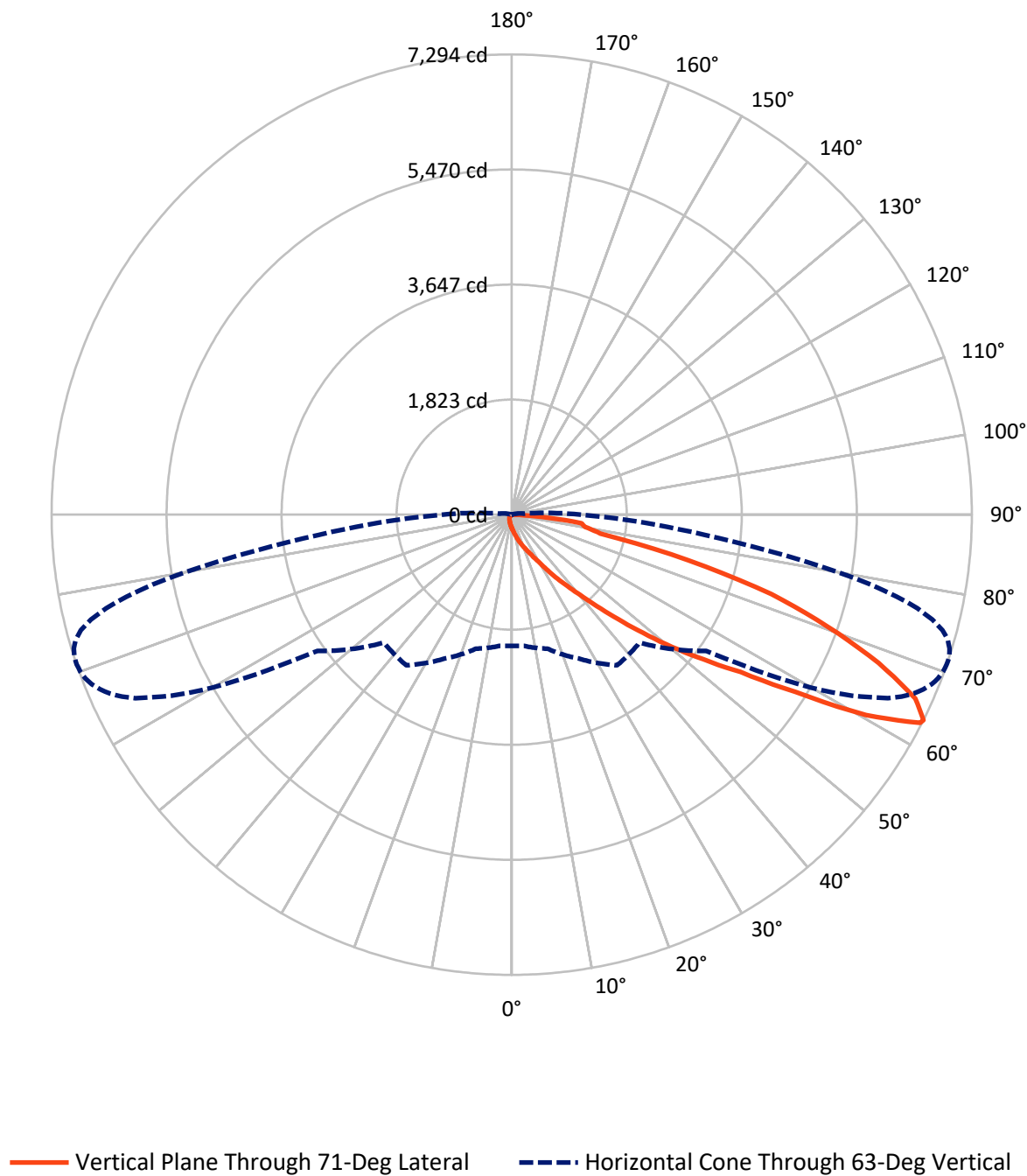


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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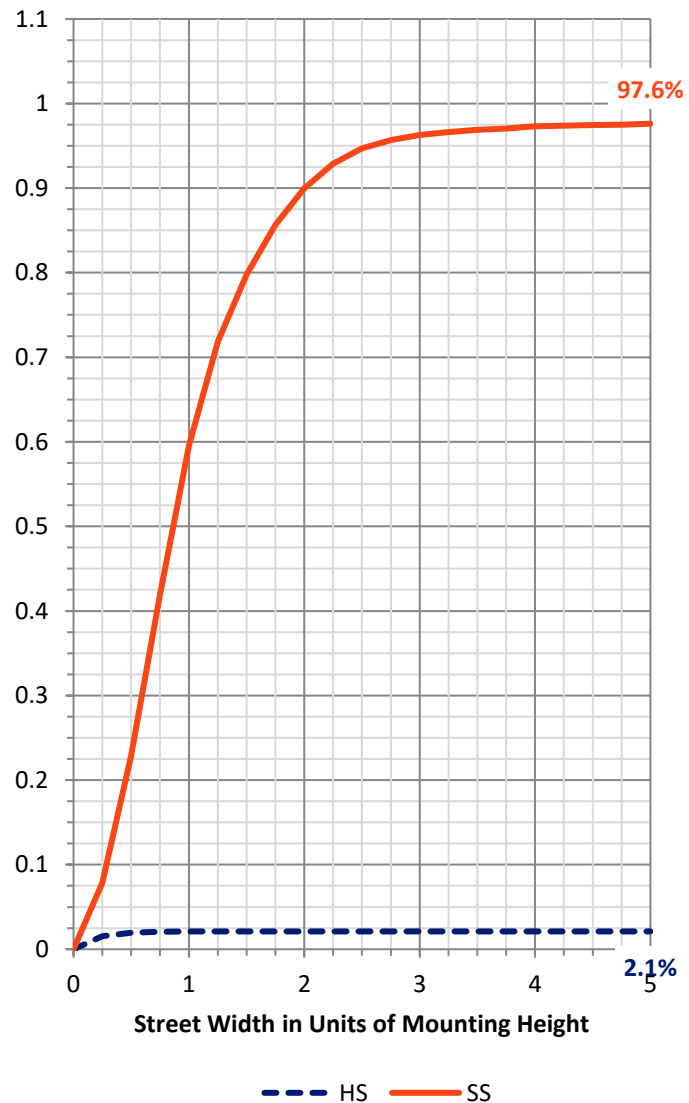
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	116.0	0.0	116.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5347.9	0.0	5347.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	5463.9	0.0	5463.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.4
10°-20°	89.8	1.6
20°-30°	182.5	3.3
30°-40°	445.8	8.2
40°-50°	997.1	18.2
50°-60°	1402.0	25.7
60°-70°	1648.6	30.2
70°-80°	595.3	10.9
80°-90°	79.6	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°	5463.9	100.0
0°-180°	5463.9	100.0

Coefficient of Utilization



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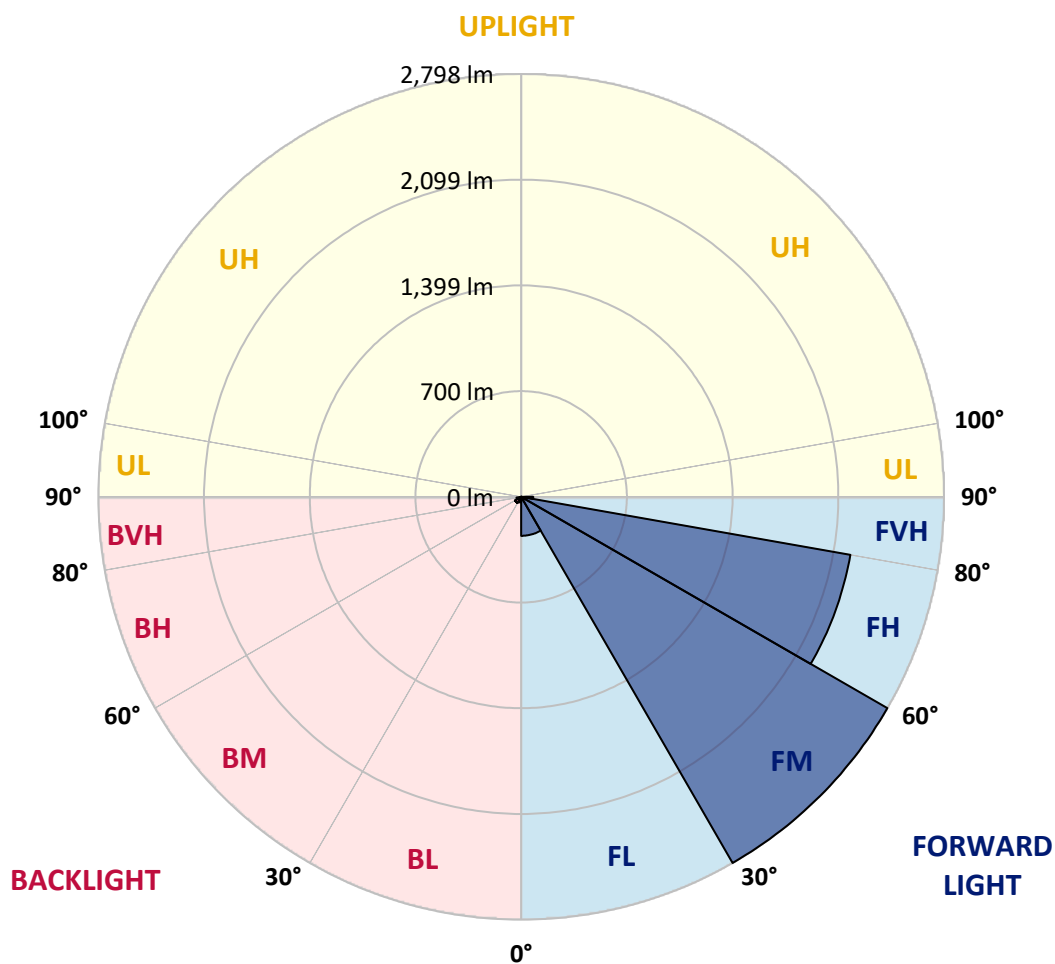
CATALOG NUMBER: VST-F04-LED-E-U-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.2	4.7			
FM	(30°-60°)	2798.2	51.2			
FH	(60°-80°)	2212.1	40.5			G2/5000
FVH	(80°-90°)	79.4	1.5			G1/100
BL	(0°-30°)	37.3	0.7	B0/110		
BM	(30°-60°)	46.7	0.9	B0/220		
BH	(60°-80°)	31.8	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°	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6
2.5°	274.2	277.1	275.1	270.2	264.2	256.3	249.3	249.3	248.3	245.3	246.3
5°	359.6	360.6	356.6	344.7	333.7	316.9	298.0	296.0	294.0	291.0	290.1
7.5°	443.0	447.0	443.0	430.1	408.2	382.4	352.6	349.7	343.7	343.7	339.7
10°	528.5	528.5	524.5	509.6	489.7	452.9	415.2	410.2	403.3	401.3	395.3
12.5°	589.0	589.0	587.0	579.1	563.2	530.4	484.7	479.8	470.9	467.8	460.9
15°	612.8	612.8	613.9	620.8	621.8	606.9	559.2	555.2	546.3	538.4	535.4
