

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: P158209

Luminaire Tested: **VST-E03-LED-E-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158209
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-SL2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8244.2 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

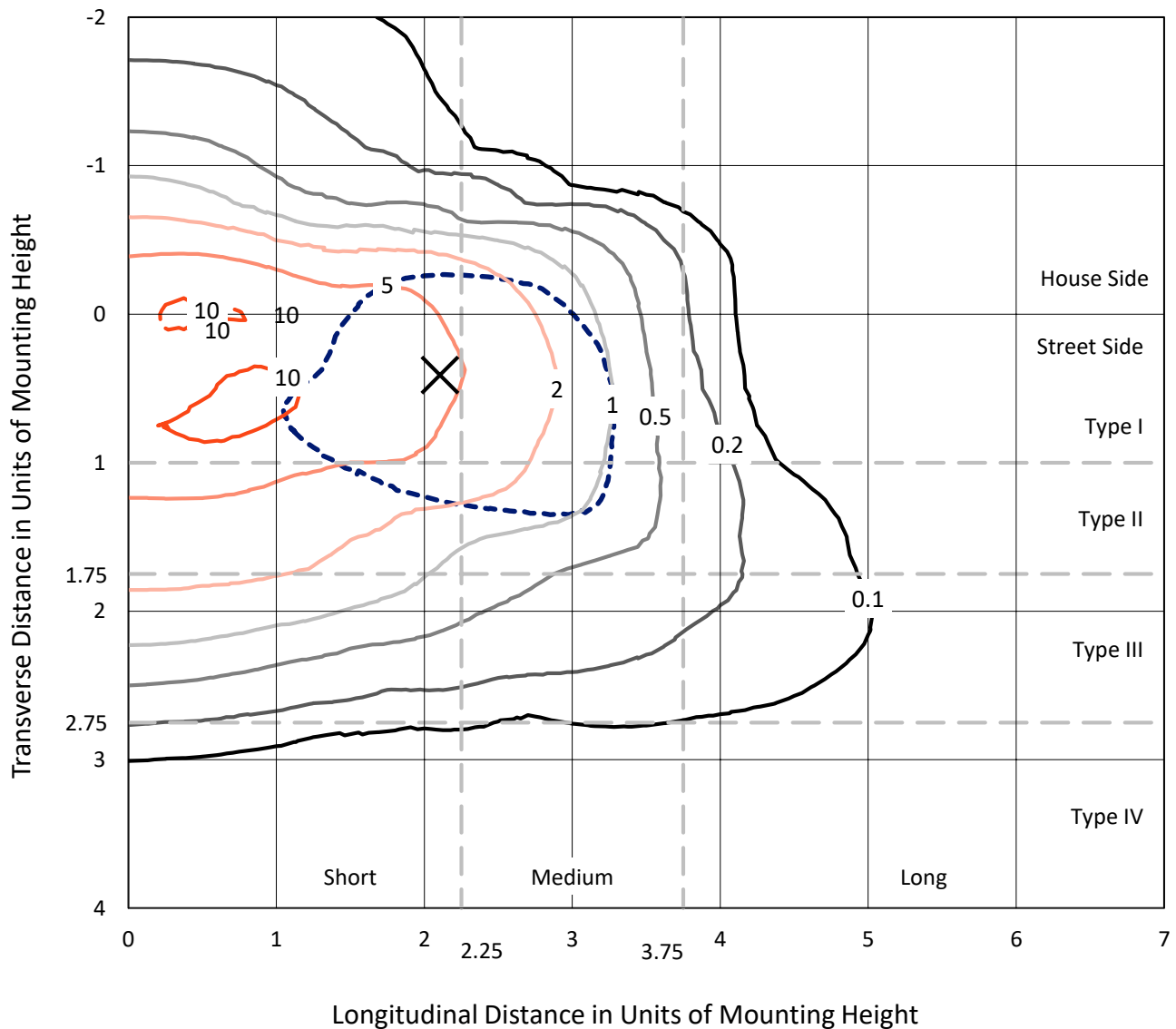


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

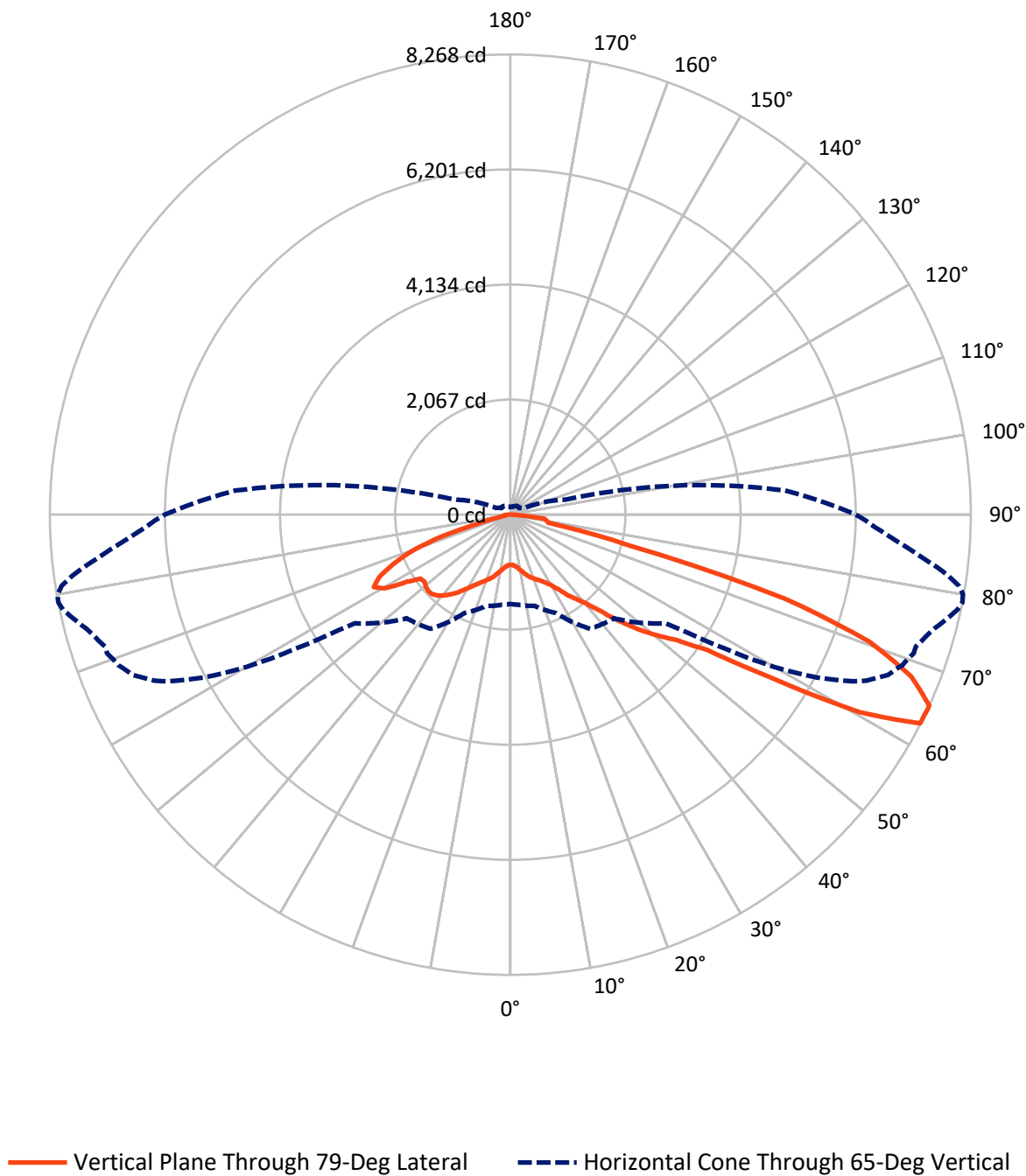


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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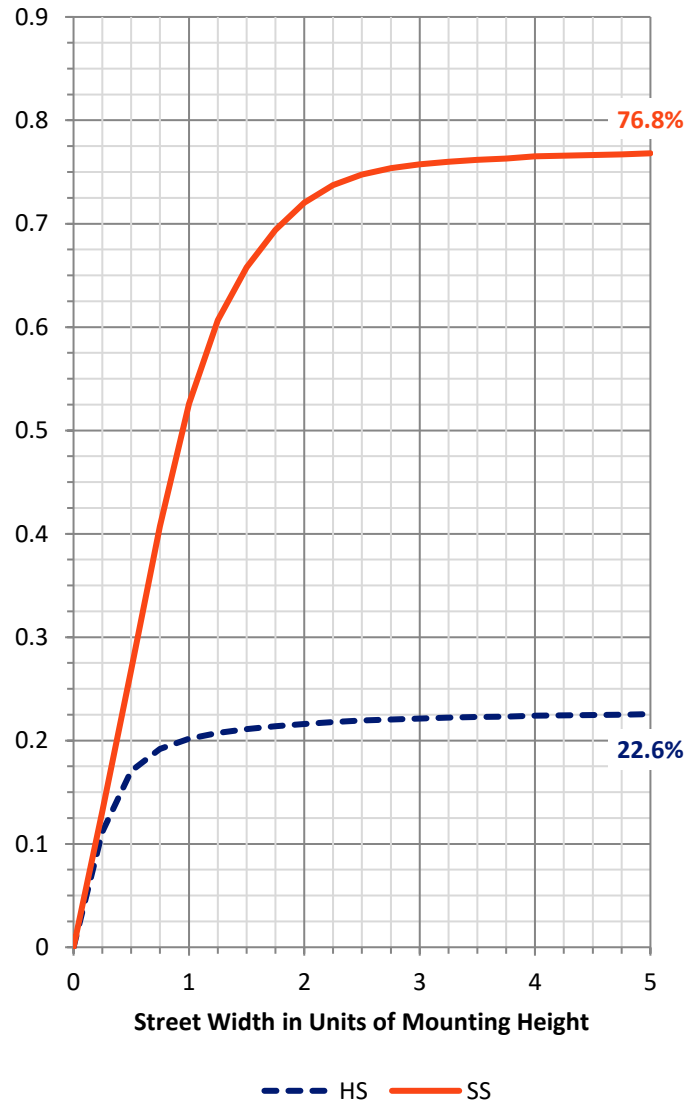
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.4	0.0	1894.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	6349.8	0.0	6349.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	8244.2	0.0	8244.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.1
10°-20°	289.8	3.5
20°-30°	499.7	6.1
30°-40°	818.5	9.9
40°-50°	1370.6	16.6
50°-60°	1854.0	22.5
60°-70°	2283.2	27.7
70°-80°	883.8	10.7
80°-90°	155.4	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°	8244.2	100.0
0°-180°	8244.2	100.0

Coefficient of Utilization



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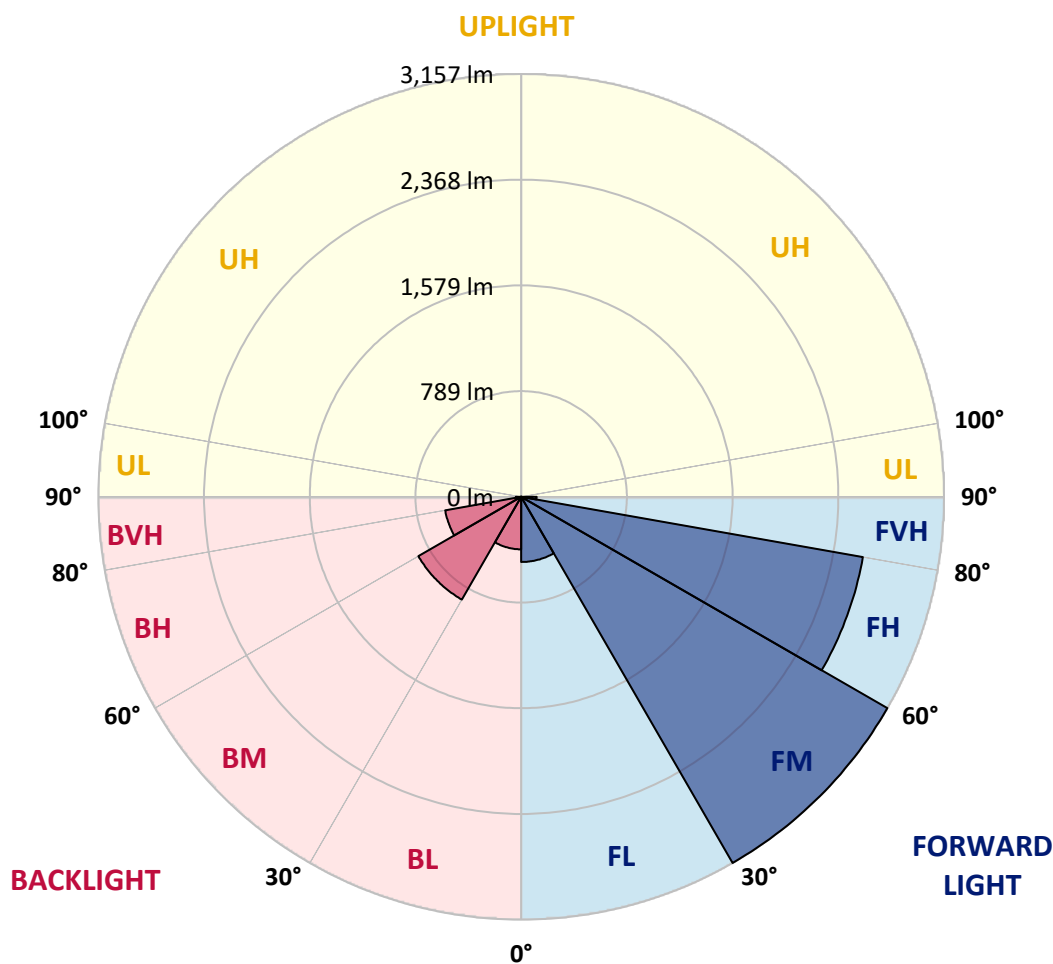
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.7	5.9			
FM	(30°-60°)	3157.2	38.3			
FH	(60°-80°)	2590.6	31.4			G2/5000
FVH	(80°-90°)	115.3	1.4			G2/225
BL	(0°-30°)	392.0	4.8	B1/500		
BM	(30°-60°)	885.9	10.7	B1/1000		
BH	(60°-80°)	576.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	40.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	903.7	900.9	903.7	905.9	907.5	909.7	909.1	908.6	908.0	908.6	908.6
5°	911.3	910.8	913.6	915.7	919.6	922.3	925.6	925.6	925.6	925.0	926.2
7.5°	936.0	935.5	938.2	940.4	943.7	949.1	953.5	955.7	955.2	955.2	955.2
10°	976.6	974.3	974.3	974.3	978.7	982.6	992.5	993.5	995.8	994.6	995.2
