

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: P158430

Luminaire Tested: **VST-E03-LED-E-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158430
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-E03-LED-E-U-SL3
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9050.6 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-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



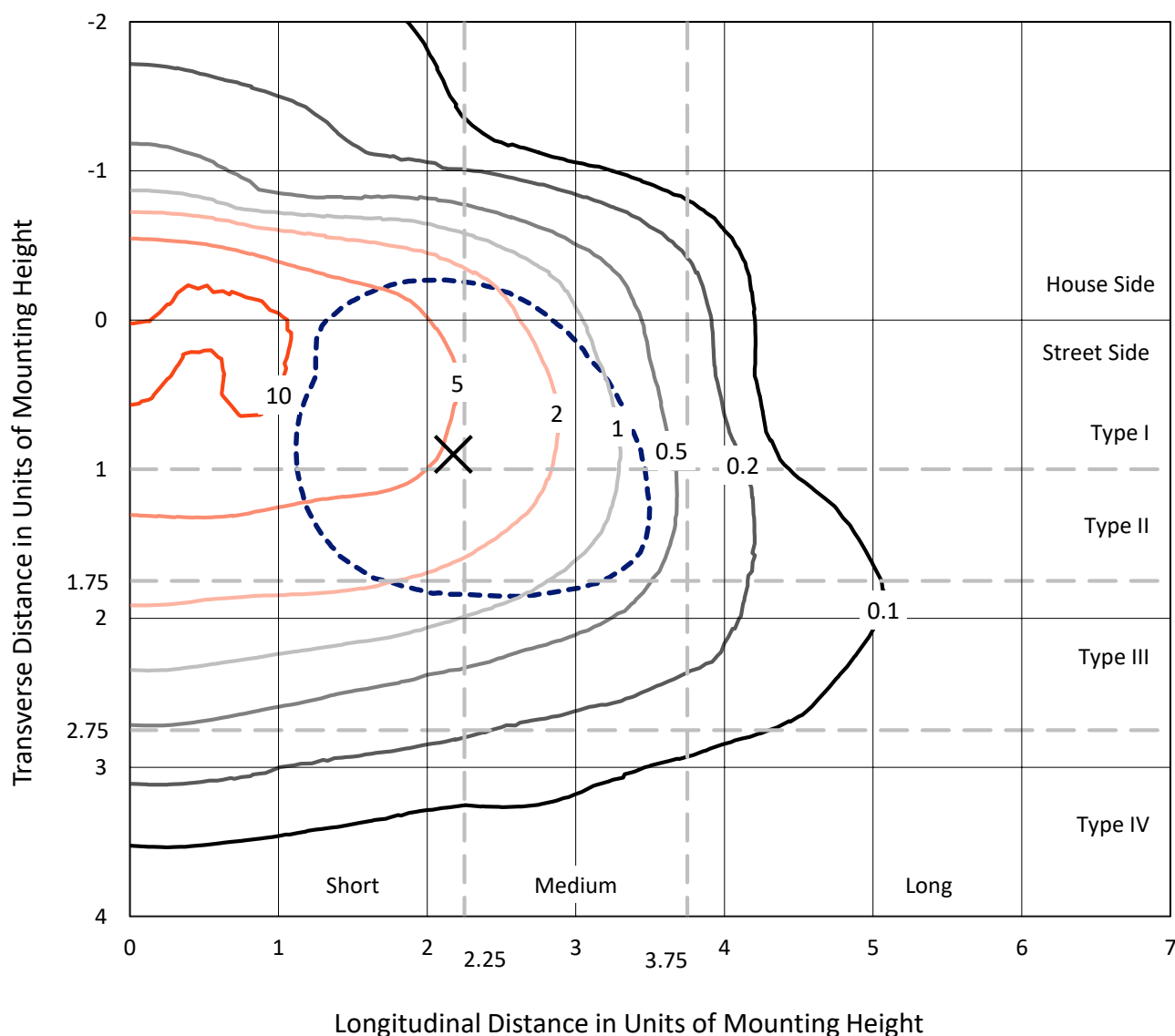
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

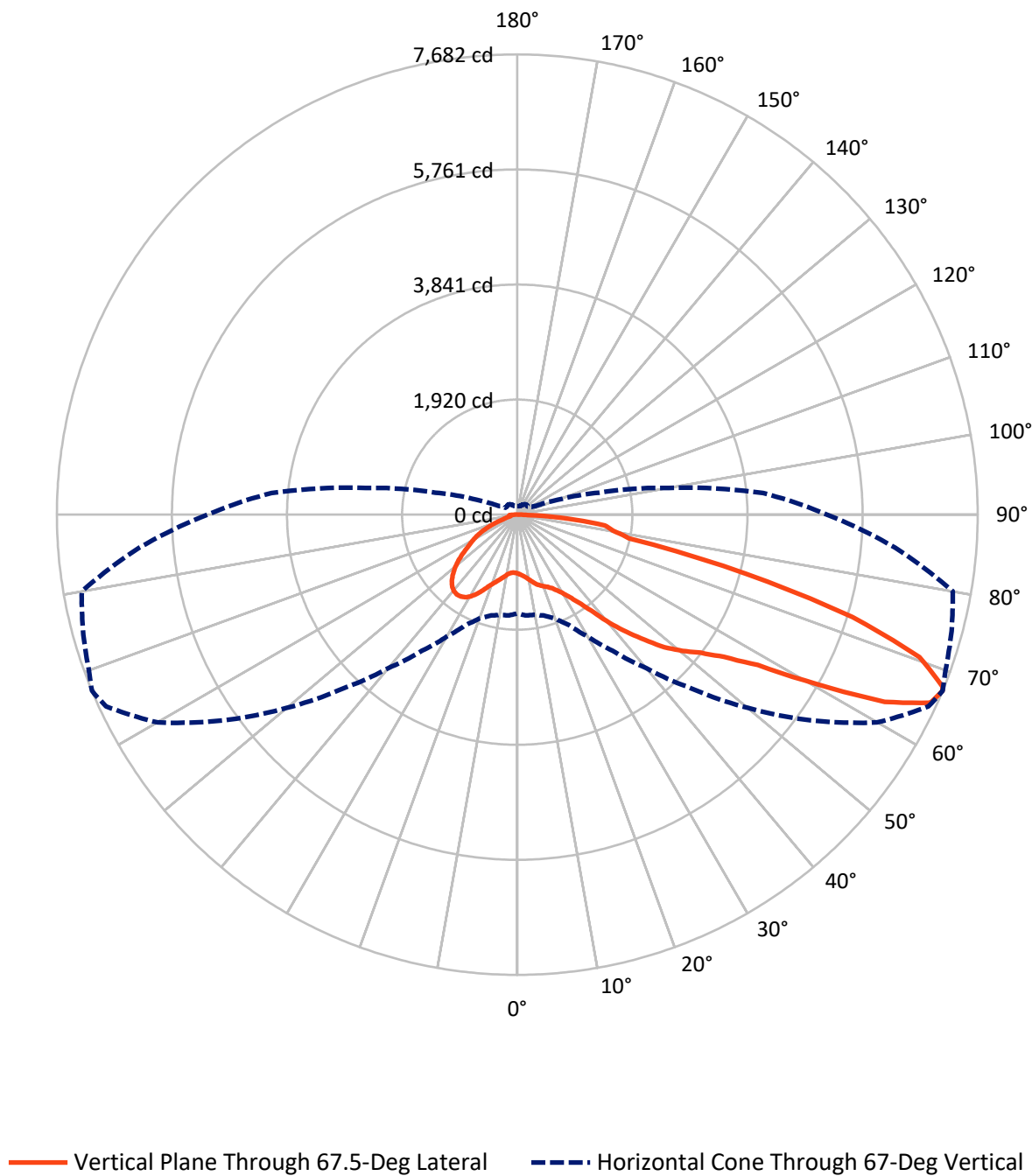


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2171.3	0.0	2171.3
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	6879.3	0.0	6879.3
	% Fixture	76.0	0.0	76.0
Total	Lumens	9050.6	0.0	9050.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.1
10°-20°	332.2	3.7
20°-30°	593.0	6.6
30°-40°	869.1	9.6
40°-50°	1343.0	14.8
50°-60°	1955.6	21.6
60°-70°	2547.5	28.1
70°-80°	1140.3	12.6
80°-90°	172.4	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°	9050.6	100.0
0°-180°	9050.6	100.0

Coefficient of Utilization



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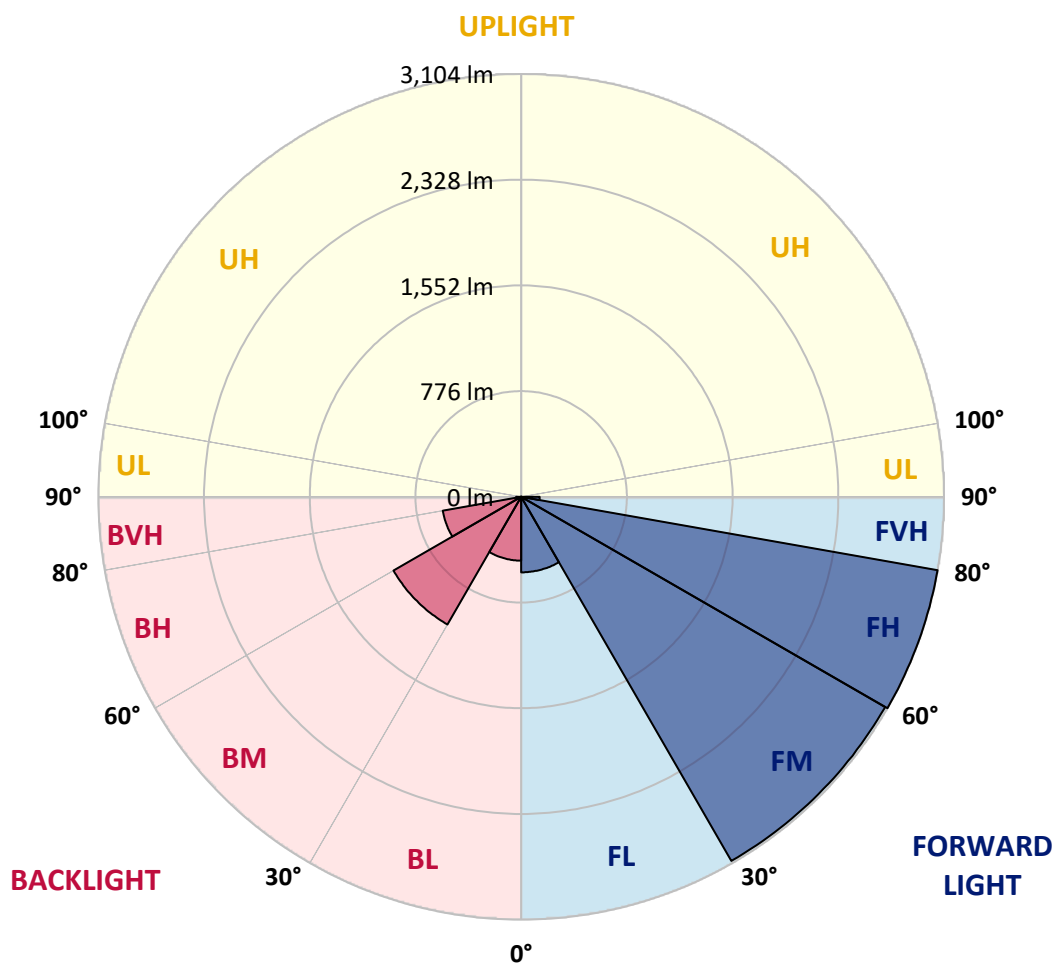
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.5	6.1			
FM	(30°-60°)	3085.8	34.1			
FH	(60°-80°)	3103.6	34.3			G2/5000
FVH	(80°-90°)	135.4	1.5			G2/225
BL	(0°-30°)	468.2	5.2	B1/500		
BM	(30°-60°)	1081.9	12.0	B2/2500		
BH	(60°-80°)	584.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	37.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0
2.5°	1019.4	1021.8	1022.4	1021.8	1022.4	1020.0	1019.4	1015.8	1017.6	1012.8	1011.6
5°	1074.6	1076.4	1077.6	1072.8	1074.0	1071.6	1068.6	1065.0	1060.2	1053.6	1049.4
