

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: P240270

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-FP**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-SL3-FP  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7262.9 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4

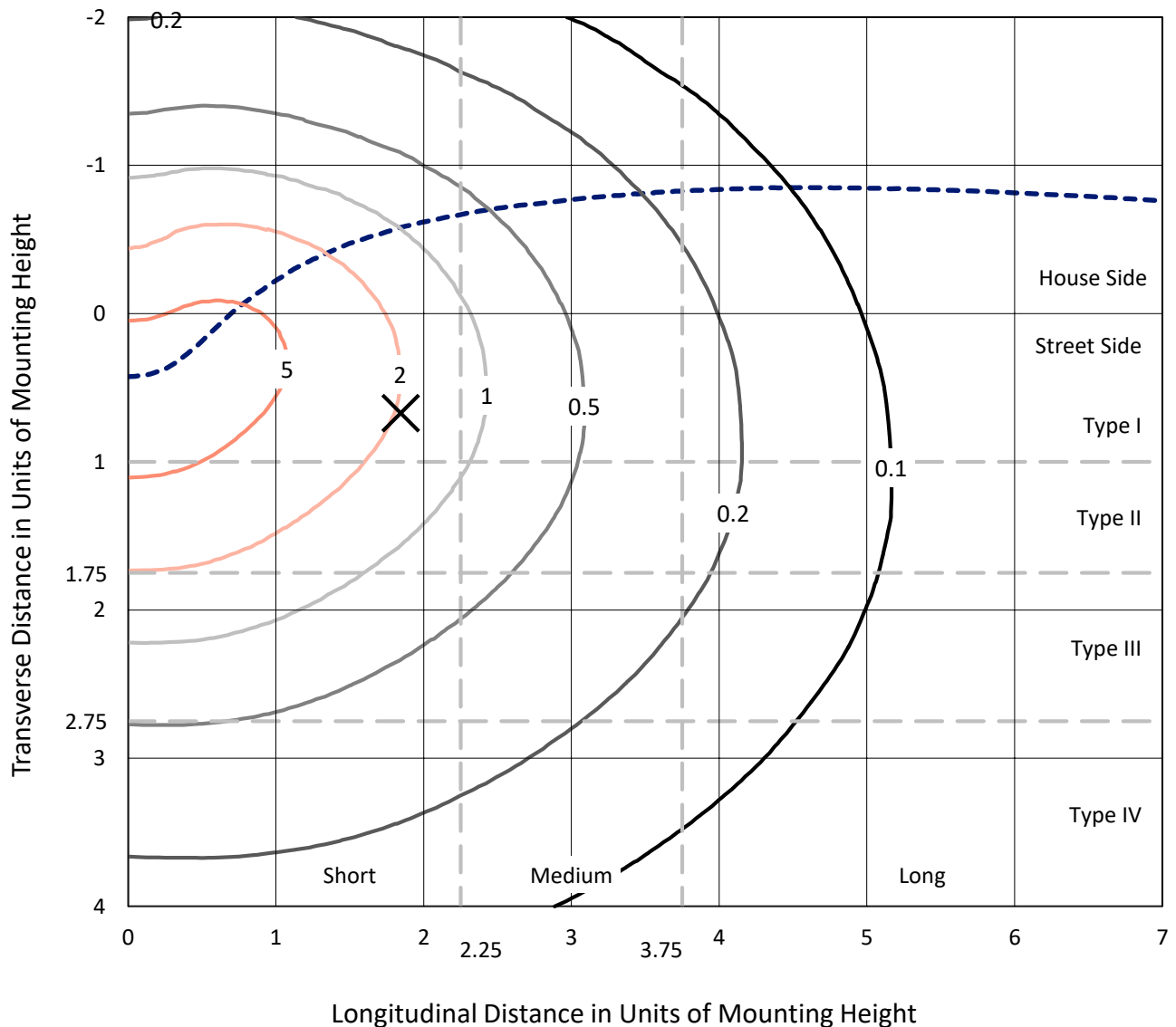
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

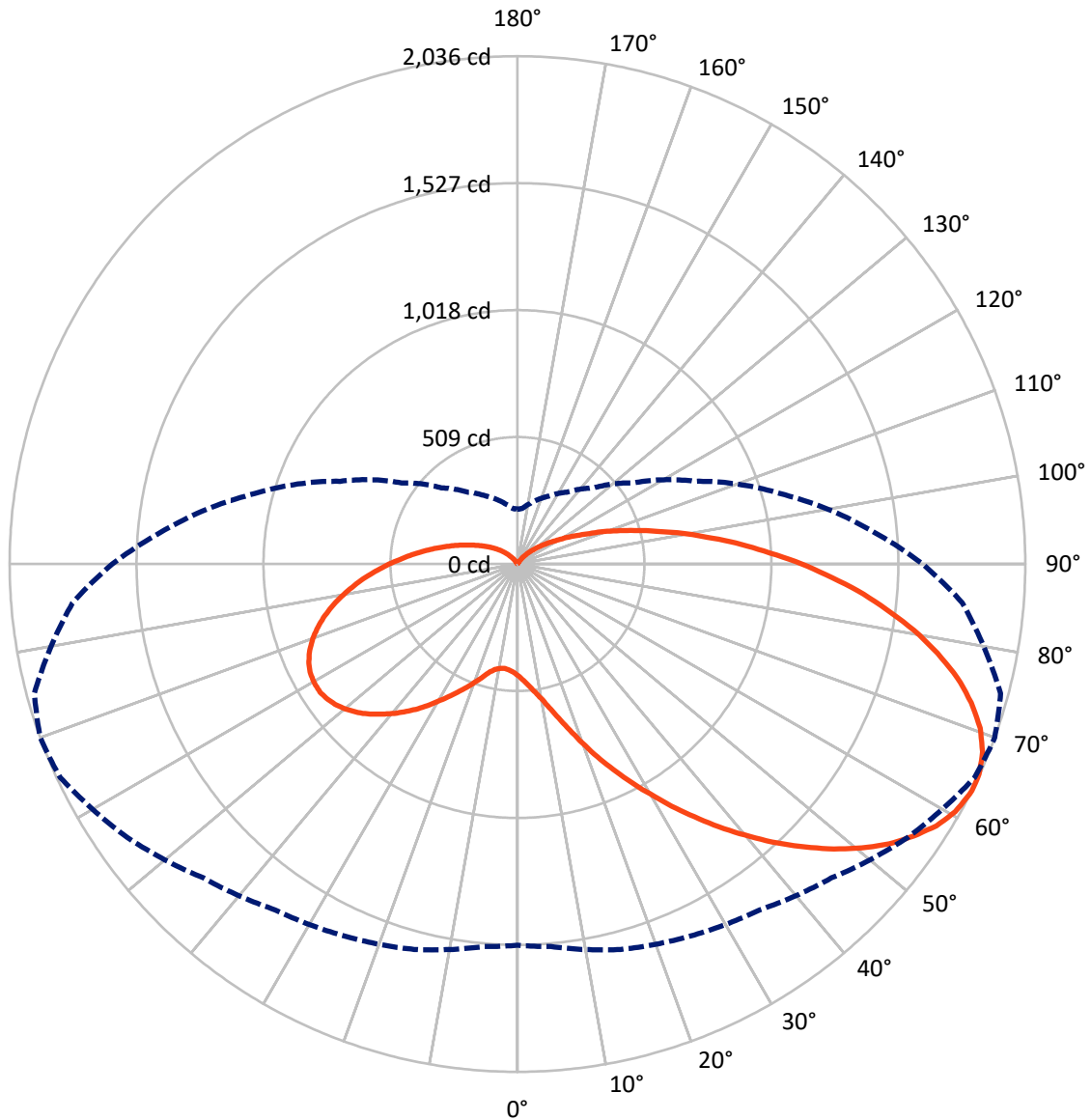
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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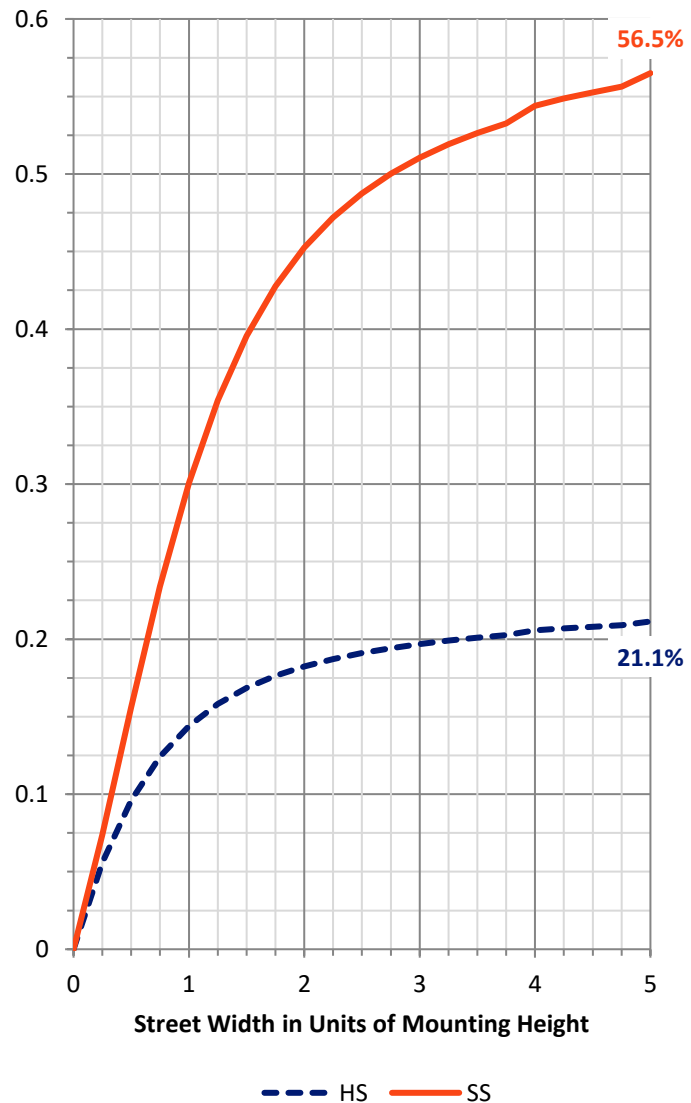
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1631.3	394.7	2026.0
	% Fixture	22.5	5.4	27.9
<b>Street Side</b>	Lumens	4409.4	827.6	5237.0
	% Fixture	60.7	11.4	72.1
<b>Total</b>	Lumens	6040.7	1222.3	7262.9
	% Fixture	83.2	16.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	0.6
10°-20°	155.2	2.1
20°-30°	329.6	4.5
30°-40°	568.4	7.8
40°-50°	838.5	11.5
50°-60°	1067.2	14.7
60°-70°	1158.4	15.9
70°-80°	1059.3	14.6
80°-90°	819.5	11.3
90°-100°	552.2	7.6
100°-110°	336.0	4.6
110°-120°	188.2	2.6
120°-130°	95.8	1.3
130°-140°	39.6	0.5
140°-150°	9.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6040.7	83.2
0°-180°	7262.9	100.0



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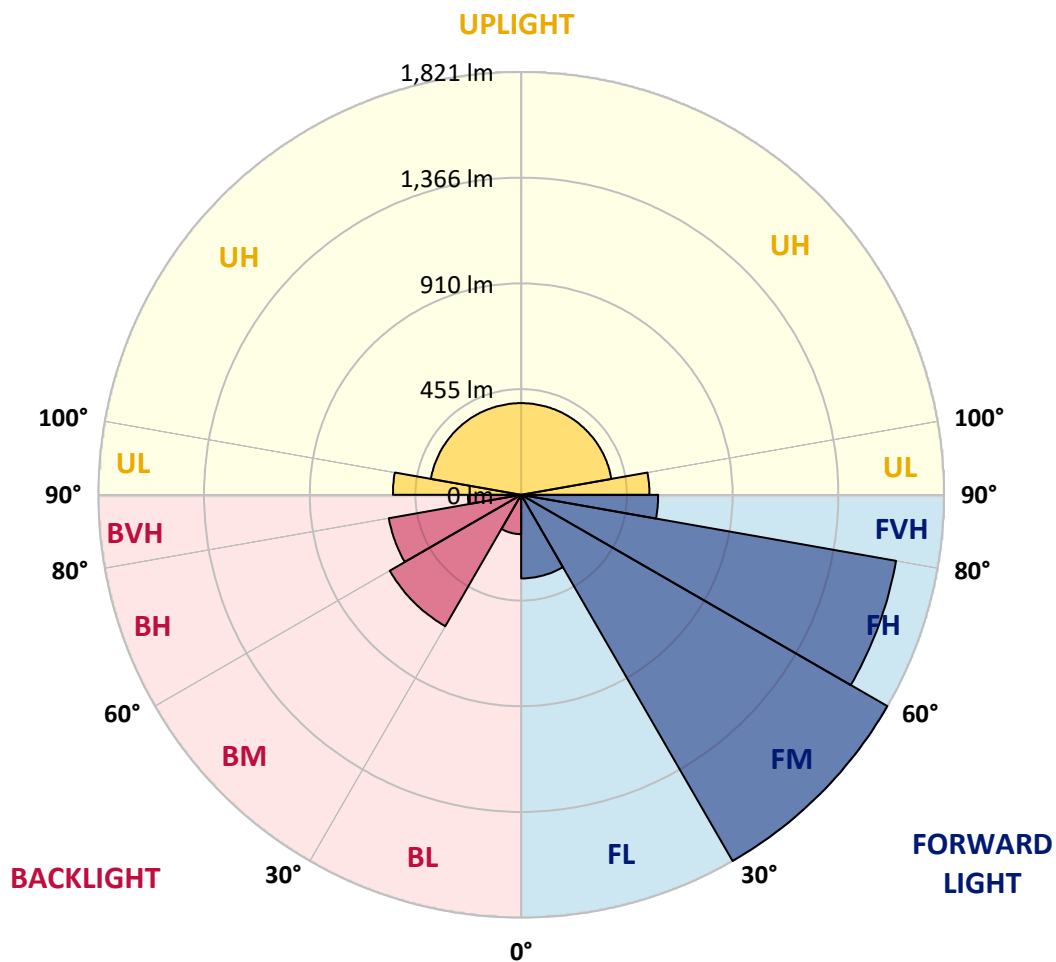
