

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: P159534

Luminaire Tested: **VST-F03-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159534
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-F03-LED-E-U-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6918 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 78.3
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



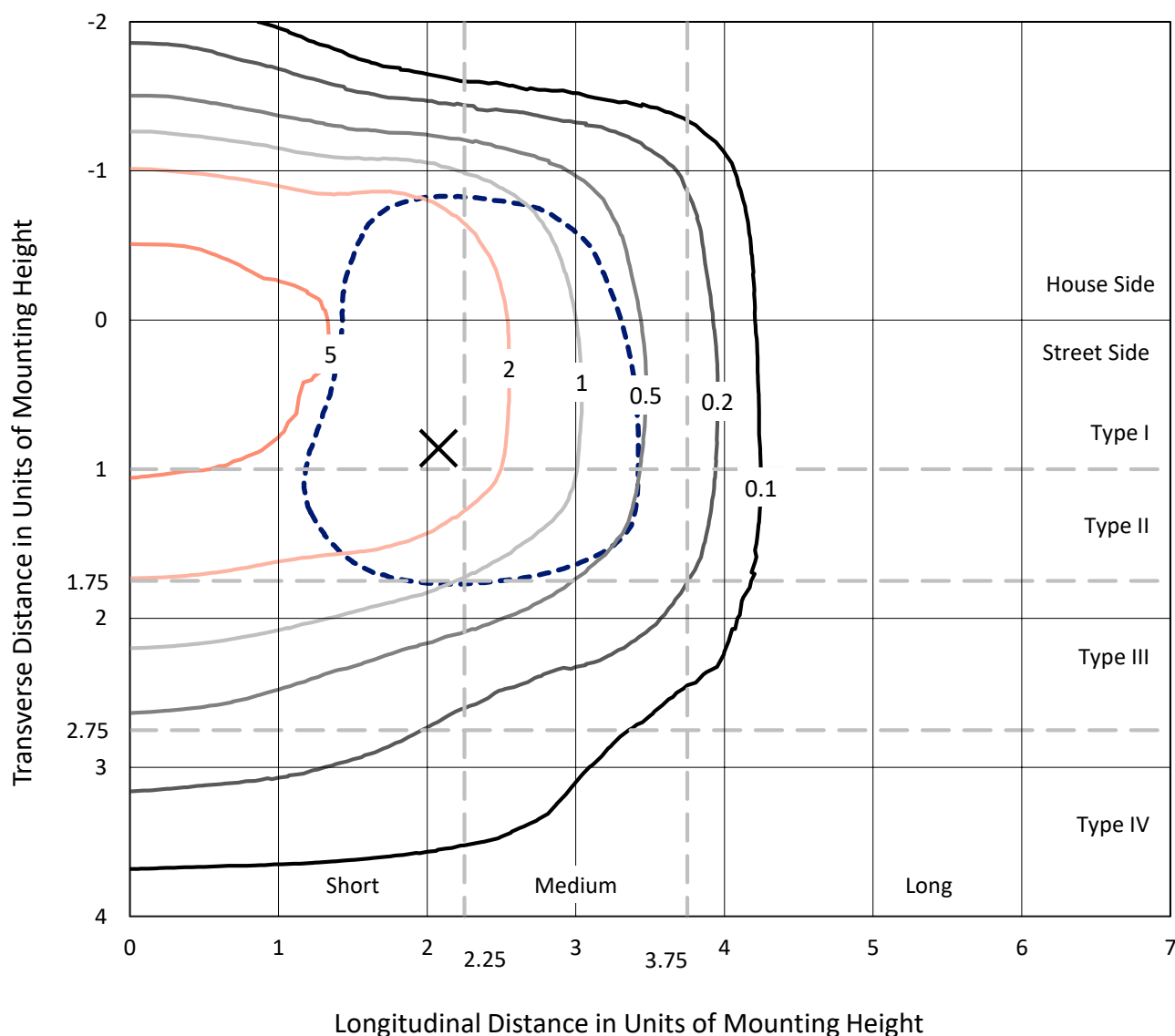
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

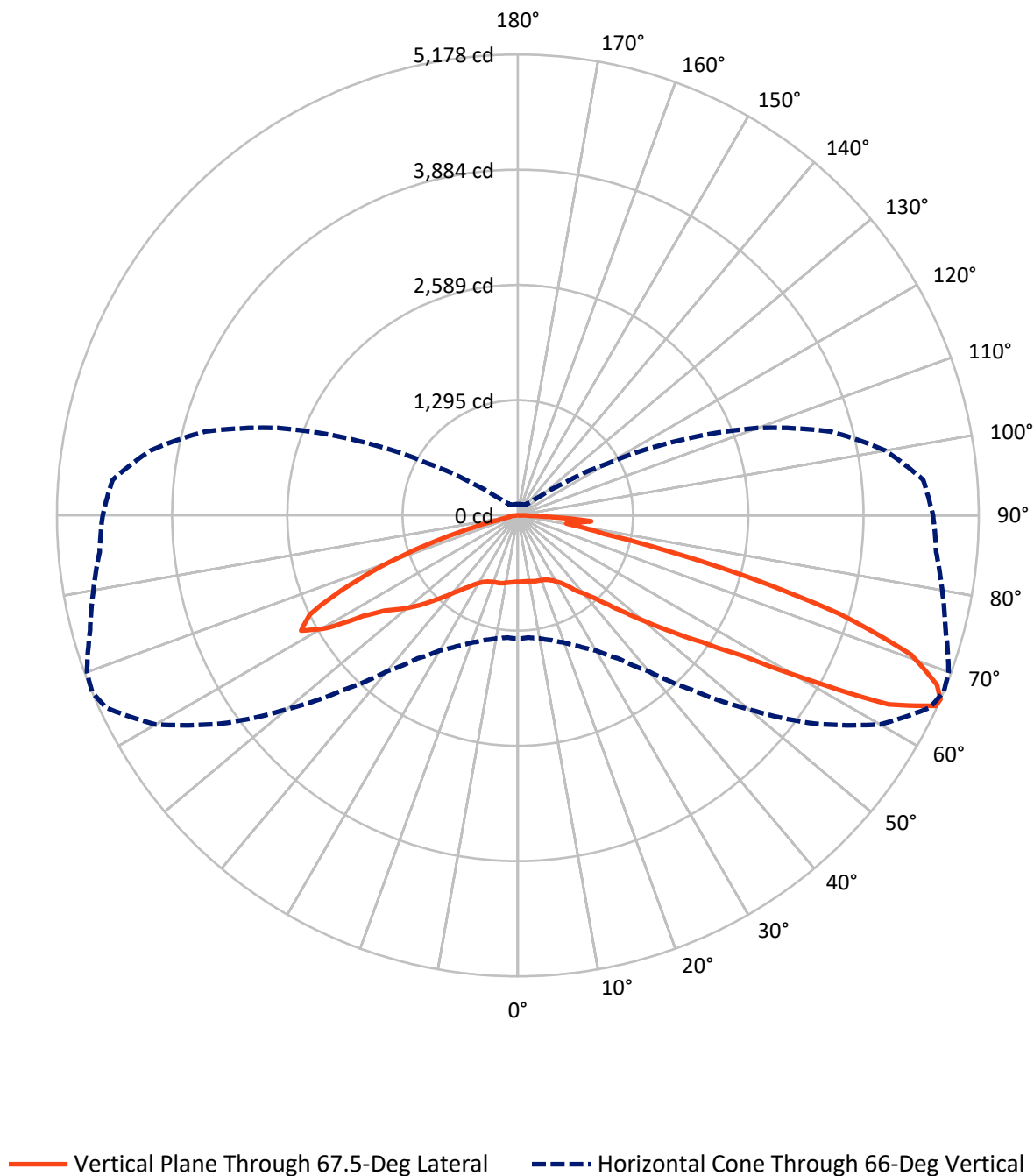


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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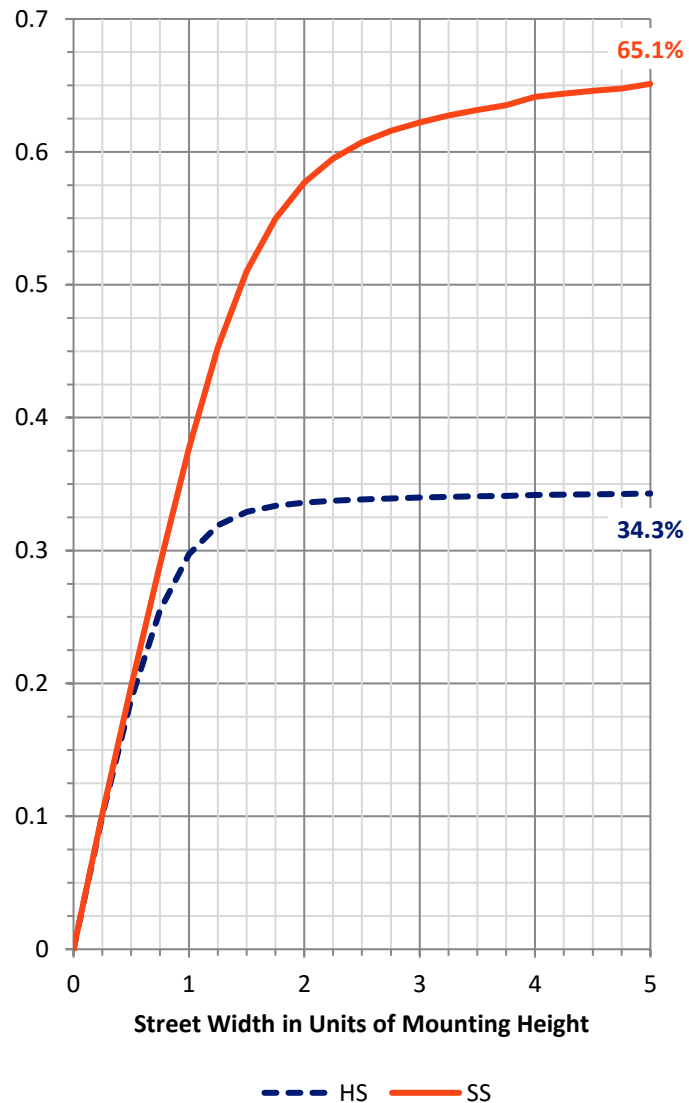
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.9	0.0	2393.9
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	4524.0	0.0	4524.0
	% Fixture	65.4	0.0	65.4
Total	Lumens	6918.0	0.0	6918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.0
10°-20°	212.1	3.1
20°-30°	364.6	5.3
30°-40°	589.3	8.5
40°-50°	976.6	14.1
50°-60°	1532.6	22.2
60°-70°	2095.4	30.3
70°-80°	921.5	13.3
80°-90°	154.2	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°	6918.0	100.0
0°-180°	6918.0	100.0

Coefficient of Utilization



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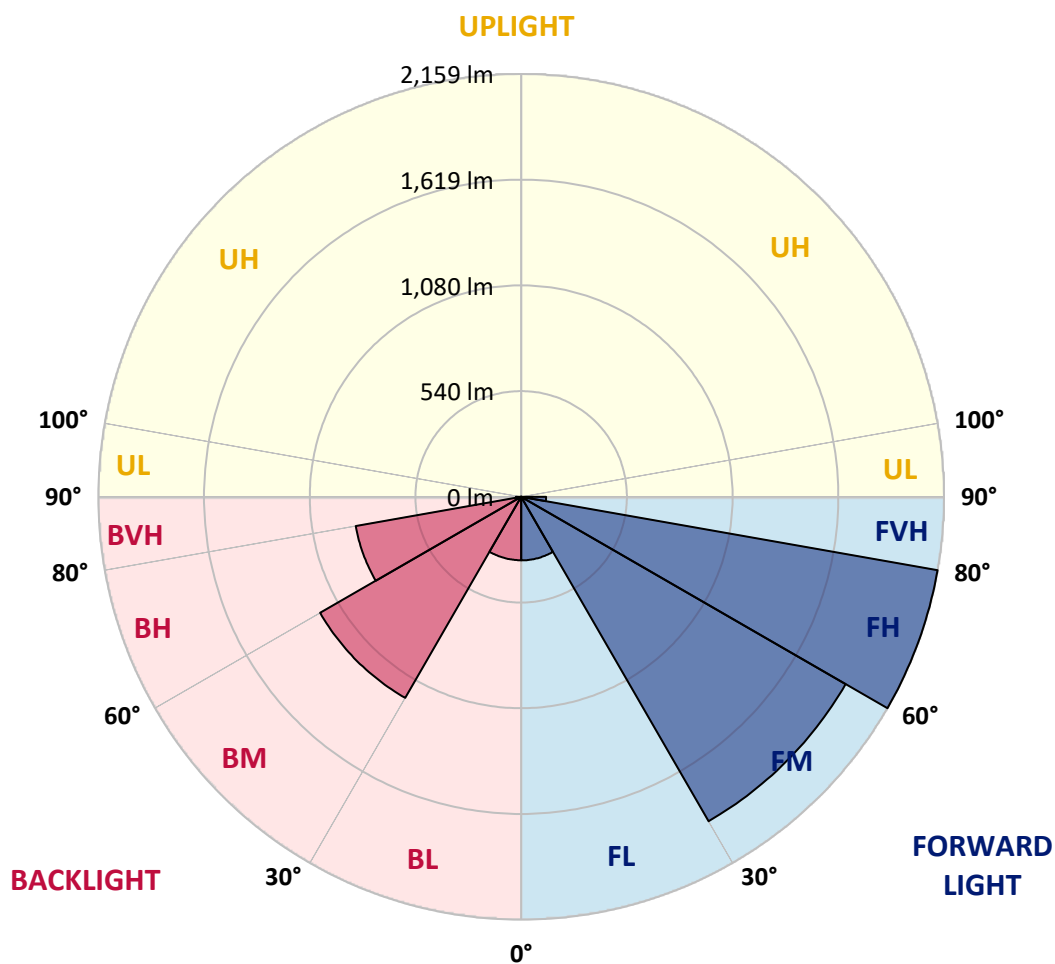
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.5	4.7			
FM	(30°-60°)	1913.0	27.7			
