

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: P240421

Luminaire Tested: **UTLD-AF24-80-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7069.1 lumens
Efficiency: N/A
Efficacy: 85.2 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: B2 - U3 - G3

Input Watts (W): 83
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

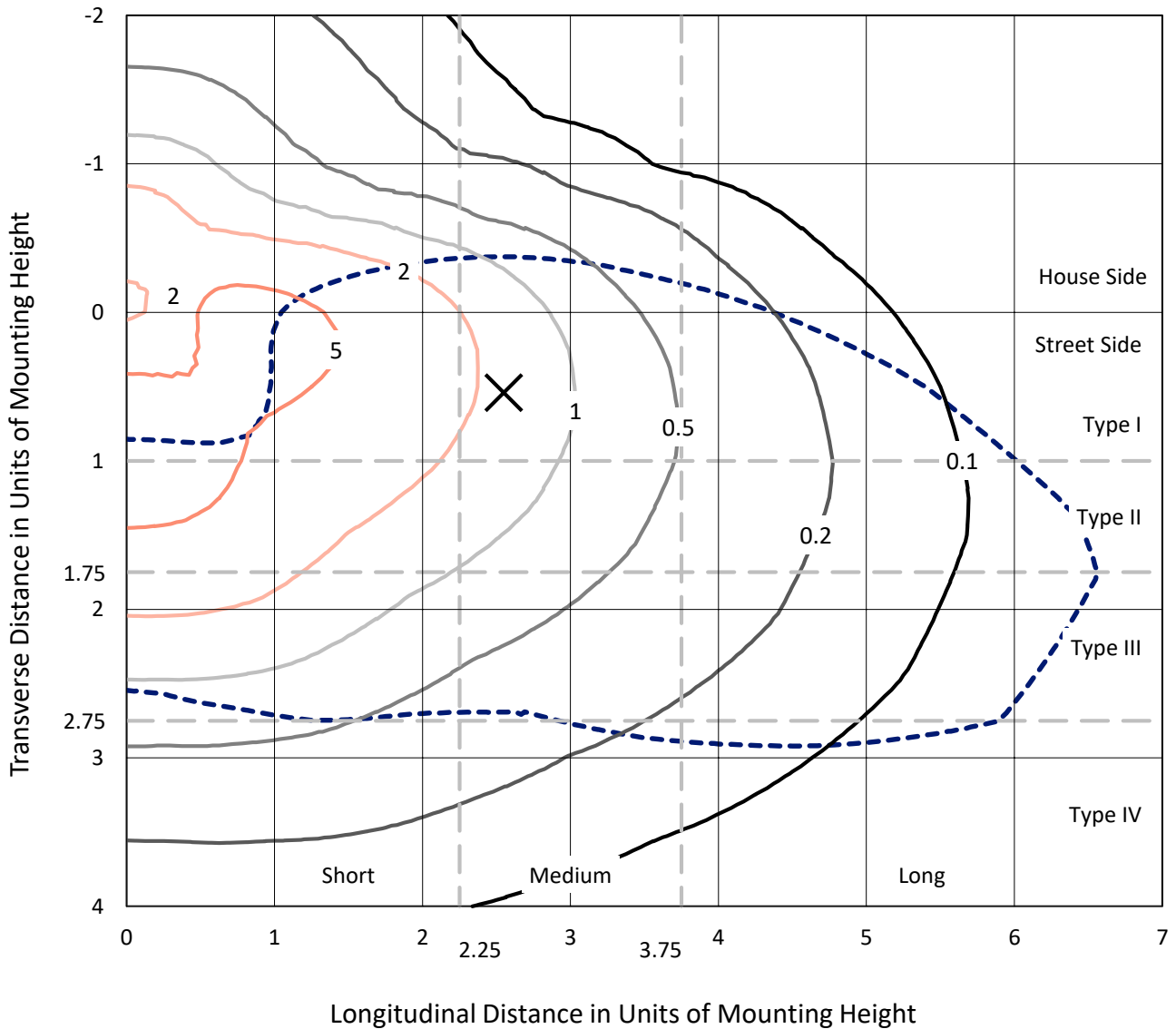


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

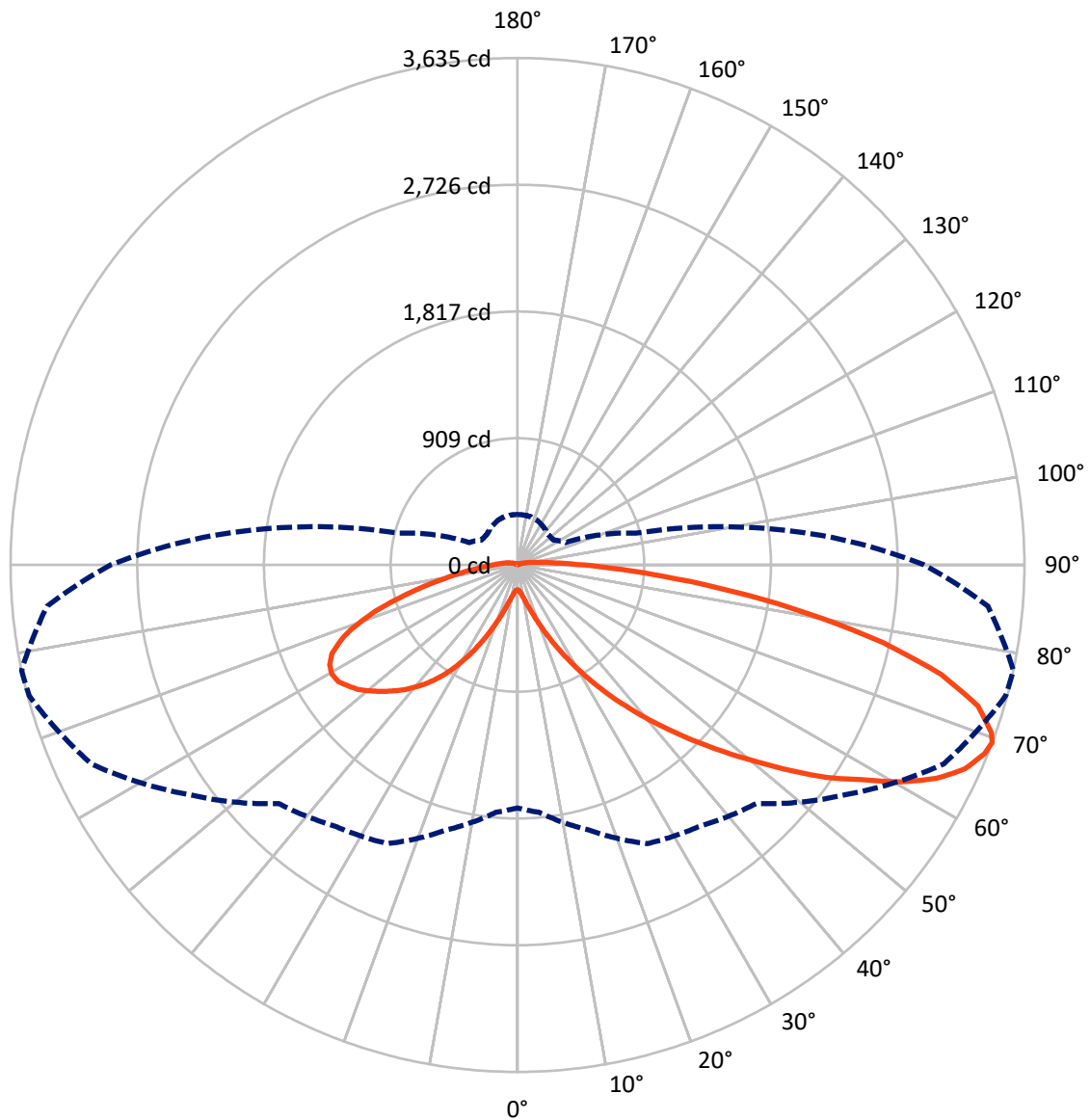


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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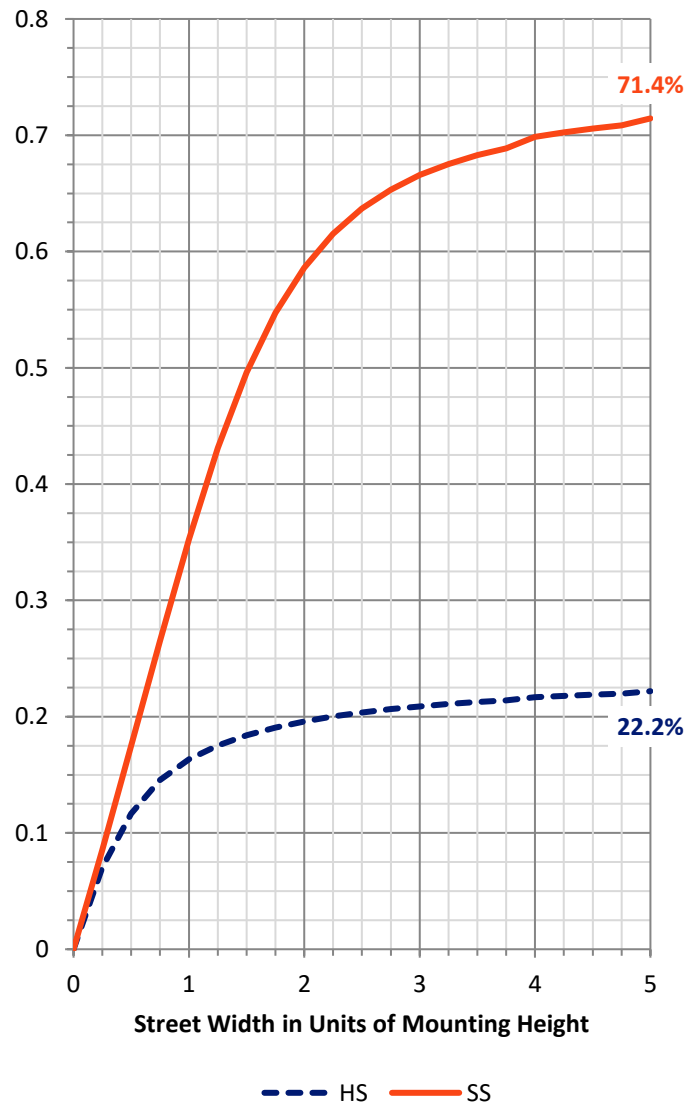
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.1	123.4	1765.5
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5168.0	135.6	5303.6
	% Fixture	73.1	1.9	75.0
Total	Lumens	6810.1	258.9	7069.1
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	0.3
10°-20°	90.8	1.3
20°-30°	259.0	3.7
30°-40°	550.5	7.8
40°-50°	954.3	13.5
50°-60°	1428.7	20.2
60°-70°	1700.5	24.1
70°-80°	1297.1	18.3
80°-90°	509.6	7.2
90°-100°	149.6	2.1
100°-110°	60.5	0.9
110°-120°	27.3	0.4
120°-130°	13.2	0.2
130°-140°	6.2	0.1
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6810.1	96.3
0°-180°	7069.1	100.0



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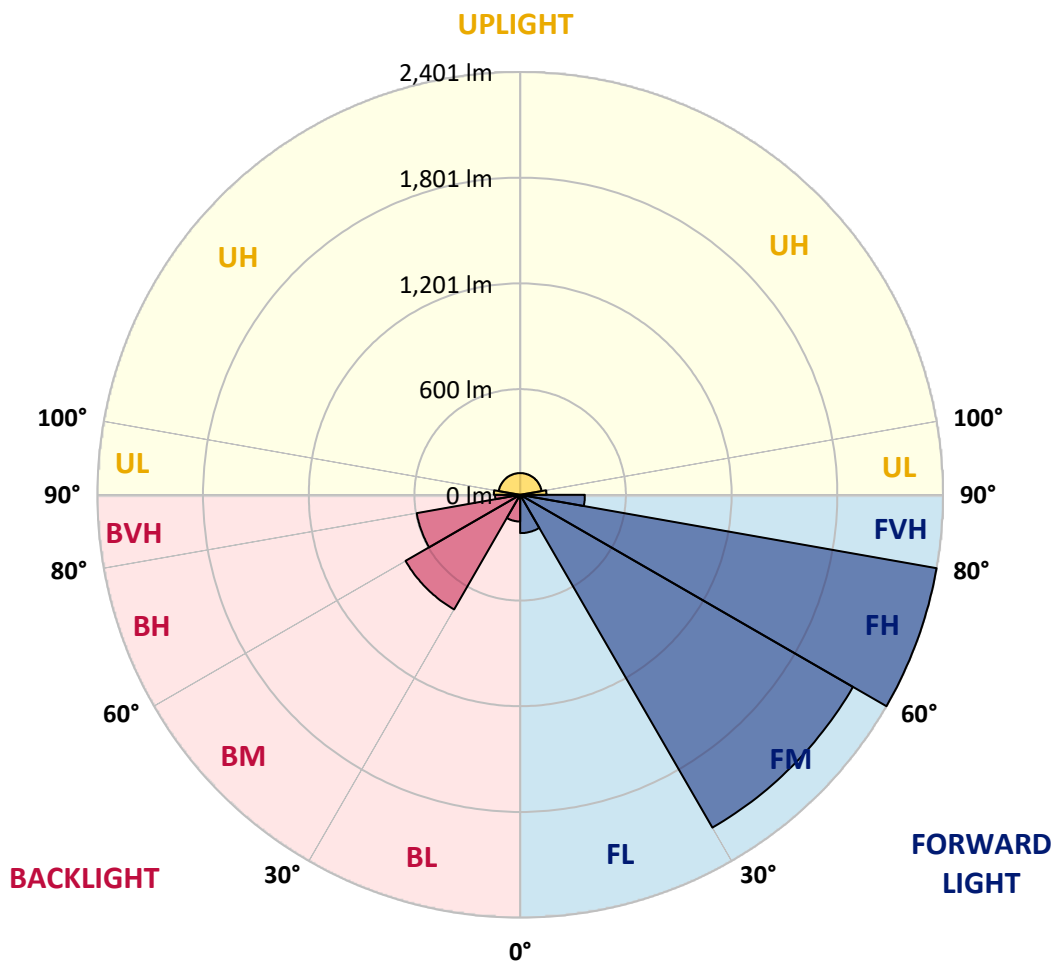
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.5	3.1			
FM	(30°-60°)	2182.1	30.9			
FH	(60°-80°)	2401.2	34.0			G2/5000
FVH	(80°-90°)	367.2	5.2			G3/500
