

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: P179244

Luminaire Tested: **UTLD-F02-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179244
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
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-SL2-HSS-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.1 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - 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



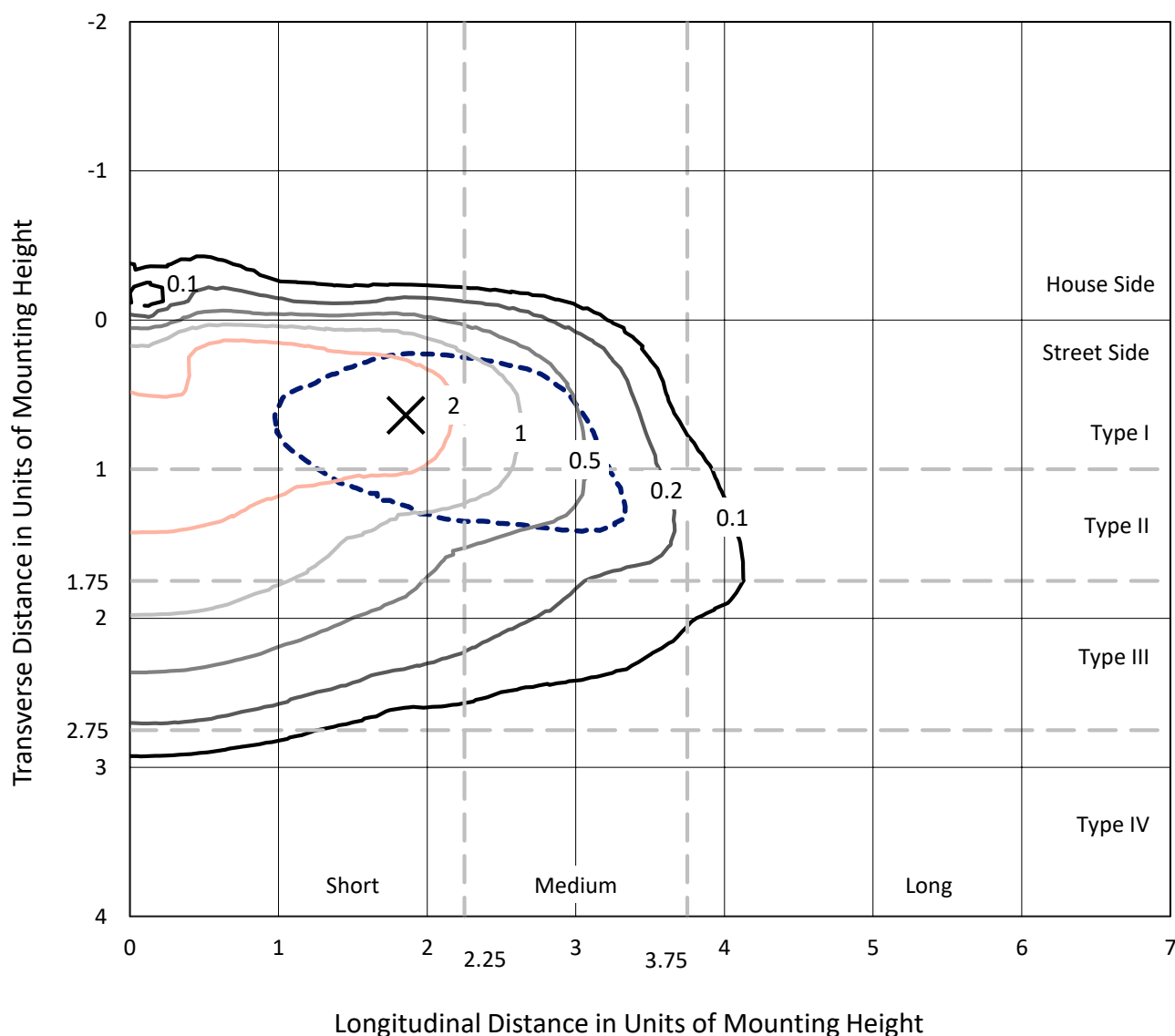
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

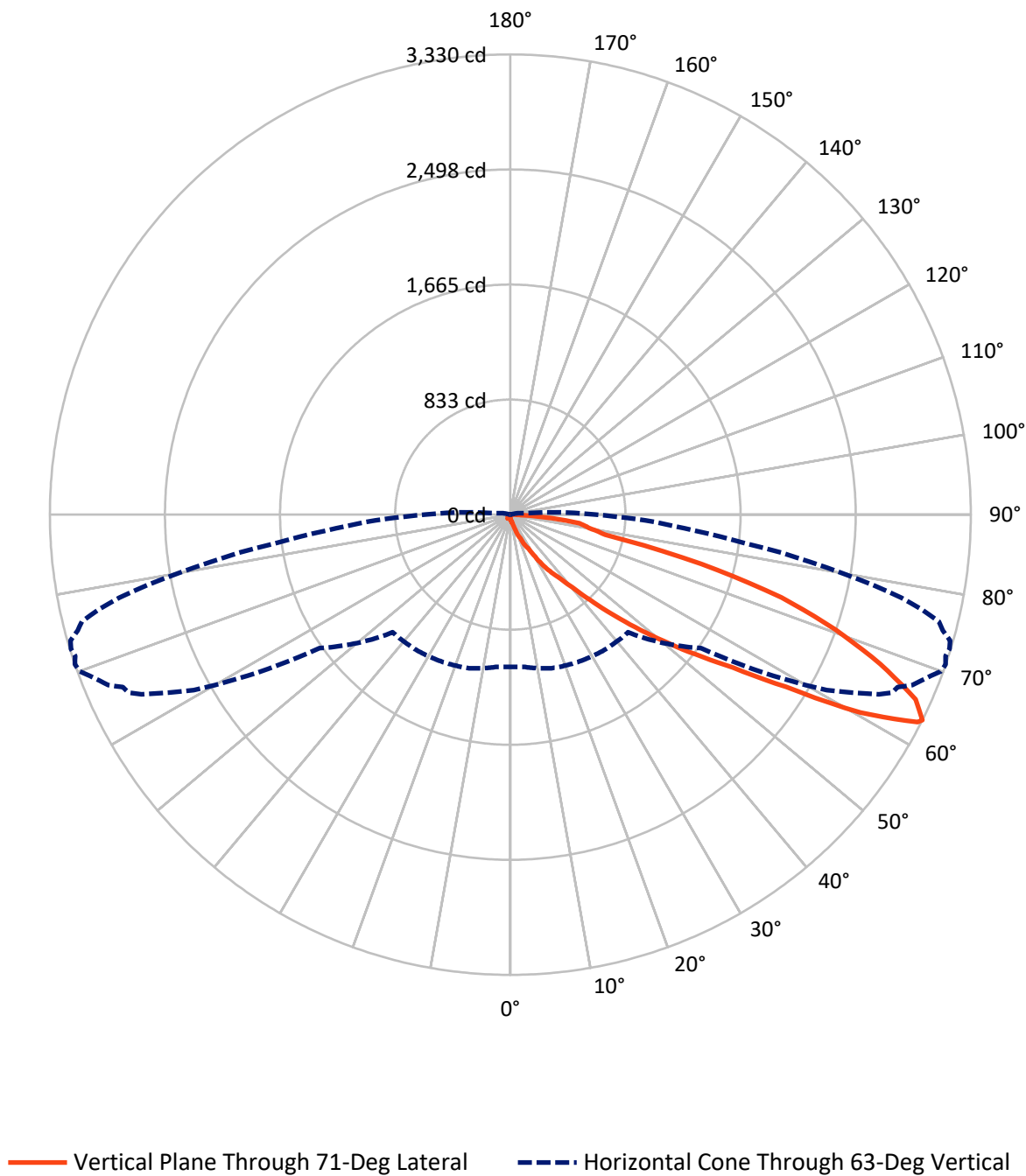


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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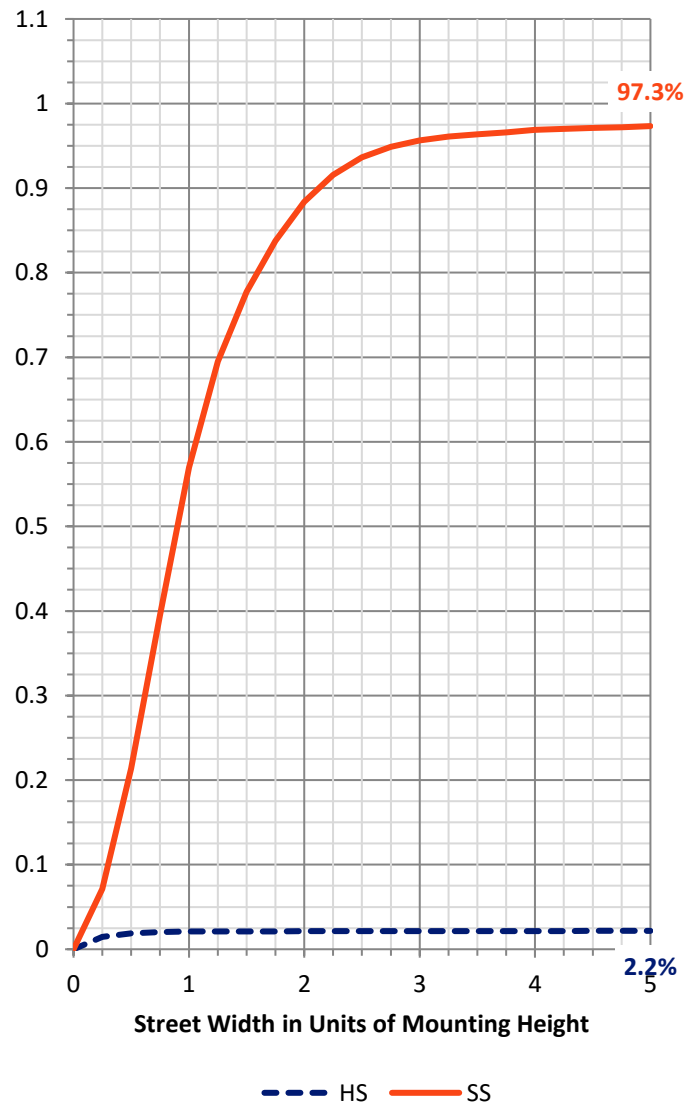
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54.3	0.0	54.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2394.8	0.0	2394.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	2449.1	0.0	2449.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	19.4	0.8
20°-30°	59.4	2.4
30°-40°	183.2	7.5
40°-50°	435.2	17.8
50°-60°	628.8	25.7
60°-70°	778.1	31.8
70°-80°	295.4	12.1
80°-90°	46.1	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°	2449.1	100.0
0°-180°	2449.1	100.0

Coefficient of Utilization



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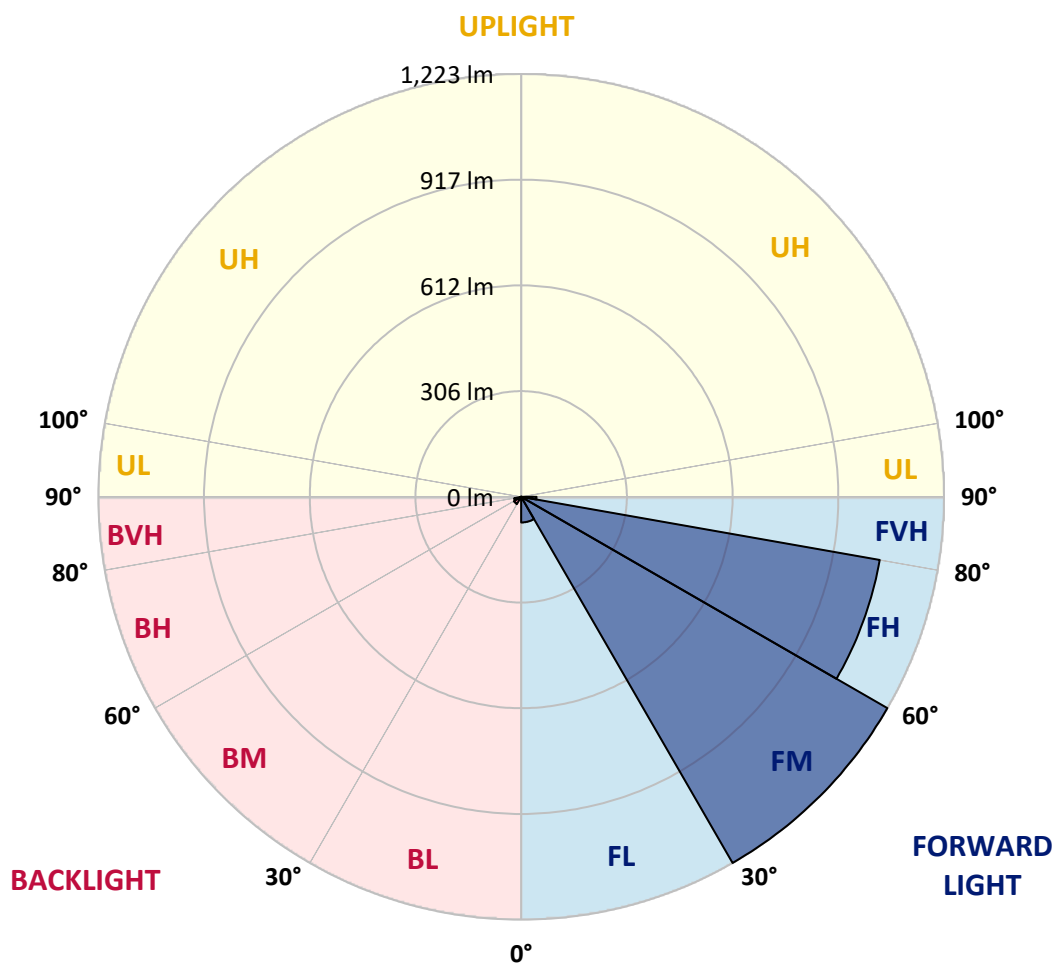
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.2	3.0			
FM	(30°-60°)	1223.0	49.9			
FH	(60°-80°)	1053.1	43.0			G1/1800
FVH	(80°-90°)	44.4	1.8			G1/100
BL	(0°-30°)	8.1	0.3	B0/110		
BM	(30°-60°)	24.1	1.0	B0/220		
