

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: P266433

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-A-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-70-D-U-SL3-A-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5144.9 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

Input Watts (W): 74  
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

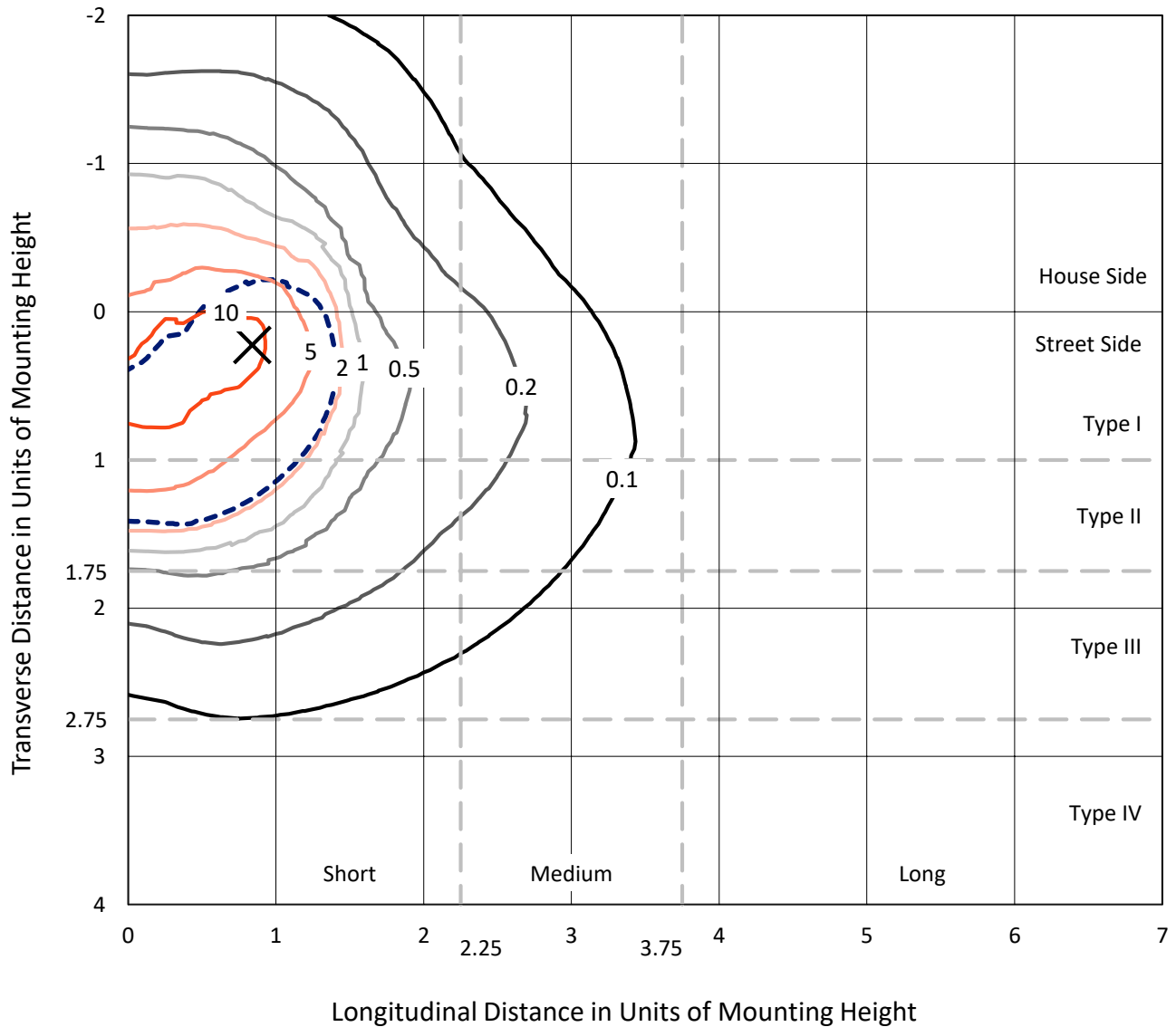


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### Iso-Footcandle Lines of Horizontal Illumination

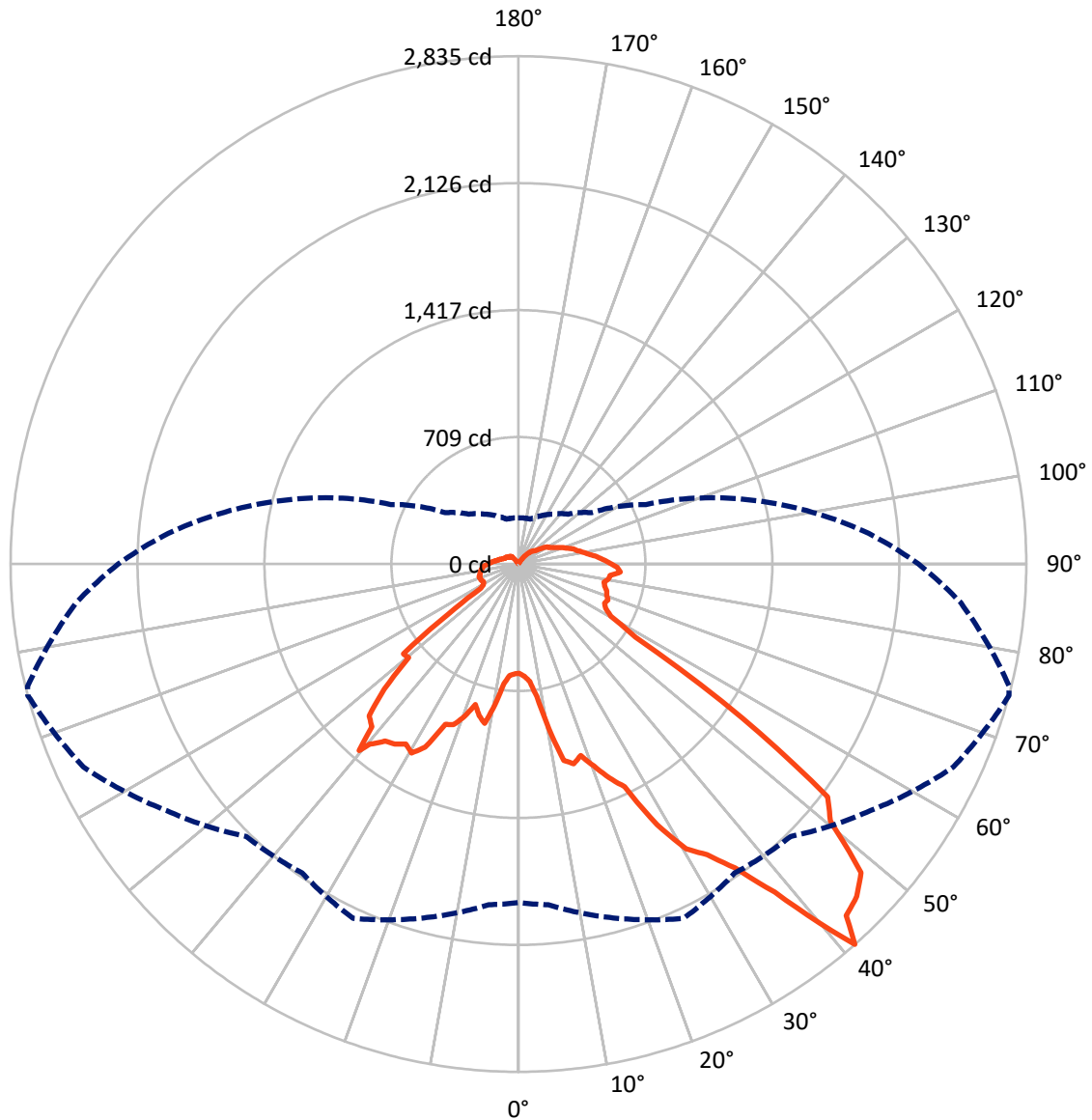
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 41-Deg Vertical

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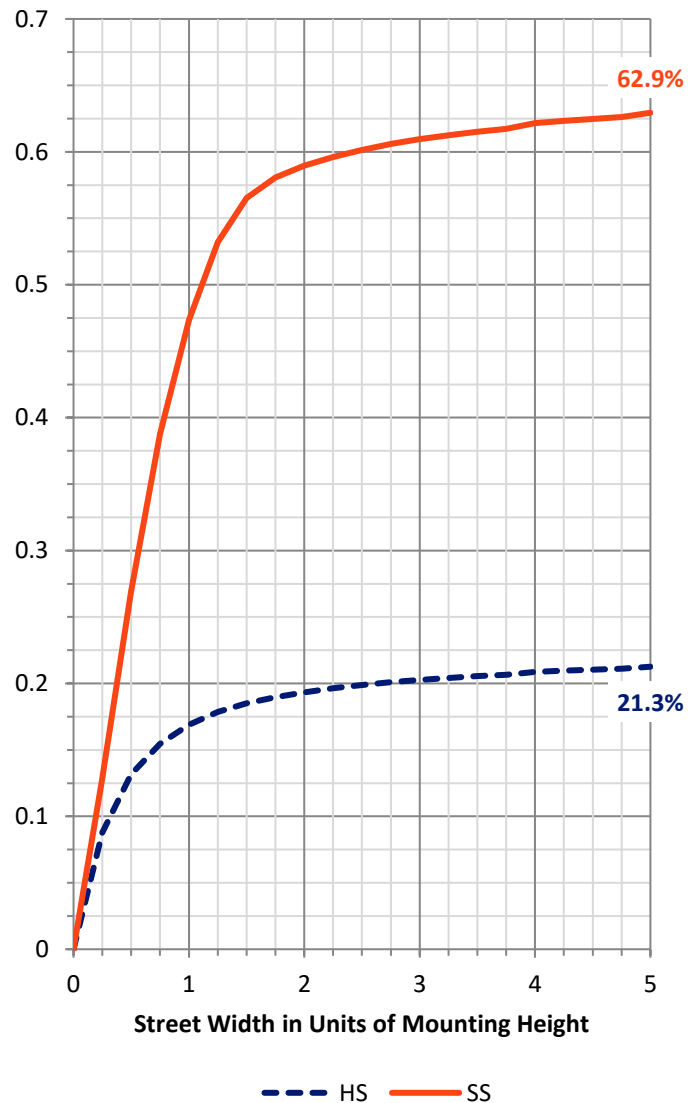
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1134.9	144.7	1279.6
	% Fixture	22.1	2.8	24.9
<b>Street Side</b>	Lumens	3337.8	527.5	3865.3
	% Fixture	64.9	10.3	75.1
<b>Total</b>	Lumens	4472.7	672.2	5144.9
	% Fixture	86.9	13.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	1.2
10°-20°	254.6	4.9
20°-30°	523.1	10.2
30°-40°	851.6	16.6
40°-50°	1106.1	21.5
50°-60°	784.2	15.2
60°-70°	318.8	6.2
70°-80°	288.4	5.6
80°-90°	281.7	5.5
90°-100°	241.7	4.7
100°-110°	175.0	3.4
110°-120°	119.4	2.3
120°-130°	77.6	1.5
130°-140°	46.2	0.9
140°-150°	11.7	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4472.7	86.9