BL	(0°-30°)	151.9	2.1	B1/500		
BM	(30°-60°)	751.4	10.6	B1/1000		
BH	(60°-80°)	596.5	8.4	B2/1000		G2/1000
BVH	(80°-90°)	142.4	2.0			G2/225
UL	(90°-100°)	149.6	2.1		U3/500	
UH	(100°-180°)	123.4	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5
2.5°	191.9	191.9	190.9	190.9	190.1	188.4	185.6	183.9	182.9	182.9	181.2
5°	213.3	213.3	211.5	211.5	208.8	206.2	202.5	198.1	195.5	194.6	191.9
7.5°	241.9	240.9	240.1	237.4	234.7	229.3	224.8	220.4	215.1	214.1	210.7
10°	278.5	276.7	276.7	273.0	267.6	261.4	253.5	247.3	241.9	240.9	237.4
12.5°	326.6	324.8	322.2	315.0	307.0	297.1	290.1	283.8	278.5	276.7	272.2
15°	383.7	382.9	375.8	366.8	352.5	340.1	332.0	326.6	324.8	323.1	318.6
17.5°	455.2	450.7	443.6	425.7	407.0	389.1	382.0	382.9	383.7	383.7	380.2
20°	534.6	532.7	522.0	498.0	472.1	449.8	443.6	448.9	456.0	456.0	455.2
22.5°	638.9	633.6	614.0	580.0	543.4	521.1	512.3	523.9	543.4	544.4	547.9
25°	753.3	751.4	720.2	670.2	623.9	597.1	590.8	605.1	640.8	643.4	653.3
27.5°	880.0	875.5	847.0	776.4	715.7	676.6	673.8	705.0	743.4	756.8	771.1
30°	1033.5	1029.0	974.6	893.3	819.2	767.5	768.4	808.5	867.5	879.1	899.6
32.5°	1192.3	1187.8	1131.6	1029.9	931.8	867.5	869.2	929.0	996.9	1011.2	1033.5
35°	1375.2	1373.5	1299.4	1174.4	1050.4	972.7	986.2	1049.6	1133.4	1156.6	1176.2
37.5°	1573.5	1553.7	1481.4	1336.0	1180.8	1096.0	1105.7	1190.5	1289.6	1300.3	1320.0
40°	1772.4	1768.0	1681.4	1518.0	1330.7	1225.4	1238.8	1334.3	1441.3	1460.9	1471.6
42.5°	1982.2	1980.4	1878.6	1700.2	1485.9	1368.2	1380.6	1489.5	1609.1	1627.9	1633.2
