

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: P157008

Luminaire Tested: **UTLD-E02-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157008
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-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4431.6 lumens
Efficiency: N/A
Efficacy: 85.1 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): 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

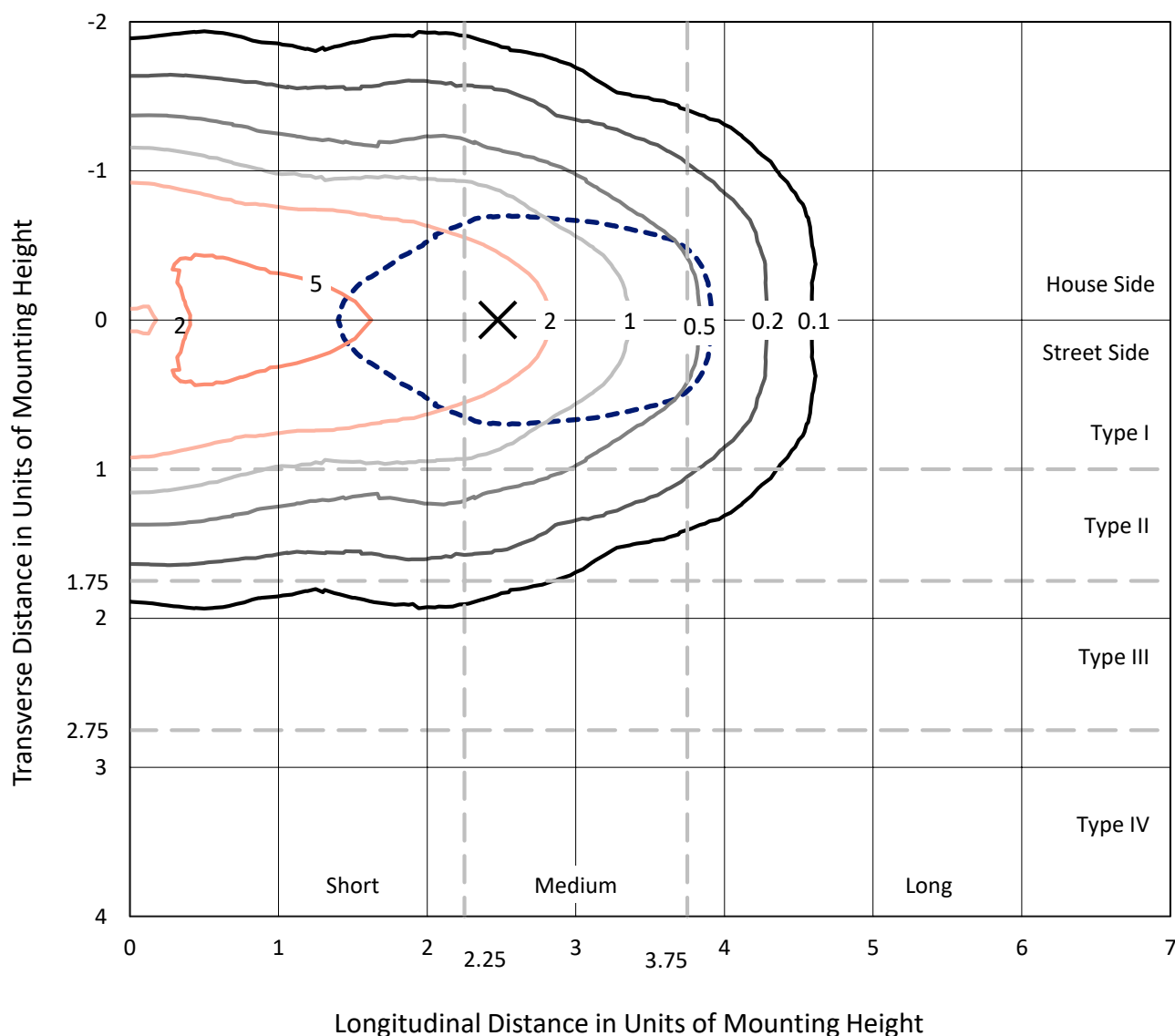


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

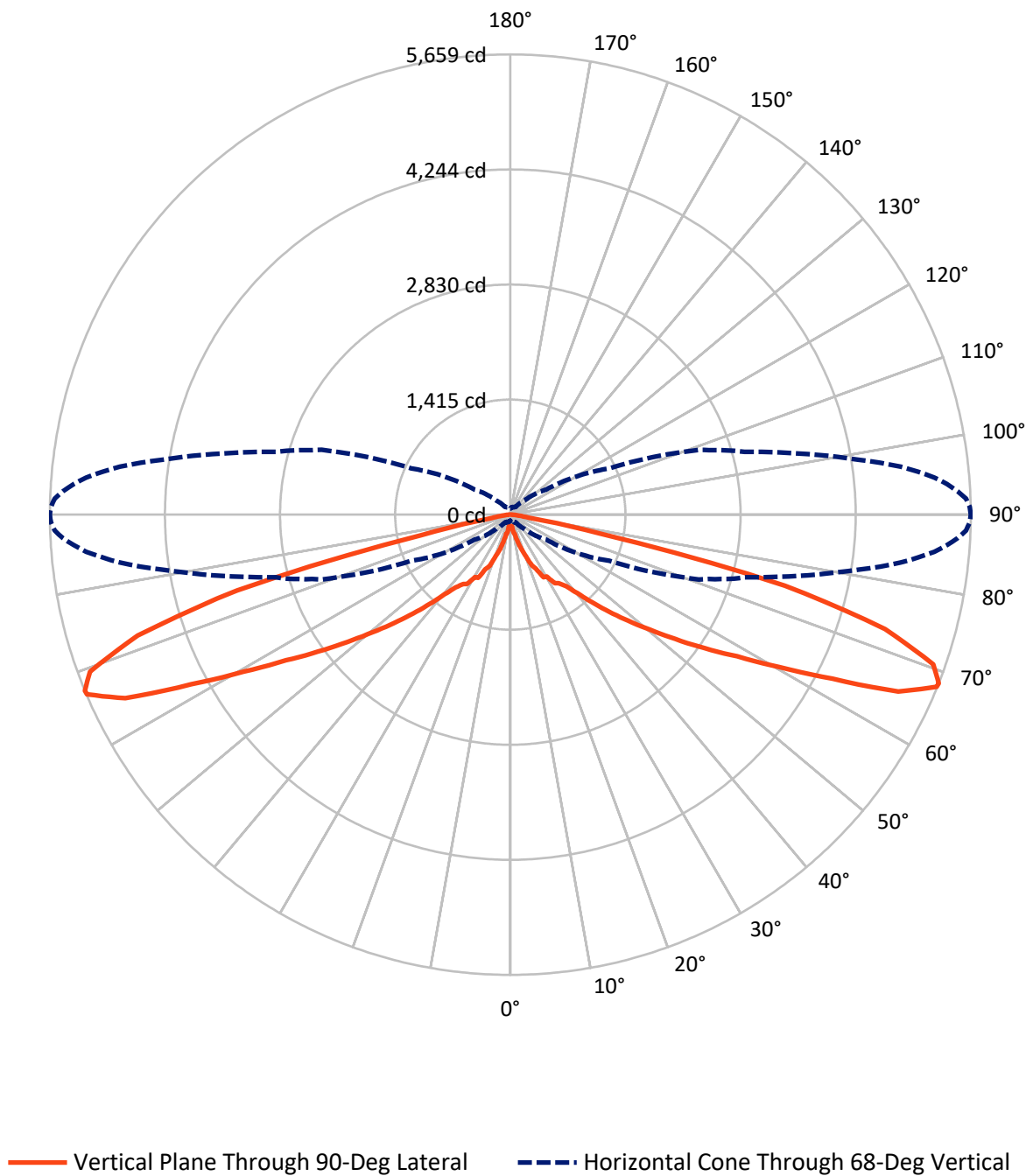


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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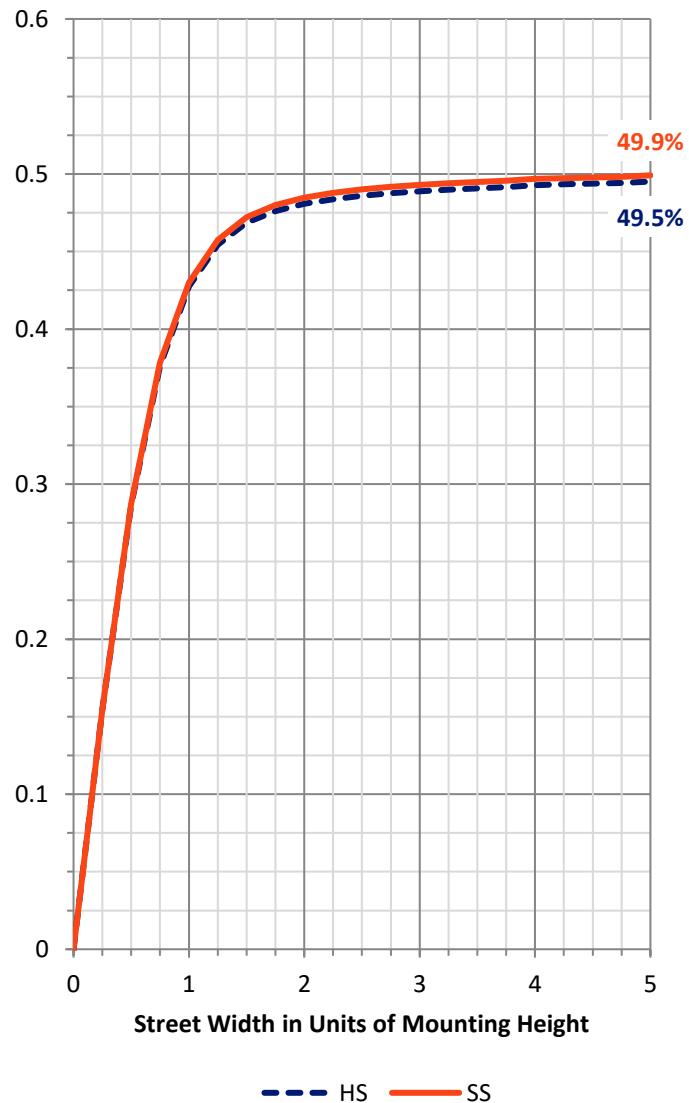
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.8	0.0	2215.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2215.8	0.0	2215.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4431.6	0.0	4431.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.4
10°-20°	116.0	2.6
20°-30°	317.2	7.2
30°-40°	522.0	11.8
40°-50°	701.2	15.8
50°-60°	880.9	19.9
60°-70°	1131.8	25.5
70°-80°	663.6	15.0
80°-90°	79.2	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°	4431.6	100.0
0°-180°	4431.6	100.0

Coefficient of Utilization



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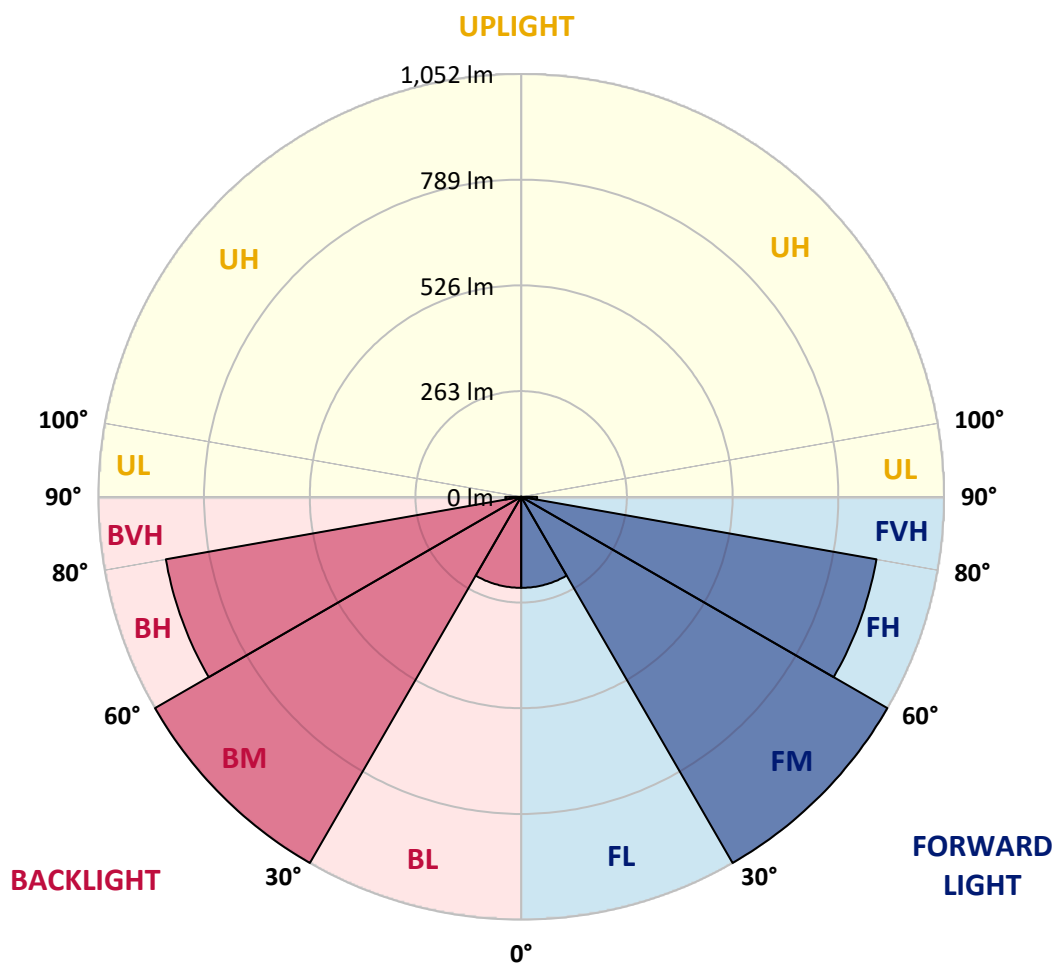
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.5	5.1			
FM	(30°-60°)	1052.0	23.7			
FH	(60°-80°)	897.7	20.3			G1/1800
