

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: P158433

Luminaire Tested: **VST-F03-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158433
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-F03-LED-E-U-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.9 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - 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



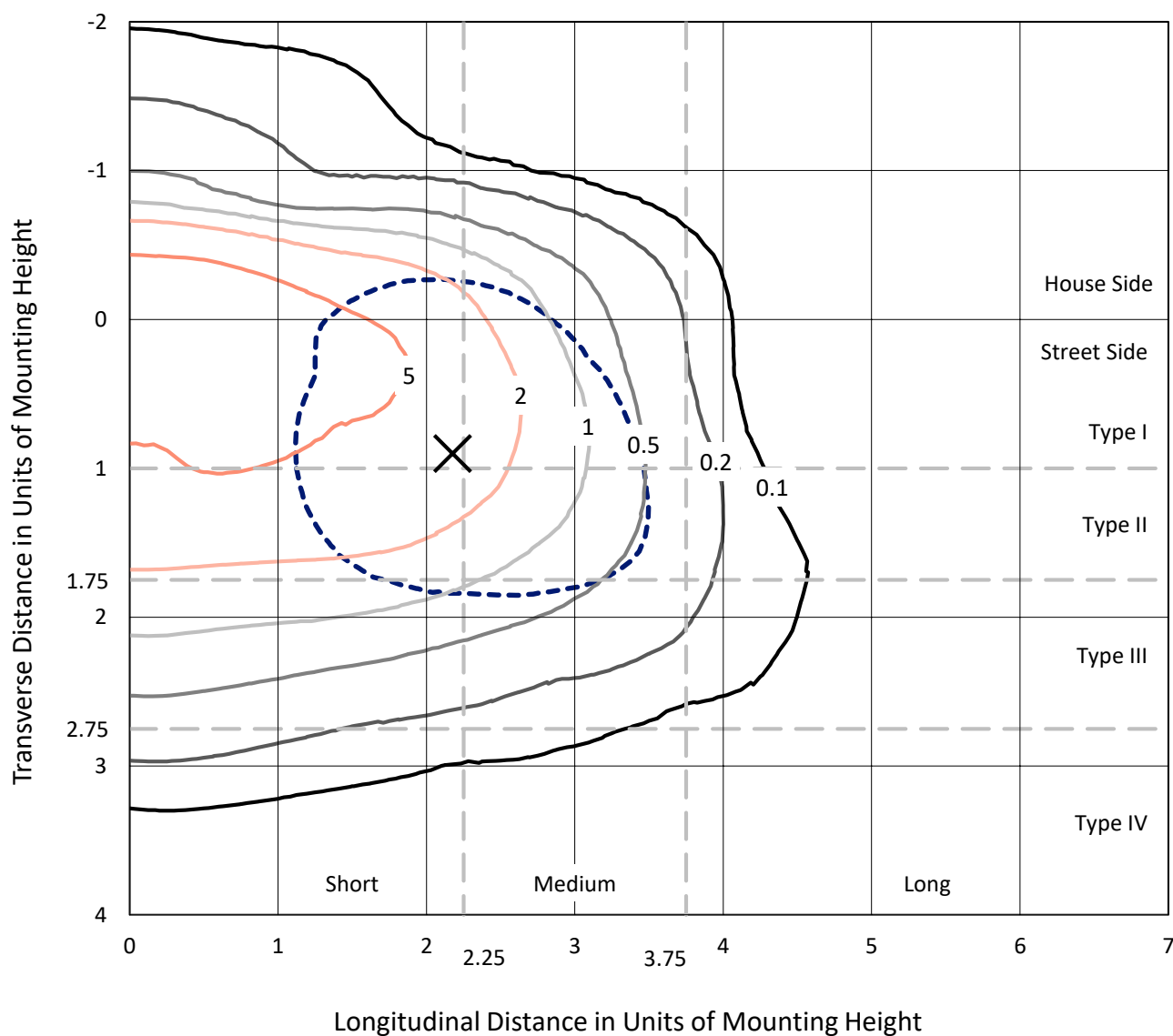
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

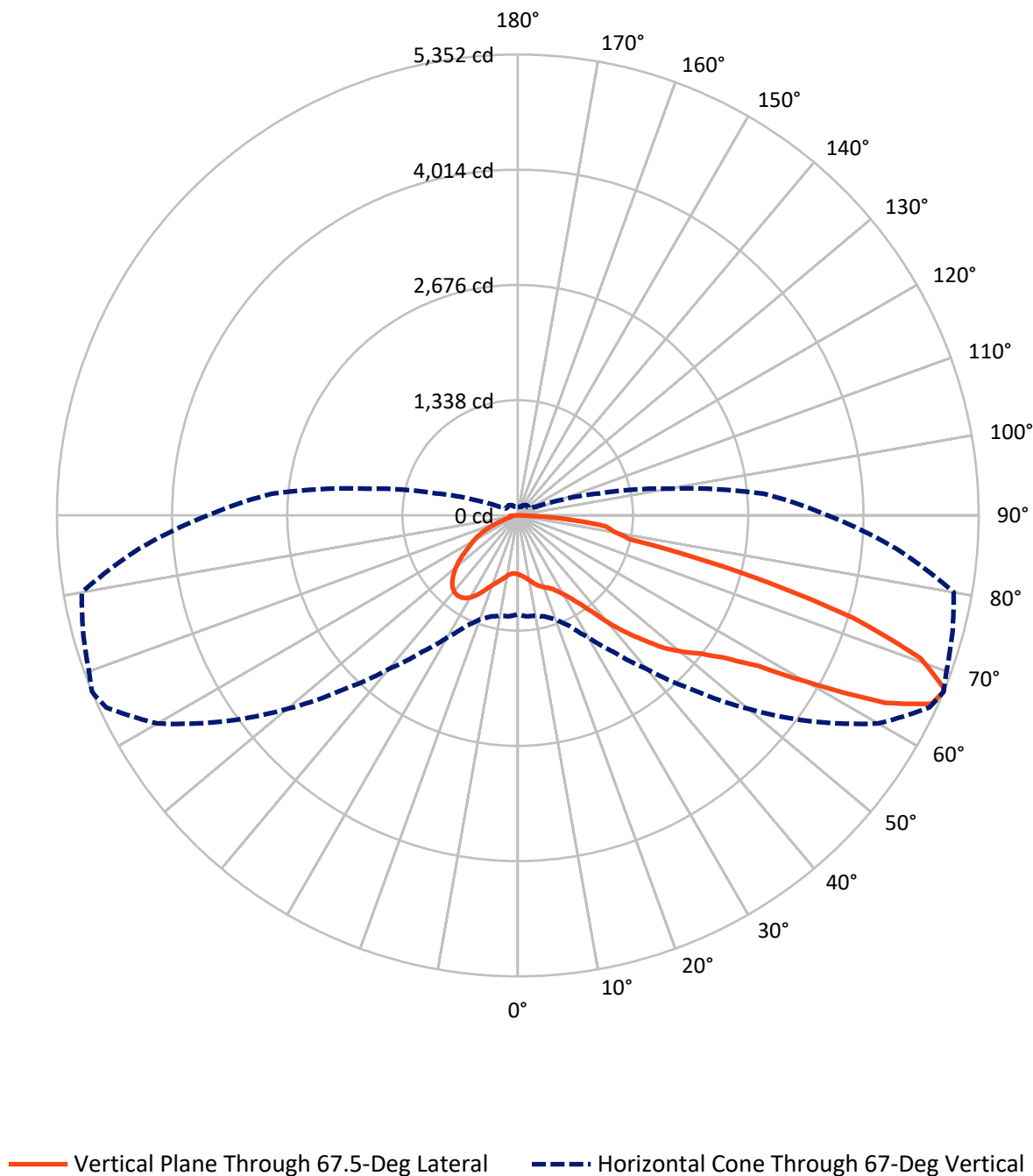


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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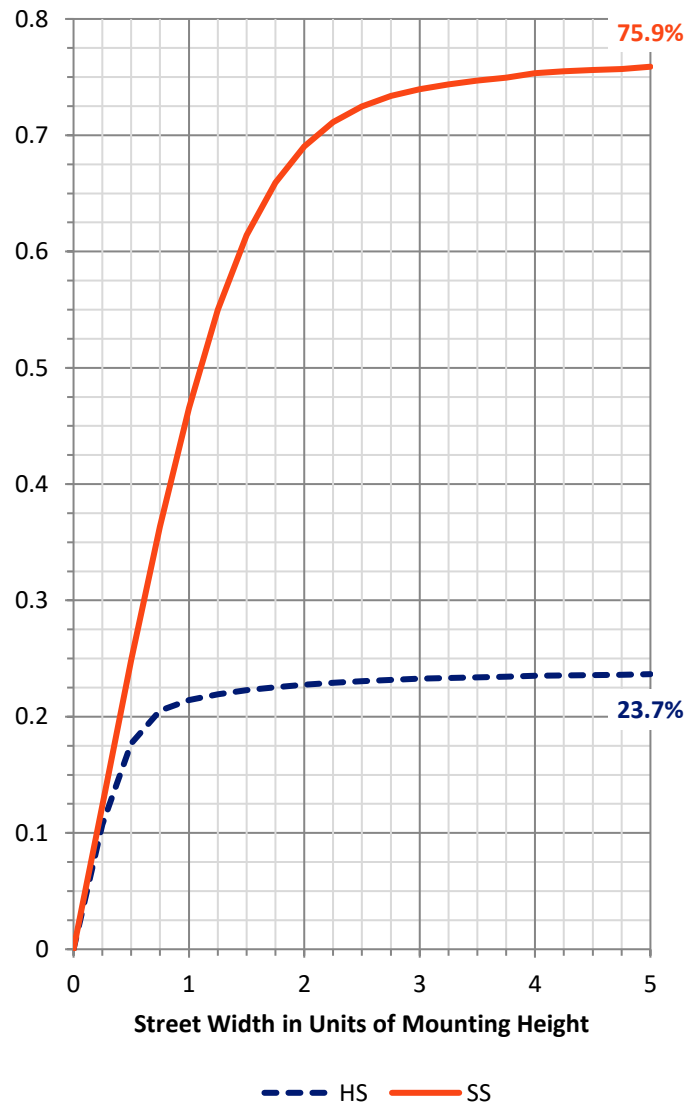
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.8	0.0	1512.8
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	4793.1	0.0	4793.1
	% Fixture	76.0	0.0	76.0
Total	Lumens	6305.9	0.0	6305.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	231.4	3.7
20°-30°	413.2	6.6
30°-40°	605.6	9.6
40°-50°	935.7	14.8
50°-60°	1362.5	21.6
60°-70°	1774.9	28.1
70°-80°	794.5	12.6
80°-90°	120.1	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°	6305.9	100.0
0°-180°	6305.9	100.0

Coefficient of Utilization



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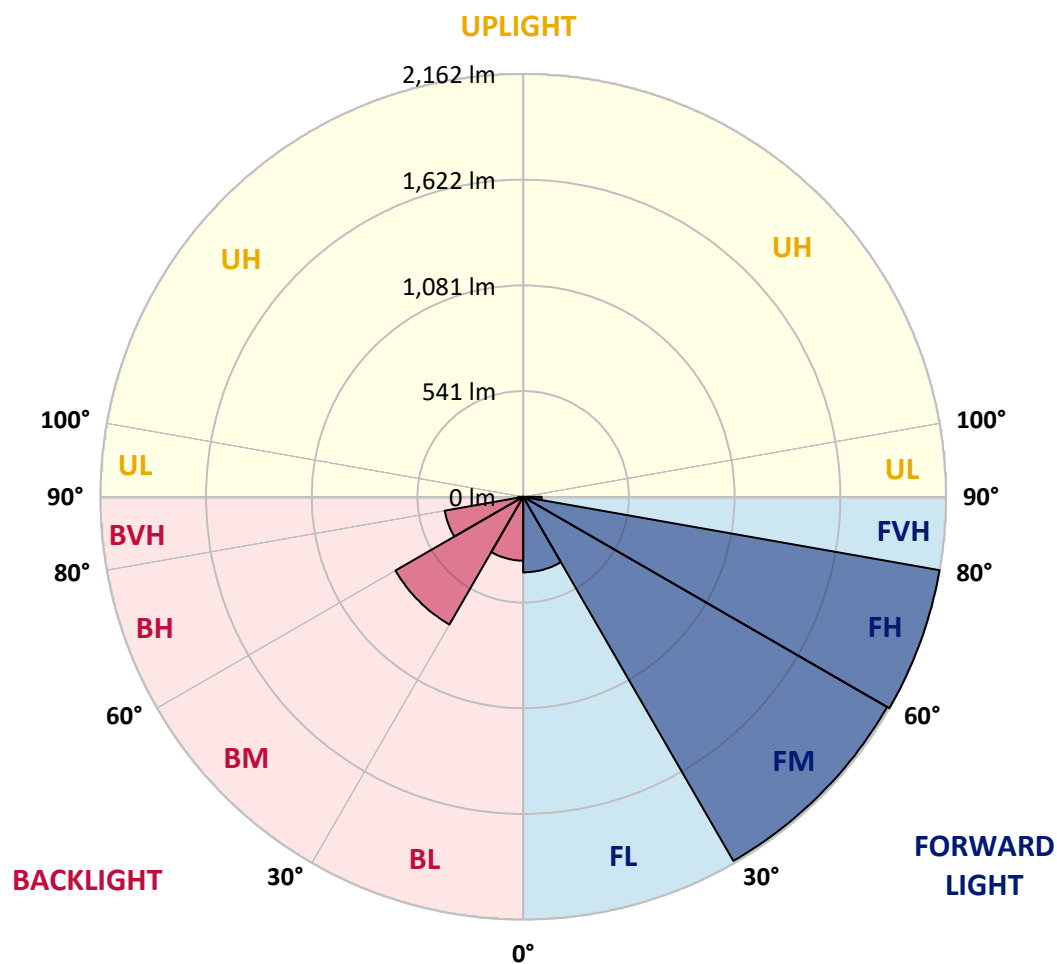
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.4	6.1			
FM	(30°-60°)	2150.0	34.1			
FH	(60°-80°)	2162.4	34.3			G2/5000