45°	2205.3	2192.8	2091.9	1892.1	1665.3	1519.9	1542.2	1654.6	1795.6	1810.8	1813.4
47.5°	2397.1	2381.1	2305.3	2097.2	1840.3	1684.1	1701.0	1841.1	1989.3	2005.4	1999.1
50°	2570.4	2563.1	2486.4	2302.5	2032.1	1850.1	1874.2	2026.8	2193.7	2213.3	2207.0
52.5°	2683.6	2679.1	2647.9	2470.4	2200.8	2019.6	2053.5	2219.5	2416.9	2445.3	2412.3
55°	2739.9	2739.9	2746.1	2617.7	2355.2	2180.3	2232.9	2433.8	2648.8	2689.0	2642.6
57.5°	2735.5	2730.1	2781.8	2718.5	2473.8	2309.6	2412.3	2661.3	2887.0	2903.1	2879.1
60°	2633.7	2650.6	2741.7	2753.3	2558.7	2424.8	2583.7	2872.0	3114.7	3157.5	3084.4
62.5°	2471.2	2503.3	2636.3	2713.1	2581.9	2507.0	2730.9	3056.6	3326.2	3369.9	3265.5
65°	2247.3	2280.2	2443.6	2591.7	2535.5	2534.6	2831.8	3225.4	3494.8	3526.2	3386.0
67.5°	1966.1	1976.8	2165.1	2378.3	2404.2	2492.6	2880.0	3341.3	3617.1	3611.8	3428.9
69°	1742.0	1780.5	1966.1	2204.5	2284.7	2419.4	2871.0	3373.5	3624.2	3634.9	3386.0
70°	1628.7	1635.8	1818.8	2060.7	2200.8	2353.5	2840.7	3366.4	3612.6	3604.7	3336.9
72.5°	1264.5	1278.9	1446.7	1709.9	1903.7	2133.9	2691.7	3245.9	3472.6	3452.0	3084.4
75°	902.3	926.4	1080.8	1327.9	1557.4	1847.3	2416.9	2987.0	3184.3	3137.0	2721.1
77.5°	615.7	640.8	756.0	982.6	1211.0	1527.0	2038.3	2595.2	2730.9	2681.9	2224.0
80°	395.4	412.4	503.3	682.8	900.6	1172.7	1623.4	2079.4	2199.9	2112.4	1700.2
82.5°	261.4	272.2	335.5	462.2	630.1	864.8	1203.9	1553.7	1607.3	1552.0	1191.5
85°	176.7	183.9	229.3	314.1	441.7	608.7	852.3	1080.8	1124.5	1047.8	794.4