FH	(60°-80°)	2159.3	31.2			G2/5000
FVH	(80°-90°)	127.3	1.8			G2/225
BL	(0°-30°)	323.8	4.7	B1/500		
BM	(30°-60°)	1185.5	17.1	B2/2500		
BH	(60°-80°)	857.6	12.4	B2/1000		G2/1000
BVH	(80°-90°)	27.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5
2.5°	745.1	745.1	745.6	745.1	745.1	744.7	746.5	746.5	746.5	746.0	747.4
5°	743.3	743.3	743.8	743.8	744.2	743.8	745.1	745.6	745.6	745.6	746.9
7.5°	738.8	740.1	739.2	739.7	740.1	741.5	743.3	744.2	745.1	746.5	746.9
10°	729.2	731.5	731.1	732.4	732.9	737.0	738.3	740.1	743.3	745.1	746.5
12.5°	716.2	717.5	718.0	719.8	721.6	726.5	730.1	733.3	737.9	742.4	746.9
15°	705.7	706.6	706.6	708.5	711.2	715.7	720.2	725.6	732.4	740.1	747.4
17.5°	708.9	711.2	709.4	708.9	709.8	712.5	716.6	721.1	729.2	737.9	746.5
20°	729.7	730.1	729.2	727.0	725.2	725.6	725.6	726.5	731.5	738.3	745.1
22.5°	746.9	748.7	748.3	748.7	748.3	750.1	749.2	747.4	745.6	746.0	749.2
25°	761.8	763.6	763.6	765.0	767.3	770.9	773.6	773.2	770.5	766.8	765.5
27.5°	786.2	786.2	786.2	787.6	790.8	795.3	799.9	802.6	804.8	801.2	793.5
30°	824.7	825.2	823.8	824.3	826.5	832.4	837.8	841.9	846.4	846.0	836.0
32.5°	866.8	868.6	868.1	869.9	873.1	878.6	884.5	890.8	896.6	900.2	893.9
35°	921.1	922.9	923.3	926.0	929.7	937.8	946.0	954.1	960.4	963.2	961.8
37.5°	1010.2	1010.6	1008.8	1004.8	1006.1	1012.4	1022.0	1035.1	1039.1	1041.8	1048.2
40°	1143.7	1142.3	1135.1	1131.4	1129.2	1131.9	1130.1	1140.5	1150.0	1150.4	1150.0