0°-180°	5144.9	100.0



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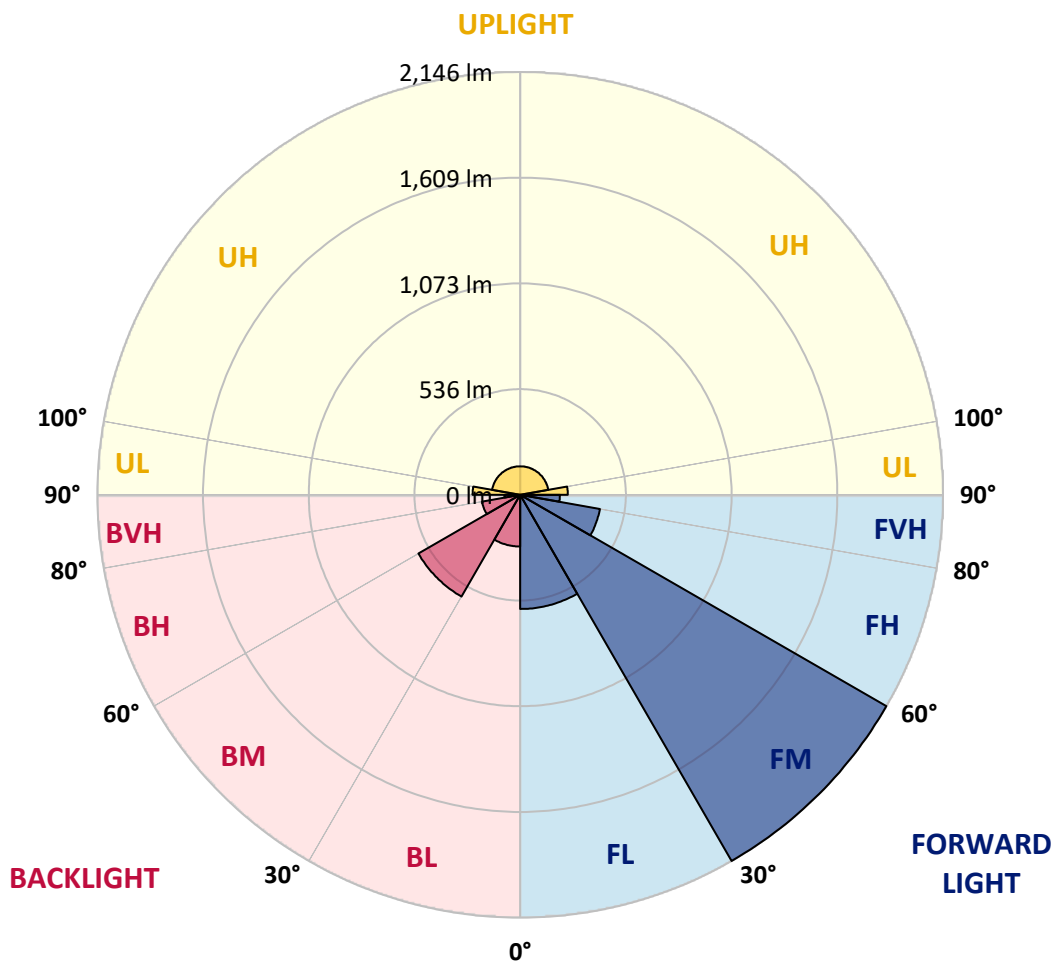
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-A-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.4	11.3			
FM (30°-60°)	2145.8	41.7			
FH (60°-80°)	410.8	8.0			G0/660
FVH (80°-90°)	201.8	3.9			G2/225
BL (0°-30°)	262.6	5.1	B1/500		
BM (30°-60°)	596.1	11.6	B1/1000		
BH (60°-80°)	196.4	3.8	B1/500		G1/500
BVH (80°-90°)	79.9	1.6			G1/100
UL (90°-100°)	241.7	4.7		U3/500	
UH (100°-180°)	144.7	2.8		U3/500	

**BUG Rating: B1-U3-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3
2.5°	652.8	654.2	651.4	649.1	647.7	643.2	639.7	634.6	627.1	626.5	623.6
5°	712.1	712.1	712.1	707.1	701.1	691.6	683.6	671.8	658.0	657.2	646.2
7.5°	808.1	808.1	803.8	796.3	783.2	768.6	767.2	765.6	746.6	744.3	724.7
10°	911.4	908.5	910.7	916.6	923.2	943.0	955.3	956.9	936.4	931.3	902.6
12.5°	951.8	954.7	980.3	1027.2	1106.4	1185.5	1226.5	1192.8	1124.7	1115.9	1048.4
15°	1013.3	1016.9	1059.5	1137.9	1269.8	1384.0	1348.8	1264.5	1156.8	1148.8	1044.8
17.5°	1178.1	1194.9	1236.0	1360.6	1494.6	1448.4	1329.9	1221.3	1123.9	1114.3	1027.2
20°	1293.9	1303.4	1382.5	1502.0	1596.5	1526.1	1444.8	1335.7	1204.4	1204.4	1136.4
22.5°	1389.9	1387.0	1451.4	1631.6	1686.6	1641.2	1546.6	1435.3	1296.1	1289.4	1200.9
25°	1540.9	1550.4	1661.7	1861.0	1810.4	1694.7	1570.1	1468.3	1376.7	1368.6	1279.9
