

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: P240315

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-FP-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)  
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-T2U-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7200.2 lumens  
Efficiency: N/A  
Efficacy: 75.0 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 - G3

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

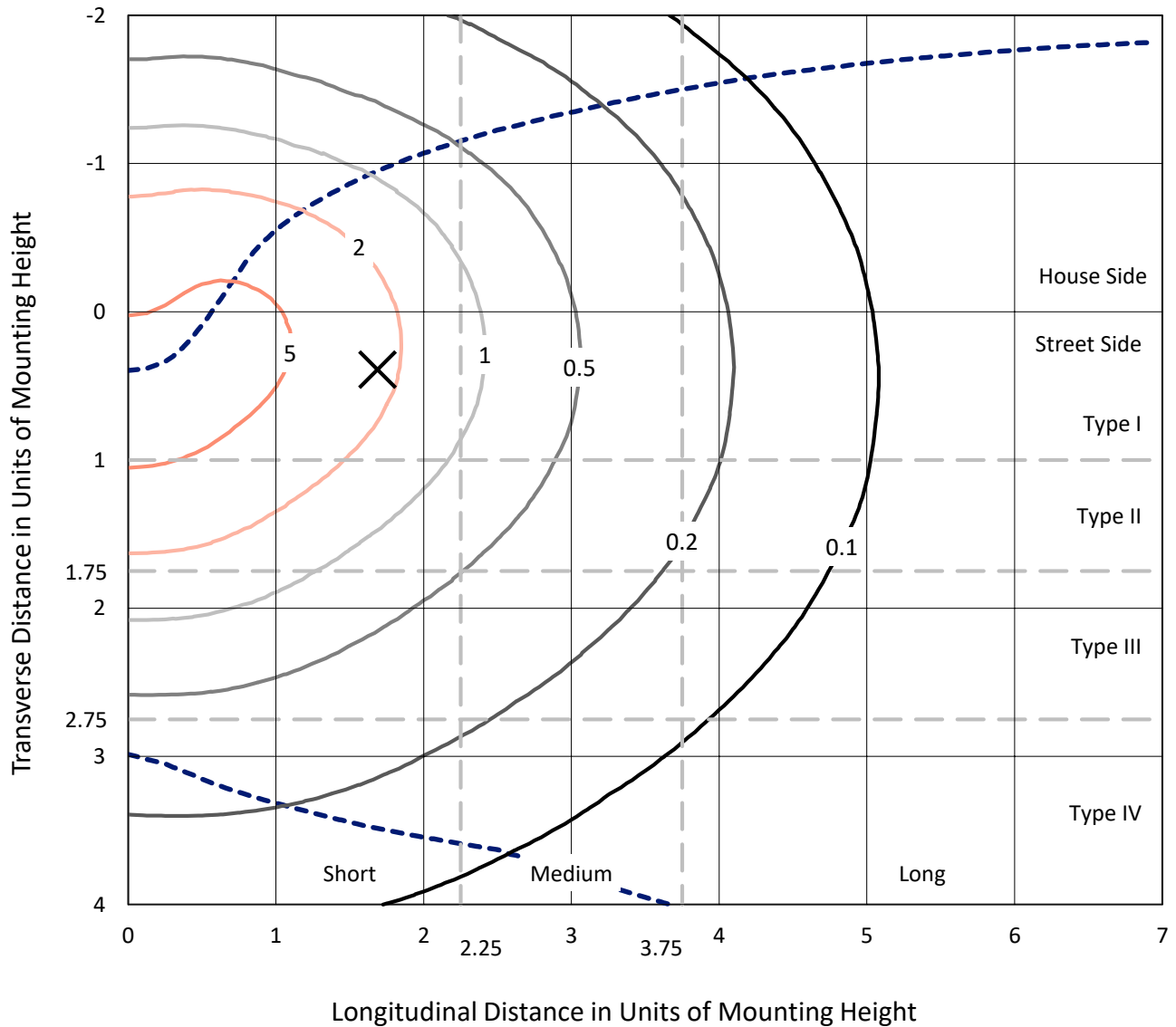


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

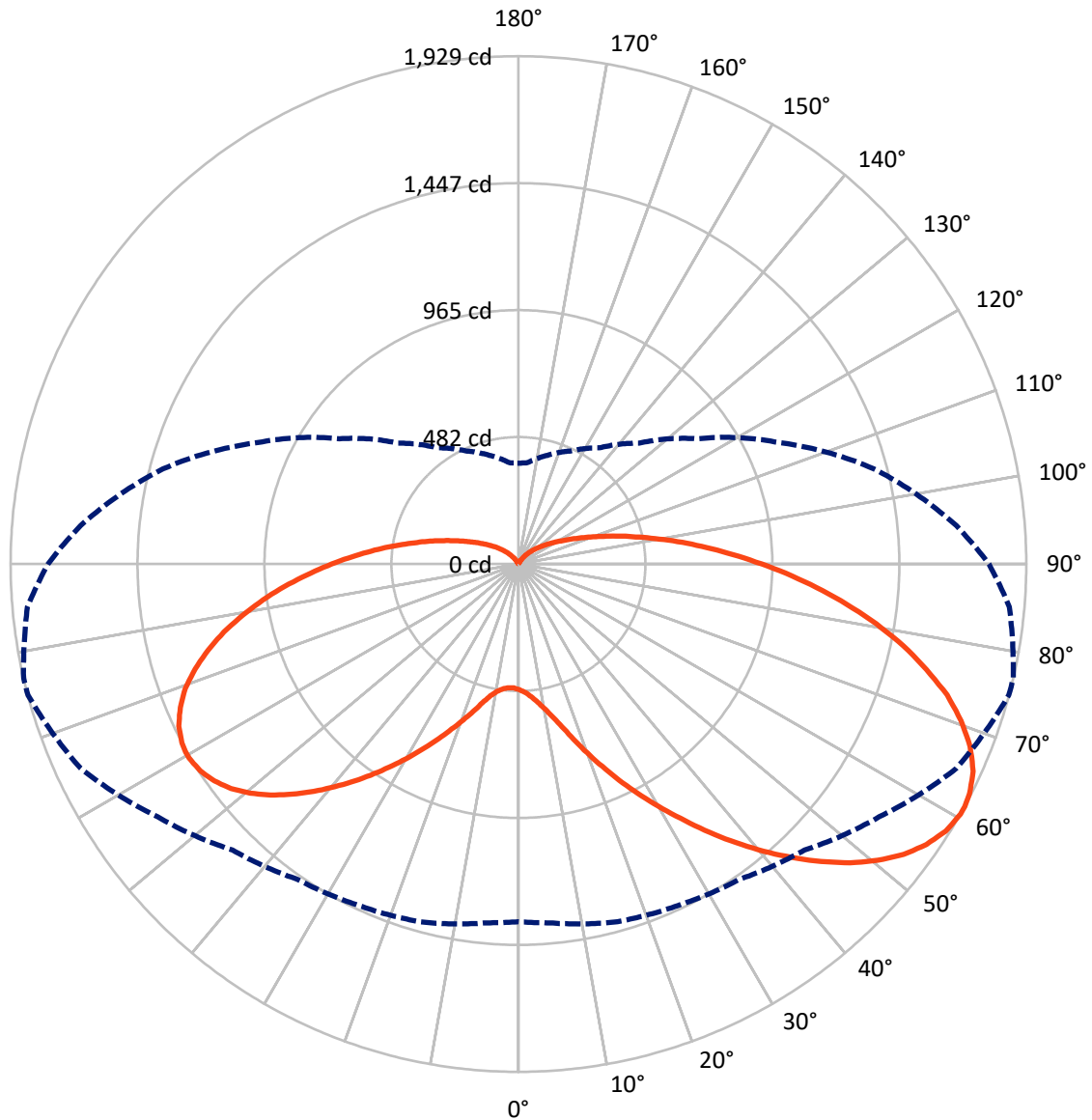


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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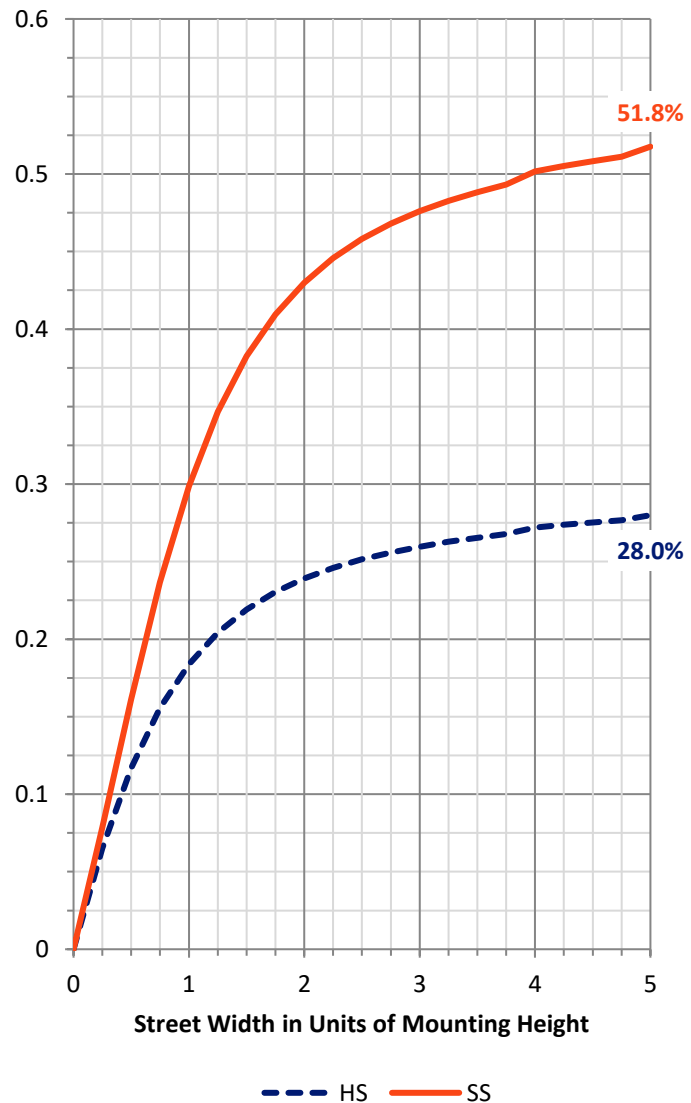
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2141.2	459.9	2601.1
	% Fixture	29.7	6.4	36.1
<b>Street Side</b>	Lumens	3950.0	649.1	4599.1
	% Fixture	54.9	9.0	63.9
<b>Total</b>	Lumens	6091.3	1108.9	7200.2
	% Fixture	84.6	15.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.5	0.7
10°-20°	167.7	2.3
20°-30°	359.3	5.0
30°-40°	619.4	8.6
40°-50°	899.2	12.5
50°-60°	1106.6	15.4
60°-70°	1146.6	15.9
70°-80°	999.7	13.9
80°-90°	745.2	10.3
90°-100°	492.6	6.8
100°-110°	300.6	4.2
110°-120°	172.2	2.4
120°-130°	91.0	1.3
130°-140°	40.3	0.6
140°-150°	11.2	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6091.3	84.6
0°-180°	7200.2	100.0



