

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: P157015

Luminaire Tested: **UTLD-F02-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157015
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33667)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F02-LED-E-U-RW
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4334.7 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 55
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



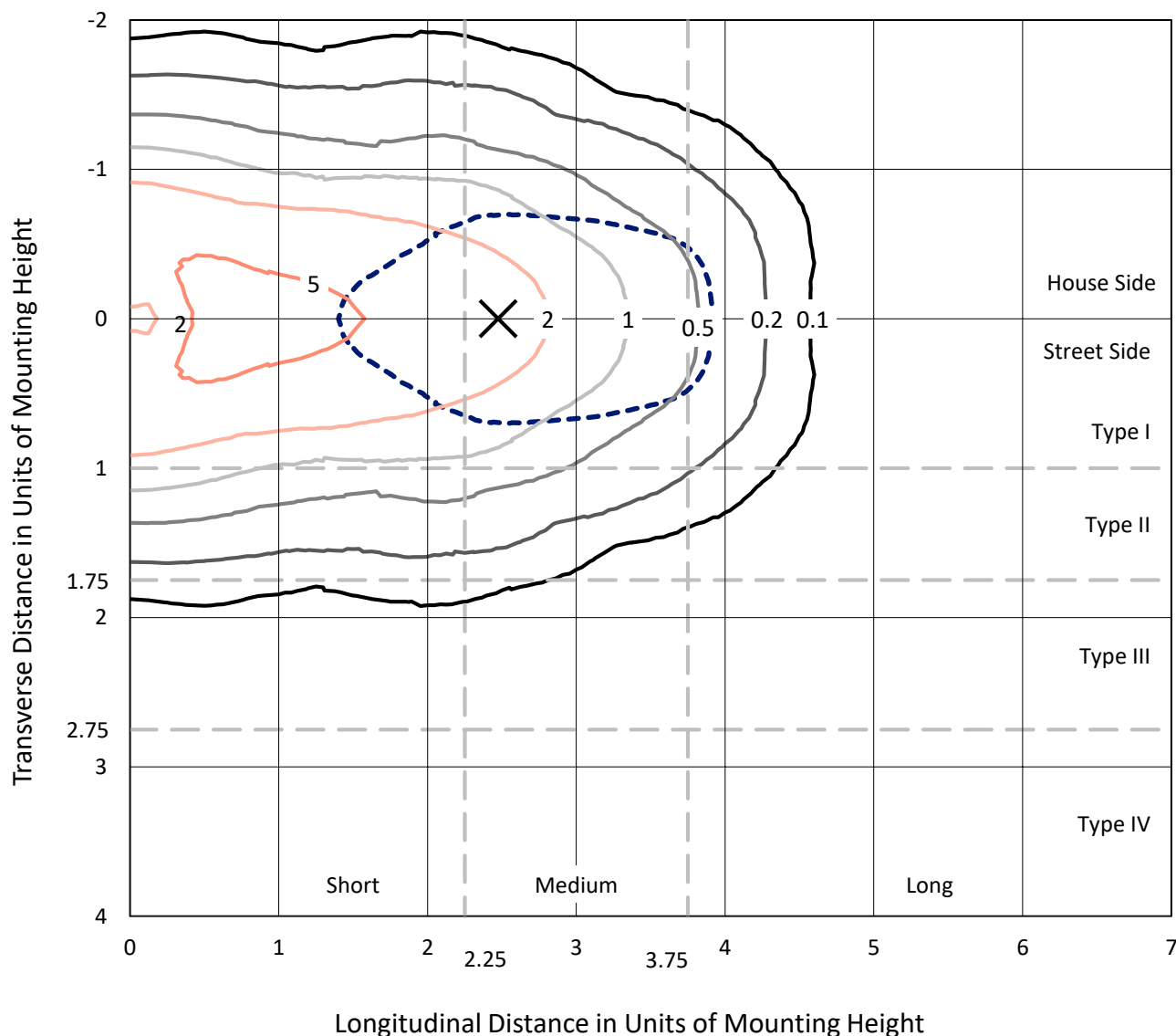
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

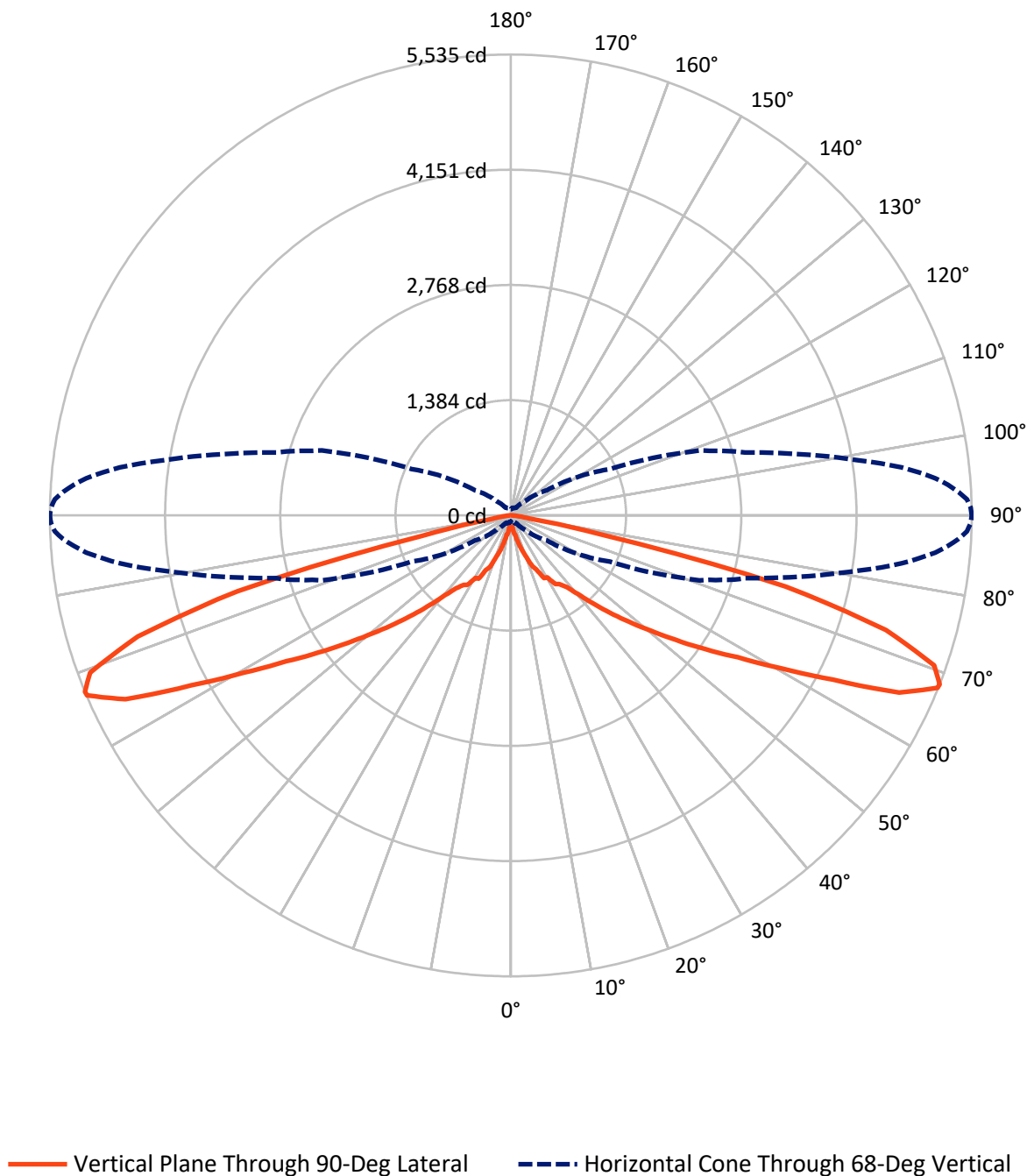


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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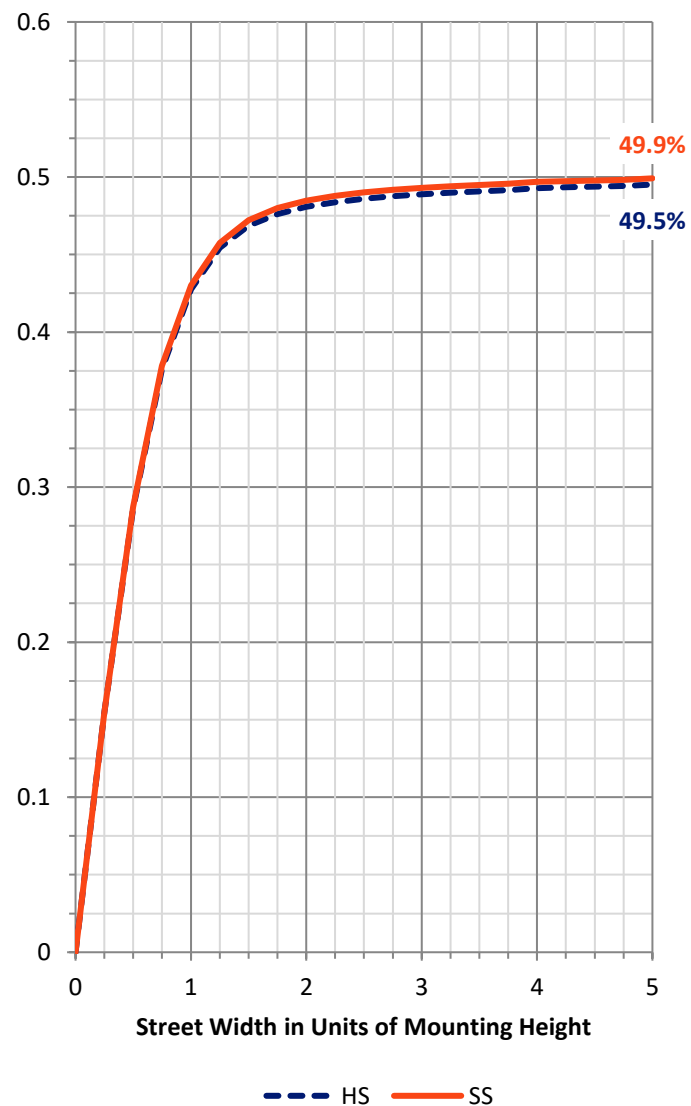
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.3	0.0	2167.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2167.3	0.0	2167.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4334.7	0.0	4334.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.4
10°-20°	113.5	2.6
20°-30°	310.2	7.2
30°-40°	510.6	11.8
40°-50°	685.8	15.8
50°-60°	861.6	19.9
60°-70°	1107.1	25.5
70°-80°	649.0	15.0
80°-90°	77.5	1.8
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°	4334.7	100.0
0°-180°	4334.7	100.0

Coefficient of Utilization



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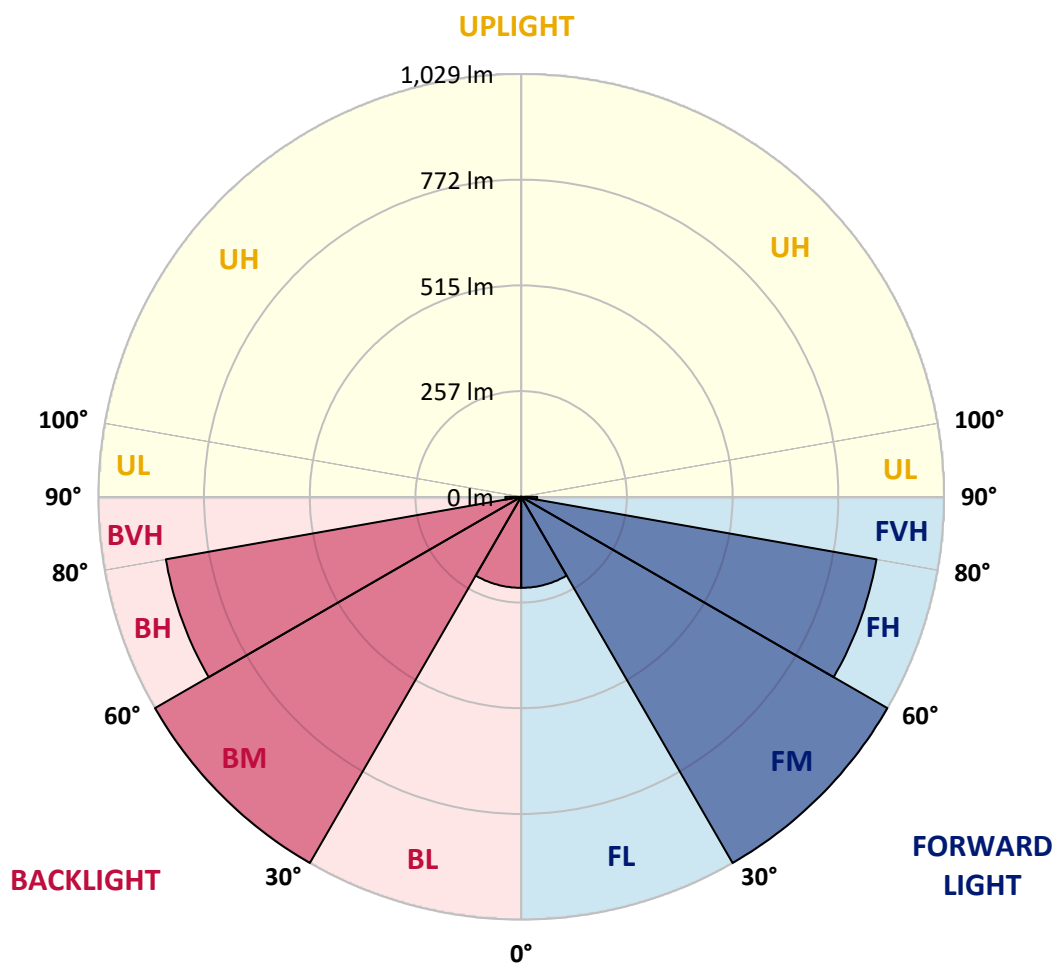
CATALOG NUMBER: UTLD-F02-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.5	5.1			
