

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: P266437

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

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)  
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-TL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5604.3 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 - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G3

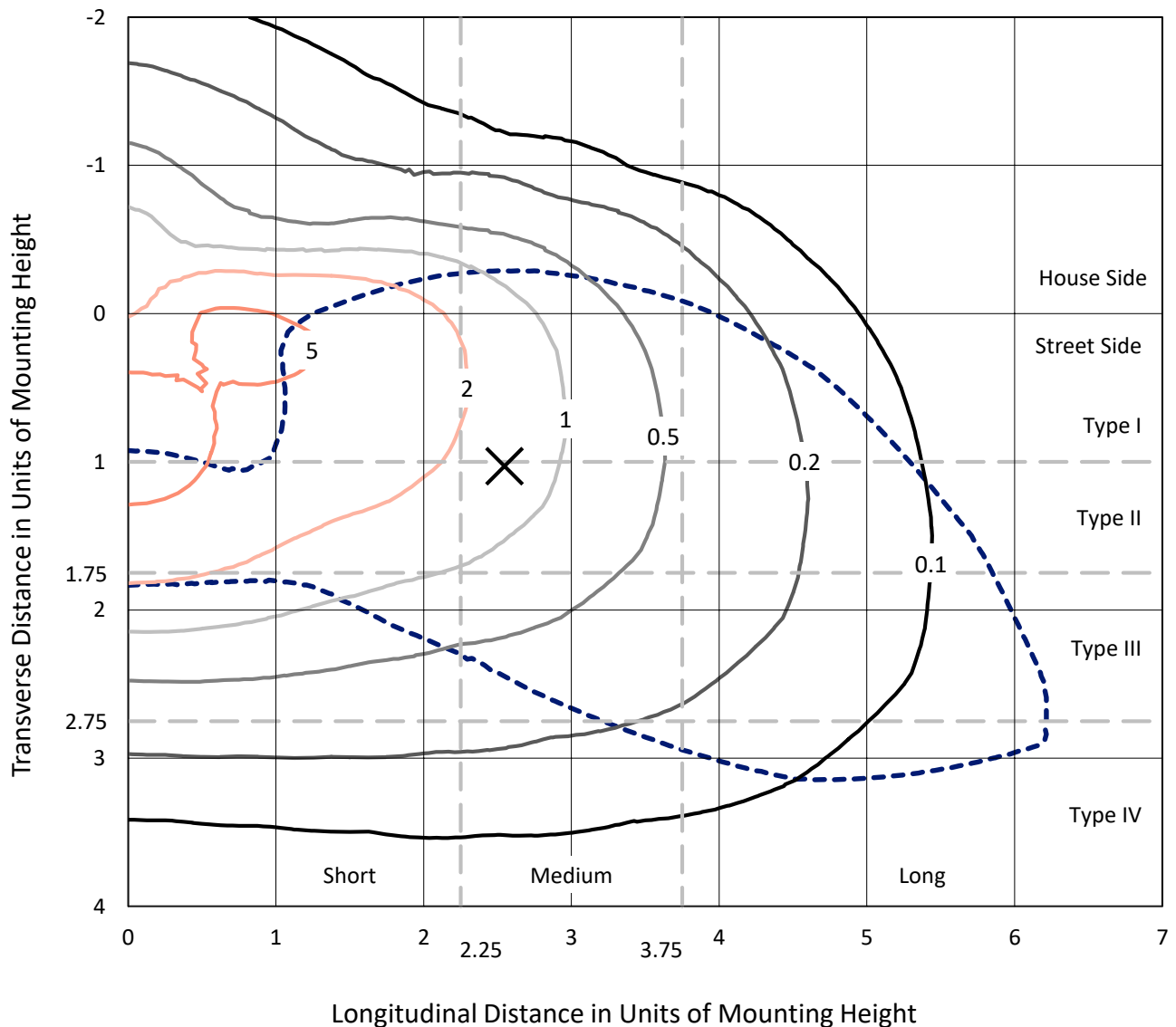
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

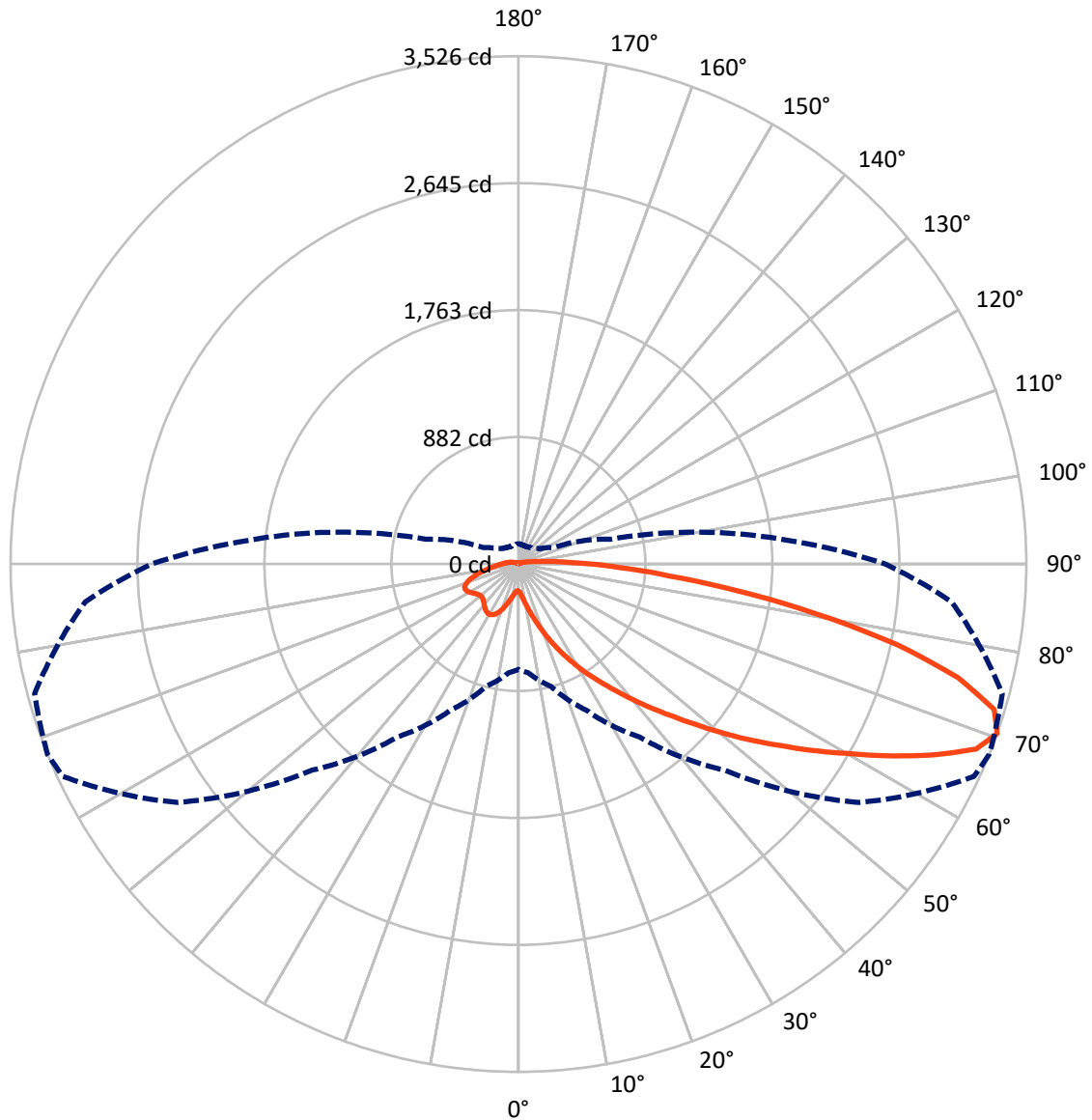


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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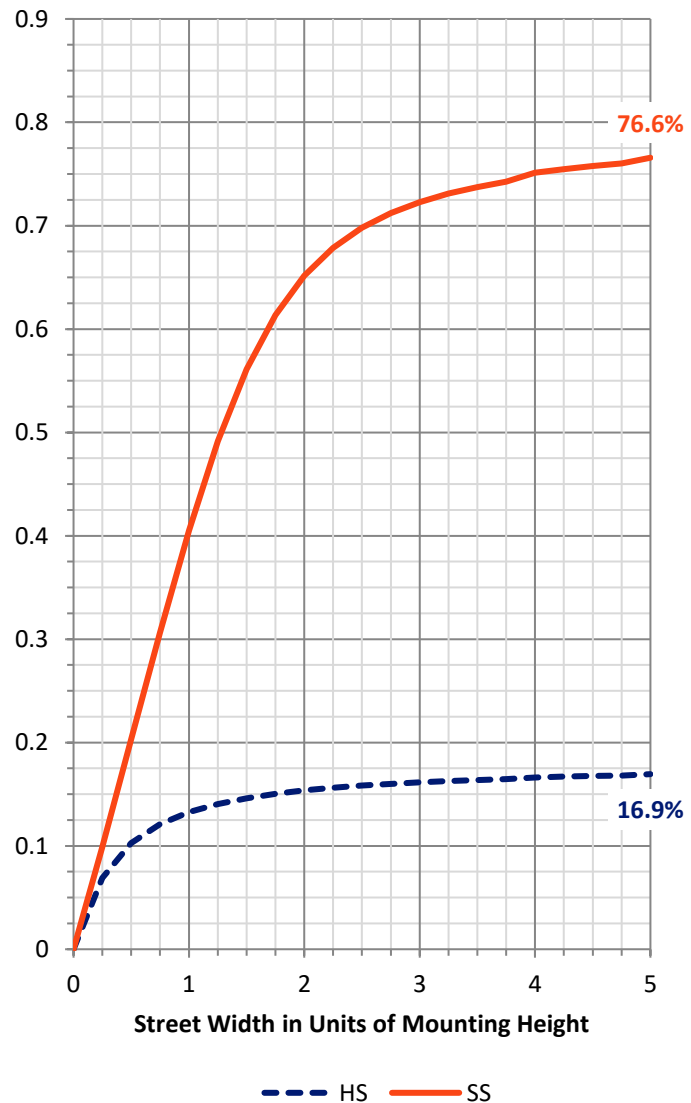
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	990.6	91.0	1081.6
	% Fixture	17.7	1.6	19.3
<b>Street Side</b>	Lumens	4398.0	124.6	4522.7
	% Fixture	78.5	2.2	80.7
<b>Total</b>	Lumens	5388.7	215.6	5604.3
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	0.4
10°-20°	89.0	1.6
20°-30°	225.0	4.0
30°-40°	436.0	7.8
40°-50°	735.1	13.1
50°-60°	1099.1	19.6
60°-70°	1332.7	23.8
70°-80°	1039.8	18.6
80°-90°	411.4	7.3
90°-100°	126.0	2.2
100°-110°	49.5	0.9
110°-120°	21.9	0.4
120°-130°	10.8	0.2
130°-140°	5.3	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5388.7	96.2
0°-180°	5604.3	100.0

**Coefficient of Utilization**



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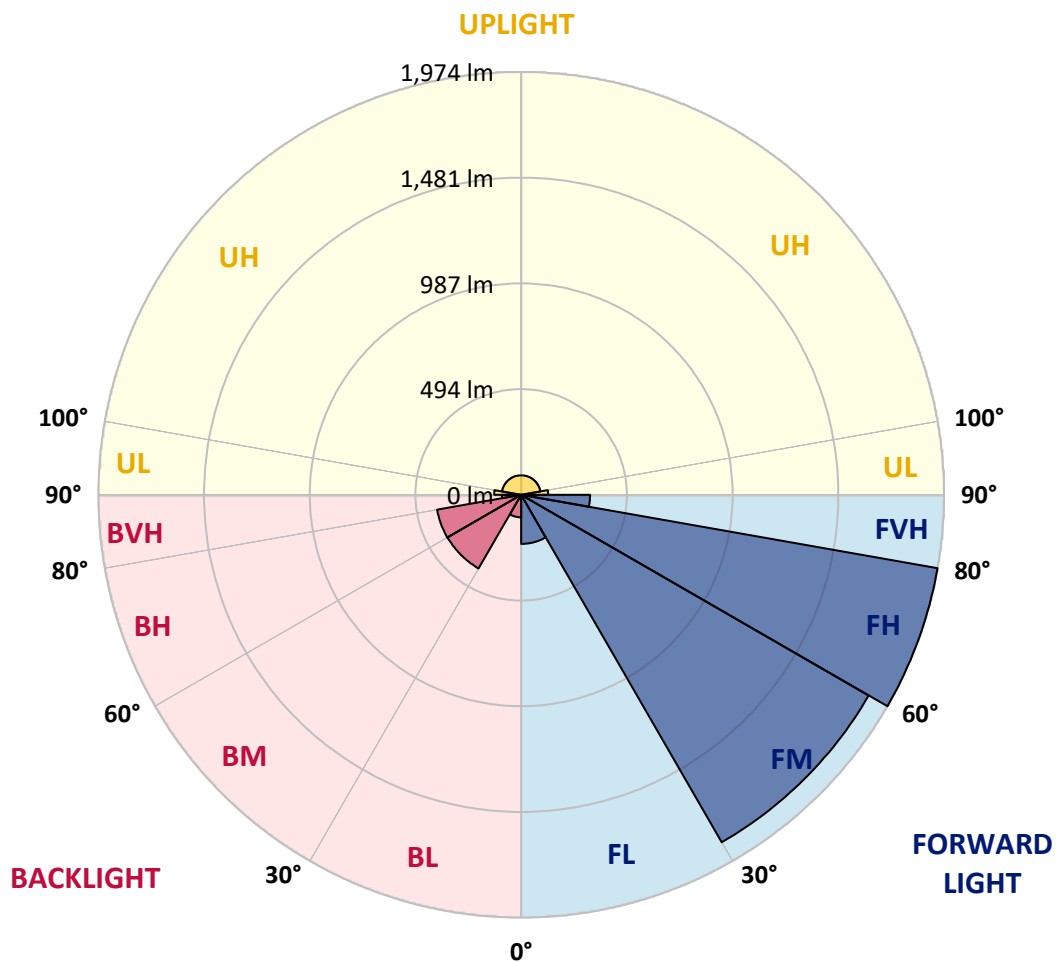
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.1	4.1			