42.5°	1305.6	1301.5	1294.7	1293.8	1292.9	1292.0	1287.1	1287.5	1296.1	1298.4	1295.6
45°	1466.6	1461.7	1456.7	1461.2	1455.8	1469.8	1473.9	1484.8	1486.1	1490.6	1483.9
47.5°	1598.8	1599.2	1599.2	1605.5	1616.4	1643.1	1667.1	1687.9	1695.6	1706.5	1707.8
50°	1698.7	1701.5	1710.1	1730.4	1753.5	1798.3	1838.5	1876.1	1910.0	1922.7	1956.2
52.5°	1757.1	1764.4	1782.4	1816.4	1857.5	1915.4	1978.8	2042.6	2101.4	2151.1	2191.0
55°	1746.7	1752.1	1783.8	1836.7	1901.0	1978.8	2067.5	2159.8	2251.6	2335.7	2400.8
57.5°	1679.8	1683.4	1715.0	1774.7	1854.8	1959.3	2084.6	2221.7	2350.7	2486.3	2597.6
60°	1592.0	1597.4	1626.8	1673.9	1757.6	1868.8	2014.1	2200.0	2405.8	2619.4	2827.5
62.5°	1535.9	1534.5	1560.3	1602.4	1665.2	1766.2	1906.0	2126.3	2411.3	2772.3	3183.5
65°	1442.7	1438.6	1465.3	1513.3	1581.6	1679.3	1811.8	2023.6	2354.3	2830.2	3413.3
66°	1384.8	1376.6	1403.3	1451.8	1520.0	1624.1	1751.2	1960.3	2285.0	2773.6	3388.9
67.5°	1283.5	1279.4	1292.0	1330.0	1380.7	1478.5	1611.0	1821.4	2121.3	2603.5	3209.8
70°	1043.2	1034.2	1044.1	1061.3	1080.8	1104.8	1186.2	1353.1	1606.9	2074.3	2585.9
72.5°	710.7	706.2	724.7	751.0	803.0	827.5	859.6	886.7	976.3	1307.4	1803.7
75°	540.6	543.3	566.9	610.3	677.2	749.6	820.2	846.0	816.1	790.3	1023.8
77.5°	303.1	319.0	347.5	402.7	473.6	575.9	698.9	834.7	902.5	885.8	828.4
80°	124.9	122.6	136.6	166.9	191.3	275.0	420.7	590.8	781.7	902.5	883.5
82.5°	34.9	35.8	46.1	59.3	76.4	97.3	152.0	244.3	398.1	619.3	810.7