7.5°	1128.6	1131.6	1131.0	1129.2	1125.0	1122.6	1116.6	1111.2	1102.8	1095.0	1089.6
10°	1201.2	1200.6	1200.6	1190.4	1184.4	1179.0	1168.2	1159.8	1151.4	1140.0	1134.0
12.5°	1285.2	1281.0	1279.2	1272.0	1259.4	1249.8	1234.2	1218.0	1203.0	1191.0	1181.4
15°	1366.2	1366.2	1361.4	1350.0	1338.0	1325.4	1303.2	1279.8	1255.2	1236.0	1226.4
17.5°	1440.0	1433.4	1429.2	1414.2	1401.6	1381.2	1356.6	1331.4	1300.8	1273.8	1255.2
20°	1494.0	1488.6	1479.6	1461.0	1439.4	1415.4	1386.6	1357.2	1324.2	1294.8	1273.8
22.5°	1525.2	1518.6	1504.8	1480.2	1450.8	1417.2	1383.6	1356.0	1326.0	1303.8	1286.4
25°	1541.4	1534.8	1516.2	1483.8	1444.2	1399.8	1361.4	1334.4	1317.0	1311.6	1309.2
27.5°	1540.8	1535.4	1515.6	1478.4	1427.4	1376.4	1335.0	1312.2	1310.4	1331.4	1347.0
30°	1525.2	1521.6	1503.6	1466.4	1413.0	1359.6	1321.2	1309.2	1327.8	1372.2	1410.6
32.5°	1509.6	1507.8	1495.2	1461.6	1416.0	1371.0	1344.6	1345.8	1384.2	1452.6	1514.4
35°	1511.4	1513.8	1512.0	1494.0	1465.2	1441.8	1429.2	1455.6	1515.6	1598.4	1681.2
37.5°	1527.0	1536.0	1547.4	1549.2	1549.8	1546.2	1572.6	1628.4	1716.0	1824.0	1953.6
40°	1561.2	1571.4	1604.4	1633.2	1670.4	1714.8	1768.2	1845.6	1954.2	2087.4	2246.4
42.5°	1667.4	1681.8	1722.6	1776.0	1844.4	1914.0	1993.8	2099.4	2232.6	2373.0	2539.8
45°	1806.0	1836.0	1881.0	1940.4	2043.0	2140.8	2244.0	2362.2	2503.8	2679.6	2847.6
47.5°	1978.8	2008.8	2074.2	2137.8	2259.0	2380.8	2493.6	2617.2	2770.8	2950.8	3136.8
50°	2130.0	2164.2	2222.4	2308.2	2448.6	2598.0	2722.8	2856.6	2985.6	3175.2	3363.0
52.5°	2248.8	2273.4	2329.2	2407.8	2564.4	2728.2	2886.0	3034.8	3187.8	3377.4	3551.4