12.5°	1016.0	1016.6	1014.9	1013.3	1013.8	1021.5	1035.7	1038.5	1039.0	1040.7	1041.8
15°	1051.6	1051.1	1047.2	1043.4	1048.3	1061.5	1080.1	1085.0	1085.0	1088.3	1090.6
17.5°	1084.5	1083.4	1076.3	1069.7	1074.7	1097.1	1126.1	1129.4	1134.4	1136.0	1138.2
20°	1123.4	1121.2	1113.0	1095.5	1095.5	1126.1	1164.5	1167.8	1172.2	1173.3	1177.1
22.5°	1177.7	1172.2	1154.6	1122.9	1114.1	1149.7	1196.9	1198.5	1201.8	1206.2	1209.5
25°	1239.1	1240.1	1211.6	1156.3	1137.1	1174.4	1228.1	1230.8	1236.8	1240.1	1244.0
27.5°	1302.6	1304.3	1272.5	1203.4	1171.1	1208.3	1270.3	1273.6	1280.7	1284.5	1290.5
30°	1375.0	1377.1	1346.5	1276.9	1227.5	1258.3	1332.8	1341.5	1347.5	1352.5	1362.4
32.5°	1548.7	1535.5	1514.2	1440.2	1362.4	1360.1	1433.6	1443.5	1451.7	1462.1	1471.4
35°	1767.4	1775.6	1786.5	1736.6	1668.1	1618.3	1624.3	1618.8	1626.5	1641.8	1651.1
37.5°	1940.5	1958.6	2006.3	2038.6	2035.9	2026.0	1933.9	1933.9	1938.8	1930.6	1929.5
40°	2076.4	2087.9	2185.4	2311.0	2416.7	2468.8	2395.9	2385.5	2390.9	2348.8	2350.4
42.5°	2146.6	2163.5	2303.8	2524.1	2734.0	2901.2	2878.7	2871.6	2855.2	2844.7	2838.1
45°	2182.2	2202.5	2369.6	2672.1	2977.9	3236.0	3352.2	3351.1	3336.3	3324.2	3318.7
47.5°	2164.1	2181.6	2359.7	2717.0	3106.1	3451.9	3709.0	3724.8	3720.4	3738.0	3745.1
50°	2045.7	2068.2	2246.8	2620.0	3052.4	3536.9	3956.1	3985.7	4025.7	4050.9	4084.3
52.5°	1938.8	1957.5	2118.6	2462.8	2876.0	3467.8	4105.1	4166.0	4220.8	4272.3	4312.3
55°	1827.1	1845.7	1987.1	2299.4	2697.8	3263.9	4173.1	4261.9	4347.4	4434.5	4514.5
57.5°	1784.9	1804.6	1909.8	2172.8	2552.1	3061.7	4206.5	4352.3	4491.5	4639.4	4792.9
60°	1894.5	1912.0	1992.0	2176.1	2440.9	2859.5	4139.1	4368.2	4607.6	4851.5	5087.2
62.5°	1861.0	1870.4	1970.1	2255.6	2582.8	2660.0	3847.0	4149.5	4497.5	4854.8	5216.0
65°	1605.7	1623.8	1698.8	1949.8	2503.3	2633.2	3402.1	3706.2	4116.7	4539.2	5023.1