85°	10.9	10.9	14.9	22.1	26.2	30.3	38.5	63.4	108.1	215.8	437.5
87.5°	2.3	2.3	3.2	6.4	6.8	6.8	8.6	11.8	10.4	9.5	42.5
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°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5
2.5°	746.0	745.1	745.6	746.0	745.6	745.6	745.1	744.7	745.1	745.1	746.5
5°	745.6	745.1	745.6	745.6	745.6	746.0	746.0	746.0	747.4	747.4	749.6
7.5°	746.5	746.5	747.4	747.4	747.4	747.4	747.8	748.7	751.0	750.5	754.6
10°	748.3	749.2	751.4	751.9	751.9	753.2	754.1	755.9	758.2	759.1	762.7
12.5°	750.5	755.0	759.1	760.0	761.4	763.6	765.0	765.9	770.0	771.4	775.9
15°	753.2	759.6	764.5	766.4	768.2	770.9	772.7	774.1	777.7	779.5	784.9
17.5°	753.7	760.9	766.8	769.5	771.8	775.0	777.7	780.4	784.4	787.1	792.6
20°	753.2	762.7	771.8	775.4	777.7	783.5	787.6	791.2	796.2	799.0	804.4
22.5°	758.2	769.1	781.3	785.8	789.4	797.6	803.0	808.9	815.2	817.0	821.1
25°	770.0	781.3	796.7	803.0	809.3	820.2	827.9	836.5	842.8	843.7	845.1
27.5°	789.9	800.3	818.8	828.4	838.7	854.1	865.4	874.0	883.1	883.1	882.2
30°	830.2	832.4	851.9	864.1	879.5	902.1	918.8	928.3	935.1	935.1	927.4
32.5°	882.2	879.5	897.1	910.2	931.5	963.2	985.8	993.0	1000.3	998.0	984.8
35°	957.3	949.6	959.5	979.4	1003.4	1046.8	1070.3	1086.7	1091.2	1084.9	1064.0
37.5°	1051.8	1050.9	1055.9	1078.1	1104.8	1160.8	1184.8	1195.3	1191.6	1180.3	1143.7
40°	1151.8	1149.1	1145.9	1160.8	1190.7	1258.1	1300.6	1306.1	1301.1	1284.4	1238.2