27.5°	1628.7	1653.6	1781.9	1954.7	1922.6	1766.4	1657.4	1641.9	1648.5	1641.9	1545.3
30°	1650.6	1661.7	1820.0	1991.5	1969.4	1853.7	1853.7	1879.3	1845.6	1836.0	1706.4
32.5°	1705.6	1732.0	1883.7	2017.1	1963.5	1941.5	1953.4	1948.2	1933.5	1920.3	1769.4
35°	1795.1	1817.7	1959.9	2060.3	1962.8	1970.9	2076.4	2137.2	2084.4	2072.7	1847.9
37.5°	2030.2	2052.2	2180.5	2174.5	2014.9	2030.2	2221.5	2332.8	2323.2	2321.8	2099.1
40°	1983.4	2056.0	2211.2	2235.4	2092.5	2109.4	2338.0	2579.8	2691.1	2688.2	2411.9
41°	1889.6	1909.3	2044.9	2182.0	2105.0	2149.6	2398.7	2679.4	2834.7	2823.7	2477.9
42.5°	1923.2	1958.5	2039.1	2084.4	2090.3	2179.6	2446.4	2691.9	2683.7	2678.7	2395.8
45°	2210.5	2225.1	2258.8	2171.7	2024.4	2135.7	2420.0	2647.8	2647.1	2623.7	2496.2
47.5°	2072.0	2113.7	2257.4	2179.6	2017.8	2016.2	2203.2	2511.7	2573.1	2539.4	2222.1
50°	1959.9	1989.9	2073.5	1990.6	1919.6	1918.2	2093.9	2326.3	2256.0	2246.3	1810.4
52.5°	1738.6	1768.0	1827.3	1806.9	1766.4	1762.0	1896.1	2139.5	2161.4	2154.0	1827.3
55°	1321.8	1342.2	1565.7	1571.6	1541.5	1556.3	1664.6	1763.6	1517.3	1477.8	1027.2
57.5°	776.7	829.3	1046.3	1181.8	1244.1	1255.8	1218.5	1043.3	770.0	742.2	474.0
60°	383.1	410.3	561.3	704.8	866.1	871.9	753.1	666.7	591.3	574.5	414.7
62.5°	273.3	289.4	388.2	464.6	554.7	569.3	527.6	563.4	547.2	537.0	403.7
65°	247.7	261.5	344.4	384.7	422.1	444.8	455.0	515.1	527.6	520.9	400.7
