

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: P266381

Luminaire Tested: **UTLD-AF24-50-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4597.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G1

Input Watts (W): 54
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

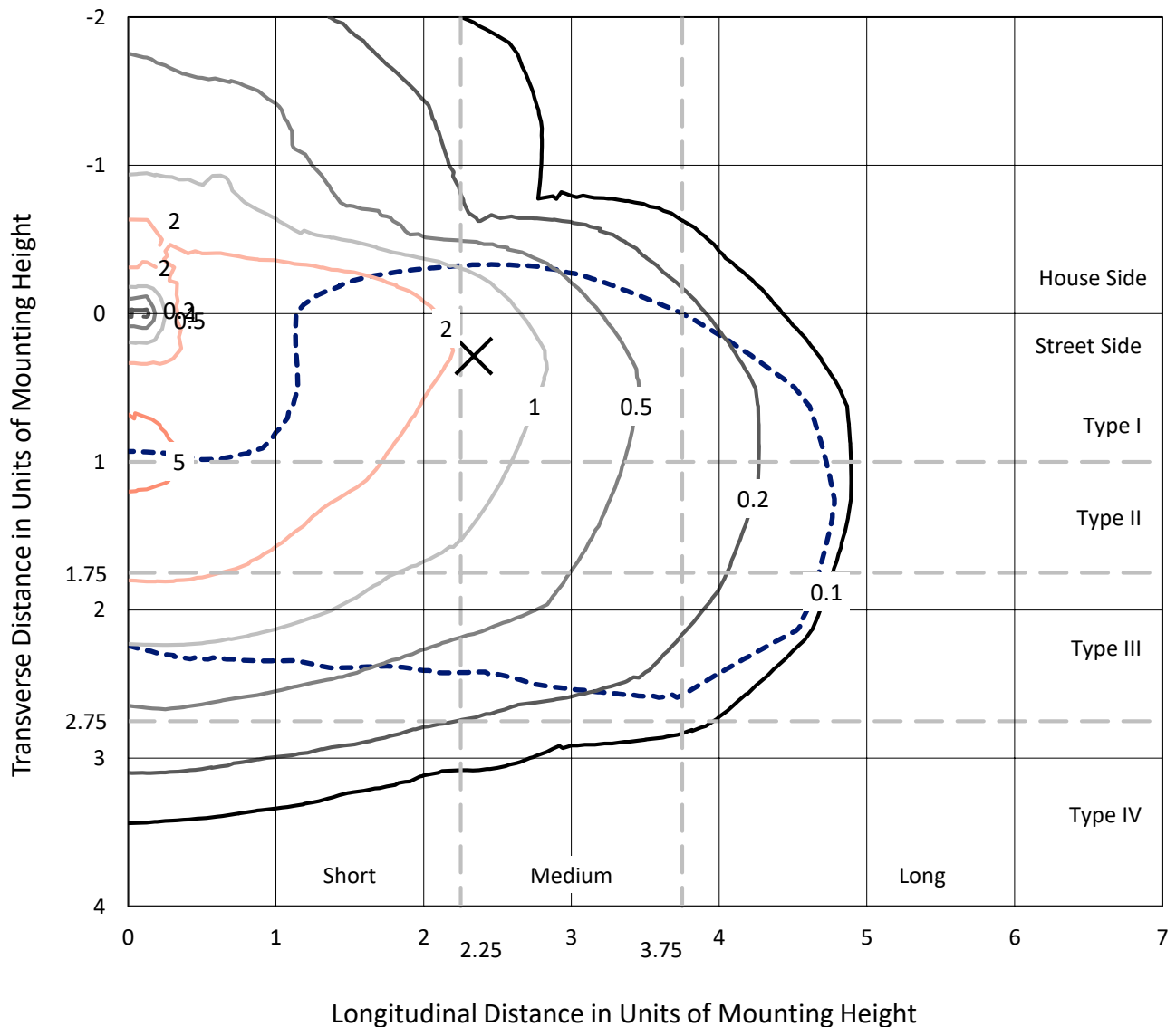


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

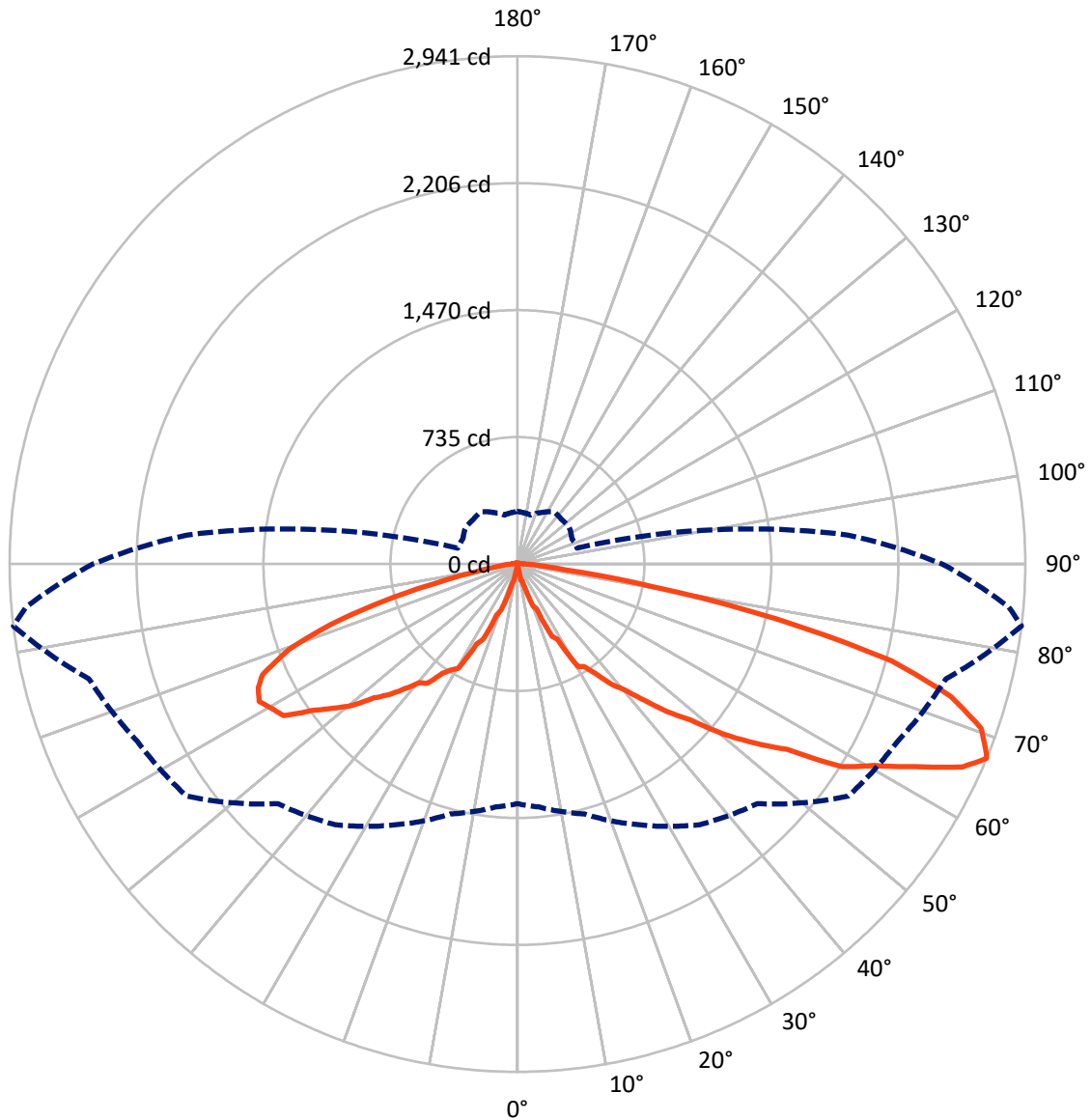


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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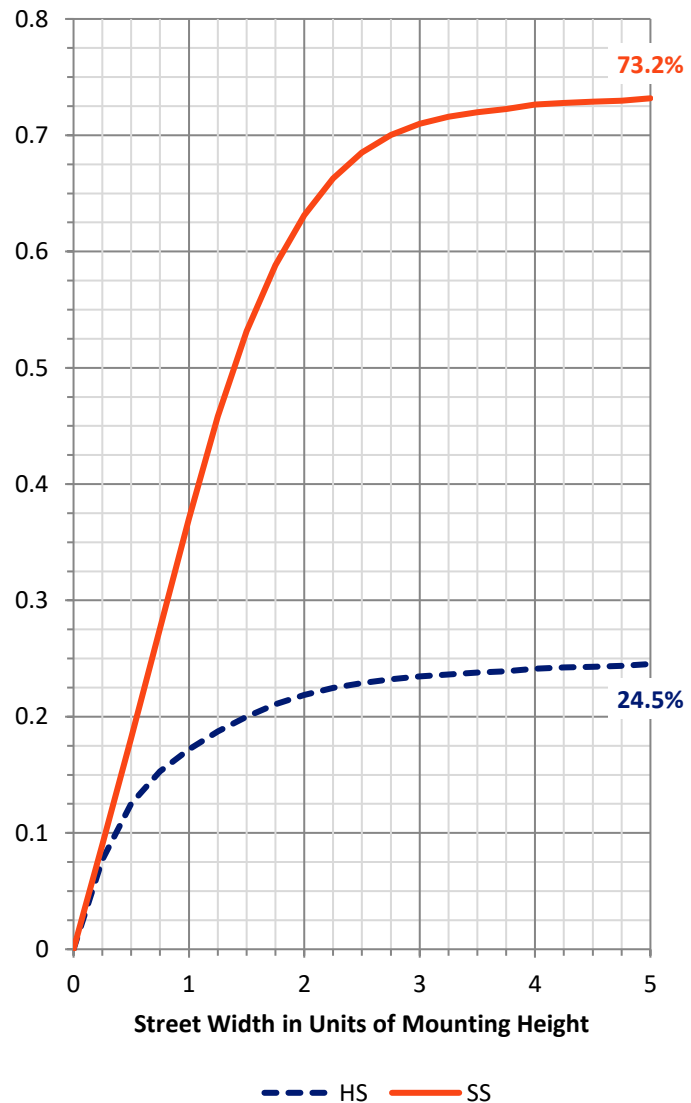
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.5	30.5	1184.0
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	3387.5	25.7	3413.2
	% Fixture	73.7	0.6	74.2
Total	Lumens	4541.1	56.2	4597.2
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	41.6	0.9
20°-30°	167.1	3.6
30°-40°	369.0	8.0
40°-50°	657.6	14.3
50°-60°	1055.3	23.0
60°-70°	1284.0	27.9
70°-80°	827.4	18.0
80°-90°	135.9	3.0
90°-100°	28.0	0.6
100°-110°	12.8	0.3
110°-120°	6.4	0.1
120°-130°	4.7	0.1
130°-140°	2.8	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4541.1	98.8
0°-180°	4597.2	100.0