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.9	5.0			
FM	(30°-60°)	1820.7	25.1			
FH	(60°-80°)	1638.9	22.6			G1/1800
FVH	(80°-90°)	589.9	8.1			G4/750
BL	(0°-30°)	169.4	2.3	B1/500		
BM	(30°-60°)	653.5	9.0	B1/1000		
BH	(60°-80°)	578.8	8.0	B2/1000		G2/1000
BVH	(80°-90°)	229.5	3.2			G3/500
UL	(90°-100°)	552.2	7.6		U4/1000	
UH	(100°-180°)	394.7	5.4		U3/500	

**BUG Rating: B2-U4-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	499.5	498.6	497.6	492.7	490.6	483.8	477.8	470.9	466.9	463.0	455.0
5°	552.0	549.9	547.0	542.1	533.2	523.2	511.4	497.6	490.6	482.7	466.9
7.5°	603.4	602.4	601.4	591.6	582.7	566.8	549.9	530.2	520.3	507.5	483.8
10°	659.8	661.7	655.8	646.9	632.1	615.3	593.5	566.8	553.9	540.1	508.4
12.5°	724.0	723.1	718.1	703.3	687.5	668.7	642.0	613.3	598.4	579.7	539.1
15°	789.4	785.4	779.5	769.6	749.8	728.0	699.4	666.8	649.9	629.1	583.6
17.5°	857.6	854.7	850.7	833.9	817.0	790.3	766.6	731.0	710.2	687.5	635.0
20°	925.9	923.9	918.9	906.1	885.4	861.6	838.8	801.3	777.5	749.8	690.5
22.5°	998.1	997.1	992.2	977.3	960.6	945.6	917.0	874.4	851.7	818.1	748.8
25°	1072.3	1073.3	1064.4	1050.5	1038.6	1024.8	995.1	950.6	922.9	888.3	810.2
27.5°	1152.4	1148.5	1142.5	1129.6	1119.7	1104.0	1073.3	1027.8	1001.1	963.5	876.5
30°	1226.6	1227.5	1214.8	1206.8	1199.9	1185.1	1156.3	1109.9	1080.2	1045.6	945.6
32.5°	1306.7	1302.7	1293.8	1286.0	1281.0	1265.2	1238.5	1197.9	1168.2	1124.7	1015.9