67.5°	226.5	240.2	314.2	345.0	372.9	409.5	431.5	491.0	538.5	534.1	425.0
70°	200.1	216.1	283.5	321.0	355.3	397.1	427.1	489.4	523.8	518.1	411.8
72.5°	175.1	189.7	244.7	288.6	339.2	386.8	431.5	477.0	515.1	510.0	417.0
75°	152.4	167.1	214.7	260.1	318.0	389.8	434.5	473.2	497.5	490.1	409.5
77.5°	137.0	151.6	192.6	237.4	301.9	394.1	474.8	489.4	488.7	481.3	400.7
80°	124.5	139.1	178.0	221.3	287.2	403.7	507.7	522.4	509.2	499.6	403.0
82.5°	120.9	134.8	170.7	218.4	290.2	409.5	517.2	553.9	516.5	504.8	400.7
85°	134.0	142.9	180.2	233.6	309.1	419.8	513.7	571.5	570.8	558.2	437.5
87.5°	159.7	167.1	203.6	258.0	329.7	425.6	559.0	582.6	551.6	545.8	441.7
90°	197.8	202.9	241.0	291.0	351.0	422.7	460.8	491.0	511.5	507.1	419.1
92.5°	235.1	241.7	276.1	312.9	340.0	363.5	400.7	470.4	473.2	469.6	403.0
95°	279.2	283.5	303.3	321.7	327.5	335.5	372.9	403.7	437.5	433.1	388.2
97.5°	303.3	305.6	314.2	312.2	298.1	299.7	341.4	374.5	395.0	389.8	340.0
100°	297.5	299.7	301.1	287.9	269.0	274.7	309.1	348.7	364.9	362.6	315.0
102.5°	278.5	282.1	282.7	269.6	252.1	253.5	287.2	317.2	334.1	331.1	293.7
105°	273.3	274.7	268.1	250.5	230.1	233.0	265.2	297.5	317.2	315.8	277.7
107.5°	246.1	247.7	238.1	221.3	213.9	222.1	251.3	271.7	285.0	285.0	247.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	206.6	206.6	204.5	200.7	202.2	213.9	238.1	251.3	262.2	261.5	226.5