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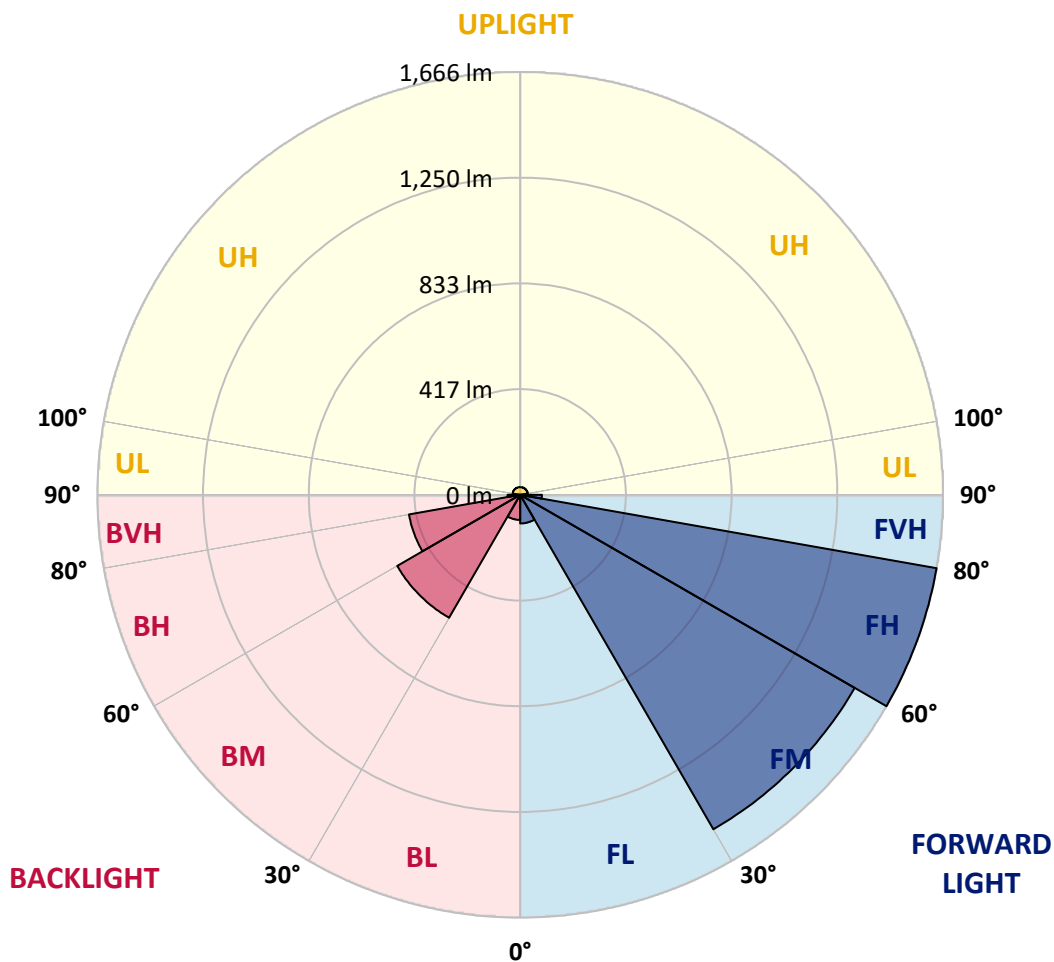
CATALOG NUMBER: UTLD-AF24-50-D-U-T3-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.9	2.5			
FM	(30°-60°)	1522.2	33.1			
FH	(60°-80°)	1666.5	36.2			G1/1800
FVH	(80°-90°)	86.0	1.9			G1/100
BL	(0°-30°)	98.9	2.2	B0/110		
BM	(30°-60°)	559.7	12.2	B1/1000		
BH	(60°-80°)	445.0	9.7	B1/500		G1/500
BVH	(80°-90°)	50.0	1.1			G1/100
UL	(90°-100°)	28.0	0.6		U2/50	
UH	(100°-180°)	30.5	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	23.0	23.0	23.0	20.8	18.1	14.6	12.9	11.3	10.7	10.7	10.7
5°	51.3	53.4	51.3	50.7	45.6	55.8	22.5	15.2	11.3	10.2	10.2
7.5°	72.7	73.8	59.6	55.2	44.5	60.8	49.0	27.6	14.1	11.3	10.7
10°	126.1	108.8	92.3	91.3	85.6	64.1	43.9	39.4	22.0	16.9	17.4
12.5°	122.2	125.7	123.3	119.5	109.9	91.7	58.6	75.5	82.9	97.5	91.7
15°	149.8	147.6	130.7	131.8	125.0	132.9	118.8	125.7	118.2	103.0	107.5
17.5°	232.0	224.1	234.8	180.2	131.8	161.7	164.5	147.1	157.2	162.2	180.2
20°	265.3	254.0	267.5	229.2	218.6	183.7	175.2	266.3	248.4	260.8	263.1
22.5°	366.7	360.5	321.7	262.5	279.4	234.3	250.1	276.6	282.2	279.4	288.4
25°	462.4	461.9	457.3	403.9	298.0	332.4	289.0	315.5	407.2	463.5	468.6