35°	1377.0	1376.0	1366.0	1368.1	1355.2	1342.3	1322.6	1284.9	1254.2	1212.7	1094.0
37.5°	1449.1	1447.2	1440.2	1442.3	1427.4	1417.5	1404.6	1372.0	1346.3	1303.8	1175.2
40°	1517.4	1512.4	1507.5	1510.5	1499.6	1492.7	1485.7	1463.0	1436.3	1391.8	1255.3
42.5°	1572.8	1571.9	1568.9	1573.8	1563.0	1560.9	1564.9	1553.0	1529.3	1483.8	1336.4
45°	1620.3	1620.3	1624.2	1627.2	1617.3	1620.3	1640.1	1637.1	1618.3	1572.8	1420.5
47.5°	1657.9	1656.9	1666.8	1670.8	1665.8	1676.7	1709.4	1723.2	1707.3	1664.9	1498.6
50°	1679.7	1679.7	1697.5	1702.4	1703.4	1724.2	1769.7	1800.3	1789.4	1748.8	1572.8
52.5°	1685.6	1687.6	1712.3	1723.2	1727.2	1759.8	1822.1	1868.6	1864.6	1826.1	1640.1
55°	1675.7	1678.7	1711.3	1728.1	1739.9	1785.5	1863.6	1928.9	1925.9	1890.3	1695.4
57.5°	1648.0	1652.0	1693.5	1718.3	1739.9	1799.4	1894.3	1976.4	1980.3	1946.7	1742.9
60°	1604.5	1609.4	1659.8	1692.5	1726.1	1798.3	1910.2	2007.0	2015.9	1981.4	1774.6
62.5°	1544.1	1550.1	1608.4	1653.9	1699.4	1784.5	1911.1	2021.9	2033.7	2003.1	1789.4
63°	1528.3	1539.1	1599.5	1645.0	1692.5	1779.5	1910.2	2022.9	2035.8	2005.1	1790.5
65°	1467.0	1478.9	1548.0	1601.5	1658.8	1756.8	1896.2	2018.0	2033.7	2004.1	1785.5
67.5°	1380.9	1396.7	1470.0	1535.2	1608.4	1716.2	1865.7	1993.2	2011.0	1982.4	1763.8
70°	1283.0	1304.8	1381.9	1463.0	1544.1	1661.9	1818.1	1950.7	1967.5	1937.8	1720.2