112.5°	200.1	198.5	196.4	193.4	189.1	198.5	214.7	230.8	233.0	232.2	202.2
115°	197.1	194.9	187.6	179.5	174.5	181.6	194.2	208.9	214.7	213.9	192.6
117.5°	174.5	174.5	168.5	162.7	160.4	170.0	185.4	194.9	195.7	197.1	176.5
120°	156.0	156.0	152.4	149.5	150.9	155.3	172.1	180.2	187.6	186.8	169.2
122.5°	142.1	142.9	140.0	134.0	139.1	143.5	153.2	161.2	169.2	168.5	156.0
125°	128.2	127.5	124.5	117.9	129.6	135.6	136.3	135.6	143.5	143.5	132.6
127.5°	113.5	112.8	110.0	106.2	121.6	129.6	128.2	116.5	121.6	120.9	115.7
130°	112.1	111.4	106.2	101.9	109.1	123.1	116.5	108.4	112.8	113.5	108.4
132.5°	111.4	110.6	105.6	98.2	95.9	110.6	99.0	100.4	105.6	105.6	101.1
135°	104.1	103.3	99.0	88.7	78.4	91.5	78.4	86.4	93.1	93.1	89.4
137.5°	91.5	90.9	86.4	77.7	63.1	65.1	59.4	72.6	79.9	80.6	77.7
140°	72.6	73.2	68.9	60.0	45.5	34.5	38.8	56.5	63.7	63.7	63.1
142.5°	54.2	54.2	49.9	41.1	26.4	12.4	22.0	34.5	43.2	43.9	45.5
145°	38.1	38.1	33.6	26.4	13.1	2.2	10.3	20.5	27.0	27.0	29.4
147.5°	25.0	25.0	21.2	14.6	3.7	0.7	3.0	10.3	16.1	16.1	17.5
150°	15.5	15.5	11.7	4.4	0.7	0.0	0.7	2.2	7.4	7.4	9.5
152.5°	5.1	4.4	2.2	1.4	0.7	0.0	0.0	0.7	0.7	0.7	2.2
155°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3
2.5°	619.8	618.4	613.3	606.6	598.6	588.3	581.7	578.8	575.2	572.2	573.7
5°	640.3	635.2	623.6	602.3	582.6	567.8	556.1	545.8	540.7	536.3	536.3
7.5°	715.1	706.2	673.3	637.3	592.7	552.5	523.8	509.2	492.4	488.0	487.2