FM	(30°-60°)	1873.2	33.4			
FH	(60°-80°)	1974.2	35.2			G2/5000
FVH	(80°-90°)	321.6	5.7			G3/500
BL	(0°-30°)	105.3	1.9	B0/110		
BM	(30°-60°)	397.1	7.1	B1/1000		
BH	(60°-80°)	398.4	7.1	B1/500		G1/500
BVH	(80°-90°)	89.8	1.6			G1/100
UL	(90°-100°)	126.0	2.2		U3/500	
UH	(100°-180°)	91.0	1.6		U3/500	

**BUG Rating: B1-U3-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4
2.5°	209.6	210.4	210.4	208.0	207.4	205.2	201.5	200.1	198.5	197.1	194.2
5°	237.4	237.4	236.0	233.6	230.9	228.6	224.9	220.5	219.8	214.7	209.6
7.5°	269.0	269.6	270.4	266.6	262.3	258.6	254.2	248.4	246.9	241.9	232.2
10°	310.6	311.4	309.9	306.2	300.5	296.0	291.0	285.0	282.8	278.5	265.2
12.5°	361.2	360.5	356.1	351.0	344.4	339.2	332.6	328.2	326.9	322.4	308.5
15°	414.7	417.6	412.5	400.9	392.6	384.7	381.7	381.7	383.1	378.0	364.9
17.5°	483.6	485.8	477.0	460.9	447.6	438.9	435.9	441.8	444.0	446.2	434.5
20°	563.4	564.1	550.2	527.6	504.0	493.1	493.9	507.7	512.9	520.9	507.1
22.5°	661.0	655.0	635.2	600.1	566.4	548.9	555.4	583.2	587.6	604.5	597.2
25°	762.8	762.0	729.1	682.2	633.0	610.4	621.4	655.8	668.2	693.9	684.4
27.5°	880.0	877.0	834.5	776.7	710.0	676.2	685.9	735.0	749.5	792.8	782.6
30°	1004.6	1005.3	955.4	874.9	792.0	745.1	751.1	819.2	838.2	888.1	885.1
32.5°	1153.2	1144.5	1088.7	983.3	881.4	817.6	825.7	905.0	931.3	990.7	981.8
35°	1302.7	1291.8	1217.7	1102.0	974.5	899.1	902.6	996.5	1024.2	1101.2	1084.4
37.5°	1440.5	1434.7	1360.7	1227.3	1078.5	989.2	993.5	1094.7	1129.8	1215.5	1195.0
