

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: P179331

Luminaire Tested: **UTLD-E02-LED-E-U-T2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179331
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34326)
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-T2-HSS-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2954.7 lumens
Efficiency: N/A
Efficacy: 56.7 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): 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

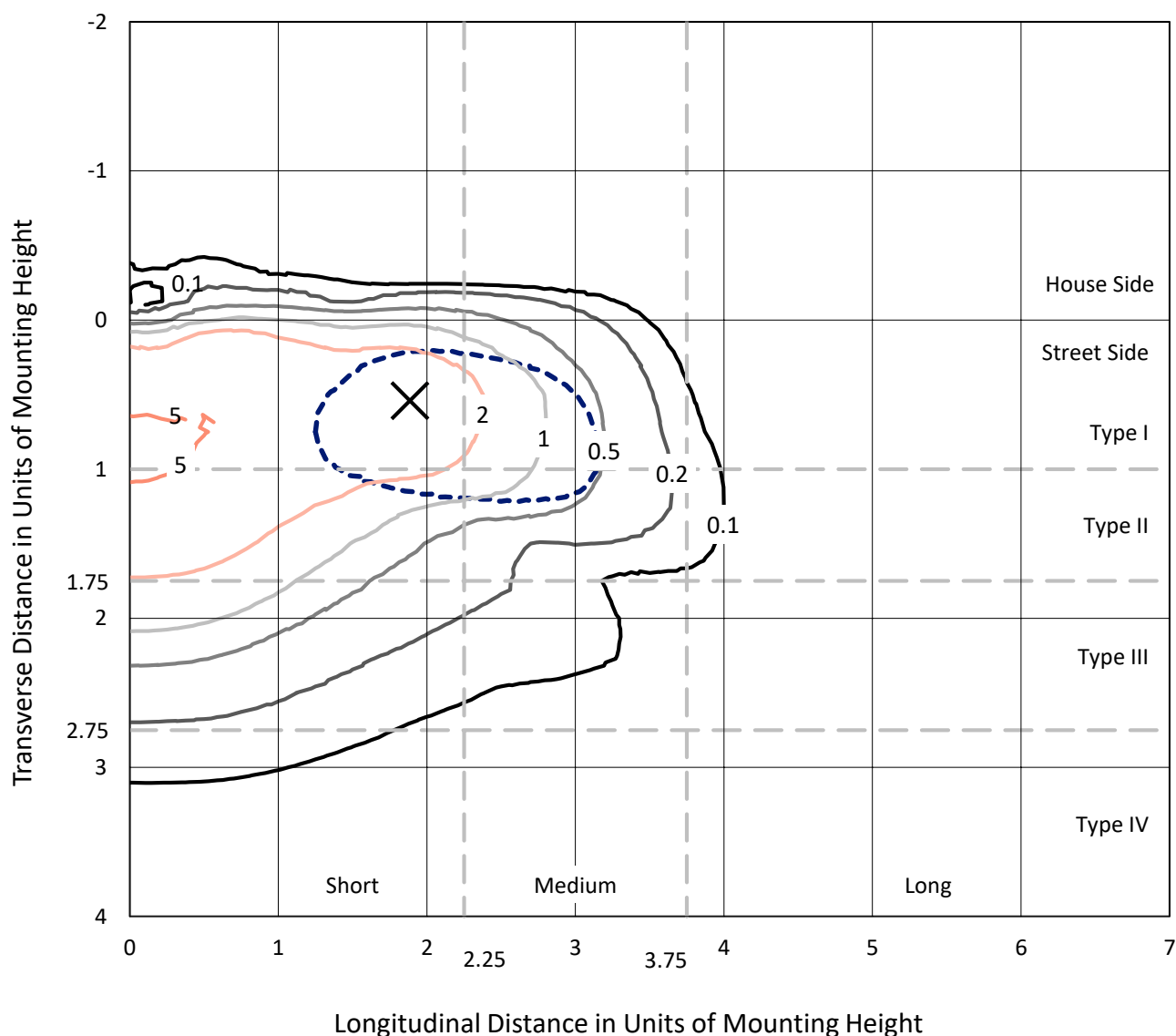


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

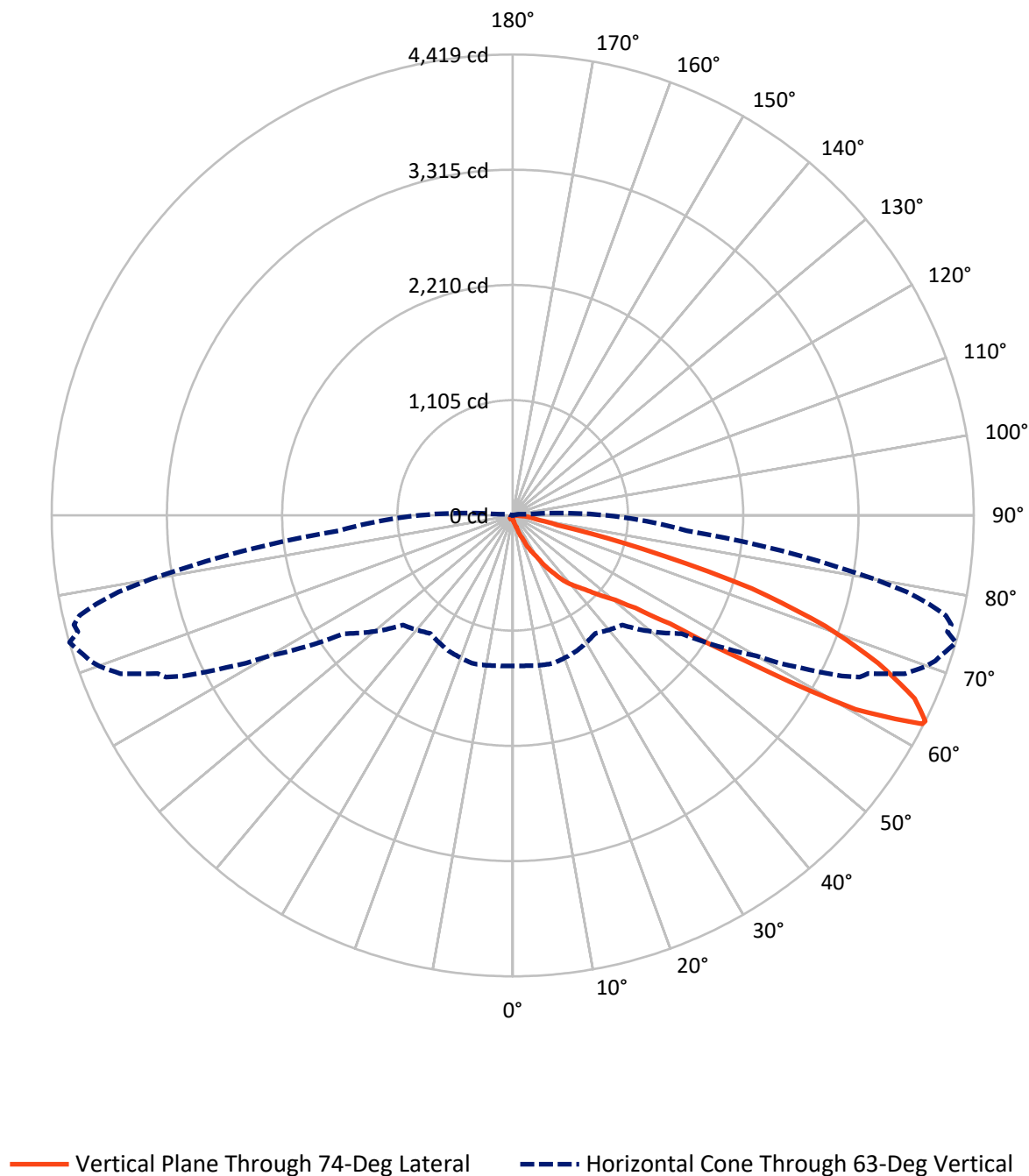


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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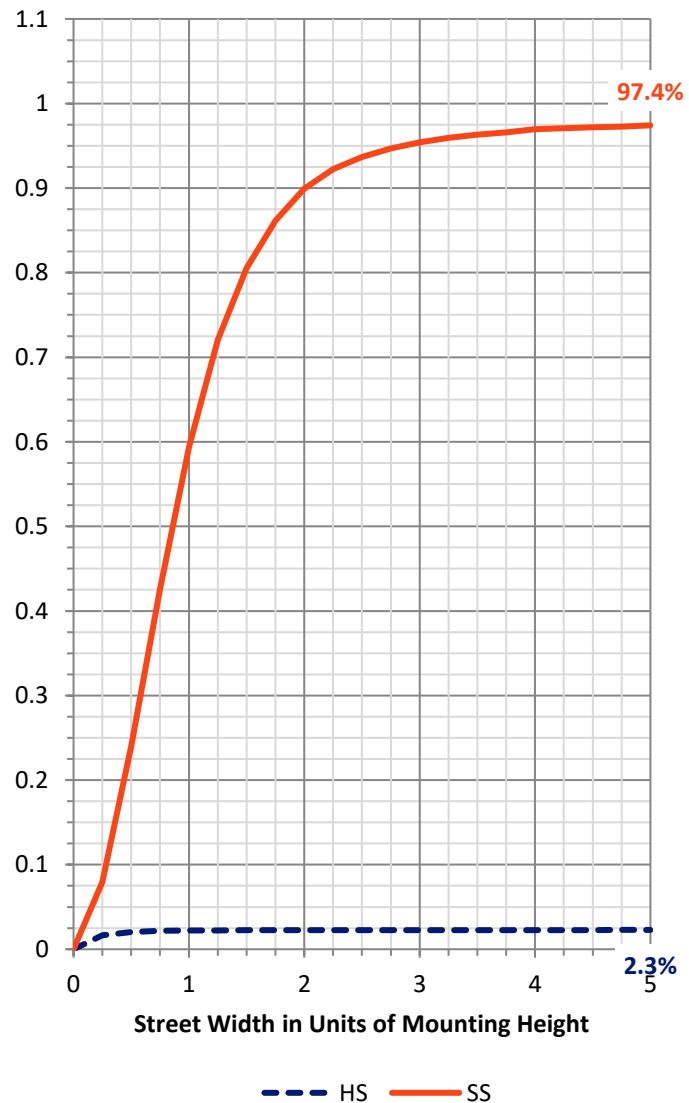
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.6	0.0	68.6
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2886.1	0.0	2886.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	2954.7	0.0	2954.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.2
10°-20°	34.0	1.2
20°-30°	110.3	3.7
30°-40°	263.6	8.9
40°-50°	494.9	16.8
50°-60°	777.9	26.3
60°-70°	913.8	30.9
70°-80°	313.8	10.6
80°-90°	41.5	1.4
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°	2954.7	100.0
0°-180°	2954.7	100.0

Coefficient of Utilization



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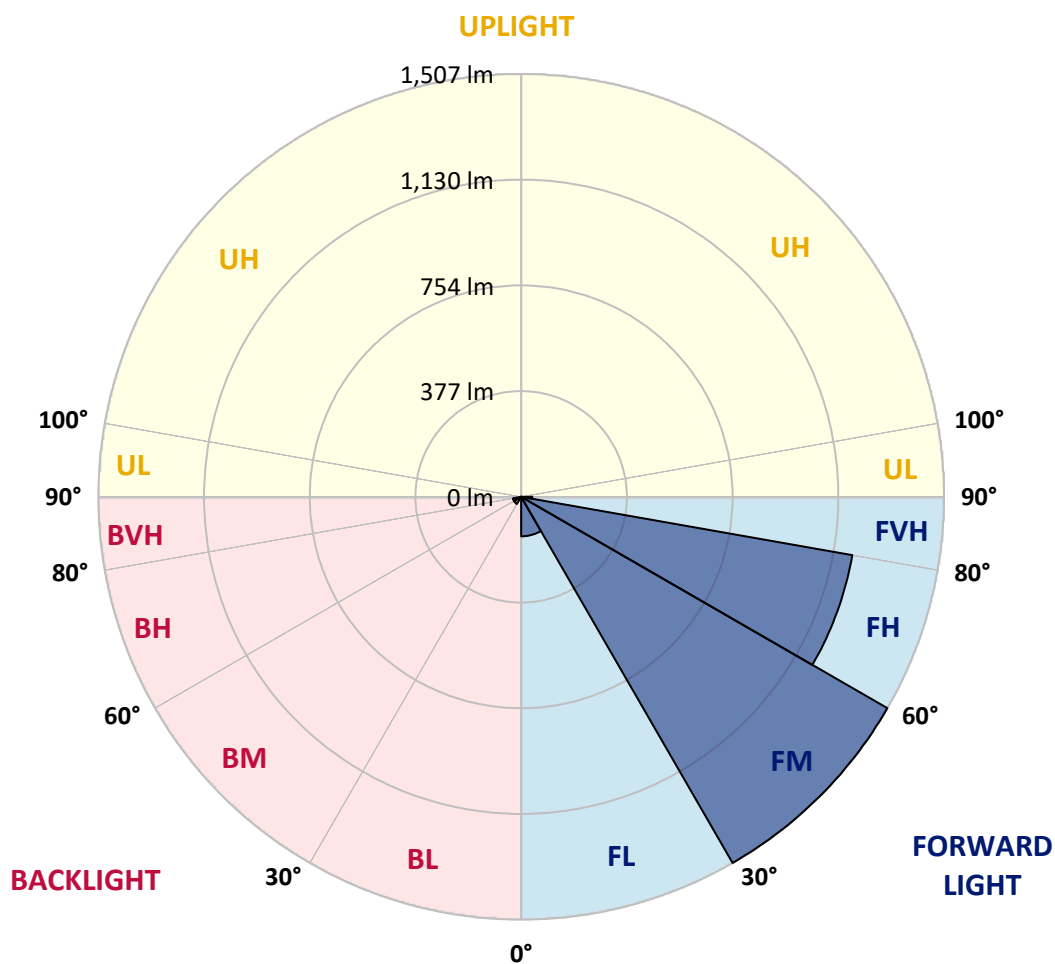
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.7	4.8			
FM	(30°-60°)	1507.1	51.0			
