

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: P240534

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-TL**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240534  
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-AF24-40-D-U-SL3-TL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 500mA 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: 3956.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 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): 40  
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

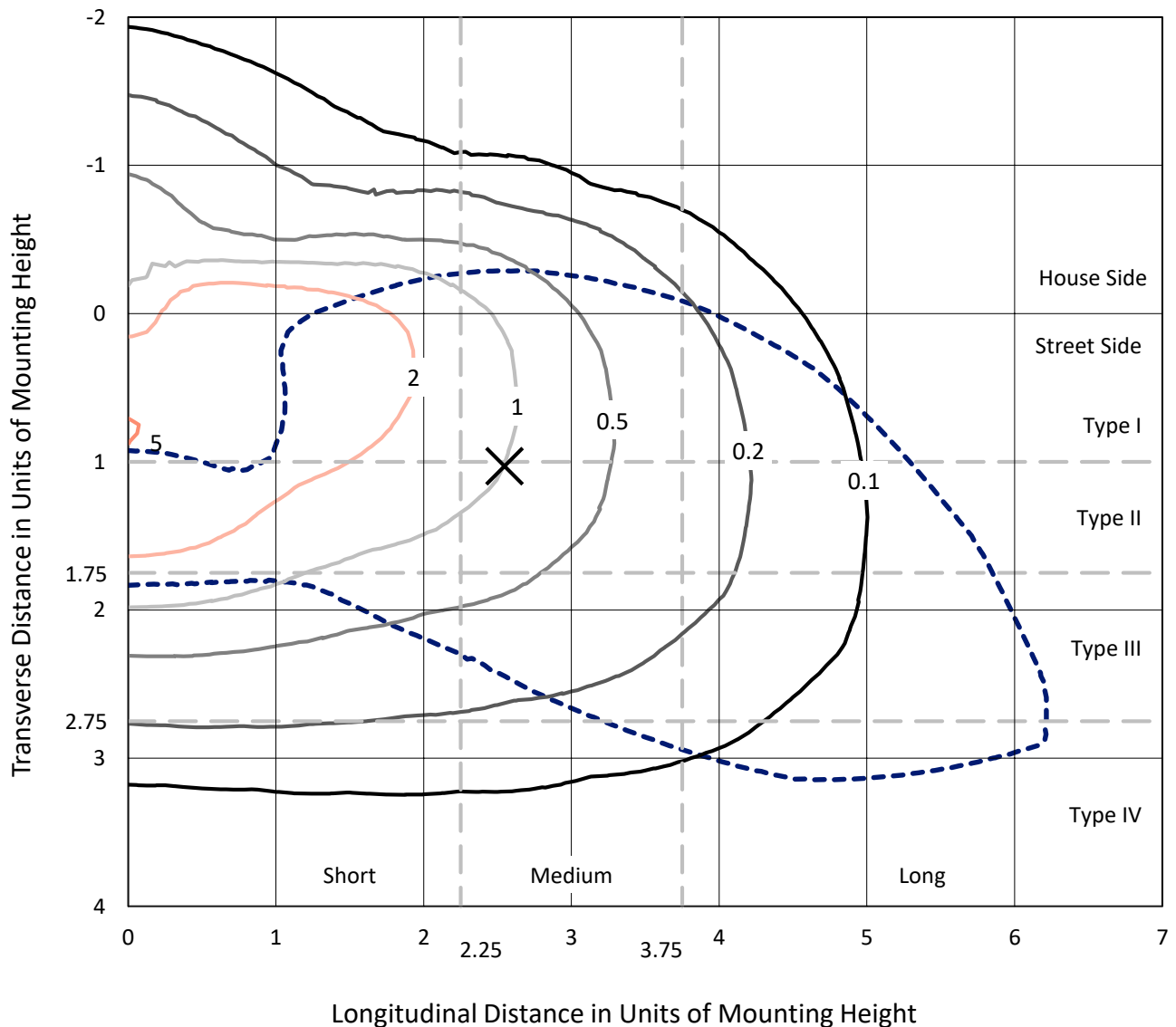


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

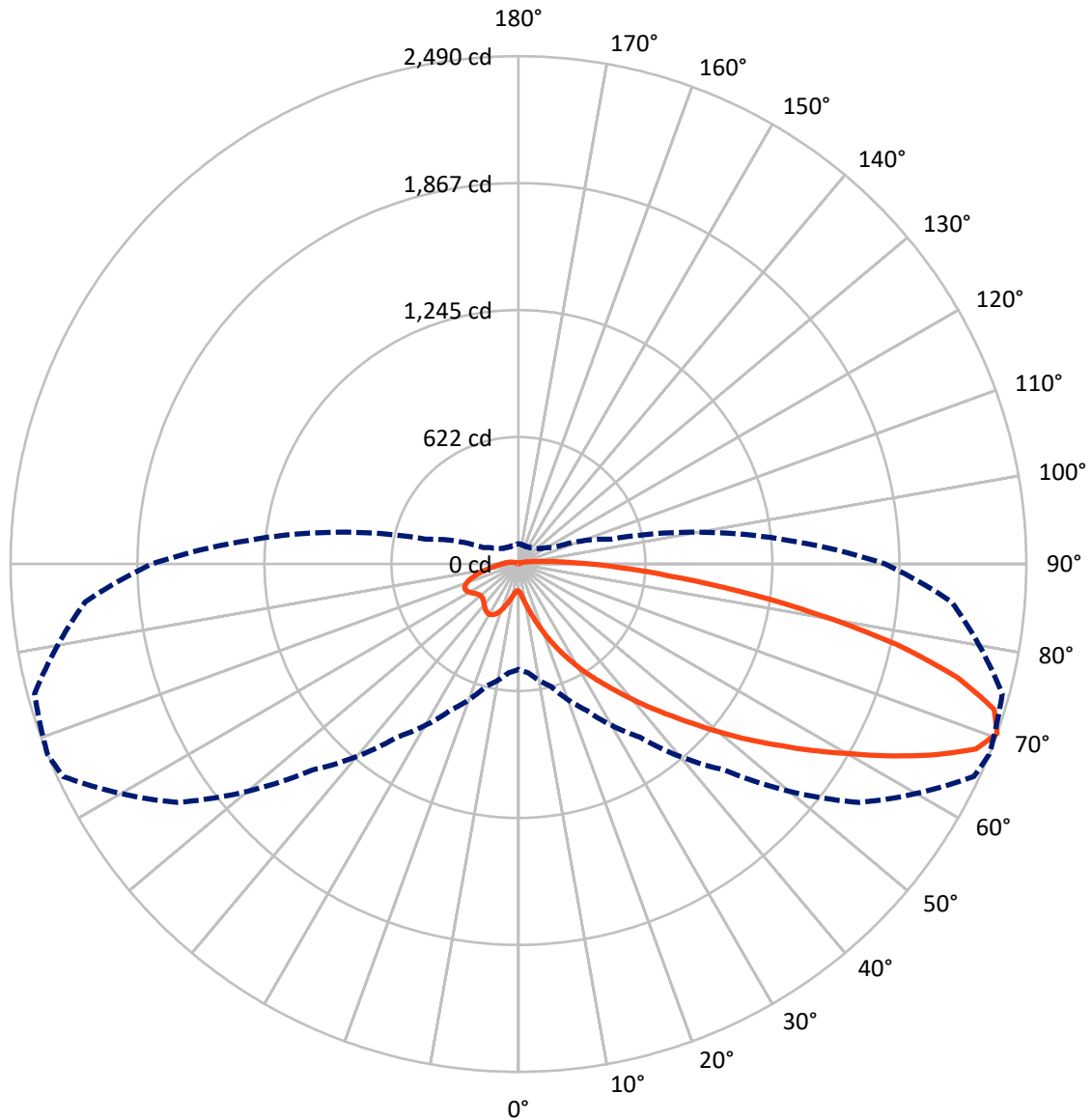


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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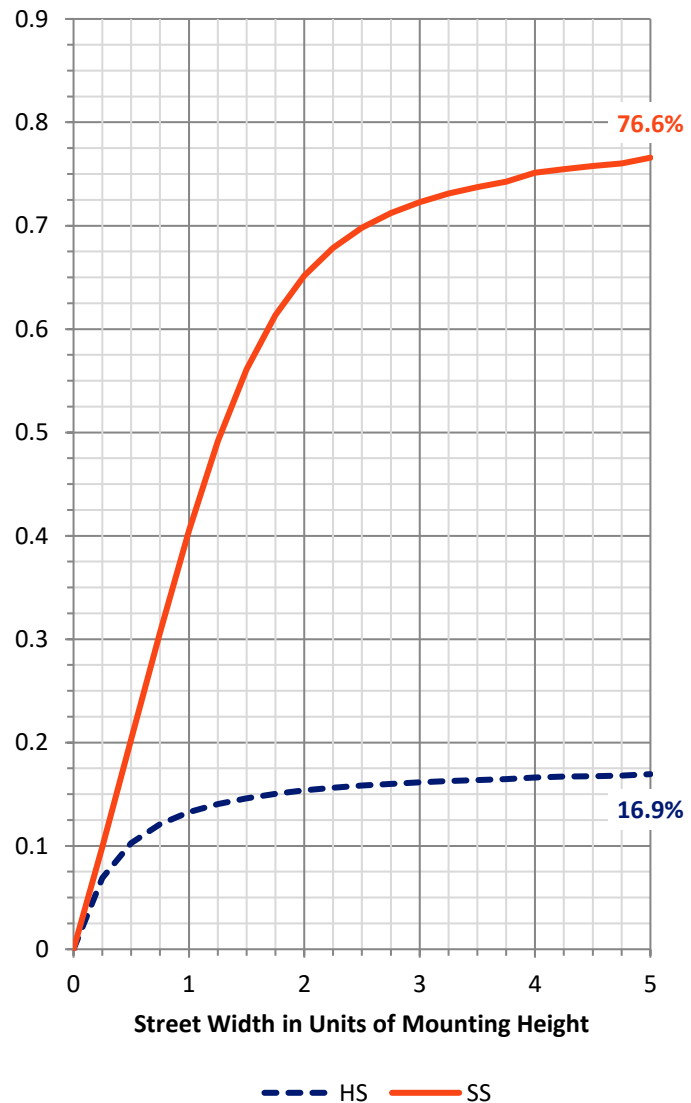
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	699.4	64.2	763.6
	% Fixture	17.7	1.6	19.3
<b>Street Side</b>	Lumens	3105.1	88.0	3193.1
	% Fixture	78.5	2.2	80.7
<b>Total</b>	Lumens	3804.5	152.2	3956.8
	% Fixture	96.2	3.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.5	0.4
10°-20°	62.8	1.6
20°-30°	158.8	4.0
30°-40°	307.8	7.8
40°-50°	519.0	13.1
50°-60°	776.0	19.6
60°-70°	940.9	23.8
70°-80°	734.1	18.6
80°-90°	290.5	7.3
90°-100°	89.0	2.2
100°-110°	35.0	0.9
110°-120°	15.5	0.4
120°-130°	7.6	0.2
130°-140°	3.8	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3804.5	96.2
0°-180°	3956.8	100.0