40°	1588.6	1588.6	1513.0	1367.9	1194.2	1086.6	1093.1	1203.8	1246.3	1340.1	1305.6
42.5°	1745.2	1740.1	1660.2	1496.1	1309.3	1191.4	1204.5	1326.9	1374.5	1474.2	1439.1
45°	1899.9	1889.0	1806.1	1635.5	1424.4	1309.3	1329.1	1461.7	1511.6	1638.2	1589.2
47.5°	2033.3	2021.5	1940.2	1760.7	1545.3	1431.7	1459.6	1618.6	1671.2	1822.2	1747.6
50°	2128.5	2124.9	2045.7	1860.3	1653.1	1557.8	1616.3	1785.7	1848.6	2001.1	1930.6
52.5°	2184.1	2177.6	2114.6	1950.5	1760.7	1688.2	1777.6	1967.3	2034.0	2198.2	2116.0
55°	2171.7	2167.3	2122.7	1998.1	1844.9	1813.5	1956.2	2169.5	2231.7	2409.2	2311.7
57.5°	2073.6	2079.4	2066.2	2001.1	1907.2	1943.2	2139.6	2382.8	2448.7	2621.7	2517.6
60°	1898.5	1896.2	1933.6	1944.7	1932.2	2055.2	2360.7	2626.0	2676.6	2851.0	2718.4
62.5°	1639.8	1633.9	1715.3	1820.1	1913.7	2149.7	2560.1	2885.4	2935.9	3076.7	2903.7
65°	1322.6	1349.0	1450.8	1623.6	1823.0	2185.7	2753.6	3149.8	3191.7	3266.3	3049.6
67.5°	1002.4	1028.0	1159.9	1379.0	1671.2	2143.8	2876.6	3387.2	3427.7	3447.3	3113.3
70°	731.9	756.9	881.4	1121.8	1465.5	2023.1	2886.2	3489.8	3526.4	3478.1	3019.5
72.5°	520.9	534.1	641.1	869.0	1230.9	1811.3	2765.9	3423.9	3454.0	3319.9	2771.8
75°	368.6	374.5	466.7	661.0	1002.4	1571.7	2480.2	3128.6	3152.2	2983.6	2357.2
77.5°	251.3	264.6	337.9	504.0	803.8	1290.2	2102.2	2682.3	2682.3	2468.5	1864.7
80°	178.0	189.1	242.5	376.6	629.4	1033.9	1698.4	2131.5	2097.7	1855.2	1343.8
82.5°	128.2	137.0	179.5	287.2	488.7	817.0	1288.8	1578.2	1532.1	1294.6	888.1
85°	93.1	101.9	136.4	211.0	374.5	633.8	965.7	1096.1	1050.7	858.1	576.6
