

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: P157011

Luminaire Tested: **UTLD-E02-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157011
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-E02-LED-E-U-RW-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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

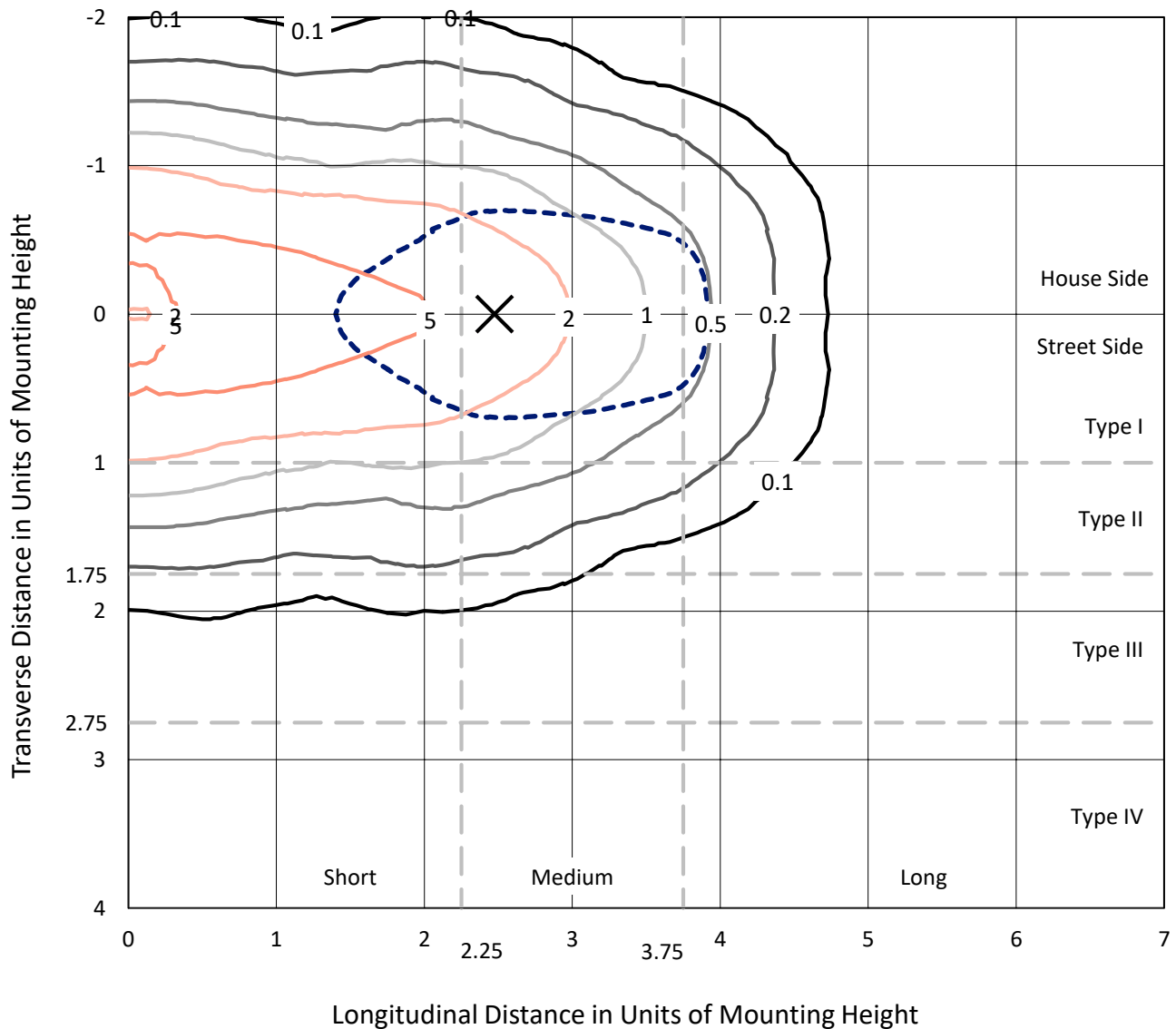


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

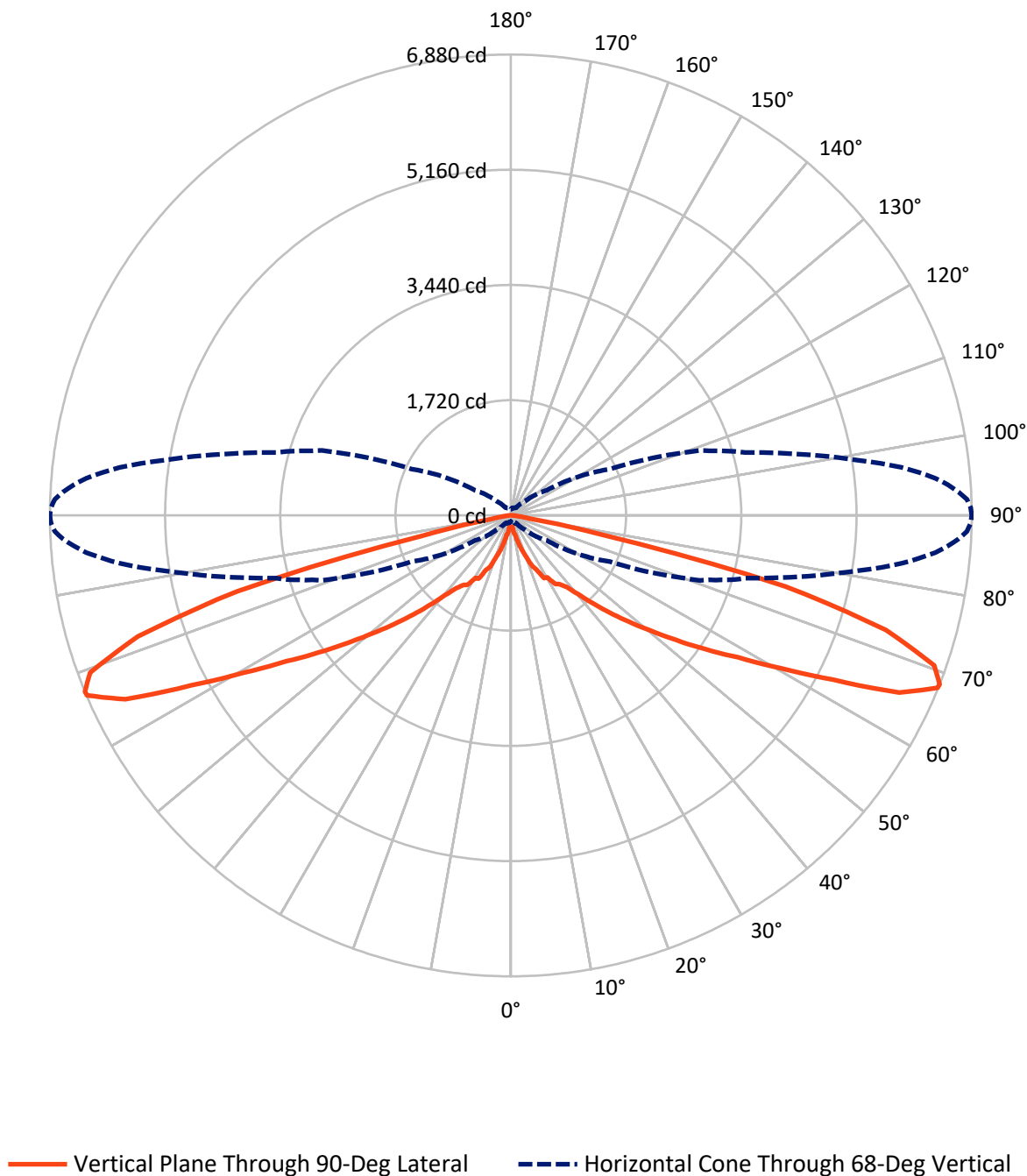


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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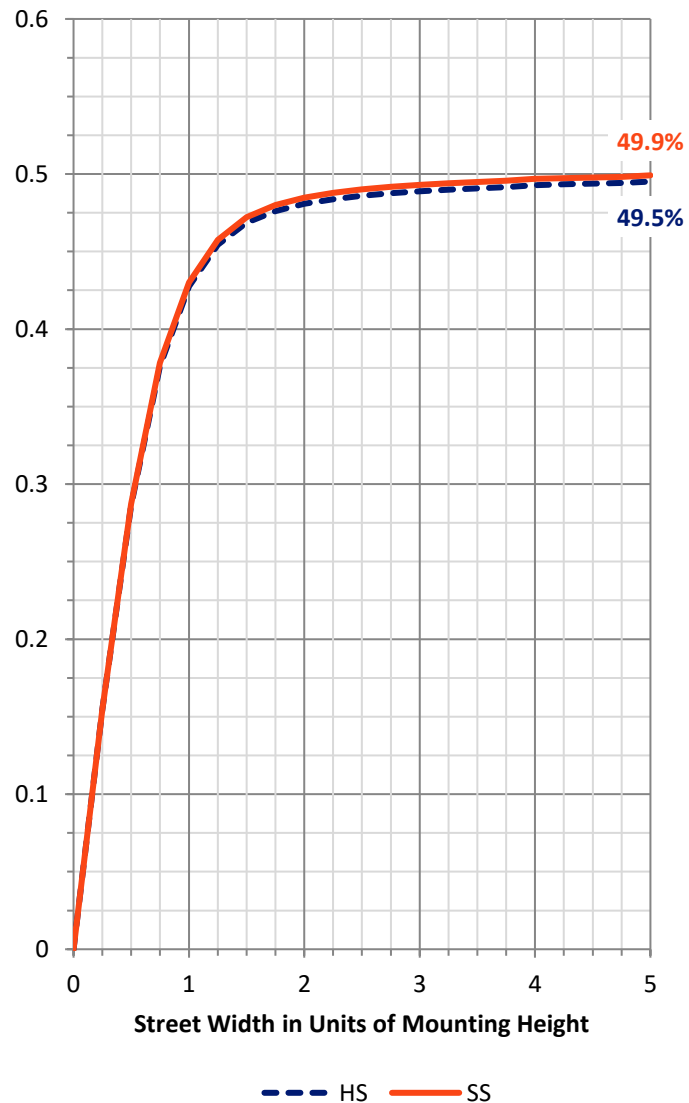
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2694.0	0.0	2694.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2694.0	0.0	2694.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5387.9	0.0	5387.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.4
10°-20°	141.0	2.6
20°-30°	385.6	7.2
30°-40°	634.7	11.8
40°-50°	852.5	15.8
50°-60°	1070.9	19.9
60°-70°	1376.0	25.5
70°-80°	806.8	15.0
80°-90°	96.4	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°	5387.9	100.0
0°-180°	5387.9	100.0

Coefficient of Utilization



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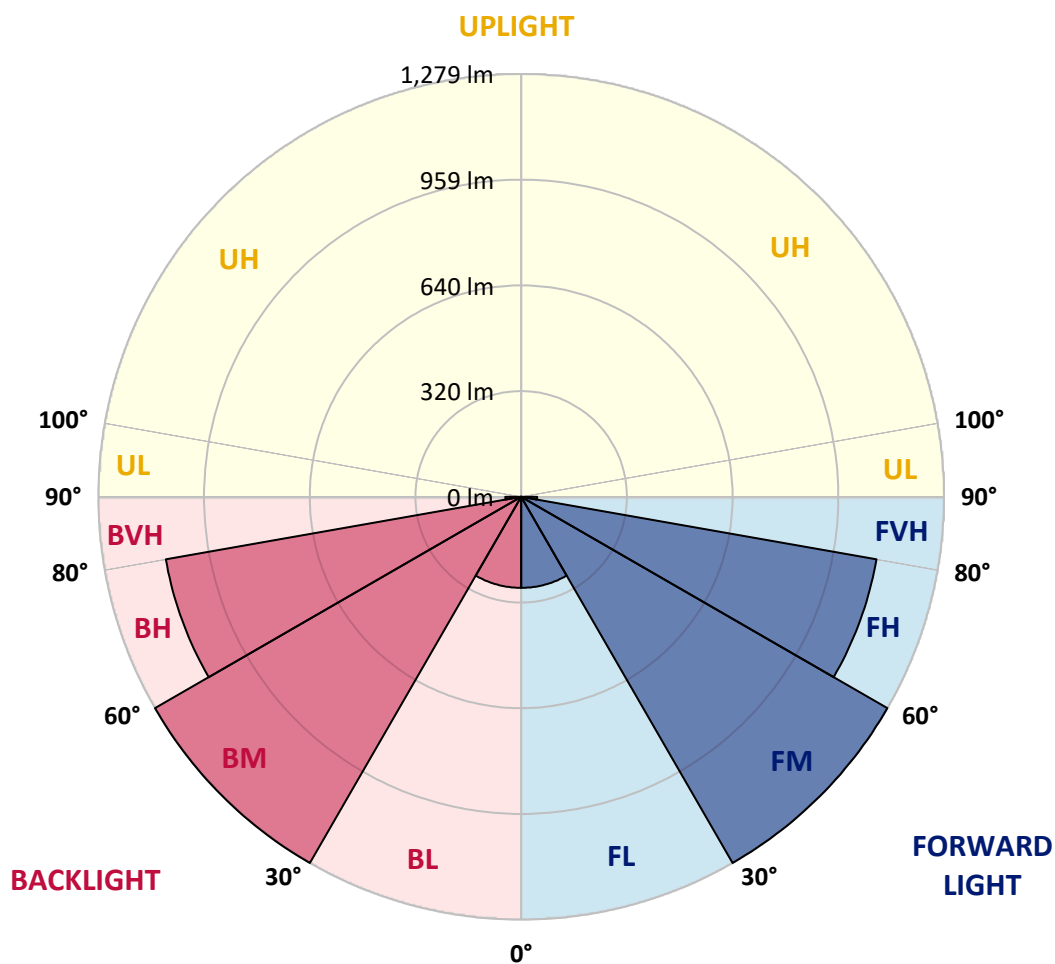
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.3	5.1			
FM	(30°-60°)	1279.0	23.7			
FH	(60°-80°)	1091.4	20.3			G1/1800
FVH	(80°-90°)	48.2	0.9			G1/100