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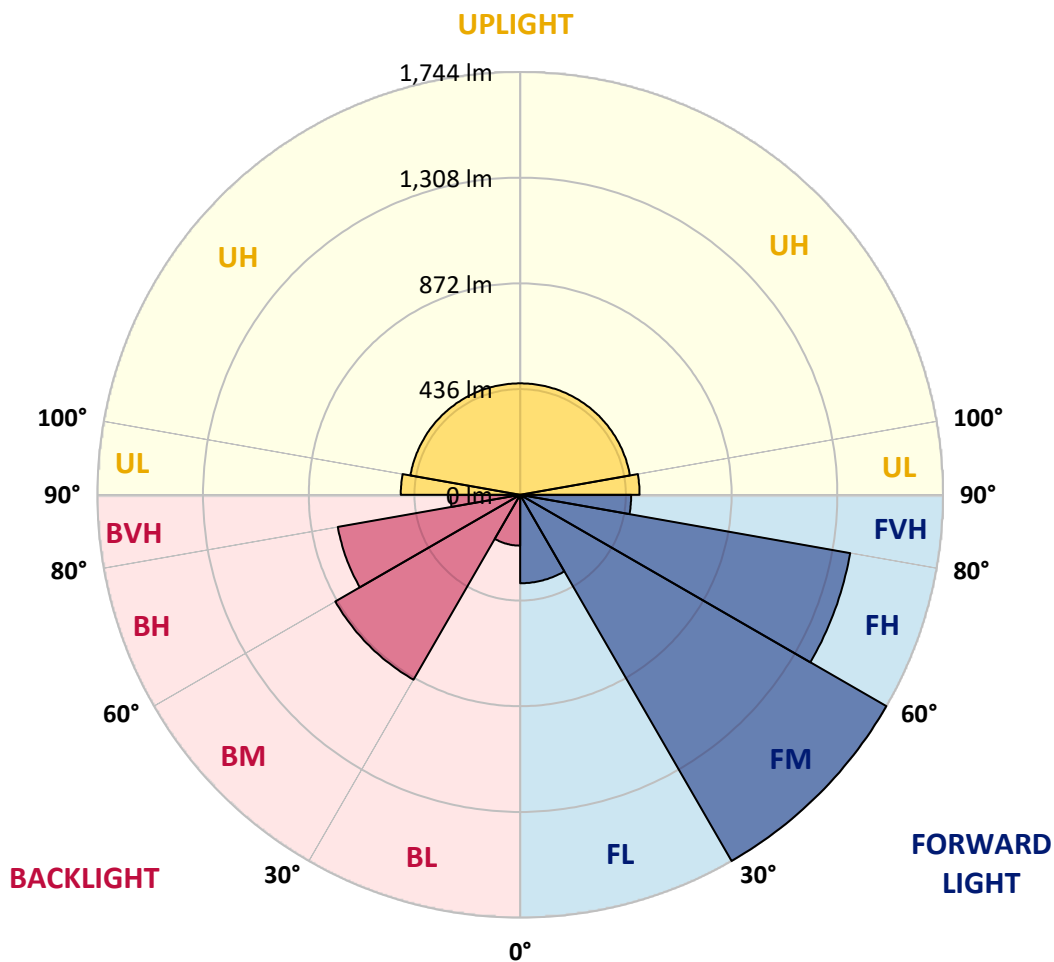
CATALOG NUMBER: UTLD-AF24-100-D-U-T2U-FP-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.8	5.1			
FM	(30°-60°)	1744.5	24.2			
FH	(60°-80°)	1382.7	19.2			G1/1800
FVH	(80°-90°)	458.1	6.4			G3/500
BL	(0°-30°)	209.7	2.9	B1/500		
BM	(30°-60°)	880.7	12.2	B1/1000		
BH	(60°-80°)	763.7	10.6	B2/1000		G2/1000
BVH	(80°-90°)	287.1	4.0			G3/500
UL	(90°-100°)	492.6	6.8		U3/500	
UH	(100°-180°)	459.9	6.4		U3/500	

**BUG Rating: B2-U4-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	519.1	519.1	517.3	516.2	512.5	507.8	503.1	496.6	490.0	488.2	484.4
5°	564.0	564.0	562.0	557.4	550.8	542.5	532.1	521.8	508.8	506.0	495.7
7.5°	614.5	612.6	607.9	603.2	593.9	581.7	567.7	551.8	534.1	530.2	515.2
10°	665.0	665.0	660.3	652.9	641.6	625.6	608.8	589.2	565.9	561.1	541.5
12.5°	723.0	721.1	713.6	708.0	694.9	677.1	658.4	634.1	606.1	601.4	576.2
15°	784.7	783.7	777.2	765.1	750.1	733.2	713.6	687.4	657.5	650.0	621.9
17.5°	853.9	848.3	844.5	831.5	815.5	794.0	779.0	751.9	719.2	710.7	676.2
20°	917.4	918.5	910.0	898.7	883.8	868.8	847.3	823.0	787.4	776.3	737.0
22.5°	989.5	989.5	981.0	969.7	954.9	947.4	923.0	897.8	854.9	846.4	802.4
25°	1064.3	1061.5	1053.0	1042.8	1035.3	1026.0	1003.5	973.6	929.6	921.2	871.7
27.5°	1133.4	1134.4	1124.2	1115.7	1114.8	1102.7	1084.0	1052.1	1010.1	997.9	944.5
30°	1204.6	1205.5	1198.0	1187.7	1188.6	1181.2	1165.2	1132.6	1092.4	1078.3	1021.2