87.5°	68.1	74.0	101.9	159.0	283.5	480.0	708.6	744.4	704.1	554.7	370.0
90°	48.4	53.4	77.7	120.2	212.4	360.5	497.5	488.7	444.8	348.7	244.7
92.5°	35.2	38.8	57.9	91.5	158.3	264.6	342.2	315.8	291.0	224.1	170.0
95°	26.4	29.4	45.5	71.1	116.5	186.0	230.9	207.4	188.4	153.2	125.4
97.5°	21.2	23.4	37.4	57.1	90.1	135.6	159.7	137.0	128.2	110.6	96.7
100°	18.3	19.9	31.5	47.6	71.1	101.9	112.8	95.9	90.9	83.5	75.5
102.5°	16.9	17.5	27.8	41.1	57.9	76.1	81.3	71.9	68.1	63.7	59.4
105°	15.5	16.1	25.0	35.9	49.0	59.4	62.3	54.9	52.8	48.4	45.5
107.5°	14.6	14.6	22.0	31.5	41.9	49.0	49.0	43.2	41.1	36.7	35.2
110°	14.0	14.0	19.9	28.6	35.9	41.9	40.3	34.5	32.2	27.8	27.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	13.1	13.1	18.3	25.0	31.5	35.2	33.6	27.8	25.6	21.2	21.2
115°	12.4	12.4	16.1	22.0	27.8	30.1	28.6	22.6	21.2	16.9	17.5
117.5°	12.4	12.4	15.5	19.9	24.2	26.4	24.2	18.3	16.9	14.0	15.5
120°	11.7	11.7	14.0	17.5	21.2	22.6	20.5	15.5	14.0	11.7	13.1
122.5°	11.7	11.7	13.1	15.5	19.0	19.9	17.5	13.1	11.7	10.3	11.7
125°	11.0	11.0	12.4	14.0	16.1	16.9	14.6	11.0	10.3	9.5	10.3
127.5°	11.0	11.0	11.7	12.4	14.6	14.6	12.4	8.9	8.9	8.1	9.5
130°	10.3	11.0	11.0	11.7	12.4	12.4	10.3	7.4	7.4	7.4	8.9
132.5°	10.3	10.3	10.3	10.3	11.0	10.3	8.1	6.6	6.6	6.6	8.1
135°	9.5	9.5	9.5	9.5	8.9	8.1	6.6	5.1	5.1	5.8	7.4
137.5°	9.5	9.5	8.9	8.1	8.1	6.6	5.1	4.4	4.4	5.8	6.6
140°	8.9	8.9	8.1	7.4	5.8	5.1	3.7	3.7	3.7	4.4	5.1
142.5°	7.4	7.4	7.4	5.8	4.4	3.0	2.2	2.2	3.0	3.7	4.4
145°	6.6	6.6	5.8	5.1	3.0	1.4	0.7	1.4	2.2	3.0	3.7