BH	(60°-80°)	20.4	0.8	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	46.7	46.0	44.5	44.5	43.7	43.7	43.0	42.2	42.2	42.2	41.5
5°	55.0	54.3	52.0	49.8	49.8	48.3	45.2	44.5	43.7	43.0	43.0
7.5°	89.7	89.0	87.5	85.2	81.4	55.8	49.8	49.0	48.3	47.5	46.7
10°	100.3	100.3	99.5	96.5	92.7	86.7	79.2	57.3	55.8	56.5	58.8
12.5°	135.0	131.2	133.5	129.7	109.3	102.5	104.8	97.3	95.8	95.0	73.9
15°	144.0	140.2	133.5	134.2	137.2	145.5	118.4	111.6	107.8	105.6	105.6
17.5°	158.3	158.3	159.1	159.1	153.1	156.1	153.8	136.5	135.7	132.7	131.9
20°	194.5	193.0	171.9	162.1	178.7	182.5	183.2	157.6	152.3	151.6	156.1
22.5°	205.8	204.3	200.6	204.3	183.2	205.8	236.8	236.0	230.0	227.0	208.1
25°	262.4	260.1	246.6	211.1	225.4	226.2	256.4	258.6	257.1	262.4	278.2
27.5°	303.1	306.1	275.2	252.6	237.5	269.9	326.5	333.3	333.3	325.7	326.5
30°	386.0	384.5	350.6	293.3	286.5	290.3	359.7	383.0	402.6	390.6	404.1
32.5°	554.9	547.4	495.4	390.6	343.1	358.9	431.3	459.2	454.7	447.9	459.9
35°	799.2	794.0	686.9	586.6	493.1	456.2	509.7	556.4	546.6	568.5	576.8
37.5°	971.1	957.6	911.6	810.5	719.3	658.2	680.9	662.8	660.5	675.6	674.1
40°	1097.8	1098.6	1082.7	1000.5	934.2	900.3	903.3	836.2	831.7	836.9	826.4
42.5°	1159.6	1164.9	1177.7	1137.0	1109.9	1113.6	1143.8	1087.3	1085.0	1071.4	1030.7
45°	1197.3	1204.1	1243.3	1256.9	1248.6	1286.3	1368.5	1322.5	1326.3	1338.3	1280.3
47.5°	1201.9	1211.7	1262.9	1303.7	1336.8	1413.0	1538.9	1549.5	1560.8	1570.6	1527.6
50°	1157.4	1161.1	1226.0	1284.8	1333.8	1477.1	1668.6	1734.2	1754.5	1754.5	1718.4
52.5°	1076.7	1082.0	1143.8	1207.9	1254.6	1474.1	1752.3	1871.4	1916.7	1918.2	1866.1
