

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: P266522

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-A-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-90-D-U-T4W-A-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6269.7 lumens  
Efficiency: N/A  
Efficacy: 66.7 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 - U4 - G3

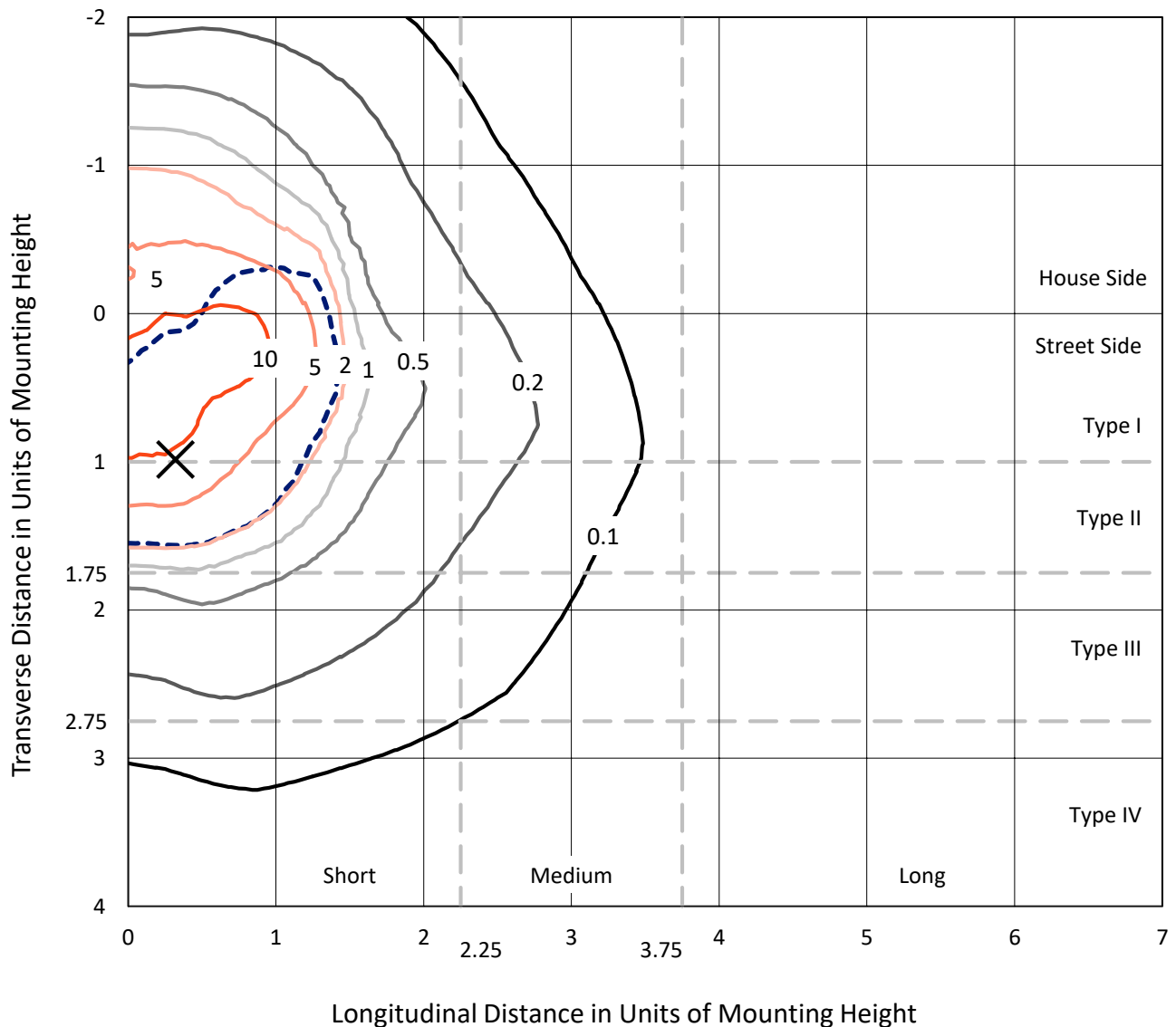
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

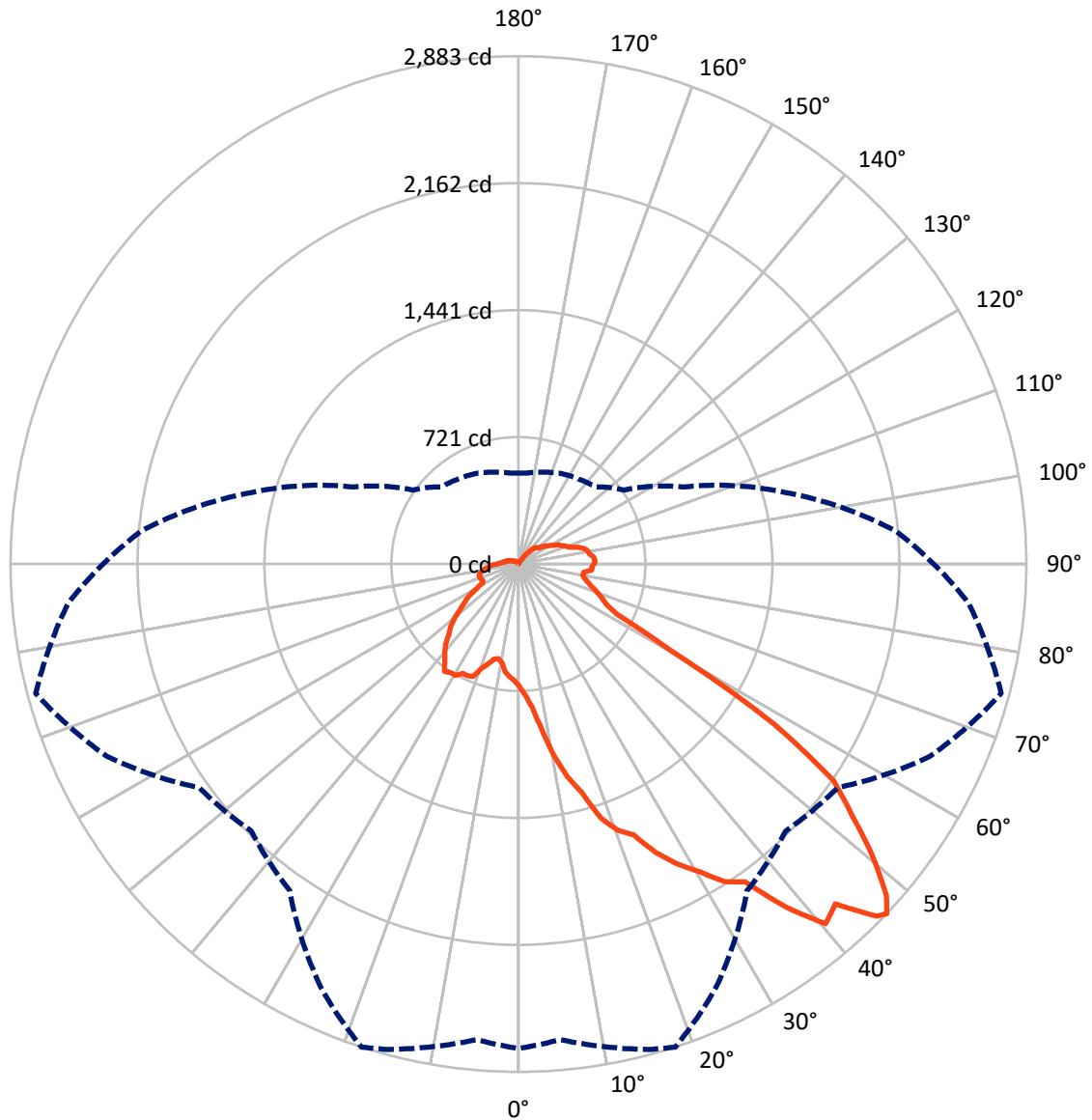
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 18-Deg Lateral    - - - Horizontal Cone Through 46-Deg Vertical

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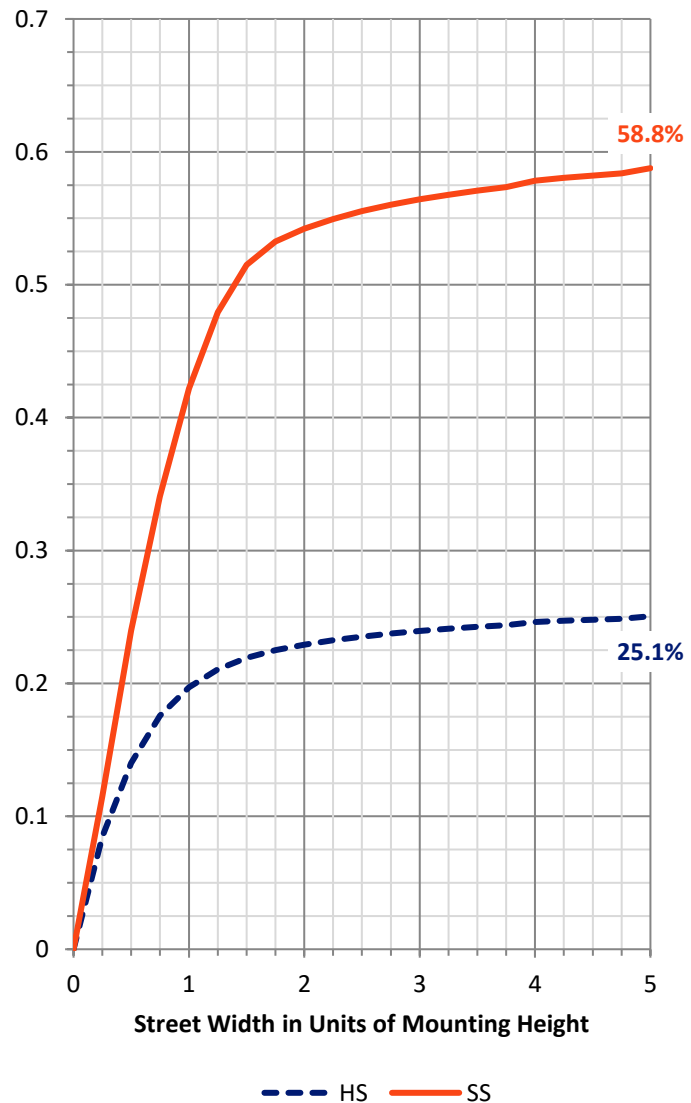
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1630.9	203.0	1833.9
	% Fixture	26.0	3.2	29.3
<b>Street Side</b>	Lumens	3827.1	608.7	4435.8
	% Fixture	61.0	9.7	70.7
<b>Total</b>	Lumens	5458.0	811.7	6269.7
	% Fixture	87.1	12.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	1.2
10°-20°	303.5	4.8
20°-30°	617.3	9.8
30°-40°	1010.6	16.1
40°-50°	1315.3	21.0
50°-60°	984.2	15.7
60°-70°	410.0	6.5
70°-80°	373.0	5.9
80°-90°	369.7	5.9
90°-100°	297.3	4.7
100°-110°	211.3	3.4
110°-120°	142.8	2.3
120°-130°	91.9	1.5
130°-140°	54.4	0.9
140°-150°	13.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5458.0	87.1
0°-180°	6269.7	100.0



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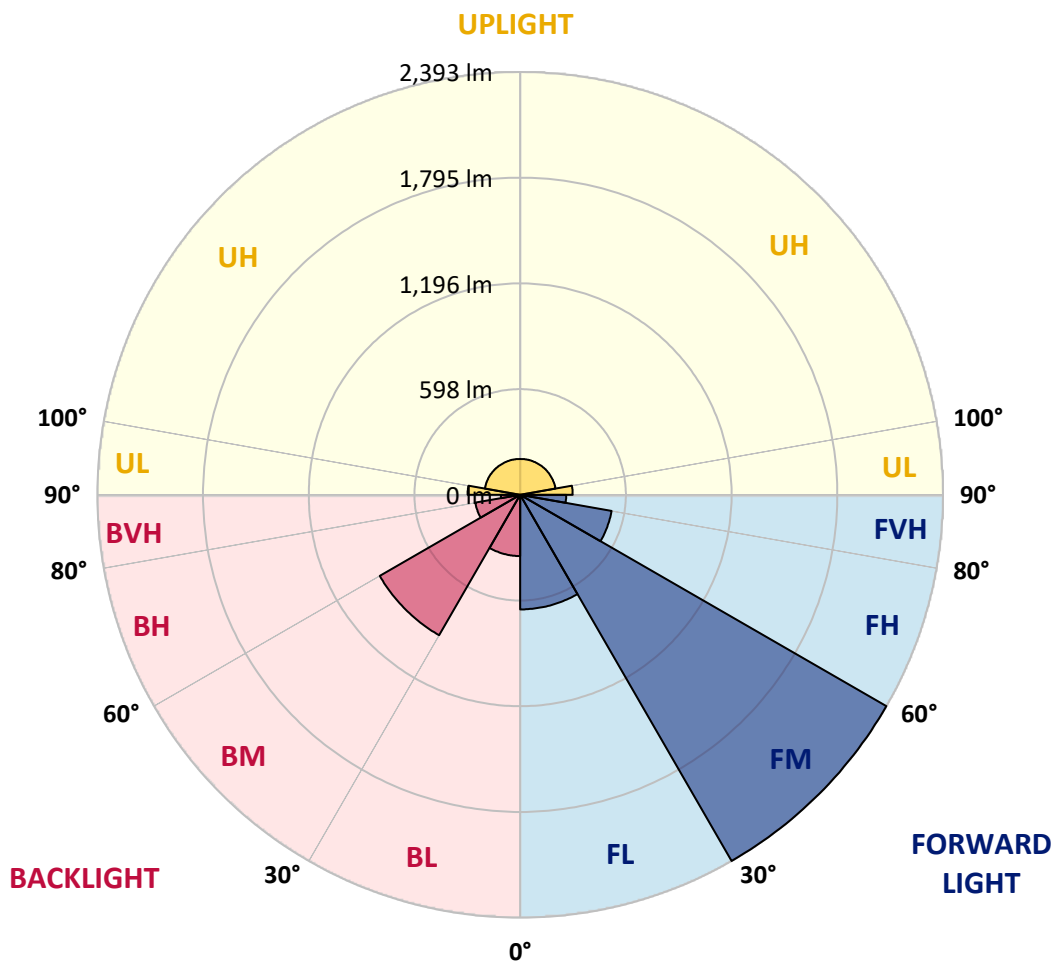