**Coefficient of Utilization**



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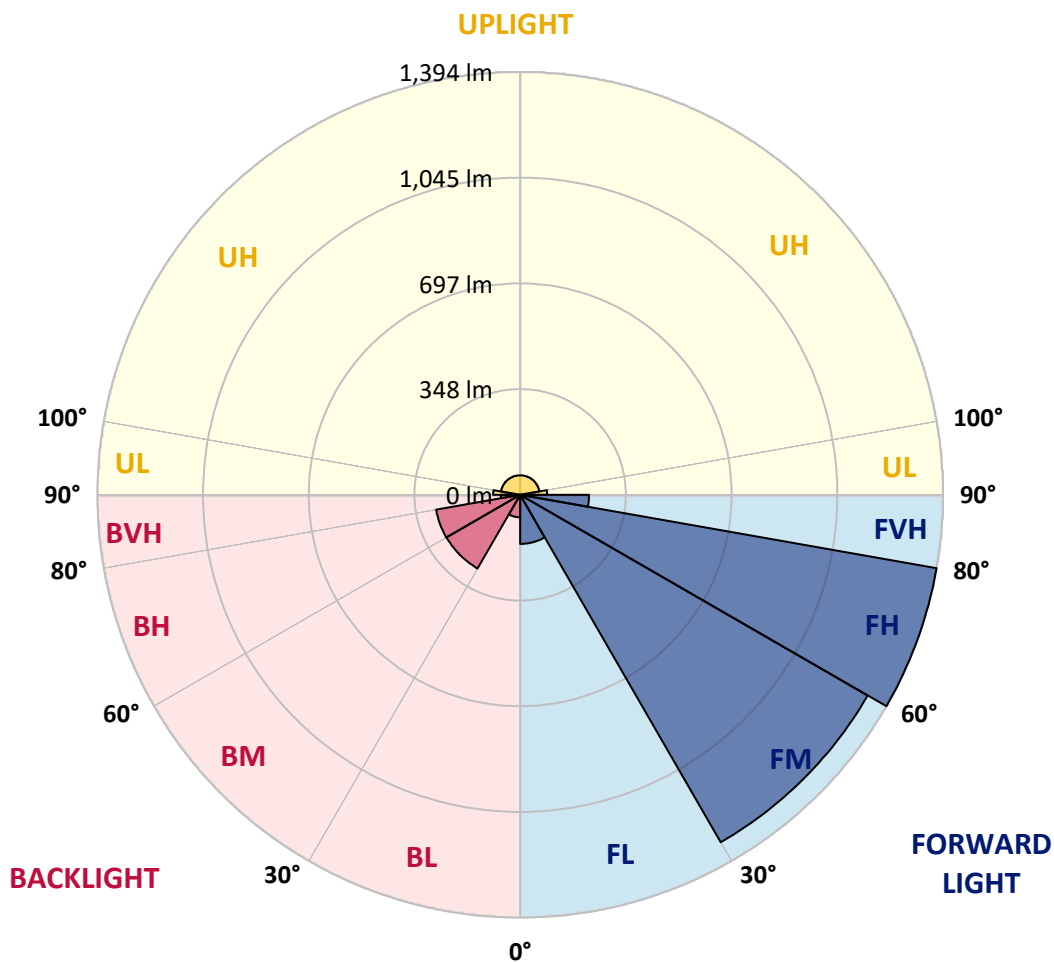
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.8	4.1			
FM	(30°-60°)	1322.5	33.4			
FH	(60°-80°)	1393.8	35.2			G1/1800
FVH	(80°-90°)	227.0	5.7			G3/500
BL	(0°-30°)	74.3	1.9	B0/110		
BM	(30°-60°)	280.3	7.1	B1/1000		
BH	(60°-80°)	281.3	7.1	B1/500		G1/500
BVH	(80°-90°)	63.4	1.6			G1/100
UL	(90°-100°)	89.0	2.2		U3/500	
UH	(100°-180°)	64.2	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°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	147.9	148.4	148.4	146.9	146.4	144.8	142.3	141.3	140.1	139.1	137.1
5°	167.6	167.6	166.5	165.0	163.0	161.4	158.9	155.7	155.2	151.6	147.9
7.5°	189.9	190.4	190.9	188.3	185.2	182.6	179.5	175.3	174.3	170.7	164.0
10°	219.3	219.8	218.8	216.3	212.1	209.0	205.4	201.2	199.7	196.6	187.3
12.5°	255.0	254.5	251.4	247.8	243.2	239.5	234.9	231.8	230.7	227.6	217.8
15°	292.8	294.9	291.2	282.9	277.3	271.6	269.5	269.5	270.6	266.9	257.6
17.5°	341.5	343.0	336.8	325.4	316.1	309.9	307.8	311.9	313.5	315.1	306.8
20°	397.8	398.3	388.5	372.5	355.9	348.1	348.6	358.5	362.1	367.9	357.9
22.5°	466.6	462.5	448.5	423.7	399.9	387.5	392.1	411.7	414.9	426.8	421.6
25°	538.5	538.0	514.7	481.6	446.9	431.0	438.6	463.0	471.8	489.9	483.1
27.5°	621.3	619.2	589.2	548.3	501.2	477.5	484.2	518.8	529.2	559.8	552.5
30°	709.2	709.7	674.5	617.7	559.2	526.1	530.2	578.4	591.8	627.0	624.9
32.5°	814.3	808.0	768.7	694.3	622.4	577.4	583.0	638.8	657.6	699.4	693.2