147.5°	5.1	5.1	4.4	3.7	1.4	0.7	0.0	0.7	1.4	1.4	2.2
150°	3.7	3.7	3.7	2.2	0.7	0.0	0.0	0.7	0.7	0.7	1.4
152.5°	3.0	3.0	2.2	1.4	0.0	0.0	0.0	0.0	0.7	0.7	0.7
155°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.7	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°	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4	188.4
2.5°	192.0	191.2	187.6	184.6	181.0	178.0	175.1	173.0	172.1	170.7	171.4
5°	205.2	202.2	194.9	188.4	181.0	174.5	168.5	164.1	160.4	159.0	158.3
7.5°	227.9	223.5	210.4	198.5	186.8	175.1	165.6	158.3	153.9	150.9	150.9
10°	260.9	251.3	234.5	214.7	194.9	178.0	164.8	154.6	148.0	145.9	145.9
12.5°	301.1	291.0	264.6	234.5	206.6	183.2	165.6	154.6	148.0	145.0	144.4
15°	354.7	339.2	300.5	258.0	217.6	187.6	166.4	155.3	150.9	149.5	149.5
17.5°	417.6	398.6	342.2	283.5	230.1	189.8	168.5	159.7	157.6	157.6	157.6
20°	492.5	464.6	389.1	306.2	238.9	192.0	170.0	163.4	163.4	164.8	165.6
22.5°	572.2	537.0	434.5	327.5	241.9	193.4	169.2	164.8	168.5	172.1	173.0
25°	657.2	608.2	475.6	340.6	243.3	189.8	167.1	165.6	173.0	178.0	179.5
27.5°	747.4	680.6	510.6	345.8	238.9	183.2	163.4	164.1	175.1	182.4	184.0
30°	830.2	748.8	538.5	344.4	229.3	175.1	159.0	162.0	175.1	185.4	187.6
32.5°	915.9	816.2	555.4	337.9	217.6	166.4	153.9	159.7	174.5	186.0	188.4
35°	1001.6	875.6	563.4	324.6	204.5	158.3	148.7	156.0	172.1	185.4	186.8
37.5°	1087.3	934.1	565.7	307.7	192.6	151.6	145.0	153.9	168.5	184.0	186.0
40°	1179.7	992.1	561.3	291.0	181.6	147.3	142.1	150.9	165.6	181.6	184.6