72.5°	1184.1	1207.8	1291.9	1378.9	1470.0	1594.6	1751.8	1886.4	1902.2	1876.5	1659.8
75°	1084.1	1101.9	1189.0	1289.9	1388.9	1516.4	1678.7	1804.3	1822.1	1791.4	1584.7
77.5°	978.4	1003.0	1093.0	1194.9	1300.8	1436.3	1591.6	1710.3	1721.2	1690.5	1487.8
80°	874.4	902.1	990.2	1100.0	1211.8	1342.3	1490.7	1606.4	1612.4	1579.7	1383.8
82.5°	783.5	809.2	899.2	1005.0	1117.8	1251.3	1386.8	1485.7	1489.7	1459.0	1276.0
85°	695.4	718.1	804.2	913.0	1026.7	1150.4	1280.0	1364.1	1369.0	1332.4	1162.3
87.5°	616.2	634.0	717.2	825.9	936.7	1058.4	1166.3	1236.4	1237.5	1201.9	1049.5
90°	548.0	558.9	640.0	746.9	851.7	960.6	1061.4	1122.7	1114.8	1077.3	932.8
92.5°	481.7	490.6	564.9	668.7	772.5	870.5	958.5	998.1	989.2	956.6	828.9
95°	428.3	432.3	500.5	598.4	691.4	784.4	859.6	888.3	879.4	844.8	726.1
97.5°	373.9	379.8	442.1	531.2	621.2	705.3	766.6	785.4	768.6	735.0	636.1
100°	333.4	335.3	387.8	472.8	557.9	631.1	679.5	691.4	673.6	642.9	553.9
102.5°	295.7	294.8	342.3	421.4	497.6	558.9	600.5	599.4	580.6	553.9	480.8
105°	263.1	262.2	298.7	371.9	440.2	494.6	525.3	521.3	502.5	476.8	418.4
107.5°	232.4	234.5	261.2	325.4	386.8	435.3	458.0	449.1	432.3	408.6	363.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	209.7	209.7	230.5	285.9	342.3	381.9	399.7	386.8	370.9	347.2	313.5
112.5°	188.9	188.9	203.8	249.3	300.7	336.3	348.2	331.3	312.6	296.8	272.0
115°	170.1	170.1	180.0	216.7	262.2	291.8	298.7	280.9	265.1	253.3	237.4