32.5°	1275.7	1273.8	1263.5	1262.6	1259.8	1254.2	1242.0	1221.4	1177.5	1162.5	1103.6
35°	1339.3	1339.3	1328.9	1332.8	1327.1	1326.2	1322.4	1306.5	1267.2	1252.3	1188.6
37.5°	1398.2	1397.2	1391.6	1392.5	1388.8	1387.9	1394.4	1392.5	1356.1	1343.9	1278.5
40°	1452.4	1446.8	1442.1	1445.8	1442.1	1447.6	1463.6	1474.9	1444.0	1434.7	1368.3
42.5°	1489.9	1488.0	1486.0	1492.6	1487.0	1500.1	1525.4	1552.5	1533.8	1524.3	1458.1
45°	1519.8	1516.0	1519.8	1526.4	1522.5	1539.4	1584.3	1625.4	1625.4	1612.3	1544.1
47.5°	1532.0	1530.9	1540.3	1545.9	1544.1	1571.1	1631.0	1693.7	1706.8	1696.5	1627.3
50°	1529.1	1529.1	1544.1	1552.5	1554.3	1589.9	1665.6	1747.9	1777.8	1769.5	1701.1
52.5°	1511.4	1511.4	1533.8	1544.1	1551.6	1596.4	1689.0	1793.8	1837.7	1833.1	1764.7
55°	1477.6	1476.7	1505.7	1518.8	1534.8	1589.9	1698.4	1823.7	1884.5	1880.8	1819.0
57.5°	1425.3	1427.2	1462.7	1483.3	1503.9	1569.3	1693.7	1838.7	1916.3	1914.4	1853.6
60°	1358.8	1368.3	1408.5	1431.9	1462.7	1536.6	1674.1	1835.9	1928.4	1929.4	1872.3
61°	1330.9	1340.2	1381.4	1409.5	1442.1	1520.7	1662.8	1830.2	1927.6	1929.4	1874.3
62.5°	1286.0	1291.6	1340.2	1373.8	1409.5	1491.7	1640.4	1815.3	1921.0	1923.7	1871.4
65°	1201.8	1212.0	1261.6	1303.7	1345.7	1435.5	1591.8	1777.0	1893.9	1898.5	1849.9
67.5°	1109.2	1121.3	1178.4	1227.0	1275.7	1371.1	1532.0	1721.8	1845.2	1850.9	1808.8
70°	1017.5	1032.5	1092.4	1141.0	1200.9	1299.0	1458.9	1650.7	1778.8	1784.4	1747.9