FM	(30°-60°)	1029.0	23.7			
FH	(60°-80°)	878.1	20.3			G1/1800
FVH	(80°-90°)	38.8	0.9			G1/100
BL	(0°-30°)	221.5	5.1	B1/500		
BM	(30°-60°)	1029.0	23.7	B2/2500		
BH	(60°-80°)	878.1	20.3	B2/1000		G1/1800
BVH	(80°-90°)	38.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7
2.5°	181.6	184.1	175.4	181.6	184.1	186.6	187.4	174.6	172.5	170.5	168.4
5°	169.2	173.4	169.6	170.9	175.8	210.5	206.0	178.7	179.3	179.9	180.4
7.5°	250.6	255.1	241.8	222.4	217.6	179.6	167.2	201.9	197.1	192.4	187.7
10°	279.4	271.6	271.6	270.8	265.0	227.0	236.9	249.3	257.9	266.5	275.1
12.5°	365.3	366.1	353.8	320.3	305.0	350.8	322.8	270.8	269.1	267.5	265.8
15°	413.2	408.7	375.6	371.5	442.9	400.8	368.6	411.5	404.0	396.5	389.0
17.5°	464.0	465.6	462.3	424.8	462.7	456.1	474.3	450.7	443.5	436.3	429.2
20°	502.3	503.6	500.6	527.9	527.5	538.7	503.6	551.4	559.4	567.3	575.2
22.5°	532.4	535.4	534.6	568.0	601.0	581.2	657.1	648.4	646.0	643.5	641.0
25°	580.8	581.2	556.8	585.7	639.4	675.3	713.7	774.8	781.5	788.3	795.1
27.5°	592.8	595.2	570.4	620.8	643.4	740.9	864.8	847.0	840.7	834.5	828.2
30°	588.6	594.0	608.8	634.0	690.6	778.8	870.5	936.2	931.7	927.2	922.8
32.5°	602.2	606.4	591.9	620.4	690.6	798.7	932.0	964.2	974.7	985.2	995.7
35°	583.2	587.4	581.6	609.2	675.3	771.4	924.6	1067.4	1064.1	1060.8	1057.5
37.5°	572.5	572.1	570.4	598.1	663.7	764.0	964.2	1093.4	1098.0	1102.5	1107.0
40°	544.8	548.6	547.8	572.9	634.0	752.9	950.6	1128.9	1145.0	1161.1	1177.2