FVH	(80°-90°)	39.6	0.9			G1/100
BL	(0°-30°)	226.5	5.1	B1/500		
BM	(30°-60°)	1052.0	23.7	B2/2500		
BH	(60°-80°)	897.7	20.3	B2/1000		G1/1800
BVH	(80°-90°)	39.6	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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	185.7	188.2	179.4	185.7	188.2	190.8	191.6	178.5	176.4	174.3	172.2
5°	173.0	177.2	173.4	174.7	179.8	215.2	210.6	182.8	183.3	183.9	184.5
7.5°	256.2	260.8	247.3	227.4	222.4	183.6	170.9	206.4	201.5	196.7	191.9
10°	285.6	277.6	277.6	276.8	270.9	232.1	242.2	254.9	263.7	272.5	281.2
12.5°	373.5	374.3	361.6	327.5	311.8	358.7	330.0	276.8	275.1	273.4	271.7
15°	422.4	417.8	384.0	379.8	452.8	409.8	376.8	420.8	413.1	405.4	397.7
17.5°	474.3	476.0	472.6	434.2	473.0	466.3	484.9	460.8	453.5	446.2	438.8
20°	513.6	514.8	511.9	539.8	539.3	550.7	514.8	563.8	571.9	580.0	588.1
22.5°	544.4	547.4	546.5	580.7	614.4	594.2	671.8	663.0	660.4	657.9	655.4
25°	593.8	594.2	569.2	598.8	653.6	690.4	729.6	792.1	799.0	805.9	812.9
27.5°	606.0	608.6	583.2	634.7	657.9	757.5	884.1	866.0	859.5	853.1	846.7
30°	601.8	607.2	622.4	648.2	706.0	796.3	890.0	957.1	952.5	948.0	943.4
32.5°	615.7	620.0	605.2	634.2	706.0	816.6	952.9	985.8	996.5	1007.2	1018.0
35°	596.3	600.5	594.6	622.8	690.4	788.7	945.2	1091.3	1087.9	1084.5	1081.2
37.5°	585.3	584.9	583.2	611.5	678.6	781.1	985.8	1117.8	1122.5	1127.2	1131.8
40°	557.0	560.8	560.0	585.8	648.2	769.7	971.8	1154.2	1170.6	1187.1	1203.6