CATALOG NUMBER: UTLD-AF24-90-D-U-T4W-A-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.5	10.3			
FM (30°-60°)	2392.8	38.2			
FH (60°-80°)	525.1	8.4			G0/660
FVH (80°-90°)	260.7	4.2			G3/500
BL (0°-30°)	346.7	5.5	B1/500		
BM (30°-60°)	917.4	14.6	B1/1000		
BH (60°-80°)	257.8	4.1	B1/500		G1/500
BVH (80°-90°)	109.0	1.7			G2/225
UL (90°-100°)	297.3	4.7		U3/500	
UH (100°-180°)	203.0	3.2		U3/500	

**BUG Rating: B1-U4-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4
2.5°	746.4	743.0	744.8	744.8	740.4	738.6	734.4	729.2	722.1	714.3	707.4
5°	820.2	817.5	816.6	815.8	814.9	803.7	790.7	779.4	767.2	754.2	736.0
7.5°	956.2	955.3	950.1	944.1	935.5	916.4	892.9	881.6	865.2	845.2	817.5
10°	1126.1	1114.0	1102.8	1102.8	1085.4	1078.4	1071.6	1055.1	1044.6	1016.9	977.0
12.5°	1223.2	1217.3	1240.6	1238.9	1261.4	1302.2	1315.9	1329.9	1266.6	1186.0	1111.5
15°	1314.3	1314.3	1343.8	1344.7	1411.3	1501.5	1570.1	1503.3	1387.2	1257.1	1157.3
17.5°	1439.2	1446.9	1489.4	1518.0	1608.1	1763.4	1716.5	1593.5	1420.0	1264.9	1153.1
20°	1493.7	1511.0	1576.0	1613.4	1753.0	1899.5	1854.5	1709.7	1508.4	1331.6	1218.9
22.5°	1527.6	1539.7	1616.1	1669.0	1847.5	1971.4	1964.6	1818.0	1628.1	1407.0	1277.0
25°	1666.3	1674.1	1760.8	1815.4	2004.4	2044.3	1965.3	1864.0	1677.6	1447.8	1333.4
27.5°	1713.1	1714.0	1847.5	1929.7	2085.0	2071.1	1968.8	1926.3	1831.9	1650.6	1573.6