27.5°	547.4	542.9	510.9	495.7	417.4	375.1	344.7	437.0	466.4	493.3	499.5
30°	692.2	721.5	652.2	563.7	505.2	432.1	463.5	461.3	561.6	688.8	695.6
32.5°	812.7	796.4	724.4	650.1	590.2	534.0	488.3	644.4	671.9	706.8	722.6
35°	990.7	996.9	920.9	724.9	675.9	598.2	638.8	699.6	718.7	776.8	781.3
37.5°	1035.2	1084.3	1039.8	869.1	718.7	654.0	687.2	765.4	828.5	882.0	848.3
40°	1231.2	1206.5	1111.4	973.9	807.1	732.2	840.4	886.5	896.1	958.6	966.5
42.5°	1423.4	1434.1	1316.2	1141.7	922.0	851.1	945.6	933.2	1024.5	1078.7	1107.9
45°	1610.3	1615.4	1522.4	1301.6	1106.3	1049.3	1003.1	1056.0	1208.2	1221.2	1228.4
47.5°	1737.1	1737.6	1698.2	1476.3	1261.7	1133.2	1118.6	1175.5	1326.4	1349.6	1356.4
50°	1934.8	1929.6	1839.0	1592.9	1467.2	1299.4	1356.4	1334.9	1465.6	1548.9	1567.0
52.5°	2012.6	1987.1	1938.7	1762.5	1652.1	1485.8	1459.9	1498.8	1648.1	1723.6	1783.2
55°	1961.8	2005.7	1996.8	1870.0	1706.6	1649.7	1582.2	1728.0	1778.7	1894.7	2000.6
57.5°	1856.4	1932.0	1967.4	1920.0	1831.1	1702.1	1823.2	1801.3	1995.6	2215.2	2286.2
60°	1784.4	1831.1	1903.1	1960.7	1896.0	1848.6	1966.3	2081.3	2155.6	2369.5	2464.2
62.5°	1654.8	1699.4	1814.8	1898.2	1861.6	1877.3	2125.1	2185.3	2404.6	2583.0	2712.1