42.5°	1283.0	1053.6	556.1	274.1	174.5	144.4	140.0	148.0	161.2	179.5	183.2
45°	1398.0	1121.1	553.1	260.9	170.0	142.9	139.1	145.9	159.0	178.0	181.6
47.5°	1521.8	1206.1	556.1	252.1	167.9	143.5	139.1	144.4	156.0	175.1	179.5
50°	1672.7	1303.5	567.1	245.4	167.1	144.4	140.0	142.9	153.2	170.7	175.1
52.5°	1828.8	1403.2	584.6	244.0	167.9	145.9	140.7	142.1	148.7	164.8	168.5
55°	1990.7	1535.1	614.7	246.1	169.2	148.0	141.5	140.7	145.0	157.6	162.0
57.5°	2174.0	1672.0	652.1	251.3	171.4	149.5	142.1	139.1	140.7	150.9	154.6
60°	2355.6	1811.3	690.2	258.0	175.9	151.6	142.9	138.5	138.5	146.6	149.5
62.5°	2520.6	1933.6	721.7	266.6	179.5	153.2	142.9	137.0	136.4	142.9	145.9
65°	2633.3	1998.1	729.1	271.8	183.2	153.9	141.5	135.6	134.8	140.0	142.9
67.5°	2663.4	1987.8	714.4	274.1	185.4	153.9	141.5	134.0	134.8	139.1	141.5
70°	2546.2	1881.6	666.1	269.6	184.6	153.2	140.0	132.6	134.0	138.5	140.0
72.5°	2266.2	1661.8	591.3	258.6	181.0	150.1	137.0	130.4	132.6	137.7	139.1
75°	1902.2	1376.7	502.6	241.0	174.5	146.6	134.0	127.5	131.2	136.4	137.0
77.5°	1463.2	1055.1	411.1	218.4	165.6	141.5	129.6	123.1	128.2	134.0	133.4
80°	1039.0	769.4	324.6	194.9	153.9	134.0	123.8	117.9	123.8	129.6	128.2
82.5°	715.9	521.6	259.4	172.1	141.5	126.0	117.1	112.1	118.7	123.8	121.6
85°	468.9	352.4	204.5	150.9	129.6	117.9	110.0	104.8	111.4	115.8	112.8
87.5°	302.5	245.4	163.4	131.2	117.1	109.1	101.9	97.5	104.1	107.6	104.8
90°	210.4	178.9	134.8	113.5	105.6	99.6	93.9	89.4	95.2	98.2	96.7