35°	919.7	912.1	859.8	778.1	688.0	634.7	637.3	703.6	723.2	777.5	765.6
37.5°	1017.0	1012.9	960.7	866.5	761.5	698.4	701.4	772.8	797.7	858.3	843.7
40°	1121.6	1121.6	1068.3	965.9	843.2	767.2	771.8	850.0	879.9	946.1	921.9
42.5°	1232.2	1228.6	1172.2	1056.3	924.4	841.2	850.5	936.8	970.5	1040.9	1016.0
45°	1341.4	1333.6	1275.2	1154.6	1005.7	924.4	938.4	1032.1	1067.2	1156.8	1122.1
47.5°	1435.5	1427.2	1369.8	1243.1	1091.0	1010.8	1030.5	1142.7	1180.0	1286.6	1233.8
50°	1502.8	1500.2	1444.3	1313.5	1167.1	1099.8	1141.2	1260.7	1305.2	1412.8	1363.1
52.5°	1542.1	1537.5	1493.0	1377.1	1243.1	1191.8	1255.0	1389.0	1436.0	1551.9	1494.0
55°	1533.3	1530.2	1498.6	1410.8	1302.6	1280.3	1381.2	1531.8	1575.8	1701.0	1632.1
57.5°	1463.9	1468.1	1458.8	1412.8	1346.6	1371.9	1510.6	1682.3	1728.9	1850.9	1777.5
60°	1340.4	1338.8	1365.2	1372.9	1364.1	1451.1	1666.8	1854.0	1889.7	2012.9	1919.3
62.5°	1157.8	1153.6	1211.1	1285.0	1351.2	1517.8	1807.5	2037.2	2072.9	2172.2	2050.1
65°	933.7	952.4	1024.3	1146.3	1287.1	1543.1	1944.0	2223.9	2253.5	2306.1	2153.0
67.5°	707.7	725.8	818.9	973.5	1180.0	1513.7	2031.0	2391.6	2420.0	2433.9	2198.0
70°	516.8	534.4	622.4	792.0	1034.6	1428.3	2037.7	2464.0	2489.9	2455.7	2131.8
72.5°	367.9	377.2	452.7	613.6	869.1	1278.8	1952.8	2417.4	2438.6	2343.9	1957.0
75°	260.2	264.3	329.5	466.6	707.7	1109.6	1751.1	2209.0	2225.4	2106.5	1664.2
77.5°	177.5	186.8	238.4	355.9	567.5	910.9	1484.2	1893.9	1893.9	1742.8	1316.5
80°	125.7	133.5	171.2	265.9	444.4	729.9	1199.1	1504.9	1481.0	1309.8	948.8