FVH	(80°-90°)	94.3	1.5			G1/100
BL	(0°-30°)	326.2	5.2	B1/500		
BM	(30°-60°)	753.8	12.0	B1/1000		
BH	(60°-80°)	407.0	6.5	B1/500		G1/500
BVH	(80°-90°)	25.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5
2.5°	710.3	711.9	712.3	711.9	712.3	710.7	710.3	707.8	709.0	705.7	704.8
5°	748.7	749.9	750.8	747.5	748.3	746.6	744.5	742.0	738.7	734.1	731.2
7.5°	786.4	788.4	788.0	786.8	783.8	782.2	778.0	774.2	768.4	762.9	759.2
10°	836.9	836.5	836.5	829.4	825.2	821.5	813.9	808.1	802.2	794.3	790.1
12.5°	895.4	892.5	891.2	886.3	877.4	870.8	859.9	848.6	838.2	829.8	823.1
15°	951.9	951.9	948.5	940.6	932.2	923.5	908.0	891.7	874.6	861.2	854.5
17.5°	1003.3	998.7	995.8	985.3	976.6	962.3	945.2	927.7	906.3	887.5	874.6
20°	1040.9	1037.2	1030.9	1018.0	1002.9	986.2	966.1	945.6	922.6	902.2	887.5
22.5°	1062.7	1058.0	1048.4	1031.3	1010.8	987.4	964.0	944.8	923.9	908.4	896.3
25°	1073.9	1069.3	1056.4	1033.8	1006.2	975.3	948.5	929.7	917.6	913.9	912.2
27.5°	1073.5	1069.7	1056.0	1030.1	994.5	959.0	930.1	914.3	913.0	927.7	938.5
30°	1062.7	1060.1	1047.6	1021.7	984.5	947.3	920.5	912.2	925.1	956.0	982.8
32.5°	1051.8	1050.5	1041.8	1018.3	986.6	955.2	936.8	937.7	964.4	1012.1	1055.2
35°	1053.1	1054.7	1053.5	1040.9	1020.8	1004.6	995.8	1014.2	1056.0	1113.7	1171.4
37.5°	1063.9	1070.2	1078.1	1079.4	1079.8	1077.3	1095.7	1134.5	1195.6	1270.9	1361.2
40°	1087.7	1094.9	1117.9	1137.9	1163.8	1194.8	1232.0	1285.9	1361.6	1454.3	1565.2