FH	(60°-80°)	1198.5	40.6			G1/1800
FVH	(80°-90°)	39.7	1.3			G1/100
BL	(0°-30°)	8.4	0.3	B0/110		
BM	(30°-60°)	29.3	1.0	B0/220		
BH	(60°-80°)	29.0	1.0	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	56.4	55.4	53.4	51.3	50.3	48.2	47.2	45.1	45.1	44.1	45.1
5°	82.1	78.0	73.9	70.8	67.7	64.6	58.5	54.4	53.4	53.4	51.3
7.5°	154.9	148.8	144.7	138.5	127.2	96.5	71.8	66.7	65.7	64.6	62.6
10°	176.5	175.5	173.4	166.2	157.0	140.6	124.2	85.2	83.1	80.0	81.1
12.5°	253.4	250.4	252.4	239.1	219.6	179.6	163.2	145.7	141.6	138.5	127.2
15°	346.8	341.7	276.0	266.8	249.3	247.3	187.8	168.3	164.2	157.0	149.8
17.5°	367.3	370.4	365.3	343.7	305.8	274.0	267.8	213.4	207.3	204.2	196.0
20°	473.0	473.0	452.5	373.5	374.5	342.7	309.9	271.9	245.2	239.1	247.3
22.5°	488.4	490.5	484.3	490.5	402.2	405.3	408.4	385.8	376.6	365.3	350.9
25°	571.5	574.6	560.3	502.8	520.2	471.0	473.0	444.3	429.9	453.5	449.4
27.5°	649.5	651.6	569.5	568.5	550.0	567.4	592.1	566.4	559.2	549.0	529.5
30°	683.4	687.5	661.8	686.5	654.7	617.7	649.5	686.5	679.3	661.8	667.0
32.5°	830.1	832.2	817.8	738.8	736.7	737.8	785.0	759.3	750.1	729.6	732.6
35°	1010.7	1009.7	896.8	878.3	827.0	858.9	860.9	885.5	853.7	876.3	854.7
37.5°	1155.4	1149.2	1075.4	1055.9	988.1	960.4	979.9	962.5	940.9	959.4	952.2
40°	1282.6	1288.8	1254.9	1176.9	1138.0	1096.9	1091.8	1043.5	1064.1	1048.7	1046.6
42.5°	1383.2	1393.5	1372.9	1298.0	1243.6	1236.5	1214.9	1155.4	1188.2	1159.5	1163.6
45°	1507.3	1504.3	1466.3	1388.3	1351.4	1360.6	1374.0	1327.8	1329.8	1319.6	1296.0