67.5°	1151.9	1126.7	1184.8	1404.5	1942.1	2628.8	2901.2	3126.4	3448.1	3772.0	4168.7
70°	523.3	511.3	556.8	730.5	1171.6	2077.5	2452.9	2529.1	2648.5	2866.6	3134.6
72.5°	206.6	206.0	235.6	302.0	554.0	1337.2	2062.7	2106.5	2148.7	2243.6	2359.2
75°	135.4	135.4	144.1	162.8	272.9	645.5	1744.9	1784.9	1849.6	1876.4	1925.7
77.5°	101.9	102.5	106.3	110.7	150.7	339.8	1231.4	1373.3	1482.9	1564.6	1624.3
80°	72.4	75.6	82.7	85.5	98.1	193.4	696.0	798.5	922.3	1054.4	1220.4
82.5°	54.2	58.1	70.1	73.4	77.8	110.2	314.0	356.2	415.9	539.2	775.4
85°	25.2	28.0	48.2	52.6	56.5	63.5	159.5	178.1	202.2	221.4	258.1
87.5°	3.8	2.8	8.2	11.5	18.1	18.7	54.8	65.2	70.7	85.0	88.2
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°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	908.6	909.1	909.7	908.6	909.1	909.1	908.0	907.5	907.5	907.5	908.0
5°	926.2	927.2	926.2	926.7	928.9	928.3	927.2	926.7	928.9	929.4	927.8
7.5°	957.4	957.9	955.7	958.4	959.6	960.1	960.1	961.2	961.2	962.9	961.2
10°	997.4	997.4	1001.2	1000.7	1001.2	1002.3	1002.8	1005.1	1006.7	1006.7	1007.8
12.5°	1043.4	1043.9	1047.8	1048.3	1050.5	1051.1	1054.4	1052.2	1057.7	1057.7	1059.3
15°	1091.1	1094.9	1095.5	1100.9	1102.0	1102.6	1107.0	1107.0	1110.8	1111.4	1112.5
17.5°	1138.2	1141.5	1143.7	1148.1	1151.9	1153.6	1155.2	1158.5	1161.2	1162.3	1165.1
20°	1178.8	1182.1	1184.3	1188.7	1191.9	1194.7	1196.3	1200.1	1202.9	1204.0	1207.8
22.5°	1212.7	1214.9	1218.8	1224.8	1225.9	1229.2	1234.1	1236.8	1238.0	1241.2	1245.6
25°	1248.9	1252.2	1254.4	1259.9	1264.3	1269.7	1274.1	1278.5	1279.6	1284.0	1287.8
27.5°	1297.1	1300.4	1301.0	1312.0	1316.3	1324.0	1328.9	1335.5	1338.8	1342.6	1350.3
30°	1368.4	1376.0	1379.3	1391.9	1394.2	1402.9	1411.7	1413.8	1418.8	1419.4	1432.0
32.5°	1477.4	1488.4	1492.8	1505.9	1509.2	1517.5	1522.4	1533.9	1534.4	1539.9	1542.7
35°	1656.1	1653.4	1670.3	1673.6	1683.5	1690.6	1695.5	1695.5	1706.0	1706.5	1709.8