BL	(0°-30°)	275.3	5.1	B1/500		
BM	(30°-60°)	1279.0	23.7	B2/2500		
BH	(60°-80°)	1091.4	20.3	B3/2500		G1/1800
BVH	(80°-90°)	48.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
2.5°	225.8	228.8	218.0	225.8	228.8	231.9	232.9	217.0	214.5	211.9	209.3
5°	210.4	215.4	210.8	212.4	218.6	261.6	256.0	222.2	222.9	223.6	224.3
7.5°	311.4	317.1	300.6	276.5	270.4	223.2	207.8	250.9	245.0	239.2	233.3
10°	347.4	337.6	337.6	336.6	329.4	282.2	294.5	309.9	320.6	331.2	341.9
12.5°	454.0	455.1	439.6	398.1	379.2	436.0	401.2	336.6	334.5	332.4	330.4
15°	513.6	507.9	466.8	461.8	550.5	498.2	458.2	511.5	502.2	492.8	483.5
17.5°	576.7	578.8	574.7	527.9	575.2	566.9	589.5	560.2	551.3	542.4	533.5
20°	624.4	625.9	622.3	656.2	655.7	669.6	625.9	685.4	695.3	705.2	715.0
22.5°	661.8	665.4	664.4	706.0	747.0	722.4	816.8	806.0	802.9	799.8	796.8
25°	721.8	722.3	692.1	728.0	794.7	839.4	887.1	963.0	971.4	979.8	988.3
27.5°	736.8	739.8	709.0	771.7	799.8	920.9	1074.8	1052.8	1045.0	1037.2	1029.4
30°	731.6	738.3	756.8	788.0	858.4	968.2	1082.0	1163.6	1158.1	1152.6	1147.0
32.5°	748.6	753.6	735.7	771.1	858.4	992.8	1158.5	1198.5	1211.5	1224.6	1237.6
35°	724.9	730.1	722.9	757.3	839.4	958.9	1149.2	1326.8	1322.6	1318.5	1314.4
37.5°	711.6	711.1	709.0	743.4	825.0	949.6	1198.5	1359.1	1364.7	1370.4	1376.0
40°	677.2	681.8	680.8	712.1	788.0	935.8	1181.6	1403.2	1423.2	1443.2	1463.2
42.5°	606.4	610.0	621.3	664.9	745.4	903.5	1167.7	1466.3	1492.0	1517.6	1543.3