42.5°	1161.7	1171.7	1200.2	1237.4	1285.1	1333.6	1389.2	1462.7	1555.6	1653.4	1769.6
45°	1258.3	1279.2	1310.6	1351.9	1423.4	1491.6	1563.5	1645.8	1744.5	1867.0	1984.0
47.5°	1378.7	1399.6	1445.2	1489.5	1573.9	1658.8	1737.4	1823.5	1930.5	2055.9	2185.5
50°	1484.0	1507.9	1548.4	1608.2	1706.0	1810.1	1897.1	1990.3	2080.2	2212.3	2343.1
52.5°	1566.8	1583.9	1622.8	1677.6	1786.7	1900.9	2010.8	2114.5	2221.1	2353.1	2474.4
55°	1577.3	1593.2	1631.2	1693.9	1804.7	1931.3	2058.0	2180.9	2331.8	2476.1	2636.6
57.5°	1532.1	1545.1	1583.5	1639.6	1747.4	1891.6	2051.8	2209.3	2402.5	2597.3	2793.4
60°	1468.1	1481.1	1511.2	1555.9	1653.4	1808.9	1995.7	2211.4	2468.1	2749.4	3037.9
62.5°	1397.9	1409.2	1433.5	1465.3	1550.9	1694.3	1908.4	2197.6	2521.6	2900.8	3345.6
65°	1279.6	1306.8	1317.2	1349.9	1435.6	1571.0	1788.8	2104.4	2499.9	2968.1	3538.7
67°	1148.8	1176.4	1181.8	1214.8	1283.4	1413.4	1634.9	1931.8	2327.6	2851.9	3496.1
67.5°	1107.0	1130.4	1138.7	1171.7	1236.5	1359.1	1569.3	1869.5	2275.0	2788.3	3444.7
70°	813.9	839.8	849.1	862.9	909.2	1011.2	1150.4	1410.9	1813.9	2275.4	2905.8
72.5°	435.6	456.5	465.3	485.8	509.6	565.2	671.8	858.7	1113.2	1522.5	2067.2
75°	294.7	303.1	309.4	323.6	348.2	392.5	439.4	505.0	658.9	859.1	1176.4
77.5°	168.1	171.8	172.7	175.1	194.8	237.0	313.9	425.2	545.1	622.4	752.5
80°	72.7	80.3	86.1	82.4	81.1	89.9	112.4	167.6	328.6	521.7	619.1
82.5°	39.3	42.7	47.6	48.1	50.6	53.5	58.1	69.0	97.0	195.7	426.8