47.5°	1625.4	1624.3	1600.7	1490.9	1444.8	1468.4	1545.3	1535.1	1497.1	1512.5	1458.1
50°	1725.9	1726.9	1699.2	1577.1	1518.6	1574.0	1723.9	1736.2	1717.7	1722.8	1659.2
52.5°	1760.8	1762.8	1750.5	1626.4	1565.8	1650.0	1868.5	1932.2	1950.6	1955.8	1886.0
55°	1725.9	1733.1	1730.0	1622.3	1564.8	1683.8	1994.7	2124.0	2172.3	2198.9	2156.9
57.5°	1660.2	1666.4	1678.7	1611.0	1554.5	1695.1	2106.6	2386.7	2472.9	2528.3	2542.7
60°	1583.3	1590.5	1627.4	1598.7	1539.2	1675.6	2166.1	2623.8	2777.7	2899.8	3092.7
62.5°	1478.6	1485.8	1516.6	1487.9	1424.2	1539.2	2032.7	2689.4	2903.9	3078.3	3437.5
63°	1442.7	1446.8	1470.4	1437.6	1380.1	1485.8	1975.3	2693.5	2921.3	3104.0	3510.3
65°	1134.9	1143.1	1169.8	1134.9	1122.6	1228.2	1647.9	2561.2	2875.1	3073.2	3572.9
67.5°	619.8	630.0	670.0	654.7	725.5	844.5	1092.8	1869.6	2299.5	2580.7	3150.1
70°	450.5	450.5	484.3	494.6	529.5	621.8	721.4	950.2	1200.5	1527.9	2255.4
72.5°	327.3	334.5	363.2	392.0	442.3	554.1	711.1	552.0	568.5	670.0	1187.2
75°	163.2	177.5	209.3	243.2	295.5	421.7	753.2	572.6	520.2	506.9	606.4
77.5°	38.0	39.0	63.6	125.2	150.8	242.2	596.2	699.8	630.0	596.2	533.6
80°	19.5	20.5	25.7	62.6	68.7	87.2	313.0	738.8	747.0	726.5	599.2
82.5°	10.3	10.3	15.4	26.7	26.7	30.8	89.3	449.4	622.8	707.0	691.6
85°	4.1	4.1	9.2	13.3	14.4	13.3	24.6	176.5	311.9	405.3	542.8
87.5°	1.0	1.0	3.1	5.1	6.2	7.2	11.3	32.8	54.4	74.9	125.2
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°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	44.1	44.1	44.1	43.1	43.1	43.1	43.1	42.1	42.1	42.1	39.0
5°	50.3	50.3	49.3	48.2	48.2	47.2	47.2	47.2	46.2	46.2	45.1