117.5°	154.4	154.4	160.3	186.0	226.5	254.2	258.2	238.3	227.5	215.6	206.7
120°	139.4	140.5	142.4	159.3	192.9	216.7	218.6	199.8	190.9	184.9	180.0
122.5°	126.6	126.6	127.6	137.5	164.2	184.0	184.0	168.2	162.2	160.3	156.3
125°	114.8	114.8	114.8	118.7	136.5	152.3	150.4	140.5	137.5	137.5	135.5
127.5°	103.8	102.9	101.9	102.9	111.8	122.7	122.7	115.7	115.7	116.7	117.7
130°	93.0	92.0	90.0	88.1	89.0	97.0	96.0	94.0	96.0	98.9	100.9
132.5°	82.1	82.1	79.2	74.2	71.2	73.2	74.2	75.2	78.2	82.1	85.1
135°	71.2	71.2	68.2	61.4	55.4	54.4	53.4	58.4	63.3	67.3	70.3
137.5°	60.4	60.4	57.4	49.4	41.5	37.5	36.6	44.5	49.4	53.4	56.4
140°	50.4	49.4	46.4	38.6	29.7	23.7	23.7	31.6	36.6	40.5	44.5
142.5°	39.6	39.6	36.6	29.7	19.7	13.8	14.8	21.8	25.7	28.6	31.6
145°	29.7	29.7	26.7	19.7	11.9	7.0	7.9	13.8	16.8	19.7	22.7
147.5°	20.8	20.8	17.8	12.9	5.9	1.9	4.0	7.9	9.9	11.9	13.8
150°	12.9	12.9	10.8	7.0	3.0	0.0	1.0	4.0	4.9	5.9	7.9
152.5°	7.0	7.0	4.9	3.0	1.0	0.0	0.0	1.0	1.9	3.0	4.0
155°	3.0	3.0	1.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	451.0	447.1	438.2	430.3	423.4	416.4	410.5	405.6	404.6	401.6	402.6
5°	458.0	450.1	433.2	418.4	402.6	389.7	379.8	370.9	364.1	361.1	360.1
7.5°	471.9	459.0	433.2	409.5	387.8	368.0	351.2	338.3	330.4	325.4	326.4
10°	491.6	474.9	440.2	407.5	376.9	350.2	328.4	312.6	300.7	295.7	295.7