37.5°	1900.0	1894.5	1898.9	1879.1	1884.1	1875.3	1873.6	1875.8	1871.5	1872.5	1872.0
40°	2290.1	2265.5	2239.7	2178.9	2165.8	2140.5	2120.8	2104.9	2089.6	2073.1	2062.1
42.5°	2779.5	2743.9	2705.5	2608.0	2562.5	2513.7	2466.1	2438.6	2383.9	2350.4	2332.3
45°	3292.4	3250.8	3197.1	3116.0	3051.3	2999.3	2912.1	2871.0	2786.1	2743.9	2686.9
47.5°	3712.7	3713.3	3670.0	3587.8	3518.8	3484.3	3430.0	3350.5	3254.1	3199.9	3098.5
50°	4080.5	4079.9	4077.2	4027.9	3979.7	3941.8	3894.2	3822.4	3743.5	3682.1	3565.9
52.5°	4352.3	4388.5	4403.8	4403.3	4397.2	4379.7	4343.5	4281.6	4201.6	4167.1	4074.5
55°	4577.0	4655.9	4697.0	4786.9	4795.1	4824.1	4792.3	4792.9	4745.8	4749.1	4719.5
57.5°	4917.3	5061.4	5144.2	5343.1	5442.8	5563.4	5542.0	5642.9	5679.6	5726.2	5788.1
60°	5303.6	5572.7	5768.9	6164.6	6325.7	6520.8	6628.2	6742.7	6826.0	6911.5	6974.5
62.5°	5579.8	5933.3	6255.5	6819.4	7028.8	7234.3	7369.6	7508.3	7602.0	7663.4	7708.9
65°	5467.0	5857.7	6238.6	6829.9	7057.8	7206.9	7368.0	7448.0	7541.7	7592.7	7657.9
67.5°	4645.5	5037.3	5445.6	6143.2	6381.6	6587.6	6713.1	6816.7	6892.3	6957.0	7032.1
70°	3454.7	3883.2	4305.2	5070.2	5371.0	5668.6	5816.6	5944.8	6023.7	6088.9	6171.7
72.5°	2486.3	2754.8	3018.4	3875.0	4175.8	4560.5	4714.0	4856.5	4958.9	4955.6	5043.4
75°	1979.4	2088.5	2205.7	2648.0	2863.9	3188.3	3274.4	3354.4	3306.1	3213.5	3208.1
77.5°	1647.8	1692.8	1732.3	1870.9	1902.7	1979.9	1937.2	1892.8	1749.8	1629.2	1565.6
80°	1337.7	1426.5	1484.6	1583.2	1623.8	1646.8	1652.8	1637.5	1584.8	1511.9	1395.8
82.5°	994.6	1163.4	1278.5	1472.5	1543.7	1558.6	1587.1	1569.5	1535.0	1475.8	1392.5
85°	291.5	329.9	378.1	512.9	601.1	676.3	752.9	790.8	814.3	781.4	695.4
87.5°	102.5	115.6	129.4	178.1	189.6	229.1	224.7	265.3	266.9	278.4	266.3
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°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	907.5	907.5	907.5	908.0	908.0	908.0	907.0	906.4	907.0	908.0	908.0