7.5°	61.6	60.5	59.5	57.5	56.4	55.4	55.4	53.4	52.3	51.3	50.3
10°	81.1	80.0	77.0	74.9	72.9	70.8	68.7	67.7	65.7	64.6	62.6
12.5°	110.8	96.5	93.4	90.3	86.2	83.1	81.1	79.0	78.0	74.9	75.9
15°	160.1	157.0	153.9	151.9	146.7	124.2	114.9	112.9	108.8	105.7	101.6
17.5°	193.9	190.9	183.7	172.4	170.3	166.2	161.1	156.0	131.3	119.0	114.9
20°	251.4	246.3	253.4	251.4	243.2	235.0	225.7	220.6	214.5	203.2	184.7
22.5°	315.0	315.0	305.8	299.6	289.4	276.0	275.0	263.7	242.2	234.0	230.9
25°	449.4	455.6	437.1	413.5	411.5	399.2	369.4	354.0	343.7	332.5	327.3
27.5°	533.6	514.1	496.6	495.6	483.3	445.3	428.9	420.7	425.8	399.2	382.7
30°	645.4	631.1	627.0	608.5	585.9	558.2	553.1	541.8	513.1	475.1	453.5
32.5°	722.4	729.6	742.9	722.4	695.7	688.5	685.4	654.7	615.7	590.0	565.4
35°	867.1	856.8	837.3	805.5	797.3	797.3	774.7	728.5	700.8	684.4	678.3
37.5°	950.2	934.8	906.1	890.7	894.8	887.6	835.2	809.6	797.3	793.2	753.2
40°	1039.4	1009.7	984.0	988.1	997.4	946.1	917.3	903.0	907.1	874.2	824.0
42.5°	1140.0	1101.0	1087.7	1111.3	1063.0	1025.1	1002.5	1010.7	993.3	946.1	913.2
45°	1256.0	1217.0	1225.2	1218.0	1158.5	1123.6	1126.7	1109.2	1076.4	1040.5	1008.7
47.5°	1394.5	1375.0	1399.6	1327.8	1276.5	1265.2	1258.0	1223.1	1180.0	1151.3	1121.5
50°	1599.7	1610.0	1587.4	1502.2	1455.0	1451.9	1410.9	1359.6	1324.7	1276.5	1230.3
52.5°	1872.6	1902.4	1834.7	1767.0	1738.2	1716.7	1649.0	1590.5	1532.0	1473.5	1404.7
55°	2167.1	2225.6	2149.7	2118.9	2109.7	2123.0	2043.0	1983.5	1911.6	1830.6	1746.4