55°	1042.0	1048.1	1094.8	1151.3	1174.7	1400.9	1803.6	1995.8	2043.3	2051.6	2020.7
57.5°	1042.0	1048.8	1086.5	1119.7	1131.7	1315.7	1834.5	2141.3	2194.9	2246.1	2244.6
60°	1088.8	1096.3	1126.5	1124.2	1112.9	1255.4	1820.9	2319.3	2406.0	2491.9	2590.7
62.5°	1115.9	1119.7	1161.1	1173.2	1171.0	1210.9	1714.6	2452.0	2586.2	2711.4	2925.5
63°	1100.8	1105.4	1151.3	1173.2	1192.8	1204.1	1685.2	2466.3	2617.9	2728.7	2966.2
65°	1019.4	1020.2	1069.2	1096.3	1229.0	1203.4	1527.6	2438.4	2623.9	2734.0	2998.6
67.5°	807.5	812.1	846.0	892.0	1014.9	1221.5	1312.7	2118.7	2306.5	2394.7	2689.5
70°	425.3	444.1	472.0	533.1	701.2	1037.5	1098.6	1560.8	1742.5	1873.7	2212.2
72.5°	128.9	119.9	156.1	228.5	356.6	717.8	963.6	1102.3	1207.1	1337.6	1698.0
75°	58.1	59.6	67.9	97.3	156.1	385.3	842.2	905.5	919.9	964.4	1183.0
77.5°	33.2	33.9	40.0	55.0	81.4	192.3	637.9	812.1	800.7	816.6	856.5
80°	21.9	22.6	28.7	39.2	45.2	94.2	361.9	633.4	670.3	711.0	740.4
82.5°	12.1	12.1	18.1	31.7	29.4	45.2	142.5	414.7	481.0	523.3	611.5
85°	5.3	6.0	10.6	21.1	18.1	21.1	68.6	141.0	161.4	169.6	211.1
87.5°	1.5	1.5	3.0	7.5	7.5	9.8	20.4	63.3	67.1	72.4	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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	41.5	41.5	40.0	39.2	36.9	36.9	35.4	36.2	33.9	33.2	31.7
5°	42.2	42.2	42.2	42.2	41.5	41.5	41.5	41.5	41.5	41.5	40.7
7.5°	46.0	46.0	46.0	46.0	45.2	44.5	43.0	43.0	42.2	42.2	42.2
10°	58.8	58.1	56.5	55.8	55.0	54.3	52.8	53.5	52.0	52.8	51.3
12.5°	70.1	68.6	66.4	64.1	63.3	62.6	61.1	60.3	59.6	61.1	60.3
15°	109.3	108.6	109.3	105.6	86.0	85.2	86.0	84.4	82.9	80.7	77.7