10°	877.7	866.8	797.2	710.6	626.5	547.2	475.6	436.7	418.3	408.8	411.1
12.5°	1012.6	987.6	908.5	810.4	693.9	566.3	466.7	397.1	366.2	354.7	350.2
15°	1001.6	959.7	874.1	781.0	690.2	597.2	497.5	419.1	355.3	334.1	329.7
17.5°	977.4	933.3	819.9	700.4	594.1	537.0	481.3	424.2	375.9	343.6	337.8
20°	1100.5	1050.7	902.6	784.0	634.6	490.1	426.4	394.1	363.5	347.3	343.6
22.5°	1153.2	1102.7	966.3	816.2	668.2	543.7	439.6	380.3	356.1	353.2	348.7
25°	1232.4	1168.7	983.3	794.2	651.4	549.6	440.3	381.7	345.8	345.8	343.6
27.5°	1488.0	1395.0	1148.2	882.1	676.2	528.3	429.3	364.9	321.7	304.7	301.1
30°	1602.3	1513.7	1211.2	904.9	687.3	533.4	408.8	334.8	306.2	293.7	292.4
32.5°	1685.1	1569.3	1184.8	849.8	631.6	498.2	391.2	323.7	295.3	284.3	281.3
35°	1726.2	1573.8	1219.9	830.2	597.8	457.1	370.7	311.4	293.7	285.0	285.0
37.5°	1926.1	1737.1	1237.4	825.1	572.2	417.6	352.4	312.2	274.7	262.2	263.1
40°	2202.5	1933.5	1303.4	786.8	522.4	403.7	340.6	298.1	263.7	255.7	252.8
41°	2233.1	1962.1	1369.3	786.1	499.0	393.5	340.0	296.7	259.4	258.0	257.2
42.5°	2151.1	1870.5	1221.3	714.3	468.1	376.6	338.5	295.3	254.9	258.6	258.0
45°	2245.0	1966.5	1188.4	654.2	414.7	348.7	321.0	287.2	252.1	245.4	246.1
47.5°	1950.4	1666.8	1022.8	569.3	367.0	318.7	296.7	269.0	244.7	241.0	241.0
50°	1553.3	1307.0	804.4	500.4	323.1	293.7	273.3	254.9	230.1	220.5	223.5