87.5°	121.4	128.5	165.1	219.5	307.0	424.8	571.2	726.5	713.0	677.4	518.6
90°	86.6	92.9	118.6	156.1	216.9	295.4	381.1	459.7	457.8	423.1	331.0
92.5°	62.5	67.8	90.1	116.9	160.6	207.0	257.0	289.2	289.2	274.9	219.5
95°	47.3	51.0	68.8	89.3	120.5	153.5	179.4	196.3	192.8	182.0	158.9
97.5°	37.4	40.2	54.4	72.3	95.5	118.6	133.9	135.7	133.0	129.4	117.8
100°	31.2	33.0	45.6	60.6	79.4	96.3	103.6	100.8	97.2	96.3	90.1
102.5°	26.8	27.7	39.3	52.7	67.8	80.3	83.0	78.5	74.1	73.2	70.5
105°	24.1	24.1	33.9	45.6	58.0	66.9	68.8	63.4	57.2	55.2	54.4
107.5°	21.5	22.3	29.5	40.2	49.9	57.2	57.2	51.0	43.7	41.9	41.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	19.6	19.6	25.9	35.7	43.7	49.0	48.2	41.1	33.9	32.1	33.0
112.5°	17.8	17.8	23.2	31.2	38.4	41.9	40.2	33.0	26.8	25.9	25.9
115°	16.9	16.9	20.5	27.7	33.0	35.7	33.9	26.8	21.5	20.5	21.5
117.5°	15.2	16.1	18.8	24.1	28.5	31.2	28.5	22.3	17.8	16.9	18.8
120°	14.3	15.2	16.9	20.5	25.0	26.8	23.2	18.8	15.2	15.2	16.1
122.5°	13.4	14.3	15.2	18.8	21.5	22.3	19.6	15.2	12.4	13.4	14.3
125°	13.4	13.4	14.3	16.1	18.8	18.8	16.1	12.4	11.6	11.6	12.4
127.5°	12.4	12.4	12.4	14.3	16.1	16.1	13.4	10.7	9.9	10.7	11.6
130°	11.6	11.6	11.6	12.4	13.4	13.4	11.6	9.0	9.0	9.0	9.9
132.5°	10.7	10.7	10.7	10.7	11.6	10.7	9.0	7.1	8.0	8.0	9.0
135°	9.9	9.9	9.9	9.9	9.0	8.0	6.2	6.2	7.1	7.1	8.0
137.5°	9.0	9.0	9.0	8.0	7.1	6.2	5.4	5.4	6.2	6.2	7.1
140°	8.0	8.0	8.0	6.2	5.4	4.5	3.6	3.6	5.4	5.4	5.4
142.5°	7.1	7.1	6.2	5.4	4.5	2.7	1.7	2.7	3.6	3.6	4.5
145°	5.4	5.4	5.4	4.5	2.7	1.7	0.9	1.7	2.7	2.7	3.6