57.5°	2659.7	2675.1	2624.8	2667.9	2701.7	2706.9	2727.4	2683.3	2655.6	2632.0	2549.9
60°	3291.7	3318.4	3365.6	3517.5	3579.1	3666.3	3687.8	3745.3	3757.6	3778.1	3711.4
62.5°	3628.3	3686.8	3837.6	4016.2	4094.2	4177.3	4244.0	4296.3	4337.3	4404.0	4288.1
63°	3668.3	3727.8	3886.9	4054.1	4136.2	4221.4	4284.0	4325.0	4372.2	4419.4	4313.7
65°	3662.2	3727.8	3930.0	4019.3	4107.5	4154.7	4211.1	4214.2	4301.4	4234.7	4223.4
67.5°	3247.6	3421.0	3562.6	3659.1	3734.0	3770.9	3794.5	3823.3	3881.8	3777.1	3835.6
70°	2547.8	2769.5	2895.7	3014.7	3111.2	3138.9	3159.4	3249.7	3169.6	3178.9	3162.5
72.5°	1449.9	1793.6	2008.1	2136.4	2295.4	2324.1	2372.4	2448.3	2345.7	2398.0	2351.8
75°	777.8	912.2	1099.0	1230.3	1293.9	1355.5	1415.0	1369.9	1341.1	1278.5	1266.2
77.5°	560.3	574.6	590.0	578.7	562.3	558.2	532.5	483.3	470.0	431.0	411.5
80°	561.3	507.9	446.4	368.4	286.3	249.3	234.0	228.8	228.8	228.8	215.5
82.5°	635.2	568.5	489.5	392.0	303.7	239.1	198.0	191.9	187.8	187.8	175.5
85°	516.1	508.9	451.5	361.2	283.2	214.5	166.2	135.4	124.2	110.8	105.7
87.5°	125.2	130.3	113.9	99.5	83.1	65.7	57.5	46.2	39.0	35.9	33.9
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°	85°	95°	105°	115°	125°	135°
0°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	39.0	38.0	36.9	36.9	35.9	30.8	26.7	23.6	21.5	20.5	19.5
5°	45.1	44.1	44.1	43.1	43.1	34.9	23.6	20.5	18.5	16.4	16.4
7.5°	49.3	48.2	48.2	47.2	46.2	42.1	23.6	19.5	15.4	16.4	8.2
10°	61.6	60.5	58.5	57.5	56.4	53.4	28.7	20.5	18.5	7.2	6.2
12.5°	74.9	71.8	69.8	67.7	63.6	54.4	28.7	21.5	11.3	9.2	10.3