5°	928.9	929.4	930.5	928.3	928.9	930.5	929.4	928.9	929.4	930.5	929.4
7.5°	963.4	964.0	962.9	965.0	965.0	966.1	967.8	966.1	966.7	967.3	967.8
10°	1008.4	1008.9	1010.0	1011.6	1012.2	1013.3	1014.4	1016.0	1016.0	1014.9	1017.7
12.5°	1062.1	1061.5	1062.6	1064.8	1065.9	1067.5	1070.8	1070.8	1073.0	1072.4	1075.2
15°	1114.7	1117.4	1117.9	1121.8	1123.4	1126.1	1130.0	1132.2	1132.2	1135.5	1136.6
17.5°	1167.2	1169.5	1171.6	1174.9	1177.1	1178.8	1183.1	1185.9	1185.4	1191.4	1191.4
20°	1207.8	1212.2	1214.9	1217.2	1220.9	1223.7	1227.0	1230.3	1232.5	1236.3	1237.4
22.5°	1247.3	1250.0	1253.8	1256.6	1261.0	1264.3	1268.1	1270.9	1274.7	1279.6	1281.2
25°	1291.1	1295.5	1299.9	1303.7	1307.0	1310.8	1317.4	1323.4	1328.9	1333.3	1334.9
27.5°	1351.9	1356.9	1363.4	1366.2	1371.1	1374.4	1384.3	1391.9	1394.7	1402.4	1404.5
30°	1434.1	1439.6	1446.2	1449.5	1458.2	1462.6	1473.1	1481.3	1484.0	1493.3	1495.0
32.5°	1553.0	1556.3	1569.5	1568.9	1581.0	1593.6	1599.7	1606.2	1618.3	1623.2	1624.9
35°	1718.0	1725.7	1735.0	1734.5	1749.8	1756.9	1769.0	1776.1	1784.9	1784.3	1793.6
37.5°	1877.5	1880.2	1883.5	1890.7	1901.6	1911.5	1915.9	1922.9	1929.5	1939.4	1951.4
40°	2051.2	2057.8	2058.3	2062.1	2067.7	2080.3	2088.5	2096.2	2118.6	2132.9	2140.0
42.5°	2311.5	2309.9	2298.9	2306.0	2309.3	2328.5	2334.5	2358.1	2383.3	2413.4	2421.7
45°	2646.4	2624.4	2617.9	2615.1	2632.6	2642.5	2667.2	2711.0	2737.3	2765.8	2779.5
47.5°	3058.4	2989.9	2957.6	2950.5	2968.6	3010.7	3019.0	3062.3	3096.8	3117.7	3131.3
50°	3471.1	3417.4	3349.4	3326.4	3321.5	3360.4	3369.7	3405.9	3440.9	3447.0	3439.9
52.5°	3989.5	3901.9	3789.5	3748.9	3716.6	3719.3	3727.0	3742.4	3764.8	3755.5	3736.3
55°	4652.6	4552.9	4497.5	4420.8	4372.0	4363.3	4329.8	4283.8	4282.1	4288.2	4230.7
57.5°	5756.8	5715.2	5738.8	5730.5	5682.3	5711.3	5560.7	5517.9	5483.9	5424.8	5371.6