30°	1776.4	1774.6	1939.4	2027.7	2122.2	2063.3	1980.9	2018.2	2024.3	1876.9	1736.6
32.5°	1854.5	1847.5	2044.3	2150.1	2180.4	2061.6	2001.0	2064.1	2156.1	2003.5	1852.7
35°	1926.3	1932.4	2144.0	2215.8	2244.5	2072.0	2011.3	2150.1	2336.4	2218.5	1965.3
37.5°	2389.3	2382.3	2449.0	2474.2	2402.2	2107.6	2051.2	2256.6	2529.7	2478.7	2207.2
40°	2494.2	2470.8	2670.2	2684.9	2558.4	2233.2	2160.5	2320.9	2682.2	2773.3	2557.5
42.5°	2405.8	2399.7	2617.3	2637.2	2546.2	2318.2	2232.4	2372.9	2699.6	2774.2	2415.4
45°	2795.0	2762.9	2876.6	2853.0	2600.9	2281.8	2188.1	2314.8	2639.8	2848.7	2564.4
46°	2750.8	2710.0	2853.0	2882.7	2652.9	2263.5	2144.0	2212.4	2580.0	2836.7	2566.2
47.5°	2615.5	2619.1	2809.8	2811.4	2600.0	2266.2	2071.1	2150.9	2446.5	2681.4	2320.9
50°	2283.5	2244.5	2593.0	2604.2	2402.2	2168.1	1996.6	2033.0	2314.8	2458.7	2092.0
52.5°	2198.5	2168.1	2373.7	2372.0	2189.9	2019.1	1860.5	1898.6	2216.7	2380.6	2118.8
55°	2020.0	2009.6	2182.2	2167.4	2040.0	1835.2	1721.7	1745.1	1838.8	1774.6	1056.0
57.5°	1342.0	1382.0	1680.1	1708.8	1709.7	1613.4	1471.2	1255.3	1086.3	924.1	516.6
60°	547.8	593.9	926.0	969.2	1032.5	1209.4	1066.4	839.1	701.3	729.2	446.5
62.5°	413.5	430.8	618.2	625.8	650.3	736.0	727.4	608.6	599.1	659.7	427.5
65°	385.0	400.6	547.8	545.4	534.0	557.5	555.7	527.9	538.4	614.7	425.6
67.5°	364.2	379.8	508.9	509.8	500.3	504.6	508.0	494.2	518.4	597.4	436.9
70°	343.3	359.9	468.1	470.7	477.7	493.3	499.4	488.9	510.6	575.6	436.0