42.5°	1285.3	1285.3	1270.3	1274.4	1299.3	1374.8	1425.1	1442.2	1442.7	1418.3	1356.7
45°	1468.9	1467.1	1440.9	1434.5	1453.6	1527.7	1592.5	1601.9	1601.9	1569.8	1502.4
47.5°	1689.7	1687.4	1661.6	1639.5	1643.1	1723.2	1777.0	1791.5	1778.8	1754.8	1674.8
50°	1938.5	1934.5	1908.2	1887.4	1878.4	1959.3	2005.0	2011.8	1993.3	1964.8	1877.9
52.5°	2191.0	2203.1	2187.8	2176.5	2179.6	2232.1	2279.2	2247.1	2237.6	2206.8	2119.5
55°	2453.8	2491.3	2525.3	2515.3	2527.1	2578.2	2587.3	2544.7	2527.6	2505.4	2408.1
57.5°	2718.4	2827.9	2939.2	2970.4	2999.4	3072.7	3062.3	2992.6	3005.7	3038.8	2929.3
60°	3088.1	3404.3	3686.6	3738.6	3828.6	3891.1	3905.1	3891.5	3952.6	3935.4	3838.6
62.5°	3655.8	4182.8	4575.5	4673.3	4763.8	4760.6	4713.1	4664.2	4724.4	4724.4	4471.5
65°	4061.2	4659.2	5079.5	5160.5	5156.9	5047.9	4935.7	4837.9	4829.3	4762.4	4392.8
66°	4080.2	4695.9	5107.6	5178.1	5151.0	4975.4	4841.1	4717.1	4664.2	4571.0	4192.4
67.5°	3909.2	4592.3	5016.2	5077.7	5006.2	4754.7	4569.7	4403.6	4326.7	4169.8	3813.2
70°	3206.6	3946.7	4563.3	4689.1	4608.1	4289.6	4036.3	3811.9	3664.9	3438.2	3181.3
72.5°	2340.7	2913.9	3581.6	3786.1	3773.5	3480.3	3276.2	3070.9	2877.7	2671.4	2483.6
75°	1521.4	1895.5	2267.9	2387.3	2329.9	2160.2	2014.1	1894.2	1711.0	1567.6	1532.7
77.5°	868.6	1061.3	1003.9	988.9	917.0	740.1	492.2	345.2	311.7	389.0	426.6
80°	826.5	749.2	613.4	553.3	508.5	346.6	181.9	128.0	112.2	114.9	123.5