17.5°	627.7	626.8	626.8	636.7	654.6	664.5	633.7	629.7	619.8	615.9	605.9
20°	660.6	658.6	652.6	652.6	669.5	704.2	704.2	703.3	692.3	689.3	684.4
22.5°	709.2	707.2	689.3	674.4	682.4	726.1	766.8	764.9	760.9	756.9	753.9
25°	788.7	781.7	750.9	707.2	700.3	747.0	814.5	819.5	822.5	822.5	824.4
27.5°	908.9	900.0	845.3	763.9	733.1	780.7	867.2	877.1	886.0	888.0	897.0
30°	1075.7	1059.9	981.4	862.2	791.7	830.4	944.7	955.6	968.5	972.5	986.3
32.5°	1349.9	1341.0	1265.5	1086.7	935.7	927.8	1052.9	1066.8	1083.7	1090.6	1107.5
35°	1767.1	1769.1	1707.5	1546.6	1338.0	1228.7	1246.6	1258.5	1264.5	1285.3	1294.3
37.5°	2050.2	2055.1	2069.1	2005.5	1856.5	1745.2	1605.2	1618.1	1587.3	1590.3	1591.3
40°	2205.2	2221.0	2302.5	2364.1	2352.2	2287.6	2175.4	2182.3	2124.7	2111.8	2049.2
42.5°	2308.4	2329.3	2459.5	2650.1	2747.5	2806.1	2780.3	2777.3	2732.6	2715.7	2663.0
45°	2373.0	2391.9	2555.8	2836.9	3061.4	3232.2	3302.7	3310.7	3272.9	3256.0	3212.4
47.5°	2370.0	2391.9	2567.7	2906.4	3237.2	3510.4	3709.0	3718.9	3741.8	3726.9	3729.9
50°	2238.9	2259.8	2436.6	2788.2	3185.5	3637.5	4001.1	4032.8	4069.6	4094.4	4106.4
52.5°	2080.0	2094.9	2251.8	2585.6	2965.0	3584.8	4173.9	4228.5	4283.2	4329.9	4362.6
55°	2021.4	2038.3	2161.4	2438.6	2788.2	3364.3	4254.3	4334.8	4412.3	4488.8	4551.3
57.5°	2052.2	2068.1	2156.5	2369.0	2683.0	3131.9	4277.2	4402.4	4529.5	4653.6	4776.8
60°	2165.4	2182.3	2257.8	2433.6	2655.1	2997.8	4187.8	4395.4	4607.0	4823.5	5027.1
62.5°	2120.7	2127.6	2238.9	2546.9	2853.8	2883.6	3863.0	4153.1	4475.9	4809.6	5138.4
63°	2078.0	2086.0	2199.2	2516.0	2914.4	2866.7	3762.7	4068.6	4409.3	4768.9	5126.5
65°	1884.3	1885.3	1971.7	2222.0	2846.8	2896.5	3315.7	3607.7	3999.1	4430.2	4882.1