45°	540.8	541.3	556.6	599.8	682.8	858.4	1169.2	1543.8	1571.0	1598.4	1625.6
47.5°	474.0	476.2	493.0	536.6	611.0	796.8	1163.1	1616.1	1651.6	1687.1	1722.6
50°	408.4	412.5	433.6	477.6	545.8	718.8	1133.8	1697.2	1741.4	1785.6	1829.9
52.5°	340.2	344.2	368.8	418.1	488.4	646.4	1068.2	1773.2	1831.2	1889.3	1947.4
55°	264.8	272.0	300.6	348.8	429.4	582.8	965.6	1841.8	1915.8	1989.8	2063.8
57.5°	194.0	198.0	226.8	277.0	364.8	524.3	853.7	1858.8	1952.5	2046.2	2139.9
60°	138.6	143.1	169.3	208.3	290.9	465.3	761.9	1814.2	1934.3	2054.4	2174.6
62.5°	113.9	117.5	140.6	160.0	222.6	401.7	698.3	1750.6	1908.3	2066.0	2223.7
65°	103.1	105.7	128.8	136.0	171.4	342.2	668.0	1731.0	1928.1	2125.1	2322.1
67.5°	94.4	98.5	119.6	123.2	145.7	309.4	657.7	1680.2	1897.8	2115.3	2332.9
68°	92.9	97.0	117.4	121.1	143.1	305.2	651.0	1636.1	1854.4	2072.6	2290.9
70°	87.7	91.3	109.8	113.4	139.6	285.2	578.2	1386.2	1589.8	1793.4	1997.0
72.5°	81.6	83.6	100.6	104.7	125.7	207.8	421.2	932.2	1103.5	1274.7	1446.0
75°	71.3	74.9	90.8	96.5	97.0	125.2	266.3	546.4	660.1	773.8	887.5
77.5°	61.6	65.2	79.0	96.0	80.0	87.2	170.9	324.8	376.1	427.4	478.7
80°	53.4	57.5	70.3	98.5	69.2	72.4	134.4	265.2	290.1	314.9	339.8
82.5°	41.0	45.7	61.6	89.3	57.4	58.5	108.8	252.4	271.1	289.8	308.4
85°	26.6	29.8	48.8	68.2	44.7	37.0	77.0	206.8	220.5	234.3	248.0
87.5°	12.8	19.5	33.9	35.4	27.2	20.0	42.6	125.7	136.1	146.4	156.8
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