85°	20.5	21.3	28.4	32.6	34.7	36.4	37.2	41.4	47.6	60.6	106.2
87.5°	2.9	4.2	5.0	6.7	7.5	7.9	9.2	11.7	13.8	16.7	28.4
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5
2.5°	701.0	700.2	697.7	696.1	694.4	692.7	690.6	688.9	686.0	683.9	681.4
5°	727.0	722.0	718.6	714.0	713.2	707.8	702.3	699.8	694.8	690.6	685.6
7.5°	753.3	747.5	742.0	738.2	736.2	728.6	723.2	716.9	711.1	705.7	699.8
10°	784.3	778.4	772.6	770.0	766.3	759.2	754.6	746.6	740.8	734.1	726.1
12.5°	816.4	812.3	808.1	804.7	803.0	799.7	793.0	786.4	778.4	771.7	762.5
15°	844.9	841.9	840.2	839.4	839.4	837.4	831.1	824.8	816.4	808.9	798.9
17.5°	864.9	863.7	864.9	866.2	867.8	866.2	864.9	857.8	852.4	843.2	833.2
20°	876.7	879.1	885.4	889.6	893.3	896.3	897.5	891.7	884.6	877.9	871.2
22.5°	889.2	896.3	907.1	913.4	919.7	930.1	932.6	928.4	923.0	918.8	911.8
25°	910.1	920.5	939.4	949.4	958.1	973.6	975.7	976.6	975.3	971.9	963.2
27.5°	942.7	963.2	988.3	1001.2	1010.8	1030.9	1038.8	1038.8	1035.5	1039.3	1039.3
30°	999.5	1026.7	1059.3	1066.9	1081.9	1099.4	1112.4	1114.1	1114.5	1122.4	1134.1
32.5°	1086.9	1112.8	1149.2	1157.6	1170.5	1187.2	1201.9	1200.2	1204.0	1221.1	1236.5
35°	1214.0	1240.3	1264.1	1275.4	1281.3	1296.4	1301.8	1311.0	1322.3	1343.6	1341.5
37.5°	1402.1	1425.5	1428.8	1436.0	1428.8	1431.8	1436.0	1446.8	1477.0	1496.2	1465.3
40°	1628.7	1667.6	1663.8	1655.5	1639.6	1618.3	1625.8	1642.5	1675.1	1658.3	1575.2