17.5°	130.4	128.2	120.6	117.6	118.4	116.1	110.1	98.0	91.2	88.2	86.7
20°	167.4	168.1	169.6	169.6	166.6	162.9	159.1	158.3	153.8	138.0	131.9
22.5°	200.6	200.6	196.8	193.0	188.5	189.3	184.0	171.9	168.1	163.6	161.4
25°	288.0	283.5	272.9	269.2	265.4	255.6	242.8	236.0	233.7	230.7	220.9
27.5°	325.7	319.7	317.4	312.9	299.3	283.5	278.2	274.5	278.2	260.1	247.3
30°	394.3	393.6	391.3	381.5	364.9	352.1	352.9	349.1	324.2	305.4	293.3
32.5°	464.5	459.2	477.3	459.2	444.1	449.4	442.6	419.2	401.9	382.3	380.0
35°	574.5	574.5	559.5	539.9	542.1	545.9	513.5	489.3	478.0	469.7	453.2
37.5°	675.6	671.1	643.2	632.6	644.7	623.6	587.4	571.5	567.8	553.4	527.0
40°	812.8	785.7	764.5	762.3	760.8	711.8	691.4	692.9	673.3	644.7	614.5
42.5°	1001.3	957.6	941.7	943.2	889.0	849.8	842.2	823.4	797.7	765.3	738.2
45°	1218.5	1176.2	1177.0	1129.5	1060.9	1026.9	1019.4	990.0	958.3	920.6	881.4
47.5°	1454.5	1424.3	1439.4	1344.4	1284.1	1264.4	1216.2	1170.2	1133.3	1087.3	1038.2
50°	1667.1	1682.9	1649.7	1566.8	1523.1	1496.7	1440.1	1382.8	1335.3	1265.2	1198.8
52.5°	1866.1	1896.3	1844.3	1768.1	1774.1	1723.6	1679.9	1621.8	1558.5	1475.6	1405.4
55°	2065.2	2072.0	2029.0	2004.1	2002.6	1970.2	1950.6	1909.1	1823.9	1740.2	1708.5
57.5°	2316.3	2308.0	2277.8	2317.0	2320.0	2330.6	2351.7	2308.7	2283.1	2222.0	2173.0
60°	2678.9	2672.2	2685.7	2801.1	2824.5	2894.6	2909.7	2911.2	2889.3	2908.9	2789.8
62.5°	2999.4	3026.5	3114.7	3168.3	3223.3	3291.2	3306.3	3278.4	3292.7	3294.2	3201.5
63°	3046.1	3067.2	3158.5	3204.5	3257.3	3313.8	3330.4	3309.3	3322.1	3309.3	3239.2