67.5°	1406.5	1399.6	1483.0	1673.7	2235.0	2897.5	2845.8	3009.8	3281.9	3664.3	4069.6
70°	498.7	487.7	622.8	887.0	1392.6	2370.0	2445.5	2456.5	2532.0	2738.6	2992.9
72.5°	161.9	164.9	198.6	324.8	641.7	1595.3	2214.1	2180.3	2160.5	2159.4	2193.2
75°	64.5	65.6	79.4	144.0	288.1	768.8	1939.0	1957.8	1964.8	1974.7	1985.7
77.5°	30.8	33.8	44.7	80.5	143.0	380.4	1387.6	1547.6	1638.9	1709.5	1752.2
80°	10.9	12.9	24.9	49.6	66.5	174.8	731.1	882.1	1016.1	1189.0	1338.0
82.5°	0.0	0.0	4.9	34.7	36.7	70.5	300.0	351.6	402.3	521.5	669.5
85°	0.0	0.0	0.0	10.0	10.9	11.9	101.3	122.2	137.1	159.9	184.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	6.0	14.9	22.9
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°	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6
2.5°	244.4	243.4	243.4	241.4	240.4	238.4	237.4	234.4	233.4	233.4	233.4
5°	289.1	285.1	283.1	278.1	275.1	274.2	269.2	267.2	264.2	265.2	260.2
7.5°	338.7	331.8	328.8	321.8	319.9	312.9	310.9	305.9	303.0	297.0	295.0
10°	393.3	384.4	379.5	368.5	365.5	360.6	354.6	348.6	343.7	337.7	334.8
12.5°	456.0	448.0	444.0	429.1	422.2	415.2	407.3	399.3	391.4	386.4	379.5
15°	529.4	516.5	512.5	498.7	486.7	477.8	466.9	456.9	450.9	441.1	434.1
17.5°	601.9	589.0	586.1	565.2	552.3	546.3	534.4	521.5	510.5	500.7	489.7
20°	674.4	665.5	657.5	637.7	623.8	613.9	597.9	585.0	576.1	562.2	548.3
22.5°	747.0	738.0	732.1	711.2	698.3	684.4	670.5	656.6	643.7	626.8	610.9
25°	821.5	815.5	812.5	793.7	781.7	768.8	754.9	739.0	723.1	704.2	687.4
27.5°	898.9	900.9	895.0	891.0	878.1	869.1	847.3	836.4	824.4	801.6	780.7
30°	997.3	1003.2	1001.2	1004.3	996.3	990.3	973.4	959.6	945.6	923.8	900.0
32.5°	1121.5	1129.4	1133.3	1144.3	1140.3	1138.3	1133.3	1113.5	1103.5	1065.8	1055.9