72.5°	924.0	940.8	1002.6	1058.7	1119.5	1219.6	1377.6	1566.6	1695.6	1703.1	1669.4
75°	830.5	852.0	910.0	974.5	1035.3	1138.2	1293.4	1476.7	1593.6	1601.0	1575.0
77.5°	746.4	765.1	822.0	889.4	955.8	1054.1	1201.8	1370.1	1491.7	1495.4	1472.0
80°	661.2	680.9	742.5	806.3	876.3	970.8	1107.4	1262.6	1368.3	1378.6	1354.3
82.5°	585.4	605.1	663.1	732.2	799.7	890.4	1010.9	1152.2	1245.8	1256.9	1240.1
85°	521.8	535.9	592.9	659.4	724.8	810.8	926.8	1049.3	1133.4	1135.4	1118.5
87.5°	458.3	473.2	527.5	591.9	658.4	737.0	836.1	941.9	1010.1	1016.5	999.7
90°	405.9	415.3	466.6	530.2	594.8	666.8	752.9	846.4	901.6	901.6	888.5
92.5°	360.1	364.7	416.2	476.9	538.6	600.4	676.2	748.2	795.9	795.0	780.0
95°	318.0	323.6	366.6	425.6	485.4	542.5	604.2	661.2	696.7	698.6	680.9
97.5°	280.6	284.3	324.5	382.5	435.8	489.2	540.7	586.4	609.7	610.8	597.6
100°	250.6	250.6	289.0	340.5	391.9	439.6	483.5	518.1	528.4	527.5	516.2
102.5°	224.4	222.6	255.3	304.9	352.6	393.8	429.3	451.7	460.1	457.4	449.8
105°	199.2	201.0	226.2	273.0	316.1	352.6	379.6	398.4	398.4	396.5	389.1
107.5°	180.5	179.5	199.2	242.2	283.4	315.2	336.7	346.1	343.2	340.5	335.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	161.8	161.8	176.8	217.0	252.5	281.5	296.4	302.1	293.7	292.7	291.8
112.5°	145.9	145.9	158.1	191.7	225.4	249.6	261.9	262.8	253.5	252.5	253.5
115°	133.8	133.8	140.3	170.2	201.0	222.6	232.8	228.3	218.8	217.9	220.7
117.5°	121.6	121.6	127.2	148.7	177.6	197.3	203.9	197.3	188.9	188.9	192.7