42.5°	498.8	501.8	511.0	547.0	613.2	743.1	960.4	1206.1	1227.2	1248.2	1269.4
45°	444.8	445.2	457.8	493.4	561.7	706.0	961.7	1269.8	1292.2	1314.7	1337.2
47.5°	390.0	391.7	405.5	441.4	502.6	655.4	956.6	1329.2	1358.4	1387.6	1416.8
50°	335.9	339.2	356.6	392.9	449.0	591.2	932.6	1396.0	1432.3	1468.7	1505.1
52.5°	279.8	283.2	303.4	344.0	401.8	531.8	878.6	1458.4	1506.2	1554.0	1601.7
55°	217.8	223.6	247.3	287.0	353.2	479.4	794.2	1515.0	1575.9	1636.7	1697.6
57.5°	159.6	162.8	186.5	227.9	300.0	431.2	702.2	1528.8	1605.9	1683.0	1760.1
60°	114.0	117.8	139.2	171.3	239.2	382.8	626.7	1492.2	1591.0	1689.8	1788.7
62.5°	93.7	96.6	115.6	131.6	183.2	330.4	574.4	1439.8	1569.6	1699.3	1829.0
65°	84.8	86.9	106.0	111.8	141.0	281.5	549.4	1423.8	1585.8	1747.9	1910.0
67.5°	77.6	81.0	98.4	101.2	119.8	254.4	541.0	1382.0	1561.0	1739.9	1918.8
68°	76.4	79.8	96.6	99.6	117.8	251.0	535.5	1345.7	1525.2	1704.7	1884.3
70°	72.2	75.1	90.3	93.2	114.8	234.6	475.6	1140.2	1307.7	1475.1	1642.6
72.5°	67.1	68.8	82.7	86.1	103.4	170.9	346.4	766.8	907.6	1048.5	1189.4
75°	58.6	61.6	74.7	79.3	79.8	103.0	219.0	449.4	543.0	636.5	730.0
77.5°	50.6	53.6	64.9	78.9	65.8	71.8	140.5	267.1	309.3	351.5	393.7
80°	43.9	47.3	57.8	81.0	57.0	59.5	110.6	218.2	238.6	259.0	279.4
82.5°	33.8	37.6	50.6	73.4	47.2	48.2	89.5	207.6	223.0	238.4	253.7
85°	22.0	24.4	40.1	56.2	36.7	30.4	63.3	170.1	181.4	192.7	204.0
87.5°	10.6	16.0	27.9	29.2	22.3	16.4	35.0	103.4	111.9	120.4	129.0