82.5°	931.9	971.3	794.4	663.7	577.7	421.6	230.3	107.2	78.2	92.8	104.0
85°	698.5	983.5	974.9	826.1	677.7	485.9	272.3	81.9	47.0	65.2	85.1
87.5°	141.6	233.0	224.4	197.2	167.8	117.2	45.7	25.8	23.5	32.1	48.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5
2.5°	747.4	747.4	748.3	749.6	750.1	750.1	751.0	750.1	751.9	752.3	752.8
5°	751.4	752.8	753.7	755.9	757.3	758.2	759.6	758.6	760.5	760.9	761.8
7.5°	755.9	758.2	760.0	760.9	762.7	762.7	763.2	762.3	761.8	760.5	760.0
10°	764.1	765.5	767.7	766.8	765.9	762.7	760.0	755.9	753.7	749.6	747.4
12.5°	777.2	778.1	778.1	774.1	768.2	760.9	754.1	747.4	741.9	737.4	734.7
15°	786.2	788.1	785.8	779.9	771.4	761.4	752.3	743.3	736.0	730.1	726.5
17.5°	793.1	792.6	788.5	780.4	772.3	763.6	755.5	746.0	737.0	728.3	722.9
20°	803.5	799.0	791.7	783.1	774.5	767.3	760.9	751.9	742.4	730.6	722.5
22.5°	817.5	809.3	799.0	789.9	781.7	775.0	767.7	760.0	750.1	737.0	725.6
25°	837.4	823.4	811.6	802.6	795.3	787.6	779.5	769.5	759.6	746.0	732.4
27.5°	867.7	846.9	832.0	823.8	817.0	806.6	796.2	784.4	771.8	757.7	742.4
30°	904.3	879.5	862.3	855.0	846.9	835.1	823.8	807.5	789.9	773.2	754.1
32.5°	947.3	922.0	904.8	899.3	886.3	872.7	856.9	835.1	812.0	787.1	764.5
35°	1012.4	980.3	964.5	951.8	933.7	917.5	890.8	862.3	829.3	796.2	768.2
37.5°	1079.4	1046.8	1030.6	1012.9	989.4	959.5	923.8	883.1	839.2	798.5	764.1
40°	1169.0	1133.7	1112.9	1085.8	1047.7	1001.2	948.2	892.6	839.2	788.5	746.9