65°	3066.5	3076.3	3183.4	3171.3	3238.4	3263.3	3221.1	3212.8	3260.3	3192.4	3179.6
67.5°	2765.6	2825.2	2896.8	2896.8	2948.9	2943.6	2887.0	2899.1	2899.9	2873.5	2866.7
70°	2312.5	2433.1	2448.2	2502.5	2538.7	2507.0	2495.0	2503.3	2439.9	2454.2	2390.9
72.5°	1839.7	1969.4	1993.6	2094.6	2105.1	2033.5	2050.9	2001.1	1931.7	1888.8	1801.3
75°	1339.1	1421.3	1492.9	1521.6	1522.3	1454.5	1425.0	1310.4	1208.7	1086.5	1054.1
77.5°	935.0	925.9	953.0	937.2	830.9	797.0	701.2	645.4	593.4	502.9	453.2
80°	755.5	747.2	760.0	726.1	680.1	641.6	573.0	521.8	463.7	424.5	364.2
82.5°	644.7	678.6	686.9	638.6	615.3	582.8	503.7	447.9	391.3	340.8	293.3
85°	245.8	293.3	289.5	301.6	302.4	285.8	251.8	199.8	158.3	128.2	104.1
87.5°	95.0	106.3	99.5	98.8	99.5	91.2	77.7	68.6	58.1	46.7	39.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	30.9	29.4	29.4	27.9	27.9	27.1	27.1	26.4	26.4	25.6	25.6
5°	40.7	40.7	40.0	38.5	34.7	33.2	30.2	27.9	27.1	26.4	25.6
7.5°	42.2	42.2	41.5	41.5	40.7	40.0	39.2	36.9	33.2	30.2	27.9
10°	51.3	49.8	50.5	52.0	51.3	51.3	50.5	49.8	48.3	46.7	37.7
12.5°	59.6	58.8	57.3	54.3	52.8	52.0	52.0	51.3	50.5	49.8	48.3
15°	75.4	73.1	72.4	70.1	68.6	66.4	67.1	66.4	64.8	61.8	55.0
17.5°	83.7	82.2	79.9	80.7	79.2	74.6	67.1	64.8	62.6	60.3	58.1
20°	129.7	127.4	122.9	115.4	106.3	101.8	98.0	94.2	95.0	94.2	88.2
22.5°	151.6	138.0	129.7	123.7	121.4	121.4	118.4	119.9	110.1	107.1	94.2
25°	203.6	193.8	183.2	177.2	174.2	167.4	154.6	145.5	135.7	132.7	122.9
27.5°	243.5	234.5	234.5	224.7	208.1	195.3	182.5	174.9	162.9	154.6	144.0
30°	293.3	282.0	267.7	249.6	233.7	221.7	212.6	194.5	183.2	171.9	150.8