42.5°	1842.3	1882.4	1874.9	1865.3	1830.2	1822.3	1821.4	1835.2	1852.7	1805.1	1661.3
45°	2052.6	2093.6	2080.6	2075.2	2051.8	2034.6	2048.8	2049.7	2045.0	1943.0	1736.5
47.5°	2269.6	2307.2	2298.8	2303.4	2279.2	2267.9	2269.1	2263.3	2220.2	2060.1	1795.1
50°	2444.7	2495.3	2500.3	2489.9	2476.9	2459.8	2503.6	2487.8	2392.0	2173.8	1851.5
52.5°	2581.0	2649.1	2675.0	2668.4	2657.9	2660.0	2742.4	2760.3	2601.9	2317.2	1913.8
55°	2742.4	2849.8	2892.0	2917.1	2906.2	2948.0	3136.6	3145.7	2893.7	2504.5	1994.9
57.5°	2975.2	3129.1	3262.4	3297.9	3332.2	3468.1	3774.1	3680.9	3272.4	2787.9	2097.7
60°	3329.3	3666.2	3882.8	3996.5	4076.8	4266.5	4557.5	4321.3	3744.4	3125.3	2226.9
62.5°	3825.1	4317.5	4679.6	4793.7	4826.7	4935.8	5146.5	4694.6	4001.5	3276.6	2238.2
65°	4194.2	4784.9	5218.4	5276.9	5237.6	5239.7	5294.9	4675.0	3905.8	3144.5	2044.2
67°	4169.9	4831.3	5275.3	5352.2	5297.8	5226.4	5140.3	4408.7	3598.1	2867.8	1790.0
67.5°	4132.7	4786.6	5250.6	5331.7	5282.0	5200.4	5074.6	4305.4	3502.4	2781.7	1738.2
70°	3572.6	4221.8	4846.8	4960.9	4981.8	4907.4	4554.1	3630.3	2843.5	2262.8	1349.9
72.5°	2780.8	3359.0	3977.2	4076.3	4156.6	3942.1	3314.6	2507.4	2072.6	1630.8	977.4
75°	1836.1	2424.2	2736.1	2750.7	2648.3	2251.1	1619.5	1255.8	1155.9	958.6	604.9
77.5°	982.4	1425.5	1434.3	1328.1	1279.6	954.0	387.1	213.6	237.8	270.1	240.8
80°	732.8	908.0	1052.2	1131.2	1154.6	818.1	200.2	113.3	99.1	90.3	89.0