42.5°	1273.5	1240.9	1208.8	1164.0	1102.9	1035.1	960.9	889.4	824.7	766.4	722.5
45°	1418.3	1362.6	1311.5	1239.5	1150.4	1055.0	962.2	874.5	799.9	735.1	686.3
47.5°	1581.1	1509.2	1418.7	1306.1	1184.4	1062.7	949.1	846.4	760.5	690.4	637.0
50°	1768.9	1658.5	1519.6	1359.0	1201.6	1052.3	917.9	799.4	706.2	625.7	568.7
52.5°	1983.8	1815.5	1611.0	1396.6	1198.9	1020.6	866.3	737.4	633.4	547.9	491.8
55°	2222.2	1986.5	1698.3	1420.5	1174.4	959.1	785.3	650.1	542.9	458.7	409.4
57.5°	2642.5	2286.4	1864.8	1452.7	1123.3	865.9	682.7	539.7	442.9	371.4	324.4
60°	3423.3	2810.8	2180.1	1528.2	1046.4	749.2	553.3	423.4	342.5	290.5	255.6
62.5°	3906.4	3179.9	2333.9	1517.3	921.5	589.5	410.8	314.0	250.2	215.8	194.1
65°	3792.0	3035.1	2146.1	1303.4	717.1	418.0	271.9	205.4	171.9	154.3	143.9
66°	3636.4	2873.2	1987.4	1167.2	624.8	349.3	224.4	172.4	148.0	134.8	129.4
67.5°	3310.2	2577.3	1714.1	934.7	468.2	260.1	165.6	135.2	120.4	113.6	109.9
70°	2770.5	2076.5	1212.4	551.9	253.8	141.1	105.8	94.1	90.5	88.2	86.9
72.5°	2142.1	1503.3	708.5	271.4	128.0	91.4	80.5	75.5	74.2	74.2	74.6
75°	1349.5	864.1	317.1	130.7	86.9	73.7	68.8	66.5	67.0	67.4	67.0
77.5°	448.3	298.1	132.1	92.8	75.5	67.0	62.9	62.0	62.9	63.4	63.4
80°	128.9	112.6	95.5	81.9	69.2	62.5	58.8	58.4	60.6	61.1	60.2
82.5°	99.1	92.8	86.4	79.1	66.5	58.8	57.5	57.9	59.3	58.4	54.3
85°	91.0	90.0	64.7	64.3	57.9	56.1	54.7	55.2	53.8	48.8	44.3
87.5°	51.1	47.5	36.7	37.1	43.0	44.3	36.7	38.9	36.2	31.7	29.0