55°	2263.8	2286.6	2341.2	2431.2	2590.2	2772.0	2953.8	3130.2	3346.8	3553.8	3784.2
57.5°	2199.0	2217.6	2272.8	2353.2	2508.0	2715.0	2944.8	3171.0	3448.2	3727.8	4009.2
60°	2107.2	2125.8	2169.0	2233.2	2373.0	2596.2	2864.4	3174.0	3542.4	3946.2	4360.2
62.5°	2006.4	2022.6	2057.4	2103.0	2226.0	2431.8	2739.0	3154.2	3619.2	4163.4	4801.8
65°	1836.6	1875.6	1890.6	1937.4	2060.4	2254.8	2567.4	3020.4	3588.0	4260.0	5079.0
67°	1648.8	1688.4	1696.2	1743.6	1842.0	2028.6	2346.6	2772.6	3340.8	4093.2	5017.8
67.5°	1588.8	1622.4	1634.4	1681.8	1774.8	1950.6	2252.4	2683.2	3265.2	4002.0	4944.0
70°	1168.2	1205.4	1218.6	1238.4	1305.0	1451.4	1651.2	2025.0	2603.4	3265.8	4170.6
72.5°	625.2	655.2	667.8	697.2	731.4	811.2	964.2	1232.4	1597.8	2185.2	2967.0
75°	423.0	435.0	444.0	464.4	499.8	563.4	630.6	724.8	945.6	1233.0	1688.4
77.5°	241.2	246.6	247.8	251.4	279.6	340.2	450.6	610.2	782.4	893.4	1080.0
80°	104.4	115.2	123.6	118.2	116.4	129.0	161.4	240.6	471.6	748.8	888.6
82.5°	56.4	61.2	68.4	69.0	72.6	76.8	83.4	99.0	139.2	280.8	612.6
85°	29.4	30.6	40.8	46.8	49.8	52.2	53.4	59.4	68.4	87.0	152.4
87.5°	4.2	6.0	7.2	9.6	10.8	11.4	13.2	16.8	19.8	24.0	40.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0
2.5°	1006.2	1005.0	1001.4	999.0	996.6	994.2	991.2	988.8	984.6	981.6	978.0
5°	1043.4	1036.2	1031.4	1024.8	1023.6	1015.8	1008.0	1004.4	997.2	991.2	984.0
7.5°	1081.2	1072.8	1065.0	1059.6	1056.6	1045.8	1038.0	1029.0	1020.6	1012.8	1004.4
10°	1125.6	1117.2	1108.8	1105.2	1099.8	1089.6	1083.0	1071.6	1063.2	1053.6	1042.2
12.5°	1171.8	1165.8	1159.8	1155.0	1152.6	1147.8	1138.2	1128.6	1117.2	1107.6	1094.4
15°	1212.6	1208.4	1206.0	1204.8	1204.8	1201.8	1192.8	1183.8	1171.8	1161.0	1146.6