120°	111.3	111.3	113.2	130.0	156.1	173.0	177.6	170.2	163.7	163.7	167.3
122.5°	101.9	100.9	101.9	113.2	134.7	150.6	152.4	145.9	141.3	142.1	147.7
125°	92.6	92.6	91.7	98.3	116.0	129.0	130.9	123.5	123.5	123.5	128.2
127.5°	84.1	84.1	82.3	85.1	98.3	109.4	109.4	103.8	105.7	107.5	111.3
130°	76.7	76.7	74.9	74.9	81.4	90.6	90.6	87.0	91.7	92.6	96.3
132.5°	69.2	68.3	66.4	63.6	66.4	72.0	72.0	71.1	78.5	79.5	82.3
135°	61.7	60.7	58.9	54.2	53.3	55.1	55.1	58.0	65.4	66.4	70.2
137.5°	53.3	53.3	50.5	45.8	40.2	40.2	40.2	45.8	53.3	55.1	57.1
140°	45.8	45.8	43.0	37.3	29.9	27.1	28.1	35.5	43.0	43.9	45.8
142.5°	37.3	37.3	34.6	29.0	21.6	16.0	17.8	25.2	31.8	33.7	35.5
145°	29.0	29.0	26.2	20.5	13.1	8.4	10.3	17.8	22.4	23.4	25.2
147.5°	21.6	21.6	18.7	13.9	7.4	2.8	5.6	10.3	15.0	16.0	17.8
150°	13.9	13.9	12.1	7.4	3.8	0.0	1.8	5.6	8.4	9.4	10.3
152.5°	7.4	7.4	5.6	3.8	1.0	0.0	0.0	1.8	3.8	3.8	4.7
155°	3.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.8
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1.0	1.0	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°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	480.7	476.9	469.5	464.0	457.4	451.7	447.1	443.3	442.4	439.6	440.6
5°	489.2	482.6	468.5	456.3	443.3	432.1	422.8	416.2	411.5	409.6	407.7
7.5°	505.0	493.9	473.2	453.5	434.9	418.0	403.0	393.8	386.2	382.5	382.5
10°	527.5	513.4	484.4	458.3	432.1	409.6	390.9	376.0	366.6	361.9	362.8