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):

	160°	165°	170°	175°	180°
0°	746.5	746.5	746.5	746.5	746.5
2.5°	753.7	753.2	753.2	754.6	752.8
5°	762.3	761.8	761.8	763.2	761.8
7.5°	758.2	756.8	755.9	755.5	755.5
10°	744.7	743.3	740.6	739.7	738.8
12.5°	730.6	729.2	726.1	726.1	725.2
15°	722.0	720.2	718.0	716.6	715.7
17.5°	717.5	714.8	712.1	710.7	709.8
20°	715.7	712.1	708.9	706.6	706.6
22.5°	716.2	711.6	708.0	705.3	704.4
25°	720.7	713.9	709.4	706.6	705.7
27.5°	727.0	718.9	713.0	709.4	708.0
30°	735.6	724.3	716.2	711.6	709.8
32.5°	741.5	725.6	715.3	708.9	706.6
35°	741.0	720.7	708.0	699.8	697.1
37.5°	732.9	708.9	692.2	682.2	677.7
40°	714.8	687.2	669.5	660.1	654.6
42.5°	688.6	658.7	642.8	632.5	626.6
45°	647.4	618.0	598.5	590.4	582.7
47.5°	590.4	560.5	543.8	532.0	527.0
50°	523.4	493.6	475.9	466.4	461.9
52.5°	450.1	421.6	409.0	399.9	393.6
55°	374.2	347.9	342.5	332.5	326.6
57.5°	302.6	287.3	282.3	272.3	267.4
60°	236.6	231.6	226.2	219.8	217.1
62.5°	183.2	178.7	177.4	173.3	172.8
65°	139.8	140.2	139.3	138.4	137.5
66°	127.1	126.7	127.1	126.2	125.8
67.5°	108.1	109.9	111.3	110.8	110.8
70°	87.8	89.1	91.0	90.5	90.5
72.5°	75.1	77.3	78.2	77.8	77.8
75°	67.9	70.1	70.1	69.2	68.8
77.5°	63.4	64.3	63.4	62.5	61.5
80°	58.8	57.9	56.5	55.2	54.3
82.5°	51.1	48.8	47.5	45.2	45.2
85°	41.2	39.4	36.2	33.9	31.7
87.5°	26.7	25.8	23.5	17.6	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)