42.5°	487.8	490.8	499.8	535.0	599.8	726.8	939.4	1179.6	1200.3	1220.9	1241.6
45°	435.0	435.5	447.8	482.5	549.4	690.6	940.7	1242.0	1264.0	1285.9	1307.9
47.5°	381.4	383.0	396.7	431.8	491.6	641.0	935.8	1300.2	1328.8	1357.3	1385.9
50°	328.6	331.9	348.8	384.3	439.2	578.2	912.2	1365.4	1401.0	1436.6	1472.1
52.5°	273.7	277.0	296.8	336.4	393.0	520.0	859.4	1426.5	1473.2	1519.9	1566.7
55°	213.0	218.8	241.9	280.7	345.5	468.9	776.8	1481.8	1541.3	1600.8	1660.4
57.5°	156.0	159.4	182.4	222.9	293.4	421.8	686.8	1495.4	1570.8	1646.2	1721.6
60°	111.4	115.2	136.2	167.6	234.0	374.4	613.0	1459.6	1556.2	1652.9	1749.5
62.5°	91.6	94.5	113.1	128.8	179.2	323.2	561.8	1408.3	1535.2	1662.1	1789.0
65°	83.0	85.0	103.6	109.4	137.8	275.4	537.4	1392.6	1551.2	1709.6	1868.2
67.5°	75.9	79.3	96.2	99.1	117.2	248.9	529.2	1351.8	1526.8	1701.8	1876.8
68°	74.7	78.0	94.6	97.4	115.2	245.6	523.8	1316.3	1491.9	1667.5	1843.1
70°	70.6	73.5	88.3	91.2	112.2	229.5	465.2	1115.3	1279.1	1442.9	1606.6
72.5°	65.6	67.3	80.9	84.2	101.1	167.2	338.9	750.0	887.8	1025.6	1163.3
75°	57.4	60.2	73.0	77.6	78.0	100.7	214.2	439.6	531.1	622.5	714.0
77.5°	49.5	52.4	63.6	77.2	64.4	70.2	137.4	261.3	302.6	343.9	385.1
80°	42.9	46.2	56.6	79.2	55.7	58.2	108.2	213.4	233.4	253.4	273.3
82.5°	33.0	36.7	49.5	71.8	46.2	47.1	87.5	203.1	218.1	233.1	248.2
85°	21.5	24.0	39.2	54.9	35.9	29.7	61.9	166.4	177.4	188.5	199.5