32.5°	366.4	345.3	327.2	310.6	296.3	272.2	257.9	242.8	219.4	195.3	184.7
35°	434.3	407.9	387.6	370.2	340.8	324.2	302.4	268.4	243.5	231.5	207.3
37.5°	500.7	475.8	456.2	422.2	395.8	367.9	331.8	306.9	285.0	254.8	221.7
40°	587.4	559.5	519.5	490.1	455.4	408.7	381.5	351.4	314.4	277.5	249.6
42.5°	701.2	656.7	624.3	587.4	524.0	493.9	456.9	403.4	356.6	323.5	277.5
45°	838.4	792.4	757.8	685.4	639.4	593.4	537.6	475.0	428.3	376.2	337.0
47.5°	984.0	952.3	878.4	806.0	760.8	692.2	628.1	563.2	498.4	452.4	381.5
50°	1165.7	1085.8	1004.3	952.3	879.2	802.2	726.8	644.7	588.1	517.2	448.6
52.5°	1347.4	1237.3	1178.5	1101.6	1002.1	913.8	826.4	746.5	666.5	590.4	508.9
55°	1592.4	1482.4	1394.1	1283.3	1170.2	1069.2	978.7	879.9	792.4	694.4	605.5
57.5°	2040.3	1918.9	1792.2	1626.4	1488.4	1366.2	1244.1	1127.2	996.8	891.2	783.4
60°	2709.9	2582.4	2408.3	2214.5	2001.1	1811.1	1636.9	1462.0	1300.6	1171.0	1004.3
62.5°	3150.2	3019.0	2857.6	2627.7	2402.2	2150.4	1933.2	1690.5	1510.2	1324.0	1170.2
63°	3193.9	3054.4	2892.3	2674.4	2436.2	2200.2	1980.0	1715.3	1530.6	1343.6	1184.5
65°	3126.8	3040.1	2889.3	2706.8	2522.1	2292.1	2051.6	1791.5	1582.6	1392.6	1206.4
67.5°	2794.3	2754.3	2656.3	2556.8	2391.7	2231.8	2011.7	1782.4	1560.8	1380.6	1208.7
70°	2366.8	2311.7	2234.8	2194.9	2081.0	1945.3	1793.8	1614.3	1454.5	1277.3	1121.2
72.5°	1768.9	1660.3	1598.5	1531.4	1459.0	1364.0	1275.8	1174.7	1045.0	950.8	794.0
75°	925.9	805.3	723.1	626.6	548.9	469.7	427.5	398.9	355.1	306.9	271.4
77.5°	375.5	313.7	253.3	215.6	162.1	129.7	110.8	98.0	90.5	80.7	74.6
80°	315.2	251.8	202.8	153.8	113.1	82.2	61.1	47.5	40.7	35.4	32.4