12.5°	558.4	539.6	504.1	468.5	436.7	407.7	382.5	366.6	355.4	349.7	349.7
15°	602.2	581.7	534.1	488.2	445.1	409.6	382.5	364.7	356.3	352.6	351.6
17.5°	655.5	628.5	574.2	519.1	464.8	420.8	393.8	377.0	364.7	360.1	359.1
20°	709.8	678.9	615.3	553.6	492.9	445.1	412.5	389.9	374.1	367.5	366.6
22.5°	771.6	736.1	661.2	588.3	522.8	476.9	431.1	402.2	383.4	375.0	374.1
25°	835.2	795.9	711.8	629.5	563.0	507.8	454.5	414.3	391.9	381.6	380.7
27.5°	902.5	860.4	764.0	670.6	601.4	536.8	476.1	425.6	399.4	388.1	387.3
30°	977.4	926.8	821.1	718.3	639.7	564.0	496.6	438.6	406.8	393.8	391.9
32.5°	1054.9	998.8	879.1	768.7	675.2	588.3	513.4	452.7	414.3	399.4	398.4
35°	1136.3	1073.7	939.0	818.4	707.0	609.7	528.4	464.8	419.9	404.0	402.2
37.5°	1221.4	1152.2	1001.6	865.2	737.9	628.5	540.7	475.1	425.6	406.8	405.0
40°	1306.5	1227.0	1063.3	912.8	765.9	644.4	550.8	482.6	429.3	409.6	407.7
42.5°	1388.8	1307.5	1126.0	956.8	790.3	656.5	558.4	489.2	433.0	411.5	408.7
45°	1469.2	1384.1	1185.9	994.1	810.8	665.9	563.0	492.9	437.7	411.5	408.7
47.5°	1549.8	1456.2	1244.8	1026.9	825.8	672.4	564.9	494.7	440.6	410.6	407.7
50°	1622.6	1520.7	1295.3	1055.9	837.0	674.3	564.0	493.9	441.4	408.7	405.0
52.5°	1682.5	1577.7	1337.4	1076.4	843.6	673.4	561.1	491.8	440.6	405.0	402.2
55°	1734.0	1621.7	1368.3	1089.6	843.6	668.6	556.4	488.2	436.7	400.3	396.5
57.5°	1767.6	1654.4	1388.8	1095.1	839.8	660.3	548.1	481.7	433.0	393.8	389.9
60°	1787.3	1670.3	1397.2	1091.4	829.6	649.0	538.6	474.1	427.4	386.2	382.5