17.5°	1241.4	1239.6	1241.4	1243.2	1245.6	1243.2	1241.4	1231.2	1223.4	1210.2	1195.8
20°	1258.2	1261.8	1270.8	1276.8	1282.2	1286.4	1288.2	1279.8	1269.6	1260.0	1250.4
22.5°	1276.2	1286.4	1302.0	1311.0	1320.0	1335.0	1338.6	1332.6	1324.8	1318.8	1308.6
25°	1306.2	1321.2	1348.2	1362.6	1375.2	1397.4	1400.4	1401.6	1399.8	1395.0	1382.4
27.5°	1353.0	1382.4	1418.4	1437.0	1450.8	1479.6	1491.0	1491.0	1486.2	1491.6	1491.6
30°	1434.6	1473.6	1520.4	1531.2	1552.8	1578.0	1596.6	1599.0	1599.6	1611.0	1627.8
32.5°	1560.0	1597.2	1649.4	1661.4	1680.0	1704.0	1725.0	1722.6	1728.0	1752.6	1774.8
35°	1742.4	1780.2	1814.4	1830.6	1839.0	1860.6	1868.4	1881.6	1897.8	1928.4	1925.4
37.5°	2012.4	2046.0	2050.8	2061.0	2050.8	2055.0	2061.0	2076.6	2119.8	2147.4	2103.0
40°	2337.6	2393.4	2388.0	2376.0	2353.2	2322.6	2333.4	2357.4	2404.2	2380.2	2260.8
42.5°	2644.2	2701.8	2691.0	2677.2	2626.8	2615.4	2614.2	2634.0	2659.2	2590.8	2384.4
45°	2946.0	3004.8	2986.2	2978.4	2944.8	2920.2	2940.6	2941.8	2935.2	2788.8	2492.4
47.5°	3257.4	3311.4	3299.4	3306.0	3271.2	3255.0	3256.8	3248.4	3186.6	2956.8	2576.4
50°	3508.8	3581.4	3588.6	3573.6	3555.0	3530.4	3593.4	3570.6	3433.2	3120.0	2657.4
52.5°	3704.4	3802.2	3839.4	3829.8	3814.8	3817.8	3936.0	3961.8	3734.4	3325.8	2746.8
55°	3936.0	4090.2	4150.8	4186.8	4171.2	4231.2	4501.8	4515.0	4153.2	3594.6	2863.2
57.5°	4270.2	4491.0	4682.4	4733.4	4782.6	4977.6	5416.8	5283.0	4696.8	4001.4	3010.8
60°	4778.4	5262.0	5572.8	5736.0	5851.2	6123.6	6541.2	6202.2	5374.2	4485.6	3196.2
62.5°	5490.0	6196.8	6716.4	6880.2	6927.6	7084.2	7386.6	6738.0	5743.2	4702.8	3212.4
65°	6019.8	6867.6	7489.8	7573.8	7517.4	7520.4	7599.6	6709.8	5605.8	4513.2	2934.0