147.5°	4.5	4.5	4.5	3.6	1.7	0.9	0.9	0.9	1.7	1.7	2.7
150°	3.6	3.6	2.7	2.7	0.9	0.0	0.0	0.9	0.9	1.7	1.7
152.5°	2.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	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°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5
2.5°	180.3	179.4	178.5	176.7	175.8	174.0	172.2	170.5	170.5	170.5	169.6
5°	190.9	189.2	186.5	182.9	180.3	177.5	175.0	172.2	171.3	170.5	170.5
7.5°	207.9	206.2	200.8	196.3	190.9	187.4	182.9	181.2	179.4	178.5	178.5
10°	233.9	230.2	223.1	216.0	209.8	202.5	198.1	195.5	192.8	191.9	192.8
12.5°	268.7	262.3	253.5	242.8	232.0	223.1	217.8	215.1	214.1	213.3	213.3
15°	316.9	312.4	294.6	275.8	260.6	248.1	240.9	238.3	243.6	245.4	245.4
17.5°	379.3	371.3	349.8	324.0	292.7	274.0	268.7	273.0	277.5	282.9	283.8
20°	456.9	443.6	415.8	374.0	332.0	305.3	300.8	306.2	316.9	324.0	324.8
22.5°	541.7	532.7	489.9	427.5	371.3	340.1	330.2	338.2	355.2	365.0	365.9
25°	650.6	636.3	572.1	486.4	412.4	368.5	356.9	368.5	389.1	404.3	405.2
27.5°	769.3	747.0	663.1	545.3	447.1	392.7	378.4	393.6	421.2	439.1	440.9
30°	892.4	861.2	753.3	600.6	478.3	408.7	393.6	412.4	443.6	464.2	466.7
32.5°	1021.9	984.4	836.3	648.8	498.9	417.7	401.6	423.9	456.9	478.3	481.1
35°	1154.0	1106.7	913.9	683.6	508.7	419.4	402.5	427.5	459.7	482.0	484.6
37.5°	1293.2	1223.6	981.7	707.7	510.5	414.1	398.9	423.9	454.3	474.8	476.6
40°	1427.9	1337.8	1038.8	718.4	504.2	406.1	390.0	415.8	441.7	456.9	458.7
42.5°	1576.1	1460.9	1088.8	718.4	491.7	396.3	380.2	404.3	424.8	435.5	436.4