82.5°	660.9	877.1	983.2	1026.3	1015.4	673.0	112.4	76.1	63.1	68.6	78.2
85°	259.2	468.2	615.8	596.1	500.8	250.8	61.4	41.0	41.0	59.3	76.9
87.5°	53.1	96.1	130.4	124.6	112.0	48.5	30.1	24.7	25.1	48.1	72.7
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°	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5	683.5
2.5°	678.9	676.4	674.7	673.0	671.4	670.6	669.3	669.3	666.8	665.9	665.1
5°	681.8	677.6	674.7	671.0	668.0	665.5	662.2	661.3	658.4	656.3	655.5
7.5°	694.4	688.1	681.8	677.2	673.0	667.6	663.8	660.5	657.6	655.5	653.0
10°	718.2	711.5	702.7	694.4	688.9	680.6	674.7	668.9	665.5	663.0	659.6
12.5°	753.3	743.7	733.3	723.2	714.0	703.1	697.3	690.2	686.0	683.9	681.4
15°	789.2	778.8	765.8	756.2	745.8	737.4	732.0	725.7	722.4	719.9	718.2
17.5°	826.0	813.9	804.7	795.1	790.1	783.8	776.7	768.8	759.2	753.3	745.4
20°	863.7	854.5	849.1	843.6	837.8	829.0	814.7	798.5	780.5	763.3	747.1
22.5°	907.6	902.2	901.3	896.3	884.2	863.3	836.9	806.4	775.9	747.5	725.3
25°	969.4	969.4	965.3	944.8	916.3	878.7	834.4	790.5	749.9	711.1	681.8
27.5°	1047.2	1044.2	1023.8	981.5	930.5	872.0	812.7	757.1	705.2	662.6	625.0
30°	1132.9	1112.4	1068.5	1002.1	925.6	850.3	777.5	713.2	652.1	599.9	555.6
32.5°	1222.0	1172.2	1093.2	1002.1	908.0	817.7	733.7	654.7	584.8	526.3	473.6
35°	1302.6	1211.9	1099.0	985.7	873.7	769.6	672.2	582.7	499.1	436.0	378.3
37.5°	1375.8	1238.2	1092.8	954.0	824.0	701.9	587.8	489.1	394.6	333.6	284.3