35°	1313.2	1309.2	1326.1	1335.0	1331.0	1329.1	1323.1	1312.2	1300.2	1273.4	1248.6
37.5°	1562.5	1566.4	1572.4	1554.6	1542.6	1541.6	1523.7	1512.8	1495.9	1466.1	1436.3
40°	2019.4	1994.6	1966.8	1891.3	1858.5	1839.6	1787.0	1772.1	1743.2	1702.5	1671.8
42.5°	2613.4	2588.6	2505.1	2379.0	2311.4	2218.1	2175.4	2122.7	2082.0	2015.5	1979.7
45°	3203.4	3131.9	3122.0	2975.0	2891.5	2768.4	2691.9	2603.4	2511.1	2423.7	2360.1
47.5°	3701.1	3685.2	3636.5	3547.1	3469.6	3366.3	3268.0	3131.9	3036.5	2912.4	2798.2
50°	4099.4	4098.4	4080.5	4028.9	3964.3	3880.9	3794.5	3679.2	3571.0	3419.0	3296.8
52.5°	4397.4	4413.3	4419.2	4403.3	4378.5	4305.0	4261.3	4164.9	4073.6	3944.4	3812.3
55°	4615.9	4674.5	4704.3	4738.1	4731.2	4705.3	4703.4	4640.7	4599.1	4496.7	4403.3
57.5°	4886.1	4982.4	5074.8	5238.7	5244.7	5302.3	5332.1	5361.9	5369.8	5329.1	5298.3
60°	5229.8	5426.5	5601.3	5944.0	6033.4	6174.4	6265.8	6365.2	6449.5	6456.5	6454.5
62.5°	5472.1	5775.1	6057.2	6565.8	6739.6	6902.5	7024.7	7121.1	7179.6	7239.2	7267.0
63°	5479.1	5810.9	6110.8	6635.3	6818.1	6973.1	7089.3	7178.7	7240.3	7276.0	7293.9
65°	5311.3	5713.5	6071.1	6593.6	6765.4	6921.4	6982.0	7040.6	7070.4	7084.3	7031.6
67.5°	4501.7	4895.0	5312.2	5896.3	6043.3	6230.0	6279.7	6309.5	6323.4	6320.5	6275.8
70°	3366.3	3696.1	4160.0	4827.5	5022.2	5205.0	5318.2	5366.9	5382.7	5377.8	5311.3
72.5°	2350.2	2543.9	2926.3	3669.3	3934.5	4168.9	4309.0	4381.5	4396.4	4366.6	4305.0
75°	1973.7	1983.7	2070.0	2476.3	2724.6	2975.0	3132.9	3178.6	3148.8	3058.4	2901.5
77.5°	1762.1	1784.0	1784.0	1844.6	1893.2	1962.8	1977.7	1866.4	1737.3	1570.4	1435.4
80°	1478.1	1554.6	1608.2	1652.9	1657.8	1643.9	1607.2	1544.6	1445.3	1318.1	1177.1