60°	7030.4	7073.2	7121.9	7234.3	7229.3	7342.3	7237.6	7211.3	7179.5	6997.0	6907.7
62.5°	7788.3	7805.3	7877.1	7981.7	8084.8	8192.8	8241.5	8258.5	8192.2	8043.1	7856.8
65°	7656.2	7731.3	7800.9	7891.3	7997.1	8105.1	8208.1	8268.4	8253.1	8154.4	7949.5
67.5°	7056.2	7135.1	7237.0	7331.8	7445.8	7539.5	7652.4	7763.1	7766.4	7717.1	7574.6
70°	6180.5	6272.0	6377.2	6430.4	6553.7	6638.6	6732.3	6841.9	6877.5	6883.6	6717.5
72.5°	5024.7	5063.0	5114.6	5086.6	5111.3	5165.5	5140.3	5149.1	5013.7	5039.0	4834.0
75°	3060.1	3025.0	2869.4	2727.4	2554.3	2421.1	2452.9	2198.6	1948.2	1935.6	1754.7
77.5°	1552.0	1496.0	1399.6	1299.4	1152.5	984.2	844.0	692.7	565.0	492.1	422.5
80°	1321.8	1282.3	1229.2	1156.3	1049.5	925.0	778.7	663.7	556.8	445.6	356.8
82.5°	1264.8	1144.3	1067.0	1006.1	890.5	775.4	695.4	616.5	540.9	472.4	374.3
85°	627.5	555.1	469.6	416.5	320.6	251.0	235.1	193.4	180.3	139.2	117.3
87.5°	211.0	172.6	128.8	108.5	86.6	70.7	69.6	61.9	61.4	55.9	51.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	907.5	908.6	908.6	907.5	908.0	907.0	907.5	908.0	906.4	905.9	904.2
5°	930.0	929.4	929.4	930.0	931.6	932.2	929.4	930.5	931.1	928.3	922.3
7.5°	967.3	967.3	968.9	968.3	971.6	970.5	970.0	970.0	970.0	964.5	954.7
10°	1017.7	1017.7	1019.3	1021.5	1022.0	1021.0	1021.0	1021.5	1024.3	1013.3	997.9
12.5°	1074.1	1076.8	1076.3	1076.3	1082.9	1081.2	1079.0	1081.2	1084.0	1068.6	1046.7
15°	1137.1	1138.7	1139.9	1143.7	1142.6	1146.4	1147.6	1146.4	1149.2	1129.4	1092.7
17.5°	1194.1	1197.4	1198.5	1202.9	1202.9	1203.4	1207.8	1206.2	1206.7	1184.3	1131.7
20°	1241.2	1244.5	1246.2	1251.1	1252.2	1254.4	1256.0	1257.1	1259.9	1233.0	1163.4
22.5°	1288.4	1291.1	1293.8	1297.1	1301.5	1304.3	1306.4	1307.6	1312.5	1281.2	1193.6
25°	1341.0	1347.0	1349.8	1355.2	1359.6	1364.0	1367.3	1367.8	1376.0	1337.2	1218.2
27.5°	1411.1	1419.4	1423.7	1432.5	1436.9	1441.3	1440.2	1446.7	1458.2	1401.2	1237.4