72.5°	318.2	336.3	430.0	434.3	448.3	483.7	504.6	502.0	504.6	543.6	434.3
75°	309.5	327.7	397.9	405.8	425.6	479.4	533.1	515.8	498.5	522.8	423.9
77.5°	271.4	292.2	364.2	381.5	425.6	493.3	552.3	546.2	514.1	508.9	412.7
80°	261.0	280.9	350.2	369.4	417.1	505.4	571.3	572.2	555.7	527.9	423.9
82.5°	262.7	281.8	353.8	375.4	430.0	514.1	555.7	577.4	579.0	544.5	436.9
85°	308.7	326.9	395.3	417.9	465.5	511.5	543.6	559.1	574.7	574.7	479.4
87.5°	329.5	345.8	397.9	417.9	463.9	517.6	512.4	538.4	554.0	573.8	494.2
90°	348.5	359.0	412.7	431.7	456.0	499.4	485.4	477.7	490.7	511.5	462.9
92.5°	362.3	371.9	419.6	436.0	456.9	466.4	445.6	423.1	455.1	471.6	430.8
95°	387.4	396.2	421.3	427.5	424.8	433.5	401.5	392.6	406.7	424.8	398.8
97.5°	370.2	376.3	400.6	407.6	405.8	392.6	360.7	355.5	367.5	381.5	352.9
100°	370.2	377.9	396.2	400.6	390.1	357.2	324.3	322.5	330.2	337.3	310.4
102.5°	377.9	381.5	385.0	387.4	368.5	332.1	307.8	301.7	304.3	307.8	283.4
105°	358.1	359.0	360.7	352.9	337.3	309.5	285.2	274.8	283.4	293.8	274.0
107.5°	309.5	308.7	309.5	307.0	305.2	288.6	271.4	258.4	258.4	261.9	242.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	288.6	289.6	288.6	288.6	280.9	269.6	253.1	239.3	232.3	234.1	216.8
112.5°	264.5	264.5	265.3	266.2	261.9	251.4	234.9	221.1	212.4	210.7	194.3
115°	264.5	261.9	254.0	253.1	244.5	229.7	217.6	200.2	194.3	194.3	183.9