61°	1789.1	1672.2	1397.2	1087.6	824.9	644.4	535.0	471.4	424.6	383.4	378.8
62.5°	1787.3	1670.3	1392.5	1079.3	815.5	636.0	527.5	464.8	419.0	377.0	374.1
65°	1768.5	1652.5	1373.8	1057.7	795.0	619.2	514.4	454.5	409.6	367.5	362.8
67.5°	1728.3	1617.0	1340.2	1027.8	770.6	599.5	499.5	442.4	399.4	356.3	350.7
70°	1670.3	1564.6	1298.1	993.1	743.5	578.0	482.6	428.3	386.2	345.2	337.6
72.5°	1598.4	1501.0	1239.2	949.3	711.8	555.5	464.8	413.3	372.2	332.0	322.7
75°	1508.6	1419.8	1173.7	900.7	676.2	529.4	446.1	396.5	356.3	318.0	307.7
77.5°	1409.5	1329.9	1102.7	847.3	640.6	504.1	425.6	377.8	339.5	302.1	291.8
80°	1301.0	1231.7	1022.2	791.2	603.2	477.9	405.0	360.1	322.7	286.2	274.0
82.5°	1189.7	1127.9	941.9	734.1	563.0	450.8	382.5	340.5	304.0	269.4	256.2
85°	1076.4	1023.1	860.4	675.2	522.8	423.7	361.9	320.7	284.3	251.7	240.4
87.5°	964.2	918.5	777.2	619.2	486.3	397.4	340.5	301.1	265.6	233.9	222.6
90°	859.5	820.2	700.5	566.7	449.8	370.4	318.9	281.5	246.9	215.1	207.6
92.5°	760.3	726.7	626.6	511.6	413.3	344.1	297.4	260.9	226.2	197.3	192.7
95°	670.6	638.7	559.3	462.9	379.6	320.7	276.9	242.2	207.6	180.5	176.8
97.5°	582.7	563.0	496.6	416.2	347.0	295.5	256.2	223.6	189.9	164.7	162.7
100°	509.7	489.2	435.8	373.1	317.1	273.0	236.6	204.9	173.0	149.6	148.7
102.5°	443.3	429.3	384.4	336.7	288.0	248.8	217.0	187.1	156.1	135.6	135.6
105°	387.3	374.1	340.5	299.3	260.0	228.3	197.3	168.4	139.3	121.6	122.5