65°	1501.1	1542.7	1677.9	1765.2	1852.6	1914.5	2226.0	2342.5	2497.9	2832.5	2850.6
67°	1387.8	1412.0	1498.3	1666.0	1841.9	1962.3	2340.9	2428.7	2568.4	2940.7	2855.6
67.5°	1350.2	1373.8	1444.1	1618.1	1835.6	1969.7	2373.5	2454.1	2578.6	2929.5	2854.5
70°	1039.2	1123.2	1124.8	1291.0	1639.0	1915.5	2431.5	2541.3	2639.9	2848.3	2756.0
72.5°	622.3	622.3	651.1	814.5	1162.0	1713.3	2431.5	2510.9	2596.0	2624.2	2468.7
75°	301.3	287.3	326.2	390.9	585.2	1155.8	2191.5	2301.5	2312.1	2235.5	2002.3
77.5°	248.4	215.8	205.1	200.5	313.7	432.5	1464.4	1796.8	1797.2	1533.8	1342.2
80°	155.4	157.2	161.7	139.1	179.8	223.6	584.1	1094.3	994.8	796.9	671.5
82.5°	109.9	113.7	115.4	103.0	125.7	104.7	194.4	461.9	402.1	277.7	235.4
85°	77.2	74.9	83.9	69.9	75.5	62.0	107.0	198.9	226.5	137.4	130.2
87.5°	46.3	46.3	56.4	47.3	51.8	44.5	64.8	97.5	112.6	77.8	72.7
90°	27.6	25.3	26.5	26.9	29.3	25.3	34.9	46.7	49.0	39.4	36.0
92.5°	20.8	20.8	22.5	21.4	26.5	23.0	30.5	36.7	44.5	33.7	31.5
95°	13.6	15.2	16.9	17.4	20.3	17.4	25.3	29.9	33.2	26.0	24.9
97.5°	12.3	13.6	14.6	14.6	16.9	14.1	20.8	26.5	26.5	20.3	18.5
100°	11.9	12.3	12.9	12.9	14.1	11.3	16.3	23.0	23.0	16.9	15.8
102.5°	10.7	11.3	10.7	10.2	11.9	9.1	13.6	20.3	16.3	12.9	13.6