82.5°	90.5	96.8	126.7	202.7	345.0	576.8	909.9	1114.3	1081.7	914.1	627.0
85°	65.7	71.9	96.3	148.9	264.3	447.4	681.8	773.9	741.8	605.8	407.1
87.5°	48.1	52.3	71.9	112.2	200.2	338.8	500.2	525.6	497.2	391.6	261.3
90°	34.2	37.7	54.8	84.8	150.1	254.5	351.3	345.0	314.0	246.2	172.8
92.5°	24.9	27.4	40.9	64.7	111.7	186.8	241.6	223.0	205.4	158.3	120.0
95°	18.6	20.7	32.1	50.2	82.2	131.3	163.0	146.4	133.0	108.1	88.5
97.5°	15.0	16.6	26.4	40.3	63.6	95.7	112.7	96.8	90.5	78.2	68.3
100°	12.9	14.0	22.2	33.7	50.2	71.9	79.7	67.7	64.1	59.0	53.3
102.5°	11.9	12.4	19.6	28.9	40.9	53.8	57.4	50.7	48.1	45.0	41.9
105°	10.8	11.4	17.6	25.4	34.7	41.9	44.0	38.8	37.2	34.2	32.1
107.5°	10.3	10.3	15.5	22.2	29.5	34.7	34.7	30.5	28.9	25.9	24.9
110°	9.8	9.8	14.0	20.2	25.4	29.5	28.4	24.3	22.8	19.6	19.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	9.3	9.3	12.9	17.6	22.2	24.9	23.8	19.6	18.1	15.0	15.0
115°	8.8	8.8	11.4	15.5	19.6	21.2	20.2	16.1	15.0	11.9	12.4
117.5°	8.8	8.8	10.8	14.0	17.1	18.6	17.1	12.9	11.9	9.8	10.8
120°	8.3	8.3	9.8	12.4	15.0	16.1	14.5	10.8	9.8	8.3	9.3
122.5°	8.3	8.3	9.3	10.8	13.4	14.0	12.4	9.3	8.3	7.3	8.3
125°	7.8	7.8	8.8	9.8	11.4	11.9	10.3	7.8	7.3	6.8	7.3
127.5°	7.8	7.8	8.3	8.8	10.3	10.3	8.8	6.2	6.2	5.7	6.8
130°	7.3	7.8	7.8	8.3	8.8	8.8	7.3	5.2	5.2	5.2	6.2
132.5°	7.3	7.3	7.3	7.3	7.8	7.3	5.7	4.7	4.7	4.7	5.7
135°	6.8	6.8	6.8	6.8	6.2	5.7	4.7	3.6	3.6	4.1	5.2
137.5°	6.8	6.8	6.2	5.7	5.7	4.7	3.6	3.1	3.1	4.1	4.7
140°	6.2	6.2	5.7	5.2	4.1	3.6	2.6	2.6	2.6	3.1	3.6