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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	170.1	168.0	167.1	163.7	160.8	158.6	156.6	154.4	151.9	149.8	149.8
5°	185.1	185.7	188.2	188.2	188.2	187.0	184.4	181.9	180.6	175.2	169.2
7.5°	187.1	182.3	172.6	171.4	174.8	179.4	180.6	182.3	183.5	182.8	181.8
10°	290.0	298.8	299.6	296.6	294.5	286.1	278.9	265.0	266.3	273.5	276.0
12.5°	270.0	268.4	273.8	289.1	305.5	307.6	309.3	307.2	300.5	288.6	276.8
15°	390.0	382.3	382.3	381.4	379.0	375.2	381.5	395.4	400.4	399.6	398.4
17.5°	431.5	424.2	419.0	401.8	390.8	387.0	384.0	386.2	390.0	406.0	417.4
20°	596.2	604.3	614.0	606.8	602.6	591.2	576.4	572.2	568.8	572.7	576.4
22.5°	652.8	650.3	654.9	631.3	675.6	666.8	674.8	690.0	680.6	674.0	667.6
25°	819.8	826.7	819.5	817.0	803.5	793.4	799.6	797.2	777.3	766.0	768.4
27.5°	840.3	833.8	823.7	819.1	817.0	833.0	848.2	825.0	871.0	859.6	878.2
30°	938.9	934.3	920.0	916.6	928.0	921.2	905.2	906.4	909.4	909.0	899.7
32.5°	1028.7	1039.4	1030.5	1054.6	1045.3	1025.9	1028.4	1041.1	1037.6	1023.4	1017.8
35°	1077.8	1074.4	1093.8	1095.5	1075.2	1073.9	1083.7	1082.4	1071.0	1073.2	1073.6
37.5°	1136.4	1141.1	1159.6	1140.6	1142.8	1154.2	1155.4	1143.2	1144.4	1149.6	1154.6
40°	1220.0	1236.4	1223.4	1221.2	1238.9	1258.4	1246.6	1247.4	1257.6	1270.2	1258.8
42.5°	1290.4	1311.6	1307.0	1329.3	1356.3	1367.2	1374.8	1395.6	1417.4	1409.9	1436.9
45°	1359.6	1382.0	1402.7	1445.4	1473.2	1482.1	1524.6	1556.8	1567.7	1586.2	1621.3