30°	1503.2	1513.6	1516.3	1525.1	1532.2	1536.6	1541.6	1547.0	1554.7	1472.5	1246.7
32.5°	1631.4	1647.3	1651.1	1656.1	1666.5	1674.2	1677.5	1686.2	1688.4	1539.9	1244.0
35°	1807.3	1800.2	1818.8	1823.2	1838.0	1844.0	1847.9	1859.4	1850.6	1613.3	1225.9
37.5°	1966.3	1964.0	1982.2	1992.0	2011.2	2006.8	2016.1	2023.8	1992.5	1665.4	1192.5
40°	2160.2	2157.5	2182.7	2186.0	2215.6	2209.0	2212.9	2218.9	2149.3	1701.6	1131.7
42.5°	2431.0	2432.0	2458.9	2462.2	2466.1	2478.1	2458.4	2459.5	2315.9	1711.4	1031.3
45°	2787.7	2806.9	2790.5	2791.0	2789.9	2766.9	2742.2	2713.2	2489.0	1677.5	902.0
47.5°	3133.5	3120.4	3099.5	3080.3	3064.5	3028.3	2992.1	2942.8	2638.7	1596.9	757.9
50°	3429.4	3399.8	3381.2	3328.1	3290.3	3243.1	3192.7	3136.3	2761.4	1480.7	623.1
52.5°	3704.5	3673.9	3604.3	3548.9	3494.6	3432.2	3373.6	3307.3	2869.9	1348.1	520.1
55°	4161.6	4134.7	4065.1	3963.8	3896.9	3810.8	3733.6	3643.7	3089.7	1240.7	452.1
57.5°	5225.3	5202.2	5056.0	4991.8	4903.6	4687.7	4655.9	4515.6	3678.8	1228.1	412.1
60°	6723.0	6624.4	6502.7	6327.3	6120.7	6049.5	5890.6	5703.7	4626.8	1262.6	379.8
62.5°	7642.6	7417.9	7239.2	7037.0	6846.8	6683.5	6509.8	6325.1	5111.8	1217.2	339.8
65°	7711.6	7447.4	7211.3	6974.0	6760.3	6556.9	6388.1	6203.5	4954.0	1046.2	287.7
67.5°	7331.3	7052.9	6795.3	6526.3	6310.3	6126.8	5911.9	5734.4	4509.0	814.3	239.5
70°	6547.1	6302.6	6080.7	5790.8	5611.6	5388.1	5251.6	5029.6	3930.3	555.1	197.8
72.5°	4715.6	4531.5	4459.1	4256.9	4022.4	3890.9	3827.9	3612.5	2904.5	344.7	161.6
75°	1593.1	1638.5	1534.4	1375.0	1452.8	1332.8	1381.6	1279.1	1228.6	197.8	135.9
77.5°	353.5	332.1	306.9	284.9	283.3	266.3	282.2	266.9	285.5	126.1	120.0
80°	278.9	220.3	187.4	171.0	162.2	157.3	153.4	149.0	135.9	107.4	110.7
82.5°	301.4	227.4	166.6	133.1	114.0	106.9	105.2	100.9	99.7	104.1	111.8
85°	96.4	80.6	68.5	64.7	59.8	57.0	55.9	54.2	65.8	113.5	107.4
87.5°	50.4	44.4	39.5	37.8	32.9	30.7	30.1	30.7	46.0	113.5	77.8