117.5°	235.9	234.1	228.0	226.3	221.1	208.9	201.9	188.1	183.9	181.2	171.7
120°	208.9	208.9	206.3	205.4	200.2	193.3	178.7	173.5	169.9	173.5	167.4
122.5°	194.3	194.3	189.8	188.1	182.0	176.8	163.9	154.2	148.2	155.1	151.8
125°	178.7	177.8	171.7	170.8	160.3	160.3	153.4	141.4	124.9	131.8	130.1
127.5°	156.9	156.0	148.2	147.4	141.4	148.2	146.6	131.0	108.3	112.6	112.6
130°	150.8	149.1	142.2	140.4	134.3	132.6	139.5	114.4	101.4	105.8	104.9
132.5°	150.8	149.1	140.4	137.8	128.3	118.8	125.8	99.7	97.0	102.2	101.4
135°	136.2	136.2	128.3	123.1	113.5	96.2	97.9	77.2	85.0	92.7	92.7
137.5°	115.3	115.3	107.4	105.8	94.5	77.2	69.3	59.0	72.0	80.6	81.4
140°	90.2	90.2	84.1	80.6	72.9	51.2	32.1	36.4	54.5	62.4	64.9
142.5°	64.9	64.1	59.0	54.5	46.8	27.8	10.4	20.8	32.1	42.5	46.0
145°	45.0	44.1	38.2	35.6	28.6	12.9	2.5	8.7	19.0	25.2	29.5
147.5°	26.9	26.9	22.5	21.6	14.7	3.5	1.7	2.5	9.5	15.6	18.1
150°	15.6	15.6	11.3	8.7	3.5	0.9	0.9	0.9	2.5	6.9	8.7
152.5°	3.5	3.5	2.5	1.7	1.7	0.9	0.0	0.9	0.9	0.9	1.7
155°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
162.5°	0.9	0.9	0.0	0.0	0.9	0.0	0.9	0.0	0.9	0.9	0.9
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°	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4
2.5°	703.9	700.5	692.8	683.2	676.2	670.1	665.9	663.2	661.5	657.1	658.8
5°	730.0	723.0	704.8	690.1	674.4	660.7	650.3	643.2	640.8	637.2	637.2
7.5°	804.5	788.1	760.3	725.7	693.5	665.9	639.9	625.1	612.0	605.1	603.4