47.5°	1446.0	1475.2	1519.2	1564.8	1581.2	1627.2	1677.4	1707.4	1728.1	1784.6	1801.1
50°	1541.4	1577.8	1635.6	1674.0	1706.2	1764.4	1822.6	1850.0	1917.2	1956.8	1990.2
52.5°	1649.5	1697.2	1754.6	1780.0	1835.2	1914.6	1950.9	2000.2	2075.0	2123.9	2203.6
55°	1758.4	1819.2	1858.8	1904.0	1969.0	2039.1	2074.1	2167.8	2222.2	2304.1	2411.7
57.5°	1837.1	1914.2	1945.4	2019.7	2095.6	2135.7	2213.4	2298.2	2364.4	2498.2	2607.5
60°	1887.5	1986.3	2050.0	2136.1	2209.6	2261.4	2368.2	2448.0	2565.3	2716.4	2846.8
62.5°	1958.7	2088.4	2204.1	2320.1	2362.8	2469.1	2577.6	2673.4	2861.2	3027.9	3194.5
65°	2072.0	2234.0	2400.7	2525.6	2610.4	2751.4	2865.8	3022.8	3233.8	3444.8	3636.8
67.5°	2097.7	2276.6	2480.1	2593.2	2732.0	2878.0	2995.8	3205.0	3415.2	3638.0	3866.8
68°	2063.8	2243.3	2450.5	2564.9	2710.4	2856.9	2978.8	3186.0	3396.2	3617.8	3851.1
70°	1810.0	1977.5	2169.0	2308.4	2476.7	2591.9	2750.6	2944.2	3142.6	3374.3	3610.6
72.5°	1330.2	1471.1	1653.8	1790.6	1970.3	2068.2	2226.0	2392.8	2589.0	2817.6	3053.1
75°	823.5	917.0	1061.7	1184.6	1310.7	1404.4	1542.8	1694.8	1843.2	2024.8	2231.1
77.5°	435.9	478.1	563.4	624.1	689.5	733.4	778.2	867.2	908.1	957.0	1022.5
80°	299.8	320.2	349.4	365.8	358.3	327.8	286.1	271.8	258.6	241.0	224.5
82.5°	269.1	284.4	303.4	319.0	319.8	291.2	238.8	200.4	173.4	147.2	127.0
85°	215.3	226.6	238.8	251.5	263.8	245.6	207.6	162.9	125.8	100.9	86.5
87.5°	137.5	146.0	154.0	168.8	175.1	170.1	151.0	119.8	89.0	68.4	57.0