15°	96.5	92.3	88.2	85.2	82.1	70.8	38.0	26.7	12.3	11.3	11.3
17.5°	109.8	104.7	100.6	99.5	97.5	70.8	36.9	18.5	14.4	14.4	11.3
20°	168.3	167.3	158.0	146.7	136.5	104.7	50.3	23.6	19.5	14.4	14.4
22.5°	220.6	193.9	180.6	164.2	154.9	125.2	51.3	25.7	22.6	17.4	13.3
25°	301.7	272.9	257.6	235.0	226.8	157.0	56.4	32.8	25.7	18.5	15.4
27.5°	367.3	346.8	337.6	326.3	298.6	195.0	65.7	34.9	25.7	20.5	15.4
30°	427.9	428.9	401.2	366.3	338.6	232.9	69.8	38.0	26.7	19.5	15.4
32.5°	562.3	529.5	482.3	451.5	422.8	267.8	75.9	41.0	25.7	19.5	15.4
35°	640.3	590.0	563.3	535.6	498.7	319.1	83.1	40.0	25.7	18.5	14.4
37.5°	703.9	665.9	639.3	599.2	560.3	358.1	87.2	36.9	24.6	17.4	12.3
40°	783.9	757.3	709.0	674.2	634.1	374.5	90.3	33.9	22.6	15.4	10.3
42.5°	877.3	838.3	793.2	760.3	692.6	425.8	99.5	31.8	20.5	13.3	9.2
45°	974.8	924.5	895.8	827.0	748.0	462.8	106.7	30.8	18.5	11.3	7.2
47.5°	1066.1	1035.3	972.7	885.5	849.6	520.2	104.7	28.7	16.4	9.2	5.1
50°	1192.3	1150.3	1065.1	1015.8	957.4	566.4	101.6	27.7	14.4	8.2	4.1
52.5°	1368.8	1279.6	1212.9	1156.4	1057.9	631.1	99.5	25.7	12.3	6.2	2.1
55°	1654.1	1514.5	1432.4	1326.8	1219.0	707.0	94.4	22.6	11.3	5.1	2.1
57.5°	2345.7	2194.8	2018.3	1817.2	1625.4	884.5	92.3	20.5	9.2	3.1	1.0
60°	3571.9	3473.4	3213.8	2888.5	2616.6	1244.7	99.5	17.4	7.2	2.1	1.0
62.5°	4287.1	4196.8	4012.1	3777.1	3411.8	1622.3	111.8	14.4	5.1	2.1	1.0
63°	4333.2	4260.4	4078.8	3847.9	3518.5	1674.6	118.0	14.4	5.1	2.1	1.0
65°	4247.1	4183.4	4081.8	3902.3	3687.8	1826.5	136.5	13.3	4.1	2.1	1.0
67.5°	3814.0	3746.3	3676.5	3601.6	3448.7	1875.7	149.8	12.3	3.1	2.1	1.0