82.5°	254.8	218.7	181.7	143.3	110.1	89.0	65.6	46.7	33.9	27.1	23.4
85°	81.4	71.6	55.8	46.7	38.5	32.4	27.1	21.9	19.6	18.1	16.6
87.5°	33.9	26.4	24.1	21.9	21.1	20.4	20.4	18.8	17.3	15.1	13.6
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	24.9	24.9	24.1	24.9	23.4	21.9	21.1	20.4	19.6	19.6	19.6
5°	25.6	24.9	24.1	23.4	21.1	19.6	18.1	16.6	18.8	16.6	11.3
7.5°	26.4	25.6	24.1	23.4	21.1	18.8	17.3	10.6	6.8	6.8	7.5
10°	35.4	33.2	32.4	30.2	27.9	20.4	12.8	6.8	6.0	9.0	10.6
12.5°	38.5	36.2	33.9	31.7	26.4	21.9	10.6	9.0	11.3	9.0	9.8
15°	52.0	44.5	42.2	40.0	35.4	25.6	12.1	12.1	11.3	9.8	11.3
17.5°	57.3	49.0	46.7	45.2	34.7	16.6	13.6	14.3	11.3	12.8	10.6
20°	82.9	73.9	67.1	64.1	46.7	24.1	18.8	13.6	14.3	11.3	12.8
22.5°	95.0	88.2	81.4	79.9	52.8	26.4	21.9	18.8	13.6	13.6	12.1
25°	117.6	108.6	97.3	87.5	55.8	33.2	26.4	18.8	15.8	12.8	12.1
27.5°	133.5	118.4	108.6	102.5	60.3	34.7	25.6	21.1	15.8	12.1	10.6
30°	139.5	131.2	117.6	102.5	61.1	36.2	27.1	20.4	15.8	12.1	11.3
32.5°	170.4	151.6	131.9	120.6	65.6	38.5	26.4	20.4	15.1	11.3	10.6
35°	182.5	164.4	143.3	127.4	68.6	36.9	25.6	18.1	13.6	10.6	8.3
37.5°	202.1	175.7	155.3	135.7	69.4	34.7	23.4	17.3	12.1	9.0	7.5
40°	216.4	194.5	164.4	142.5	69.4	32.4	21.9	15.1	10.6	7.5	6.0
42.5°	250.3	211.9	181.7	156.1	70.9	29.4	19.6	12.8	9.0	5.3	4.5
45°	286.5	249.6	209.6	178.7	72.4	27.1	17.3	11.3	6.8	3.8	2.3
47.5°	337.8	289.5	244.3	205.1	73.1	24.9	15.8	9.8	5.3	2.3	1.5
50°	386.8	334.8	279.7	239.8	74.6	22.6	13.6	8.3	3.8	1.5	0.8
52.5°	444.1	380.0	324.2	267.7	75.4	21.1	12.1	6.8	2.3	0.8	0.0
55°	525.5	457.7	379.3	319.7	76.9	18.8	9.8	5.3	1.5	0.8	0.0