52.5°	1582.5	1323.9	815.4	466.0	293.7	268.1	254.9	232.2	202.9	185.4	188.3
55°	870.4	754.7	477.0	357.5	272.5	249.1	233.6	210.3	178.0	158.2	160.4
57.5°	395.0	328.2	253.5	246.1	236.0	229.3	212.4	191.2	160.4	138.5	138.5
60°	353.2	289.4	226.5	205.9	211.0	211.7	194.2	173.6	143.5	117.9	118.7
62.5°	345.0	282.1	219.7	196.4	200.7	200.7	184.0	163.4	136.3	110.0	110.0
65°	343.6	279.2	220.5	193.4	196.4	197.1	180.2	163.4	145.0	126.0	127.5
67.5°	364.2	295.3	227.9	191.2	194.2	194.2	180.2	167.8	156.8	145.0	146.6
70°	353.2	290.2	226.5	191.2	189.7	189.7	179.5	168.5	162.7	152.4	153.2
72.5°	357.5	299.0	230.8	189.7	184.0	182.4	175.9	169.2	164.1	159.0	159.7
75°	351.0	296.0	223.5	182.4	175.1	172.1	167.8	166.4	167.1	164.8	163.4
77.5°	340.6	291.0	218.4	175.1	167.1	160.4	157.6	158.2	161.2	159.0	156.8
80°	339.2	291.6	216.1	170.7	156.8	145.9	142.1	143.5	144.4	140.0	135.6
82.5°	334.8	285.8	205.9	159.0	141.5	127.5	124.5	126.8	127.5	123.1	118.7
85°	360.5	301.1	202.9	148.0	128.2	113.5	108.4	109.1	104.1	97.5	93.1
87.5°	370.7	304.0	191.2	131.2	115.1	102.5	95.9	91.5	83.5	72.6	69.6
90°	352.4	288.6	172.1	112.8	101.1	91.5	83.5	77.7	67.5	56.5	52.7
92.5°	341.4	276.9	158.2	101.1	88.7	80.6	73.2	64.5	54.2	41.9	39.5
95°	334.8	272.5	149.5	90.1	79.1	71.1	63.7	55.7	45.5	35.9	34.5
97.5°	291.6	236.0	132.0	80.6	69.6	62.3	55.7	47.6	38.1	30.8	29.4
100°	271.1	219.7	122.3	72.6	61.5	54.9	49.0	42.5	34.5	29.4	28.6