10°	951.0	929.3	869.6	798.5	728.3	665.9	615.5	579.0	561.8	555.7	555.7
12.5°	1072.3	1038.6	960.6	880.8	787.2	689.2	614.7	565.3	541.9	534.0	534.0
15°	1108.8	1064.6	972.8	894.7	810.6	728.3	658.8	587.9	545.4	532.2	527.9
17.5°	1097.5	1054.3	971.0	876.4	782.0	720.4	658.8	620.6	581.7	559.1	555.7
20°	1169.6	1129.6	1042.9	937.1	821.1	683.2	644.2	635.6	625.8	611.1	611.1
22.5°	1229.3	1192.1	1105.4	991.8	852.2	762.0	703.9	695.3	684.9	682.4	680.6
25°	1275.2	1235.3	1116.7	985.7	884.3	818.4	743.8	714.3	689.2	681.5	678.8
27.5°	1520.7	1459.0	1268.3	1082.7	937.1	837.5	751.6	713.6	690.1	680.6	686.7
30°	1664.5	1597.7	1388.8	1145.2	1000.4	879.1	767.2	722.1	728.3	736.0	742.1
32.5°	1774.6	1687.0	1441.7	1153.1	990.0	886.8	792.3	738.6	721.2	731.7	733.5
35°	1882.9	1776.4	1510.2	1202.4	1003.9	858.3	775.1	743.8	738.6	752.5	749.9
37.5°	2103.2	1963.7	1595.2	1216.3	990.9	824.5	745.6	712.6	685.8	682.4	686.7
40°	2391.0	2203.7	1680.1	1210.2	930.3	783.7	708.4	671.0	650.3	637.2	629.4
42.5°	2247.1	2058.9	1570.9	1161.7	856.5	710.9	670.1	637.2	610.3	593.9	589.5
45°	2404.9	2221.1	1598.7	1063.8	772.5	645.9	613.0	590.4	553.0	537.5	534.9
46°	2357.2	2149.1	1567.5	1033.4	731.7	618.2	590.4	567.0	539.3	517.6	515.8
47.5°	2183.8	1941.1	1475.6	951.9	703.9	572.2	553.0	539.3	524.5	499.4	495.9
50°	1949.0	1763.4	1310.0	846.2	593.1	510.6	494.2	489.8	473.3	443.0	445.6
52.5°	1930.6	1751.2	1219.8	778.6	526.2	447.4	442.1	429.1	415.2	388.3	387.4