45°	1727.0	1584.1	1128.1	709.5	475.8	383.7	370.4	391.8	407.9	412.4	412.4
47.5°	1900.9	1713.5	1164.7	694.4	457.8	371.3	360.5	380.2	391.8	391.8	392.7
50°	2075.8	1849.2	1192.3	672.9	437.2	360.5	352.5	371.3	380.2	374.9	374.9
52.5°	2265.1	1988.4	1218.2	645.2	418.6	350.7	347.1	366.8	373.0	365.0	363.2
55°	2456.0	2119.6	1223.6	610.4	397.1	342.7	344.5	363.2	369.6	360.5	359.7
57.5°	2660.5	2254.3	1222.7	570.4	378.4	336.4	341.8	362.3	368.5	359.7	358.8
60°	2818.4	2360.5	1194.1	528.4	361.4	330.2	340.9	361.4	368.5	361.4	361.4
62.5°	2961.2	2423.1	1140.5	483.7	345.4	325.7	338.2	359.7	366.8	363.2	363.2
65°	3026.4	2440.9	1058.5	440.0	332.0	320.3	336.4	356.9	365.0	364.2	365.0
67.5°	2986.2	2358.0	949.6	400.8	319.5	314.1	332.0	352.5	361.4	363.2	364.2
69°	2916.5	2265.1	881.7	380.2	312.4	309.6	328.5	348.1	358.8	361.4	361.4
70°	2855.0	2185.6	825.6	367.6	307.0	307.0	326.6	345.4	356.0	358.8	359.7
72.5°	2556.8	1926.8	697.9	334.7	295.4	298.1	317.7	336.4	348.1	350.7	350.7
75°	2190.9	1580.6	568.4	307.0	282.0	288.2	307.0	324.8	335.5	338.2	337.4
77.5°	1744.8	1225.4	461.4	282.9	266.8	273.0	292.7	309.6	320.3	322.2	318.6
80°	1302.2	893.3	374.0	258.0	249.0	257.0	274.9	289.2	299.9	300.8	295.4
82.5°	902.3	645.2	304.3	233.9	229.3	235.6	251.7	264.2	274.0	271.3	268.7
85°	601.5	442.6	249.0	207.0	207.0	214.1	225.8	233.9	243.6	240.1	234.7
87.5°	396.3	305.3	204.5	181.2	182.9	189.2	198.1	200.8	209.8	207.0	200.8
90°	268.7	219.5	167.8	156.1	158.9	165.1	169.6	169.6	175.8	171.3	168.7