87.5°	10.3	15.7	27.2	28.4	21.9	16.1	34.2	101.1	109.4	117.8	126.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7
2.5°	166.4	164.3	163.4	160.2	157.3	155.2	153.2	151.1	148.6	146.5	146.5
5°	181.0	181.6	184.1	184.1	184.1	182.8	180.4	177.9	176.6	171.3	165.6
7.5°	183.0	178.3	168.8	167.6	170.8	175.4	176.6	178.3	179.6	178.7	177.9
10°	283.7	292.2	293.0	290.2	288.1	279.8	272.8	259.2	260.4	267.4	270.0
12.5°	264.2	262.6	267.9	282.8	298.8	300.9	302.5	300.5	293.9	282.4	270.8
15°	381.5	374.0	374.0	373.2	370.6	367.0	373.2	386.8	391.7	390.9	389.6
17.5°	422.0	414.8	409.9	393.0	382.2	378.5	375.6	377.7	381.4	397.1	408.2
20°	583.1	591.0	600.6	593.6	589.4	578.3	563.8	559.7	556.4	560.1	563.8
22.5°	638.6	636.1	640.6	617.5	660.8	652.2	660.0	674.9	665.8	659.2	653.0
25°	801.8	808.6	801.6	799.1	785.9	776.0	782.2	779.7	760.3	749.2	751.6
27.5°	821.9	815.6	805.7	801.2	799.1	814.8	829.6	807.0	852.0	840.8	859.0
30°	918.3	913.8	899.8	896.5	907.6	901.0	885.4	886.6	889.5	889.1	880.0
32.5°	1006.2	1016.6	1008.0	1031.5	1022.4	1003.4	1005.9	1018.3	1015.0	1001.0	995.6
35°	1054.2	1050.9	1069.8	1071.6	1051.8	1050.5	1059.9	1058.7	1047.6	1049.6	1050.1
37.5°	1111.6	1116.2	1134.2	1115.7	1117.8	1128.9	1130.2	1118.2	1119.4	1124.4	1129.3
40°	1193.3	1209.4	1196.6	1194.6	1211.9	1230.8	1219.3	1220.1	1230.0	1242.4	1231.3
42.5°	1262.2	1282.8	1278.3	1300.2	1326.6	1337.4	1344.8	1365.0	1386.4	1379.0	1405.5
45°	1329.8	1351.8	1372.0	1413.7	1440.9	1449.6	1491.3	1522.6	1533.4	1551.6	1585.8