142.5°	5.2	5.2	5.2	4.1	3.1	2.0	1.5	1.5	2.0	2.6	3.1
145°	4.7	4.7	4.1	3.6	2.0	1.0	0.5	1.0	1.5	2.0	2.6
147.5°	3.6	3.6	3.1	2.6	1.0	0.5	0.0	0.5	1.0	1.0	1.5
150°	2.6	2.6	2.6	1.5	0.5	0.0	0.0	0.5	0.5	0.5	1.0
152.5°	2.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
155°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	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°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	135.5	135.0	132.5	130.3	127.8	125.7	123.7	122.0	121.5	120.5	121.0
5°	144.8	142.8	137.6	133.0	127.8	123.2	119.0	115.9	113.2	112.2	111.7
7.5°	160.9	157.7	148.4	140.1	132.0	123.7	116.9	111.7	108.6	106.6	106.6
10°	184.1	177.5	165.5	151.6	137.6	125.7	116.4	109.1	104.5	102.9	102.9
12.5°	212.6	205.4	186.8	165.5	145.9	129.3	116.9	109.1	104.5	102.4	101.9
15°	250.4	239.5	212.1	182.1	153.6	132.5	117.4	109.7	106.6	105.6	105.6
17.5°	294.9	281.4	241.6	200.2	162.4	134.0	119.0	112.7	111.2	111.2	111.2
20°	347.6	328.0	274.7	216.3	168.7	135.5	120.0	115.4	115.4	116.4	116.9
22.5°	404.1	379.2	306.8	231.3	170.7	136.6	119.5	116.4	119.0	121.5	122.0
25°	464.0	429.3	335.7	240.6	171.8	134.0	117.9	116.9	122.0	125.7	126.7
27.5°	527.6	480.6	360.6	244.2	168.7	129.3	115.4	115.9	123.7	128.8	129.8
30°	586.2	528.7	380.2	243.2	161.9	123.7	112.2	114.4	123.7	130.8	132.5
32.5°	646.6	576.3	392.1	238.4	153.6	117.4	108.6	112.7	123.2	131.3	133.0
35°	707.2	618.2	397.8	229.1	144.3	111.7	105.1	110.2	121.5	130.8	132.0
37.5°	767.7	659.6	399.4	217.3	136.1	107.1	102.4	108.6	119.0	129.8	131.3