12.5°	517.3	497.6	453.1	410.5	371.9	338.3	310.6	290.8	280.0	273.0	273.0
15°	558.9	530.2	474.9	420.4	371.9	331.3	300.7	279.0	269.0	264.1	263.1
17.5°	603.4	571.7	505.4	440.2	380.8	330.4	299.7	280.9	269.0	263.1	263.1
20°	651.8	614.3	538.1	463.0	395.7	342.3	307.6	284.9	270.1	262.2	261.2
22.5°	704.3	662.8	572.8	486.7	413.5	362.0	317.5	287.9	270.1	262.2	261.2
25°	762.7	712.2	608.3	513.4	437.2	379.8	329.4	291.8	270.1	260.1	259.2
27.5°	822.0	765.7	647.9	539.1	462.0	396.7	340.2	294.8	270.1	259.2	258.2
30°	886.3	819.1	686.5	568.8	484.7	411.5	349.1	297.8	270.1	258.2	257.2
32.5°	949.6	877.4	728.0	602.4	506.5	423.4	357.1	303.7	271.1	257.2	255.2
35°	1019.9	939.7	772.5	636.1	526.2	434.2	364.1	307.6	270.1	255.2	254.2
37.5°	1093.0	1001.1	813.1	665.7	542.1	442.1	368.0	310.6	270.1	254.2	252.3
40°	1166.3	1063.4	856.6	695.4	556.9	449.1	371.9	313.5	269.0	252.3	250.2
42.5°	1237.5	1124.7	899.2	720.2	568.8	454.1	373.9	315.6	269.0	250.2	248.3
45°	1310.7	1187.0	943.7	743.9	577.7	456.0	373.9	315.6	270.1	248.3	246.3
47.5°	1380.9	1245.3	984.3	762.7	584.6	457.1	373.9	315.6	270.1	246.3	243.4
50°	1443.2	1298.8	1017.8	778.5	588.6	457.1	373.0	315.6	270.1	243.4	240.4
52.5°	1503.5	1345.3	1049.5	789.4	590.5	455.0	370.9	313.5	270.1	240.4	237.4
55°	1552.0	1386.8	1071.3	796.3	588.6	452.0	367.0	311.6	269.0	237.4	233.4
57.5°	1590.6	1416.5	1088.1	798.3	584.6	447.1	363.0	308.6	267.1	233.4	230.5