2.5°	206.8	204.2	203.2	199.1	195.5	193.0	190.4	187.8	184.7	182.1	182.1
5°	225.0	225.7	228.8	228.8	228.8	227.3	224.2	221.2	219.6	212.9	205.8
7.5°	227.5	221.6	209.8	208.3	212.4	218.0	219.6	221.6	223.2	222.2	221.1
10°	352.6	363.2	364.2	360.6	358.1	347.8	339.2	322.2	323.7	332.5	335.6
12.5°	328.4	326.3	333.0	351.4	371.4	374.0	376.0	373.5	365.3	351.0	336.6
15°	474.1	464.8	464.8	463.8	460.8	456.1	463.8	480.8	486.9	485.8	484.4
17.5°	524.5	515.6	509.4	488.4	475.0	470.4	466.8	469.4	474.0	493.6	507.4
20°	724.8	734.7	746.5	737.8	732.6	718.8	700.8	695.7	691.6	696.2	700.8
22.5°	793.7	790.6	796.2	767.5	821.4	810.6	820.4	838.8	827.6	819.4	811.6
25°	996.7	1005.1	996.4	993.3	976.8	964.6	972.2	969.2	945.0	931.2	934.2
27.5°	1021.6	1013.8	1001.4	995.8	993.2	1012.8	1031.2	1003.0	1058.9	1045.1	1067.6
30°	1141.4	1135.9	1118.4	1114.4	1128.2	1120.0	1100.5	1102.0	1105.6	1105.1	1093.8
32.5°	1250.6	1263.6	1252.9	1282.1	1270.8	1247.2	1250.3	1265.7	1261.6	1244.2	1237.4
35°	1310.3	1306.2	1329.8	1331.8	1307.2	1305.7	1317.6	1316.0	1302.1	1304.7	1305.2
37.5°	1381.6	1387.3	1409.8	1386.8	1389.4	1403.2	1404.8	1389.8	1391.4	1397.6	1403.7
40°	1483.2	1503.2	1487.3	1484.8	1506.3	1529.9	1515.6	1516.6	1528.9	1544.3	1530.4
42.5°	1568.9	1594.6	1588.9	1616.1	1649.0	1662.3	1671.6	1696.6	1723.4	1714.1	1746.9
45°	1653.0	1680.2	1705.4	1757.2	1791.0	1801.8	1853.6	1892.6	1906.0	1928.6	1971.2
47.5°	1758.1	1793.6	1847.0	1902.4	1922.4	1978.3	2039.4	2075.8	2101.0	2169.7	2189.8