40°	832.9	700.4	396.3	205.4	128.3	103.9	100.4	106.6	116.9	128.3	130.3
42.5°	905.8	743.9	392.6	193.4	123.2	101.9	98.8	104.5	113.9	126.7	129.3
45°	987.0	791.5	390.6	184.1	120.0	100.9	98.3	102.9	112.2	125.7	128.3
47.5°	1074.4	851.5	392.6	178.0	118.5	101.4	98.3	101.9	110.2	123.7	126.7
50°	1181.0	920.2	400.4	173.3	117.9	101.9	98.8	100.9	108.1	120.5	123.7
52.5°	1291.2	990.6	412.9	172.3	118.5	102.9	99.3	100.4	105.1	116.4	119.0
55°	1405.5	1083.8	434.0	173.8	119.5	104.5	99.8	99.3	102.4	111.2	114.4
57.5°	1534.8	1180.5	460.4	177.5	121.0	105.6	100.4	98.3	99.3	106.6	109.1
60°	1663.1	1278.8	487.3	182.1	124.2	107.1	100.9	97.8	97.8	103.4	105.6
62.5°	1779.5	1365.2	509.5	188.3	126.7	108.1	100.9	96.8	96.3	100.9	102.9
65°	1859.2	1410.8	514.7	191.9	129.3	108.6	99.8	95.7	95.1	98.8	100.9
67.5°	1880.4	1403.5	504.4	193.4	130.8	108.6	99.8	94.6	95.1	98.3	99.8
70°	1797.6	1328.5	470.3	190.4	130.3	108.1	98.8	93.6	94.6	97.8	98.8
72.5°	1600.0	1173.2	417.5	182.6	127.8	106.1	96.8	92.1	93.6	97.3	98.3
75°	1342.9	972.0	354.9	170.2	123.2	103.4	94.6	90.0	92.6	96.3	96.8
77.5°	1033.1	744.9	290.2	154.2	116.9	99.8	91.6	87.0	90.5	94.6	94.1
80°	733.6	543.2	229.1	137.6	108.6	94.6	87.5	83.3	87.5	91.6	90.5
82.5°	505.4	368.4	183.1	121.5	99.8	89.0	82.8	79.2	83.8	87.5	85.8
85°	331.1	248.8	144.3	106.6	91.6	83.3	77.6	74.0	78.7	81.7	79.7
87.5°	213.7	173.3	115.4	92.6	82.8	77.1	71.9	68.8	73.4	76.0	74.0
90°	148.4	126.2	95.1	80.2	74.5	70.4	66.2	63.1	67.2	69.4	68.3