55°	931.2	791.5	677.1	609.5	440.3	396.2	393.5	387.4	370.2	345.8	350.2
57.5°	441.2	384.0	332.1	352.0	345.8	347.6	349.4	348.5	328.6	295.6	302.5
60°	386.7	335.4	287.0	272.2	286.1	307.8	307.8	294.7	267.1	228.0	224.5
62.5°	372.7	321.7	277.4	257.5	264.5	277.4	270.5	249.6	221.9	186.4	184.6
65°	374.6	319.8	276.6	251.4	257.5	262.7	249.6	233.2	218.5	193.3	193.3
67.5°	382.3	326.9	280.0	248.8	253.1	256.6	244.5	232.3	223.7	204.6	206.3
70°	384.0	331.1	283.4	249.6	248.8	252.2	243.6	232.3	228.0	215.1	214.2
72.5°	384.0	334.7	280.0	243.6	241.9	243.6	238.4	232.3	231.5	223.7	221.9
75°	371.1	326.9	267.9	231.5	229.7	231.5	229.7	228.9	232.3	228.9	225.5
77.5°	358.1	319.1	259.3	221.9	219.4	218.5	217.6	218.5	223.7	221.1	215.9
80°	364.2	322.5	257.5	214.2	206.3	202.8	202.8	203.7	203.7	195.9	188.1
82.5°	374.6	328.6	248.8	199.5	186.4	180.3	182.0	188.1	190.7	184.6	178.7
85°	412.7	356.3	250.5	189.1	169.9	163.0	165.6	173.5	168.3	159.4	152.6
87.5°	429.1	365.9	245.3	173.5	157.8	155.1	155.1	159.4	156.0	142.2	136.2
90°	410.0	350.2	221.9	147.4	137.0	139.5	140.4	136.2	121.5	105.8	100.6
92.5°	384.0	327.7	205.4	135.3	121.5	120.6	119.7	117.0	105.8	88.5	85.0
95°	362.3	308.7	189.8	124.0	111.0	108.3	107.4	104.1	93.7	80.6	79.0
97.5°	315.6	269.6	172.6	114.4	99.7	97.9	97.0	92.7	83.3	73.8	72.9
100°	283.4	240.1	154.2	103.1	90.2	87.6	86.6	84.1	76.3	69.3	68.5
102.5°	257.5	220.3	143.0	94.5	80.6	77.2	77.2	75.4	71.1	66.7	66.7