47.5°	1414.4	1443.0	1485.9	1530.6	1546.6	1591.6	1640.8	1670.0	1690.2	1745.6	1761.6
50°	1507.7	1543.3	1599.8	1637.4	1668.8	1725.8	1782.7	1809.6	1875.2	1914.0	1946.6
52.5°	1613.4	1660.1	1716.2	1741.0	1795.1	1872.7	1908.2	1956.5	2029.6	2077.4	2155.4
55°	1719.9	1779.4	1818.2	1862.4	1926.0	1994.5	2028.7	2120.4	2173.6	2253.7	2358.9
57.5°	1796.9	1872.3	1902.8	1975.5	2049.8	2089.0	2164.9	2247.9	2312.7	2443.6	2550.4
60°	1846.2	1942.8	2005.2	2089.4	2161.2	2212.0	2316.4	2394.4	2509.2	2657.0	2784.5
62.5°	1915.9	2042.8	2155.8	2269.4	2311.0	2415.0	2521.1	2614.8	2798.5	2961.5	3124.6
65°	2026.6	2185.2	2348.2	2470.4	2553.4	2691.2	2803.1	2956.6	3163.0	3369.4	3557.2
67.5°	2051.8	2226.9	2425.8	2536.4	2672.2	2815.0	2930.2	3135.0	3340.5	3558.4	3782.2
68°	2018.7	2194.2	2396.9	2508.8	2651.2	2794.4	2913.7	3116.4	3321.9	3538.6	3766.9
70°	1770.4	1934.2	2121.6	2257.8	2422.5	2535.2	2690.4	2879.8	3073.8	3300.4	3531.6
72.5°	1301.1	1438.9	1617.6	1751.4	1927.2	2023.0	2177.3	2340.4	2532.3	2756.0	2986.4
75°	805.4	896.9	1038.6	1158.6	1282.0	1373.6	1509.0	1657.6	1803.0	1980.4	2182.2
77.5°	426.4	467.7	551.0	610.5	674.4	717.4	761.2	848.2	888.2	936.2	1000.1
80°	293.3	313.3	341.8	357.9	350.4	320.8	279.8	265.8	253.0	235.7	219.6
82.5°	263.2	278.2	296.8	312.0	312.8	284.8	233.6	196.0	169.6	144.0	124.2
85°	210.6	221.6	233.6	246.0	258.0	240.2	203.1	159.3	123.0	98.6	84.6
87.5°	134.5	142.8	150.6	165.1	171.3	166.4	147.8	117.2	87.1	66.8	55.7