82.5°	898.0	1049.0	1110.5	1341.0	1454.2	1530.7	1524.8	1441.3	1365.8	1233.7	1113.5
85°	226.5	244.4	265.2	344.7	386.4	471.8	525.4	550.3	559.2	513.6	464.9
87.5°	21.8	14.9	24.9	18.9	26.8	19.8	26.8	24.9	30.8	32.8	35.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6
2.5°	231.4	230.4	229.5	228.5	227.5	226.5	224.5	224.5	222.5	221.5	220.5
5°	257.3	255.3	254.3	252.3	249.3	247.3	244.4	240.4	237.4	236.4	234.4
7.5°	290.1	285.1	283.1	280.1	276.1	270.2	266.2	263.2	258.3	255.3	249.3
10°	326.8	321.8	315.9	309.9	303.9	297.0	292.0	288.1	280.1	276.1	269.2
12.5°	373.5	364.6	357.6	349.7	341.7	333.7	327.8	315.9	308.9	300.0	294.0
15°	421.2	413.2	405.3	395.3	383.4	370.5	364.6	353.6	344.7	330.8	322.8
17.5°	478.8	463.9	452.0	440.0	429.1	417.2	405.3	388.4	375.5	363.5	347.7
20°	535.4	517.5	504.6	488.7	472.8	454.0	440.0	428.1	410.2	394.4	377.5
22.5°	596.0	578.1	557.2	541.4	519.5	504.6	485.8	465.8	448.0	427.1	406.3
25°	669.5	650.6	626.8	605.9	581.1	560.2	537.4	514.5	492.7	468.9	442.0
27.5°	759.9	740.0	714.2	689.3	656.6	630.8	608.9	578.1	550.3	520.5	489.7
30°	874.1	852.3	820.5	784.7	751.9	723.1	692.3	651.6	620.8	585.0	545.3
32.5°	1023.1	997.3	954.6	920.8	880.1	842.3	799.6	758.9	715.2	668.5	622.8
35°	1210.9	1187.0	1137.3	1087.7	1043.0	998.3	944.7	898.0	836.4	779.7	721.1
37.5°	1405.6	1362.8	1317.1	1263.5	1207.8	1154.2	1088.6	1024.1	953.6	892.0	818.5
40°	1628.0	1576.4	1538.6	1481.0	1402.5	1326.1	1265.5	1185.0	1096.6	1014.2	927.8
42.5°	1933.0	1875.4	1807.8	1720.4	1663.8	1574.4	1495.9	1400.6	1284.3	1192.0	1087.7
45°	2285.6	2207.2	2141.6	2057.1	1988.6	1877.4	1786.0	1658.8	1542.6	1421.4	1294.3
47.5°	2687.9	2590.5	2495.2	2411.8	2302.5	2193.2	2077.0	1941.9	1792.9	1659.8	1508.8