70°	3154.2	3092.7	3016.8	2983.9	2900.8	1753.6	157.0	11.3	3.1	2.1	1.0
72.5°	2302.6	2231.8	2170.2	2080.9	2001.9	1326.8	115.9	11.3	2.1	2.1	1.0
75°	1169.8	1095.9	953.3	886.6	817.8	556.1	47.2	9.2	2.1	2.1	1.0
77.5°	341.7	306.8	248.3	201.1	152.9	99.5	17.4	6.2	2.1	2.1	1.0
80°	202.1	171.4	141.6	111.8	90.3	48.2	10.3	4.1	2.1	3.1	1.0
82.5°	165.2	147.8	122.1	100.6	79.0	35.9	7.2	4.1	3.1	3.1	1.0
85°	95.4	86.2	72.9	58.5	49.3	25.7	5.1	4.1	3.1	4.1	1.0
87.5°	34.9	31.8	29.8	28.7	26.7	18.5	5.1	5.1	4.1	5.1	1.0
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):

	145°	155°	165°	175°	180°
0°	28.7	28.7	28.7	28.7	28.7
2.5°	18.5	19.5	19.5	19.5	19.5
5°	17.4	17.4	15.4	12.3	12.3
7.5°	7.2	8.2	8.2	8.2	8.2
10°	6.2	10.3	11.3	11.3	11.3
12.5°	9.2	9.2	10.3	10.3	11.3
15°	9.2	11.3	12.3	12.3	12.3
17.5°	12.3	10.3	11.3	11.3	12.3
20°	11.3	12.3	12.3	12.3	12.3
22.5°	13.3	12.3	11.3	12.3	12.3
25°	12.3	12.3	11.3	11.3	11.3
27.5°	12.3	11.3	11.3	11.3	11.3
30°	12.3	11.3	10.3	10.3	10.3
32.5°	11.3	10.3	10.3	9.2	9.2
35°	10.3	8.2	9.2	9.2	9.2
37.5°	9.2	7.2	7.2	8.2	7.2
40°	7.2	6.2	5.1	6.2	6.2
42.5°	5.1	4.1	4.1	4.1	4.1
45°	4.1	2.1	2.1	2.1	2.1
47.5°	2.1	1.0	1.0	1.0	1.0
50°	1.0	0.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
63°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.0	1.0	1.0	0.0	0.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	2.1	2.1	2.1	1.0	1.0
80°	3.1	2.1	2.1	1.0	1.0
82.5°	3.1	3.1	3.1	2.1	1.0
85°	4.1	3.1	3.1	3.1	1.0
87.5°	5.1	4.1	4.1	3.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)