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7
2.5°	142.4	142.4	141.6	140.8	139.5	138.6	138.2	138.7	138.3	137.9	137.9
5°	161.0	155.6	150.7	147.8	144.5	142.8	144.4	141.1	140.0	139.1	139.5
7.5°	177.9	177.0	175.4	168.0	156.8	146.9	142.4	140.8	140.8	140.4	140.3
10°	270.8	268.3	264.2	259.6	255.9	244.8	231.6	226.6	223.3	222.9	222.1
12.5°	272.8	277.8	279.4	279.5	275.7	273.6	260.9	246.8	239.0	238.6	237.8
15°	379.7	362.8	366.6	372.3	371.5	371.1	371.9	355.0	343.8	342.2	341.8
17.5°	406.2	414.0	394.2	436.7	414.4	438.8	427.2	450.8	432.6	440.4	442.5
20°	575.0	572.9	570.0	561.8	560.5	567.6	575.0	568.8	551.0	541.5	535.8
22.5°	657.2	670.4	676.1	674.0	666.2	662.5	661.2	656.7	654.2	658.3	662.1
25°	756.2	750.4	757.0	756.6	749.6	744.2	752.9	758.2	757.4	736.3	721.5
27.5°	856.4	845.4	843.3	844.1	851.6	849.9	852.0	847.4	839.6	845.0	851.9
30°	870.9	866.4	872.6	865.6	868.0	864.4	858.2	853.6	872.6	869.7	862.7
32.5°	993.5	998.0	984.4	981.2	980.7	968.3	969.2	978.6	974.2	980.4	981.5
35°	1051.8	1039.4	1035.6	1027.8	1015.8	1027.0	1022.8	1021.6	1020.8	1020.0	1014.6
37.5°	1119.0	1128.1	1117.4	1105.0	1118.2	1111.6	1107.0	1105.8	1103.8	1096.3	1094.6
40°	1240.8	1250.6	1242.0	1258.1	1255.2	1258.9	1250.6	1247.4	1239.1	1243.2	1239.9
42.5°	1408.8	1411.6	1436.8	1454.2	1453.4	1453.3	1448.4	1448.0	1431.5	1433.2	1440.5
45°	1591.6	1626.3	1648.2	1668.8	1676.2	1678.7	1669.6	1678.7	1666.0	1651.0	1665.1