50°	3149.8	3011.7	2879.6	2772.3	2622.3	2496.2	2370.0	2218.1	2053.2	1900.2	1728.3
52.5°	3663.3	3503.4	3328.6	3163.7	2989.9	2828.0	2676.0	2501.1	2317.4	2130.7	1939.0
55°	4283.2	4162.9	3957.4	3747.8	3515.3	3298.8	3103.1	2886.6	2663.0	2417.7	2216.1
57.5°	5253.6	5195.0	5023.2	4813.6	4510.6	4247.4	3915.6	3650.4	3326.6	2988.9	2728.6
60°	6568.8	6496.2	6399.9	6230.0	5989.7	5632.1	5266.6	4854.3	4361.6	3893.8	3449.8
62.5°	7270.1	7244.2	7165.8	7048.5	6824.1	6541.9	6173.5	5720.5	5164.3	4596.0	4029.9
63°	7290.9	7258.1	7190.6	7071.4	6873.7	6600.6	6239.0	5798.9	5254.6	4675.5	4097.4
65°	7008.8	6995.9	6927.3	6797.2	6662.2	6453.5	6173.5	5795.0	5338.0	4790.8	4215.6
67.5°	6216.2	6177.4	6072.1	6032.4	5938.0	5793.0	5579.4	5319.2	4992.4	4562.3	4065.6
70°	5257.6	5200.0	5067.9	4997.3	4882.1	4790.8	4660.6	4474.9	4273.2	3973.2	3602.8
72.5°	4241.4	4122.2	4001.1	3817.3	3656.4	3493.5	3349.4	3218.3	2996.8	2875.6	2594.5
75°	2754.4	2537.9	2330.3	2052.2	1801.9	1580.4	1364.8	1255.5	1028.1	935.7	803.6
77.5°	1307.2	1186.0	1023.1	897.0	736.0	601.0	490.7	368.5	289.1	226.5	172.8
80°	1054.9	952.6	854.2	740.0	618.8	493.7	378.4	283.1	200.6	139.0	98.3
82.5°	940.7	829.4	708.2	629.7	547.3	448.0	367.5	300.0	221.5	161.9	110.3
85°	365.5	307.9	237.4	193.7	151.0	124.1	112.3	77.5	60.6	47.7	36.7
87.5°	31.8	25.8	20.9	13.9	14.9	8.0	8.9	6.0	4.9	4.9	4.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6	209.6
2.5°	219.5	218.5	217.5	215.5	215.5	213.6	212.6	211.6	206.6	195.7	186.7
5°	230.4	228.5	226.5	223.5	221.5	218.5	216.5	213.6	202.6	181.8	163.9
7.5°	246.3	242.4	239.4	233.4	230.4	226.5	223.5	218.5	200.6	168.8	144.0
10°	265.2	258.3	253.3	246.3	240.4	235.4	230.4	223.5	198.6	155.0	126.1