67°	5985.0	6934.2	7571.4	7681.8	7603.8	7501.2	7377.6	6327.6	5164.2	4116.0	2569.2
67.5°	5931.6	6870.0	7536.0	7652.4	7581.0	7464.0	7283.4	6179.4	5026.8	3992.4	2494.8
70°	5127.6	6059.4	6956.4	7120.2	7150.2	7043.4	6536.4	5210.4	4081.2	3247.8	1937.4
72.5°	3991.2	4821.0	5708.4	5850.6	5965.8	5658.0	4757.4	3598.8	2974.8	2340.6	1402.8
75°	2635.2	3479.4	3927.0	3948.0	3801.0	3231.0	2324.4	1802.4	1659.0	1375.8	868.2
77.5°	1410.0	2046.0	2058.6	1906.2	1836.6	1369.2	555.6	306.6	341.4	387.6	345.6
80°	1051.8	1303.2	1510.2	1623.6	1657.2	1174.2	287.4	162.6	142.2	129.6	127.8
82.5°	948.6	1258.8	1411.2	1473.0	1457.4	966.0	161.4	109.2	90.6	98.4	112.2
85°	372.0	672.0	883.8	855.6	718.8	360.0	88.2	58.8	58.8	85.2	110.4
87.5°	76.2	138.0	187.2	178.8	160.8	69.6	43.2	35.4	36.0	69.0	104.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0	981.0
2.5°	974.4	970.8	968.4	966.0	963.6	962.4	960.6	960.6	957.0	955.8	954.6
5°	978.6	972.6	968.4	963.0	958.8	955.2	950.4	949.2	945.0	942.0	940.8
7.5°	996.6	987.6	978.6	972.0	966.0	958.2	952.8	948.0	943.8	940.8	937.2
10°	1030.8	1021.2	1008.6	996.6	988.8	976.8	968.4	960.0	955.2	951.6	946.8
12.5°	1081.2	1067.4	1052.4	1038.0	1024.8	1009.2	1000.8	990.6	984.6	981.6	978.0
15°	1132.8	1117.8	1099.2	1085.4	1070.4	1058.4	1050.6	1041.6	1036.8	1033.2	1030.8
17.5°	1185.6	1168.2	1155.0	1141.2	1134.0	1125.0	1114.8	1103.4	1089.6	1081.2	1069.8
20°	1239.6	1226.4	1218.6	1210.8	1202.4	1189.8	1169.4	1146.0	1120.2	1095.6	1072.2
22.5°	1302.6	1294.8	1293.6	1286.4	1269.0	1239.0	1201.2	1157.4	1113.6	1072.8	1041.0
25°	1391.4	1391.4	1385.4	1356.0	1315.2	1261.2	1197.6	1134.6	1076.4	1020.6	978.6