40°	1423.4	1243.7	1066.9	904.2	752.9	610.3	484.1	373.7	298.9	243.3	210.3
42.5°	1453.1	1233.2	1025.0	836.1	657.2	495.4	363.3	268.0	212.3	181.4	168.9
45°	1469.8	1206.1	963.2	742.9	541.4	376.7	257.9	193.6	163.4	152.6	148.4
47.5°	1469.0	1162.1	885.8	635.0	413.5	262.5	182.7	150.9	142.6	139.2	138.4
50°	1460.2	1108.2	795.1	518.0	298.5	183.1	144.7	135.4	133.4	131.3	130.4
52.5°	1448.1	1041.4	694.8	403.8	211.9	146.3	131.3	128.8	127.1	125.0	124.1
55°	1425.5	959.0	586.1	303.9	166.0	132.1	126.7	125.8	123.7	120.8	119.2
57.5°	1397.9	875.4	482.0	237.4	146.8	128.8	125.8	124.6	121.7	118.3	115.0
60°	1387.9	806.4	400.5	200.2	142.1	130.0	127.9	126.2	122.0	117.1	113.3
62.5°	1325.2	728.6	341.9	185.6	144.7	135.4	134.6	132.1	125.8	120.0	114.1
65°	1163.0	616.2	289.7	175.6	149.6	144.7	145.5	141.7	135.4	127.5	117.1
67°	983.6	502.5	241.2	166.0	153.4	154.3	157.2	154.3	146.3	135.0	120.8
67.5°	936.0	473.6	229.1	163.0	154.3	156.8	160.1	158.0	150.1	137.1	122.5
70°	695.6	333.6	171.0	147.5	154.3	164.3	171.8	173.9	165.1	147.2	125.8
72.5°	490.0	215.3	131.3	127.9	140.0	153.4	167.6	174.7	164.7	145.1	121.3
75°	294.3	134.6	106.6	108.7	117.9	131.7	143.0	145.9	133.4	120.8	104.9
77.5°	136.3	89.5	83.6	86.5	95.3	101.6	101.6	95.8	86.1	78.6	75.2
80°	80.3	73.1	72.7	78.2	84.0	79.4	72.3	64.4	59.3	56.9	55.6
82.5°	75.2	78.2	83.2	84.4	79.9	68.6	59.8	51.8	49.3	48.1	46.8
85°	88.6	94.9	86.5	79.9	70.6	57.7	46.8	40.1	38.9	37.6	35.9