12.5°	288.1	280.1	270.2	262.2	254.3	247.3	240.4	231.4	195.7	143.0	112.3
15°	310.9	299.0	292.0	281.1	270.2	260.2	250.3	242.4	196.7	130.1	100.3
17.5°	336.7	324.8	309.9	298.0	286.1	273.2	261.2	245.3	191.7	120.2	91.4
20°	361.6	344.7	330.8	315.9	299.0	283.1	268.2	254.3	187.7	110.3	83.4
22.5°	388.4	368.5	350.6	331.8	310.9	293.0	275.1	257.3	180.8	101.3	76.5
25°	421.2	398.3	372.5	349.7	327.8	305.9	283.1	261.2	173.8	93.4	71.5
27.5°	460.9	431.1	405.3	376.5	345.7	317.9	293.0	269.2	166.9	87.4	66.5
30°	511.6	476.8	440.0	403.3	370.5	338.7	303.9	274.2	159.9	81.4	61.6
32.5°	579.1	535.4	490.7	448.0	404.3	363.5	326.8	288.1	155.9	76.5	56.6
35°	668.5	611.9	557.2	503.6	450.9	401.3	353.6	309.9	155.9	70.5	50.7
37.5°	752.9	687.4	617.9	551.3	488.7	431.1	374.5	321.8	148.0	65.6	45.7
40°	844.3	765.8	684.4	605.9	530.4	458.9	394.4	333.7	141.0	59.6	40.7
42.5°	984.4	885.1	778.8	687.4	597.0	508.6	428.1	356.6	132.1	53.6	35.8
45°	1168.1	1042.0	916.9	805.6	690.4	582.1	486.7	398.3	130.1	48.7	30.8
47.5°	1364.8	1215.8	1068.8	926.7	791.7	665.5	551.3	445.0	130.1	43.7	26.8
50°	1560.5	1373.8	1216.8	1051.9	900.0	750.9	614.8	493.7	131.1	39.8	21.8
52.5°	1737.3	1537.7	1361.8	1171.1	1003.2	830.4	682.4	541.4	129.1	34.7	17.9
55°	1982.6	1748.2	1544.6	1334.0	1137.3	942.7	774.8	612.8	130.1	30.8	14.9
57.5°	2434.6	2159.4	1914.1	1638.0	1411.5	1160.2	956.5	759.9	142.1	25.8	10.9
60°	3083.2	2725.7	2381.0	2044.2	1756.2	1457.2	1192.9	961.6	166.9	20.9	8.0
62.5°	3519.3	3051.4	2640.2	2268.7	1934.0	1621.1	1333.0	1069.8	183.7	16.9	4.9
63°	3564.0	3080.3	2667.0	2283.6	1941.9	1629.0	1339.0	1077.7	184.8	15.9	4.9
65°	3648.4	3129.9	2681.9	2286.6	1934.0	1618.1	1335.0	1076.8	186.7	12.9	4.0