50°	1874.1	1918.3	1988.6	2035.3	2074.2	2145.0	2215.8	2249.2	2330.8	2379.0	2419.6
52.5°	2005.4	2063.5	2133.2	2164.0	2231.2	2327.7	2371.8	2431.9	2522.7	2582.2	2679.2
55°	2137.8	2211.8	2260.0	2314.9	2393.9	2479.0	2521.6	2635.6	2701.8	2801.2	2932.1
57.5°	2233.6	2327.2	2365.2	2455.4	2547.8	2596.6	2691.0	2794.1	2874.6	3037.3	3170.2
60°	2294.8	2414.9	2492.4	2597.0	2686.4	2749.4	2879.2	2976.2	3118.8	3302.6	3461.0
62.5°	2381.4	2539.1	2679.6	2820.8	2872.6	3001.9	3133.8	3250.2	3478.5	3681.2	3883.8
65°	2519.1	2716.2	2918.8	3070.6	3173.7	3345.1	3484.1	3675.0	3931.6	4188.0	4421.4
67.5°	2550.4	2768.0	3015.2	3152.7	3321.5	3499.0	3642.2	3896.6	4152.2	4423.0	4701.1
68°	2509.1	2727.4	2979.3	3118.3	3295.4	3473.4	3621.6	3873.6	4129.0	4398.4	4682.2
70°	2200.6	2404.1	2637.1	2806.4	3011.1	3151.1	3344.0	3579.6	3820.7	4102.4	4389.6
72.5°	1617.2	1788.5	2010.6	2176.9	2395.4	2514.4	2706.4	2909.0	3147.6	3425.6	3712.0
75°	1001.2	1114.8	1290.8	1440.1	1593.6	1707.4	1875.7	2060.4	2241.0	2461.6	2712.5
77.5°	530.0	581.3	685.0	758.8	838.4	891.6	946.0	1054.4	1104.1	1163.6	1243.1
80°	364.6	389.4	424.8	444.8	435.6	398.7	347.8	330.5	314.5	293.0	273.0
82.5°	327.1	345.8	368.8	387.9	388.9	354.0	290.4	243.7	210.9	179.0	154.4
85°	261.8	275.5	290.4	305.8	320.6	298.6	252.4	198.0	152.9	122.6	105.2
87.5°	167.1	177.5	187.2	205.2	212.9	206.8	183.6	145.7	108.2	83.2	69.3
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