47.5°	1796.8	1843.4	1872.7	1893.8	1904.1	1902.4	1911.1	1907.0	1900.8	1911.1	1907.8
50°	2023.0	2063.8	2107.2	2125.0	2130.7	2144.8	2160.4	2173.2	2179.0	2167.4	2175.3
52.5°	2227.2	2291.7	2342.0	2368.4	2394.0	2413.4	2440.6	2465.9	2475.4	2484.0	2484.8
55°	2447.6	2532.7	2590.1	2635.9	2678.4	2715.1	2756.4	2789.0	2815.4	2834.0	2836.5
57.5°	2657.0	2751.9	2826.6	2914.1	2966.1	3037.1	3090.8	3143.6	3193.1	3204.7	3213.8
60°	2920.3	3037.1	3158.9	3245.6	3349.2	3460.2	3532.8	3607.6	3636.8	3691.8	3722.3
62.5°	3282.7	3418.9	3590.2	3721.5	3865.1	4003.0	4126.8	4219.3	4263.8	4323.7	4345.6
65°	3759.9	3974.1	4152.0	4361.6	4540.8	4708.0	4855.4	4985.4	5048.1	5118.6	5126.5
67.5°	4005.4	4238.2	4487.5	4726.5	4919.7	5113.7	5256.2	5379.5	5477.3	5514.9	5528.5
68°	3996.0	4230.0	4490.0	4730.2	4928.4	5117.8	5261.5	5386.1	5480.6	5522.0	5535.1
70°	3794.2	4019.4	4319.6	4552.0	4757.5	4962.2	5098.8	5223.1	5304.4	5351.0	5394.0
72.5°	3217.9	3484.2	3746.6	3965.0	4185.8	4354.6	4458.7	4596.6	4636.5	4692.3	4709.6
75°	2369.2	2599.6	2784.5	2920.7	3079.2	3195.2	3286.8	3286.8	3339.6	3348.7	3407.8
77.5°	1092.6	1107.4	1137.2	1115.7	1134.7	1166.4	1127.7	1083.5	1112.0	1036.4	1103.7
80°	226.2	213.0	219.6	212.2	213.8	217.1	223.3	220.0	219.6	216.2	220.4
82.5°	113.1	111.9	112.3	112.7	112.6	112.7	113.1	113.1	113.9	112.2	112.3
85°	76.4	73.0	73.5	71.8	71.0	70.6	68.1	65.6	66.8	66.1	62.7
87.5°	49.6	45.8	44.2	42.2	40.0	38.4	36.3	33.8	31.0	30.1	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)