92.5°	190.9	167.8	140.1	134.7	137.4	142.8	143.6	140.1	145.5	142.8	139.2
95°	143.6	132.1	118.6	116.1	119.6	123.1	122.3	116.9	118.6	116.9	116.1
97.5°	111.6	107.9	100.8	99.1	102.6	105.3	103.6	97.2	98.3	96.3	94.6
100°	90.1	87.4	85.7	85.7	88.4	89.3	86.6	81.2	80.3	77.7	78.5
102.5°	71.3	71.3	72.3	74.1	75.8	75.8	72.3	67.8	66.0	63.4	63.4
105°	56.3	57.2	60.6	61.6	63.4	63.4	59.8	56.3	52.7	49.9	49.9
107.5°	43.7	45.6	49.0	51.8	53.5	52.7	49.9	46.4	41.9	39.3	39.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	34.9	36.6	40.2	43.7	44.6	44.6	41.9	37.4	32.1	31.2	31.2
112.5°	28.5	29.5	33.9	36.6	37.4	37.4	34.9	31.2	25.9	25.0	25.0
115°	23.2	24.1	27.7	30.4	31.2	31.2	29.5	25.9	20.5	20.5	20.5
117.5°	19.6	20.5	23.2	25.9	26.8	26.8	24.1	20.5	16.9	16.9	16.9
120°	16.9	17.8	19.6	21.5	22.3	22.3	20.5	16.9	14.3	14.3	14.3
122.5°	15.2	16.1	16.9	18.8	19.6	19.6	16.9	13.4	12.4	12.4	12.4
125°	13.4	14.3	15.2	16.1	16.9	16.1	14.3	11.6	10.7	11.6	11.6
127.5°	11.6	12.4	13.4	13.4	14.3	13.4	11.6	9.9	9.0	9.9	9.9
130°	10.7	10.7	11.6	11.6	12.4	11.6	9.9	8.0	8.0	9.0	9.0
132.5°	9.9	9.9	9.9	9.9	10.7	9.9	8.0	6.2	7.1	8.0	8.0
135°	8.0	8.0	9.0	8.0	9.0	7.1	6.2	5.4	6.2	7.1	7.1
137.5°	7.1	7.1	7.1	7.1	6.2	6.2	4.5	4.5	5.4	6.2	5.4
140°	6.2	6.2	6.2	5.4	5.4	4.5	3.6	3.6	4.5	4.5	4.5
142.5°	4.5	4.5	4.5	4.5	3.6	2.7	1.7	2.7	2.7	3.6	3.6
145°	3.6	3.6	3.6	2.7	1.7	1.7	0.9	1.7	1.7	2.7	2.7
147.5°	2.7	2.7	2.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	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

(END OF REPORT)