2.5°	177.0	177.0	176.0	175.0	173.4	172.4	171.8	172.4	171.9	171.4	171.4
5°	200.1	193.4	187.3	183.7	179.6	177.5	179.6	175.4	174.0	172.9	173.4
7.5°	221.1	220.1	218.0	208.8	195.0	182.6	177.0	175.0	175.0	174.4	174.4
10°	336.6	333.5	328.4	322.8	318.1	304.2	287.8	281.7	277.6	277.0	276.0
12.5°	339.2	345.3	347.4	347.3	342.7	340.2	324.2	306.8	297.0	296.6	295.5
15°	472.0	451.0	455.6	462.8	461.8	461.2	462.2	441.2	427.4	425.3	424.8
17.5°	504.8	514.6	490.0	542.8	515.1	545.3	531.0	560.2	537.7	547.4	550.0
20°	714.7	712.1	708.6	698.2	696.7	705.4	714.7	707.0	685.0	673.1	665.9
22.5°	816.8	833.2	840.4	837.8	828.0	823.4	821.9	816.2	813.2	818.3	822.9
25°	940.0	932.8	941.0	940.4	931.7	925.0	935.8	942.5	941.4	915.3	896.8
27.5°	1064.6	1050.7	1048.2	1049.2	1058.4	1056.4	1059.0	1053.3	1043.6	1050.2	1058.9
30°	1082.6	1076.9	1084.6	1075.9	1079.0	1074.4	1066.6	1061.0	1084.6	1081.0	1072.3
32.5°	1234.9	1240.6	1223.6	1219.6	1219.0	1203.6	1204.6	1216.4	1210.8	1218.5	1220.0
35°	1307.2	1291.8	1287.2	1277.5	1262.6	1276.5	1271.4	1269.8	1268.8	1267.8	1261.1
37.5°	1390.8	1402.2	1388.8	1373.4	1389.8	1381.6	1376.0	1374.4	1371.9	1362.6	1360.6
40°	1542.2	1554.6	1543.8	1563.8	1560.2	1564.8	1554.6	1550.4	1540.2	1545.3	1541.2
42.5°	1751.0	1754.6	1785.9	1807.5	1806.4	1806.4	1800.3	1799.8	1779.2	1781.3	1790.6
45°	1978.4	2021.4	2048.6	2074.2	2083.6	2086.6	2075.3	2086.6	2070.6	2052.2	2069.7
47.5°	2233.3	2291.3	2327.7	2353.8	2366.7	2364.6	2375.4	2370.3	2362.6	2375.4	2371.3