57.5°	687.6	595.7	499.1	413.2	84.4	16.6	8.3	3.8	0.8	0.8	0.0
60°	885.2	782.6	655.2	530.8	99.5	14.3	6.8	2.3	0.8	0.0	0.0
62.5°	1028.4	896.5	744.9	610.7	110.1	12.1	6.0	1.5	0.8	0.8	0.0
63°	1051.8	909.3	751.7	616.0	110.8	12.1	5.3	1.5	0.8	0.0	0.0
65°	1069.2	921.4	760.8	624.3	113.1	10.6	4.5	1.5	0.8	0.8	0.0
67.5°	1054.8	895.0	738.9	608.5	114.6	9.0	3.8	1.5	0.8	0.8	0.8
70°	956.8	814.3	677.8	555.7	106.3	7.5	3.0	1.5	0.8	0.8	0.8
72.5°	687.6	613.0	487.8	401.1	81.4	6.8	3.0	2.3	0.8	1.5	1.5
75°	231.5	207.3	172.7	153.1	47.5	4.5	2.3	2.3	0.8	1.5	1.5
77.5°	66.4	61.8	53.5	49.0	24.1	3.8	2.3	2.3	0.8	2.3	2.3
80°	28.7	26.4	23.4	20.4	10.6	3.0	2.3	3.0	0.8	3.0	2.3
82.5°	21.1	18.8	16.6	13.6	6.0	3.0	3.0	3.8	0.8	3.0	3.0
85°	15.1	13.6	11.3	9.8	4.5	3.0	3.0	3.8	1.5	3.8	3.8
87.5°	12.1	10.6	9.0	6.8	4.5	3.0	3.0	4.5	1.5	4.5	3.8
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):

	165°	175°	180°
0°	24.9	24.9	24.9
2.5°	19.6	20.4	20.4
5°	9.8	10.6	10.6
7.5°	8.3	9.0	9.0
10°	11.3	11.3	11.3
12.5°	10.6	11.3	11.3
15°	12.1	12.8	12.8
17.5°	10.6	13.6	14.3
20°	12.1	12.1	12.1
22.5°	12.1	12.8	12.8
25°	11.3	11.3	11.3
27.5°	11.3	11.3	11.3
30°	9.8	11.3	11.3
32.5°	9.8	9.8	9.8
35°	9.0	9.0	9.0
37.5°	7.5	8.3	8.3
40°	6.0	6.0	6.0
42.5°	3.8	3.8	3.8
45°	2.3	2.3	2.3
47.5°	1.5	1.5	1.5
50°	0.8	0.8	0.8
52.5°	0.8	0.8	0.8
55°	0.0	0.8	0.8
57.5°	0.0	0.0	0.8
60°	0.0	0.0	0.8
62.5°	0.0	0.0	0.8
63°	0.0	0.0	0.8
65°	0.8	0.0	0.8
67.5°	0.8	0.8	0.8
70°	0.8	0.8	0.8
72.5°	1.5	0.8	1.5
75°	1.5	1.5	1.5
77.5°	2.3	1.5	1.5
80°	2.3	2.3	1.5
82.5°	3.0	2.3	0.8
85°	3.0	3.0	1.5
87.5°	3.8	3.8	1.5
90°	0.0	0.0	0.0

(END OF REPORT)