92.5°	106.1	96.8	79.2	70.4	67.2	63.6	60.0	57.4	61.6	63.1	62.1
95°	82.8	77.1	67.2	62.1	60.6	57.9	54.3	51.8	54.8	55.9	55.3
97.5°	66.2	63.6	57.9	54.8	53.8	51.8	49.1	46.5	48.6	49.1	48.6
100°	53.3	52.3	49.6	48.1	47.6	46.0	43.5	41.4	42.5	41.9	41.9
102.5°	42.5	42.5	41.9	41.4	41.4	39.8	37.7	35.7	35.7	34.7	34.7
105°	33.7	34.7	34.7	35.2	35.7	34.7	32.6	30.0	29.5	27.9	27.9
107.5°	26.4	27.4	28.9	29.5	30.0	28.9	27.4	24.9	23.3	21.7	22.2
110°	20.7	21.7	23.8	24.9	25.4	24.9	22.8	20.7	18.1	17.1	17.6



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.1	17.6	19.6	20.7	21.2	20.7	18.6	16.6	14.0	13.4	13.4
115°	13.4	14.5	16.6	17.6	17.6	17.1	15.5	12.9	10.8	10.3	10.8
117.5°	11.4	12.4	14.0	15.0	15.0	14.5	12.9	10.3	8.8	8.8	8.8
120°	9.8	10.8	11.9	12.9	12.9	12.4	10.8	8.3	7.3	7.3	7.3
122.5°	8.8	9.3	10.3	10.8	10.8	10.3	8.8	6.8	5.7	6.2	6.2
125°	7.8	8.3	9.3	9.8	9.3	8.8	7.3	5.2	4.7	5.2	5.2
127.5°	7.3	7.8	8.3	8.3	8.3	7.3	6.2	4.1	4.1	4.7	4.7
130°	6.8	6.8	7.3	7.3	6.8	6.2	4.7	3.1	3.1	4.1	4.1
132.5°	6.2	6.2	6.8	6.2	6.2	5.2	3.6	2.6	3.1	3.6	3.6
135°	5.2	5.2	5.7	5.7	4.7	4.1	2.6	2.0	2.0	2.6	3.1
137.5°	4.7	5.2	5.2	4.7	4.1	3.1	2.0	1.5	2.0	2.0	2.6
140°	4.1	4.1	4.1	3.6	3.1	2.0	1.0	1.0	1.5	1.5	1.5
142.5°	3.1	3.6	3.6	3.1	2.0	1.0	0.5	0.5	1.0	1.0	1.0
145°	2.6	2.6	2.6	2.0	1.5	1.0	0.5	0.5	0.5	0.5	0.5
147.5°	1.5	2.0	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
150°	1.0	1.0	1.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.5	0.5	0.5	0.5	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)