50°	2514.5	2565.2	2619.2	2641.2	2648.4	2665.8	2685.4	2701.2	2708.4	2694.0	2703.8
52.5°	2768.4	2848.4	2911.1	2943.9	2975.7	2999.8	3033.6	3065.0	3076.8	3087.6	3088.6
55°	3042.4	3148.1	3219.4	3276.4	3329.2	3374.8	3426.2	3466.7	3499.6	3522.6	3525.7
57.5°	3302.5	3420.5	3513.4	3622.2	3686.8	3775.0	3841.8	3907.4	3969.0	3983.3	3994.6
60°	3629.8	3775.0	3926.4	4034.2	4162.9	4301.0	4391.2	4484.1	4520.6	4588.8	4626.7
62.5°	4080.3	4249.6	4462.5	4625.7	4804.2	4975.6	5129.5	5244.4	5299.8	5374.2	5401.4
65°	4673.4	4939.7	5160.8	5421.5	5644.0	5851.8	6035.0	6196.6	6274.6	6362.4	6372.1
67.5°	4978.6	5268.0	5577.9	5875.0	6115.0	6356.2	6533.2	6686.6	6808.2	6854.9	6871.8
68°	4966.9	5257.8	5581.0	5879.5	6125.8	6361.3	6539.9	6694.8	6812.3	6863.6	6880.0
70°	4716.0	4996.1	5369.1	5657.9	5913.4	6167.9	6337.7	6492.2	6593.2	6651.2	6704.6
72.5°	3999.8	4330.7	4657.0	4928.4	5202.8	5412.7	5542.0	5713.4	5763.1	5832.4	5853.9
75°	2944.9	3231.2	3461.0	3630.4	3827.4	3971.6	4085.4	4085.4	4151.1	4162.4	4235.8
77.5°	1358.1	1376.6	1413.5	1386.8	1410.4	1449.9	1401.6	1346.8	1382.2	1288.3	1371.9
80°	281.2	264.8	273.0	263.7	265.8	269.9	277.6	273.4	273.0	268.8	274.0
82.5°	140.6	139.0	139.6	140.1	140.0	140.1	140.6	140.6	141.6	139.6	139.6
85°	94.9	90.8	91.3	89.2	88.2	87.8	84.6	81.6	83.2	82.0	78.0
87.5°	61.6	57.0	54.9	52.4	49.8	47.7	45.2	42.0	38.4	37.4	35.9
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)