27.5°	1503.0	1498.8	1469.4	1408.8	1335.6	1251.6	1166.4	1086.6	1012.2	951.0	897.0
30°	1626.0	1596.6	1533.6	1438.2	1328.4	1220.4	1116.0	1023.6	936.0	861.0	797.4
32.5°	1753.8	1682.4	1569.0	1438.2	1303.2	1173.6	1053.0	939.6	839.4	755.4	679.8
35°	1869.6	1739.4	1577.4	1414.8	1254.0	1104.6	964.8	836.4	716.4	625.8	543.0
37.5°	1974.6	1777.2	1568.4	1369.2	1182.6	1007.4	843.6	702.0	566.4	478.8	408.0
40°	2043.0	1785.0	1531.2	1297.8	1080.6	876.0	694.8	536.4	429.0	349.2	301.8
42.5°	2085.6	1770.0	1471.2	1200.0	943.2	711.0	521.4	384.6	304.8	260.4	242.4
45°	2109.6	1731.0	1382.4	1066.2	777.0	540.6	370.2	277.8	234.6	219.0	213.0
47.5°	2108.4	1668.0	1271.4	911.4	593.4	376.8	262.2	216.6	204.6	199.8	198.6
50°	2095.8	1590.6	1141.2	743.4	428.4	262.8	207.6	194.4	191.4	188.4	187.2
52.5°	2078.4	1494.6	997.2	579.6	304.2	210.0	188.4	184.8	182.4	179.4	178.2
55°	2046.0	1376.4	841.2	436.2	238.2	189.6	181.8	180.6	177.6	173.4	171.0
57.5°	2006.4	1256.4	691.8	340.8	210.6	184.8	180.6	178.8	174.6	169.8	165.0
60°	1992.0	1157.4	574.8	287.4	204.0	186.6	183.6	181.2	175.2	168.0	162.6
62.5°	1902.0	1045.8	490.8	266.4	207.6	194.4	193.2	189.6	180.6	172.2	163.8
65°	1669.2	884.4	415.8	252.0	214.8	207.6	208.8	203.4	194.4	183.0	168.0
67°	1411.8	721.2	346.2	238.2	220.2	221.4	225.6	221.4	210.0	193.8	173.4
67.5°	1343.4	679.8	328.8	234.0	221.4	225.0	229.8	226.8	215.4	196.8	175.8
70°	998.4	478.8	245.4	211.8	221.4	235.8	246.6	249.6	237.0	211.2	180.6
72.5°	703.2	309.0	188.4	183.6	201.0	220.2	240.6	250.8	236.4	208.2	174.0
75°	422.4	193.2	153.0	156.0	169.2	189.0	205.2	209.4	191.4	173.4	150.6
77.5°	195.6	128.4	120.0	124.2	136.8	145.8	145.8	137.4	123.6	112.8	108.0
80°	115.2	105.0	104.4	112.2	120.6	114.0	103.8	92.4	85.2	81.6	79.8