107.5°	333.9	325.5	297.4	264.6	233.9	206.7	178.6	150.6	122.5	108.5	109.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	290.8	282.4	260.9	236.6	210.5	187.1	160.8	133.8	106.6	98.3	98.3
112.5°	252.5	246.9	229.1	209.4	188.9	168.4	145.0	117.9	93.5	87.0	88.0
115°	220.7	216.0	201.0	186.1	169.3	151.6	129.0	102.9	81.4	78.5	78.5
117.5°	191.7	188.9	176.8	163.7	150.6	134.7	114.0	88.8	70.2	70.2	70.2
120°	167.3	164.7	155.2	144.0	132.8	118.8	98.3	75.7	61.7	61.7	62.8
122.5°	146.9	145.0	135.6	127.2	116.9	102.9	84.1	63.6	54.2	55.1	55.1
125°	128.2	126.3	119.7	110.4	100.9	88.0	71.1	52.3	46.8	48.6	48.6
127.5°	111.3	110.4	103.8	95.4	86.0	74.9	58.0	43.9	41.2	43.0	43.0
130°	97.2	96.3	89.8	81.4	72.9	60.7	46.8	36.5	35.5	37.3	37.3
132.5°	83.2	82.3	76.7	68.3	59.9	48.6	36.5	29.0	30.8	32.8	32.8
135°	70.2	69.2	65.4	56.2	48.6	38.4	28.1	24.4	26.2	28.1	28.1
137.5°	58.0	57.1	53.3	44.9	36.5	28.1	20.5	19.6	21.6	23.4	23.4
140°	46.8	45.8	42.1	34.6	26.2	19.6	13.9	16.0	17.8	19.6	19.6
142.5°	35.5	35.5	32.8	26.2	17.8	12.1	9.4	12.1	13.9	16.0	16.0
145°	26.2	26.2	22.4	17.8	10.3	6.5	5.6	8.4	11.3	12.1	12.1
147.5°	17.8	17.8	15.0	11.3	5.6	2.8	3.8	5.6	7.4	8.4	9.4
150°	10.3	10.3	8.4	5.6	2.8	1.0	1.0	3.8	4.7	5.6	5.6
152.5°	4.7	4.7	3.8	1.8	1.0	1.0	1.0	1.0	2.8	2.8	2.8
155°	1.8	1.8	1.8	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0
157.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	1.0	1.0	1.0	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)