105°	250.5	215.9	138.7	86.6	72.0	70.2	69.3	69.3	65.8	63.3	63.3
107.5°	220.3	189.1	119.7	77.2	64.9	63.3	63.3	63.3	62.4	61.5	62.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	198.5	170.8	110.1	72.0	60.6	58.1	58.1	58.1	58.1	59.7	59.7
112.5°	176.8	153.4	101.4	68.5	56.4	53.8	52.0	51.2	50.2	53.8	54.5
115°	167.4	146.6	97.0	64.9	53.8	51.2	47.7	46.0	43.4	46.0	46.8
117.5°	157.8	138.7	95.4	64.1	52.0	47.7	44.1	42.5	38.9	41.6	41.6
120°	155.1	137.8	97.0	64.9	50.2	44.1	41.6	37.3	35.6	37.3	38.2
122.5°	143.0	127.4	91.0	60.6	47.7	42.5	38.9	32.1	31.3	33.7	33.7
125°	121.5	109.2	79.0	54.5	45.0	41.6	38.2	28.6	29.5	31.3	32.1
127.5°	106.5	96.2	72.0	52.9	45.0	42.5	35.6	25.2	27.8	30.4	31.3
130°	99.7	91.8	72.0	54.5	46.8	43.4	29.5	23.4	26.1	28.6	28.6
132.5°	97.0	91.0	73.8	58.1	48.6	41.6	24.3	21.6	24.3	26.1	26.1
135°	89.3	84.1	70.2	56.4	44.1	33.0	19.0	19.0	22.5	24.3	24.3
137.5°	79.0	74.6	63.3	52.0	38.9	25.2	13.8	16.4	19.0	20.8	20.8
140°	63.3	60.6	52.0	40.8	27.8	13.8	10.4	12.9	15.6	17.3	17.3
142.5°	45.0	43.4	36.4	26.1	16.4	6.1	6.9	9.5	12.1	13.8	13.8
145°	29.5	27.8	22.5	16.4	6.9	1.7	4.3	6.9	9.5	10.4	10.4
147.5°	18.1	17.3	13.8	7.7	2.5	1.7	1.7	5.2	6.9	7.7	7.7
150°	9.5	8.7	6.1	2.5	0.9	0.9	0.9	1.7	4.3	5.2	6.1
152.5°	2.5	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.5
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.0	0.9	0.9	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)