82.5°	108.0	112.2	119.4	121.2	114.6	98.4	85.8	74.4	70.8	69.0	67.2
85°	127.2	136.2	124.2	114.6	101.4	82.8	67.2	57.6	55.8	54.0	51.6
87.5°	117.6	112.2	97.8	84.0	69.6	50.4	36.6	33.0	35.4	34.8	33.6
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):

	160°	165°	170°	175°	180°
0°	981.0	981.0	981.0	981.0	981.0
2.5°	955.2	955.2	952.8	951.6	954.6
5°	938.4	939.0	937.2	936.6	937.2
7.5°	934.8	934.2	933.0	931.8	933.0
10°	945.6	945.0	943.2	944.4	942.6
12.5°	978.0	981.6	981.0	982.2	984.6
15°	1030.8	1030.2	1028.4	1029.6	1031.4
17.5°	1060.8	1056.0	1051.8	1050.0	1050.0
20°	1053.6	1039.8	1032.6	1028.4	1027.2
22.5°	1011.0	991.2	976.2	972.6	969.6
25°	941.4	916.8	897.6	893.4	885.6
27.5°	860.4	827.4	804.6	799.8	795.6
30°	754.2	716.4	690.0	673.2	678.6
32.5°	624.6	588.6	558.0	531.0	526.8
35°	482.4	442.8	415.8	403.8	396.0
37.5°	360.0	327.0	309.0	297.6	298.2
40°	275.4	258.0	248.4	240.6	241.2
42.5°	229.8	222.0	219.6	216.0	214.2
45°	208.2	205.8	206.4	202.8	201.6
47.5°	196.2	194.4	195.0	192.6	192.0
50°	186.6	185.4	186.0	184.2	183.6
52.5°	177.0	177.6	177.0	175.8	175.8
55°	168.6	168.0	169.2	167.4	167.4
57.5°	162.0	161.4	161.4	160.8	160.8
60°	158.4	156.0	155.4	155.4	156.0
62.5°	156.6	152.4	151.8	151.8	152.4
65°	157.2	150.6	148.2	147.6	147.0
67°	157.8	148.2	143.4	141.0	140.4
67.5°	158.4	147.0	141.6	139.2	138.0
70°	154.8	138.6	130.8	126.6	125.4
72.5°	145.8	128.4	118.8	113.4	112.2
75°	129.6	116.4	108.0	102.0	99.6
77.5°	100.2	94.2	91.2	87.6	86.4
80°	78.0	75.0	73.8	71.4	70.8
82.5°	64.8	61.8	60.0	57.0	55.2
85°	50.4	46.8	45.6	43.2	42.0
87.5°	33.0	31.2	30.6	27.6	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)