60°	1615.3	1433.4	1093.0	794.3	578.7	440.2	358.1	305.7	264.1	229.4	225.6
62.5°	1624.2	1439.3	1091.1	786.4	569.8	433.2	353.1	301.7	261.2	224.5	220.5
63°	1624.2	1438.3	1090.1	784.4	566.8	431.3	352.1	300.7	260.1	223.5	219.6
65°	1618.3	1430.4	1080.2	772.5	557.9	424.3	347.2	296.8	258.2	220.5	215.6
67.5°	1593.6	1409.6	1057.4	754.7	543.1	414.5	339.3	290.8	253.3	215.6	210.7
70°	1554.0	1374.0	1026.7	731.0	527.2	403.6	331.3	284.9	248.3	210.7	204.8
72.5°	1495.7	1324.5	988.2	703.3	508.4	391.7	322.4	277.9	241.3	204.8	197.8
75°	1423.4	1264.2	942.6	671.7	489.7	377.9	313.5	270.1	234.5	198.9	190.0
77.5°	1338.3	1194.0	890.3	639.0	467.9	364.1	302.7	261.2	227.5	192.9	182.0
80°	1243.4	1110.8	833.9	602.4	445.1	349.1	291.8	252.3	217.6	184.9	174.1
82.5°	1148.5	1027.8	774.6	564.9	422.4	334.3	280.0	242.3	208.7	177.1	166.2
85°	1045.6	940.7	716.2	526.2	398.6	317.5	268.1	231.5	199.8	169.2	157.3
87.5°	946.6	852.6	651.8	488.7	375.9	302.7	256.2	220.5	188.9	159.3	150.4
90°	850.7	768.6	596.5	450.1	351.2	285.9	243.4	208.7	178.1	149.4	142.4
92.5°	757.7	683.5	536.1	414.5	328.4	270.1	229.4	196.8	167.2	140.5	134.5
95°	670.6	609.4	485.7	378.9	306.7	254.2	216.7	186.0	155.3	129.6	125.6
97.5°	588.6	539.1	436.2	348.2	282.9	238.3	202.7	173.1	143.4	119.7	117.7
100°	519.4	476.8	389.7	316.5	262.2	222.6	190.0	160.3	131.6	109.8	109.8
102.5°	454.1	416.4	346.2	286.8	241.3	205.7	175.1	147.4	119.7	100.9	100.9