67.5°	3552.1	3053.4	2595.5	2201.2	1864.4	1553.5	1285.3	1037.0	185.7	8.9	3.0
70°	3176.6	2763.4	2361.1	1993.6	1687.6	1406.5	1170.1	945.6	170.8	6.0	2.0
72.5°	2332.3	2051.2	1739.3	1474.1	1271.4	1055.9	900.9	710.2	132.1	4.0	1.0
75°	691.3	629.7	529.4	466.9	412.2	340.7	303.0	236.4	67.6	2.0	0.0
77.5°	138.1	125.2	112.3	102.3	96.3	82.5	78.5	64.5	27.8	1.0	0.0
80°	72.5	59.6	50.7	44.7	38.7	31.8	26.8	21.8	4.9	0.0	0.0
82.5°	69.5	46.7	33.8	27.8	23.8	18.9	14.9	10.9	3.0	0.0	0.0
85°	25.8	19.8	14.9	11.9	10.0	8.9	6.9	6.0	0.0	0.0	0.0
87.5°	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	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°	209.6	209.6	209.6	209.6	209.6	209.6	209.6
2.5°	177.8	169.9	165.9	160.9	160.9	159.9	161.9
5°	148.0	137.1	129.1	123.2	124.1	121.2	122.2
7.5°	125.2	114.2	107.2	103.3	102.3	101.3	101.3
10°	108.3	98.3	92.3	89.4	88.4	88.4	88.4
12.5°	96.3	86.4	81.4	79.4	79.4	78.5	78.5
15°	86.4	78.5	73.5	71.5	71.5	70.5	71.5
17.5°	78.5	70.5	66.5	64.5	64.5	63.6	63.6
20°	71.5	64.5	60.6	57.6	57.6	56.6	57.6
22.5°	65.6	58.6	53.6	51.6	50.7	49.6	50.7
25°	59.6	52.7	47.7	44.7	43.7	43.7	42.7
27.5°	54.6	47.7	41.7	38.7	37.8	37.8	36.7
30°	49.6	41.7	35.8	32.8	31.8	31.8	31.8
32.5°	44.7	35.8	30.8	27.8	26.8	26.8	26.8
35°	39.8	30.8	25.8	22.9	21.8	21.8	21.8
37.5°	33.8	25.8	19.8	17.9	16.9	15.9	15.9
40°	28.8	19.8	14.9	12.9	10.9	10.9	10.9
42.5°	23.8	15.9	10.9	8.0	6.9	6.0	6.9
45°	19.8	11.9	6.9	4.0	3.0	3.0	3.0
47.5°	15.9	8.0	3.0	1.0	1.0	1.0	1.0
50°	11.9	4.9	1.0	0.0	0.0	1.0	1.0
52.5°	8.9	3.0	0.0	0.0	0.0	0.0	0.0
55°	4.9	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	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)