87.5°	82.0	78.2	68.2	58.5	48.5	35.1	25.5	23.0	24.7	24.2	23.4
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°	683.5	683.5	683.5	683.5	683.5
2.5°	665.5	665.5	663.8	663.0	665.1
5°	653.8	654.2	653.0	652.6	653.0
7.5°	651.3	650.9	650.0	649.2	650.0
10°	658.9	658.4	657.2	658.0	656.8
12.5°	681.4	683.9	683.5	684.4	686.0
15°	718.2	717.8	716.5	717.4	718.6
17.5°	739.1	735.8	732.8	731.6	731.6
20°	734.1	724.4	719.5	716.5	715.7
22.5°	704.4	690.6	680.2	677.6	675.5
25°	655.9	638.8	625.4	622.4	617.0
27.5°	599.5	576.5	560.6	557.2	554.3
30°	525.5	499.1	480.7	469.0	472.8
32.5°	435.2	410.1	388.8	370.0	367.0
35°	336.1	308.5	289.7	281.3	275.9
37.5°	250.8	227.8	215.3	207.4	207.8
40°	191.9	179.8	173.0	167.6	168.1
42.5°	160.1	154.7	153.0	150.5	149.2
45°	145.1	143.4	143.8	141.3	140.5
47.5°	136.7	135.4	135.8	134.2	133.8
50°	130.0	129.2	129.6	128.3	127.9
52.5°	123.3	123.7	123.3	122.5	122.5
55°	117.5	117.1	117.9	116.6	116.6
57.5°	112.9	112.4	112.4	112.0	112.0
60°	110.3	108.7	108.3	108.3	108.7
62.5°	109.1	106.2	105.8	105.8	106.2
65°	109.5	104.9	103.3	102.8	102.4
67°	109.9	103.3	99.9	98.2	97.8
67.5°	110.3	102.4	98.6	97.0	96.1
70°	107.9	96.5	91.1	88.2	87.4
72.5°	101.6	89.5	82.8	79.0	78.2
75°	90.3	81.1	75.2	71.0	69.4
77.5°	69.8	65.6	63.5	61.0	60.2
80°	54.4	52.3	51.4	49.7	49.3
82.5°	45.1	43.1	41.8	39.7	38.5
85°	35.1	32.6	31.8	30.1	29.3
87.5°	23.0	21.7	21.3	19.2	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)