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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	145.6	145.6	144.8	143.9	142.6	141.8	141.4	141.8	141.4	140.9	140.9
5°	164.6	159.1	154.0	151.0	147.7	146.0	147.7	144.4	143.0	142.2	142.6
7.5°	181.8	181.0	179.4	171.8	160.4	150.2	145.6	143.9	143.9	143.4	143.5
10°	276.8	274.3	270.1	265.4	261.6	250.2	236.7	231.6	228.3	227.8	227.0
12.5°	279.0	284.0	285.7	285.6	281.9	279.8	266.7	252.4	244.4	243.9	243.1
15°	388.2	371.0	374.8	380.6	379.8	379.4	380.2	362.9	351.5	349.8	349.4
17.5°	415.2	423.2	403.0	446.4	423.6	448.6	436.8	460.8	442.2	450.2	452.4
20°	587.8	585.8	582.8	574.3	573.1	580.2	587.8	581.6	563.4	553.6	547.8
22.5°	671.8	685.3	691.2	689.2	681.1	677.3	676.0	671.4	668.8	673.0	676.9
25°	773.1	767.2	773.9	773.5	766.3	760.8	769.7	775.2	774.4	752.8	737.6
27.5°	875.6	864.2	862.2	863.0	870.6	868.9	871.0	866.4	858.4	863.8	871.0
30°	890.4	885.8	892.1	884.9	887.4	883.6	877.4	872.7	892.1	889.2	882.0
32.5°	1015.8	1020.4	1006.4	1003.1	1002.6	990.0	990.8	1000.6	995.9	1002.2	1003.5
35°	1075.2	1062.6	1058.8	1050.8	1038.5	1049.9	1045.7	1044.4	1043.6	1042.8	1037.3
37.5°	1144.0	1153.3	1142.4	1129.6	1143.2	1136.4	1131.8	1130.5	1128.4	1120.8	1119.1
40°	1268.5	1278.6	1269.8	1286.2	1283.3	1287.1	1278.6	1275.3	1266.8	1271.0	1267.7
42.5°	1440.3	1443.2	1469.0	1486.7	1485.8	1485.8	1480.8	1480.4	1463.5	1465.2	1472.8
45°	1627.2	1662.6	1685.0	1706.1	1713.8	1716.2	1707.0	1716.2	1703.2	1688.0	1702.3