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):

	125°	135°	145°	155°	165°	175°	180°
0°	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	902.6	902.0	900.9	900.4	899.8	897.1	899.3
5°	919.6	914.1	909.1	903.1	899.8	897.1	897.1
7.5°	945.3	930.0	917.3	903.7	894.4	887.2	886.1
10°	977.6	948.1	919.0	894.4	876.8	863.6	862.0
12.5°	1008.4	963.4	917.3	876.8	849.4	830.8	829.7
15°	1036.9	971.6	904.7	845.0	803.9	779.3	776.5
17.5°	1059.3	966.7	876.2	800.6	744.7	715.7	714.1
20°	1064.2	947.0	835.7	745.9	686.6	656.0	648.8
22.5°	1059.8	911.3	785.3	685.6	617.6	586.9	583.1
25°	1046.7	868.0	722.8	615.4	552.4	521.2	513.5
27.5°	1023.1	817.1	655.4	547.4	485.0	454.9	447.2
30°	988.1	755.7	583.6	483.9	419.2	395.1	387.4
32.5°	939.3	681.2	512.9	418.7	365.0	345.8	342.5
35°	871.9	595.7	439.0	365.0	325.5	314.0	312.4
37.5°	785.8	510.2	377.0	326.6	298.1	291.0	289.9
40°	673.5	422.5	333.2	299.2	278.4	272.3	271.3
42.5°	557.9	356.8	300.8	277.3	260.3	254.8	253.2
45°	456.5	312.4	276.7	259.2	243.3	237.3	236.8
47.5°	380.9	286.6	257.0	242.8	226.9	219.8	220.3
50°	325.5	263.0	240.6	228.5	210.4	203.9	204.4
52.5°	287.7	239.5	225.2	211.6	196.2	189.6	189.6
55°	258.1	220.3	210.4	195.7	183.6	177.5	177.0
57.5°	234.0	205.0	196.2	184.1	172.1	164.9	164.9
60°	219.2	194.0	186.9	175.9	161.6	154.0	153.4
62.5°	210.4	190.7	184.7	169.3	153.4	145.8	144.1
65°	203.9	198.4	190.7	165.5	146.9	138.7	137.0
67.5°	204.4	216.5	205.5	167.7	144.7	132.6	130.4
70°	207.7	230.7	215.9	172.6	154.0	129.9	124.9
72.5°	191.3	208.8	194.5	164.4	150.2	124.9	118.9
75°	159.5	152.3	139.7	133.7	134.8	113.5	111.2
77.5°	129.4	113.5	101.4	106.3	113.5	97.0	94.8
80°	112.3	92.0	86.0	94.3	103.0	82.7	77.3
82.5°	105.2	77.8	74.0	98.1	107.9	71.2	62.5
85°	92.6	63.5	58.1	115.6	107.9	53.7	49.9
87.5°	61.9	37.8	36.2	85.0	74.0	37.3	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)