92.5°	150.1	137.0	112.1	99.6	95.2	90.1	85.0	81.3	87.1	89.4	87.9
95°	117.1	109.1	95.2	87.9	85.7	82.0	77.0	73.3	77.7	79.1	78.4
97.5°	93.9	90.1	82.0	77.7	76.1	73.3	69.6	65.9	68.9	69.6	68.9
100°	75.5	74.0	70.3	68.1	67.5	65.1	61.5	58.6	60.0	59.4	59.4
102.5°	60.0	60.0	59.4	58.6	58.6	56.5	53.4	50.6	50.6	49.0	49.0
105°	47.6	49.0	49.0	49.9	50.6	49.0	46.2	42.5	41.9	39.5	39.5
107.5°	37.4	38.8	41.1	41.9	42.5	41.1	38.8	35.2	33.0	30.8	31.5
110°	29.4	30.8	33.6	35.2	35.9	35.2	32.2	29.4	25.6	24.2	25.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	22.6	25.0	27.8	29.4	30.1	29.4	26.4	23.4	19.9	19.0	19.0
115°	19.0	20.5	23.4	25.0	25.0	24.2	22.0	18.3	15.5	14.6	15.5
117.5°	16.1	17.5	19.9	21.2	21.2	20.5	18.3	14.6	12.4	12.4	12.4
120°	14.0	15.5	16.9	18.3	18.3	17.5	15.5	11.7	10.3	10.3	10.3
122.5°	12.4	13.1	14.6	15.5	15.5	14.6	12.4	9.5	8.1	8.9	8.9
125°	11.0	11.7	13.1	14.0	13.1	12.4	10.3	7.4	6.6	7.4	7.4
127.5°	10.3	11.0	11.7	11.7	11.7	10.3	8.9	5.8	5.8	6.6	6.6
130°	9.5	9.5	10.3	10.3	9.5	8.9	6.6	4.4	4.4	5.8	5.8
132.5°	8.9	8.9	9.5	8.9	8.9	7.4	5.1	3.7	4.4	5.1	5.1
135°	7.4	7.4	8.1	8.1	6.6	5.8	3.7	3.0	3.0	3.7	4.4
137.5°	6.6	7.4	7.4	6.6	5.8	4.4	3.0	2.2	3.0	3.0	3.7
140°	5.8	5.8	5.8	5.1	4.4	3.0	1.4	1.4	2.2	2.2	2.2
142.5°	4.4	5.1	5.1	4.4	3.0	1.4	0.7	0.7	1.4	1.4	1.4
145°	3.7	3.7	3.7	3.0	2.2	1.4	0.7	0.7	0.7	0.7	0.7
147.5°	2.2	3.0	3.0	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0
150°	1.4	1.4	2.2	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.7	0.7	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)