47.5°	1837.0	1884.6	1914.6	1936.1	1946.7	1945.0	1953.8	1949.6	1943.3	1953.8	1950.5
50°	2068.2	2110.0	2154.3	2172.4	2178.4	2192.7	2208.8	2221.8	2227.7	2215.9	2223.9
52.5°	2277.1	2342.9	2394.4	2421.4	2447.6	2467.4	2495.3	2521.0	2530.7	2539.6	2540.4
55°	2502.4	2589.4	2648.0	2694.9	2738.3	2775.8	2818.1	2851.4	2878.5	2897.5	2900.0
57.5°	2716.4	2813.4	2889.8	2979.3	3032.4	3105.0	3159.9	3213.9	3264.6	3276.4	3285.7
60°	2985.6	3105.0	3229.6	3318.2	3424.0	3537.6	3611.8	3688.2	3718.2	3774.3	3805.6
62.5°	3356.1	3495.4	3670.6	3804.8	3951.6	4092.5	4219.1	4313.6	4359.2	4420.4	4442.8
65°	3844.0	4063.0	4244.8	4459.2	4642.4	4813.3	4964.0	5096.8	5161.0	5233.2	5241.2
67.5°	4095.0	4333.0	4588.0	4832.2	5029.8	5228.1	5373.7	5499.8	5599.9	5638.3	5652.2
68°	4085.3	4324.6	4590.4	4836.1	5038.6	5232.3	5379.2	5506.6	5603.2	5645.5	5659.0
70°	3879.0	4109.4	4416.2	4653.8	4863.9	5073.2	5213.0	5340.0	5423.0	5470.8	5514.6
72.5°	3289.8	3562.0	3830.4	4053.7	4279.5	4452.0	4558.4	4699.4	4740.2	4797.2	4815.0
75°	2422.2	2657.7	2846.8	2986.0	3148.1	3266.7	3360.4	3360.4	3414.4	3423.6	3484.0
77.5°	1117.0	1132.2	1162.6	1140.6	1160.1	1192.6	1152.9	1107.8	1136.8	1059.6	1128.4
80°	231.2	217.8	224.5	216.9	218.6	222.0	228.3	224.9	224.5	221.1	225.3
82.5°	115.6	114.4	114.8	115.2	115.2	115.2	115.6	115.6	116.4	114.8	114.8
85°	78.1	74.7	75.1	73.4	72.6	72.2	69.6	67.1	68.4	67.5	64.1
87.5°	50.6	46.8	45.2	43.1	40.9	39.2	37.2	34.6	31.6	30.8	29.5
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)