105°	396.7	366.0	309.6	260.1	221.6	190.0	161.2	134.5	106.8	92.0	92.0
107.5°	344.2	320.5	275.0	235.4	201.8	173.1	147.4	120.7	94.0	83.1	84.1



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	301.7	282.9	244.3	210.7	183.0	159.3	134.5	107.8	82.1	75.2	75.2
112.5°	261.2	246.3	215.6	190.0	166.2	144.4	120.7	94.9	72.2	68.2	68.2
115°	228.5	216.7	190.9	169.2	149.4	129.6	106.8	82.1	62.3	60.4	61.4
117.5°	199.8	190.0	170.1	152.3	134.5	115.7	94.9	70.3	54.4	54.4	54.4
120°	174.1	167.2	149.4	134.5	119.7	101.9	82.1	59.3	47.5	47.5	48.5
122.5°	153.3	146.4	133.5	118.7	104.9	89.0	70.3	49.4	41.5	42.6	43.5
125°	132.6	128.6	116.7	103.8	91.0	75.2	58.4	40.5	36.6	37.5	38.6
127.5°	115.7	112.7	100.9	90.0	78.2	63.3	47.5	32.6	30.7	32.6	33.7
130°	98.9	97.0	88.1	77.1	65.3	52.5	37.5	26.7	26.7	28.6	28.6
132.5°	84.1	82.1	74.2	63.3	53.4	40.5	28.6	21.8	22.7	24.8	24.8
135°	70.3	68.2	61.4	52.5	41.5	30.7	21.8	17.8	19.7	20.8	20.8
137.5°	57.4	55.4	49.4	40.5	30.7	21.8	15.9	13.8	15.9	17.8	17.8
140°	43.5	43.5	38.6	30.7	21.8	14.8	10.8	10.8	12.9	13.8	13.8
142.5°	32.6	31.6	28.6	21.8	13.8	8.9	7.0	7.9	9.9	10.8	10.8
145°	22.7	21.8	19.7	14.8	7.9	4.9	4.0	5.9	7.0	7.9	7.9
147.5°	14.8	13.8	12.9	8.9	4.0	1.9	1.9	4.0	4.9	5.9	5.9
150°	7.9	7.9	7.0	4.0	1.9	0.0	1.0	1.9	3.0	3.0	3.0
152.5°	4.0	4.0	3.0	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)