102.5°	253.5	204.5	111.4	65.1	54.9	48.4	43.2	37.4	31.5	27.0	27.8
105°	240.2	194.9	107.0	60.0	49.0	43.9	38.1	33.6	27.8	25.0	25.0
107.5°	213.2	173.0	94.5	54.2	44.6	39.5	35.2	30.8	26.4	24.2	25.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	197.1	160.4	90.1	52.0	42.5	36.7	32.2	27.8	23.4	23.4	23.4
112.5°	175.1	144.4	83.5	49.0	39.5	34.5	30.1	25.0	20.5	21.2	22.0
115°	167.8	139.1	80.6	46.9	38.1	33.0	27.8	23.4	18.3	19.9	20.5
117.5°	154.6	128.9	78.4	46.9	36.7	30.8	26.4	22.0	17.5	19.0	19.0
120°	150.1	126.8	78.4	46.2	35.2	29.4	25.0	19.0	16.1	17.5	17.5
122.5°	140.0	118.7	74.6	45.5	33.6	27.8	24.2	16.1	14.0	15.5	15.5
125°	120.2	103.3	67.5	42.5	32.2	27.8	23.4	13.1	13.1	14.6	14.6
127.5°	104.7	90.9	61.5	41.9	33.0	29.4	22.0	11.0	11.7	13.1	13.1
130°	99.6	88.7	63.7	45.5	35.9	30.8	16.1	10.3	11.0	12.4	13.1
132.5°	94.5	85.7	65.1	49.0	38.1	30.1	13.1	9.5	10.3	11.7	11.7
135°	84.3	77.7	60.8	46.9	35.9	24.2	9.5	8.1	9.5	11.0	11.0
137.5°	74.0	68.9	55.7	43.2	33.0	19.0	6.6	7.4	8.1	8.9	8.9
140°	60.8	56.5	46.2	35.2	24.2	10.3	4.4	5.8	6.6	7.4	7.4
142.5°	43.9	41.1	33.0	23.4	14.0	3.7	3.0	4.4	5.1	5.8	5.8
145°	29.4	27.0	21.2	14.6	5.1	2.2	1.4	3.0	4.4	4.4	5.1
147.5°	17.5	16.9	12.4	6.6	2.2	1.4	1.4	2.2	3.0	3.7	3.7
150°	8.9	8.9	5.8	2.2	1.4	0.7	0.7	0.7	1.4	2.2	2.2
152.5°	2.2	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.7	0.7	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)