105°	10.7	10.7	9.6	8.4	9.6	7.4	11.9	14.6	11.3	10.7	11.3
107.5°	10.2	10.2	7.8	7.4	7.8	6.2	9.6	10.2	9.1	10.2	10.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	9.6	9.1	7.4	6.2	6.2	5.6	7.4	7.4	7.4	9.6	10.7
112.5°	8.4	7.8	6.2	5.1	5.1	4.5	5.1	5.6	6.7	9.1	10.2
115°	7.8	7.4	5.6	4.5	4.0	4.0	4.5	4.5	6.2	9.1	10.2
117.5°	7.8	7.4	5.1	4.5	3.4	3.4	4.0	4.5	6.2	9.1	10.2
120°	7.4	7.4	5.1	4.0	3.4	2.9	3.4	4.0	6.2	9.6	10.2
122.5°	7.4	6.7	5.1	4.0	2.9	2.9	2.9	3.4	5.6	9.1	9.6
125°	6.7	6.7	4.5	3.4	2.9	2.2	2.9	3.4	6.2	9.1	9.6
127.5°	6.7	6.2	4.5	3.4	2.2	2.2	2.9	2.9	5.6	8.4	9.1
130°	6.7	6.2	4.5	2.9	2.2	2.2	2.2	2.9	5.6	7.8	8.4
132.5°	5.6	5.6	4.0	2.9	2.2	1.6	2.2	2.2	4.5	6.7	7.4
135°	5.6	5.1	4.0	2.9	2.2	1.6	1.6	2.2	4.5	6.2	6.2
137.5°	5.1	4.5	4.0	2.9	1.6	1.6	1.1	1.6	4.0	5.1	5.6
140°	4.5	4.5	3.4	2.9	1.6	1.1	1.1	1.6	2.9	4.0	4.5
142.5°	4.5	4.5	4.0	2.9	1.6	1.1	1.1	1.1	2.2	3.4	3.4
145°	4.0	4.0	3.4	2.2	1.1	0.5	0.5	1.1	1.6	2.2	2.9
147.5°	4.0	4.0	3.4	2.2	1.1	0.5	0.5	1.1	1.6	2.2	2.2
150°	3.4	3.4	2.9	1.6	0.5	0.0	0.0	0.5	1.1	1.6	1.6
152.5°	2.2	2.2	1.6	1.1	0.0	0.0	0.0	0.5	1.1	1.1	1.1
155°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.2	10.2	10.2	10.2	10.2
5°	9.6	9.6	10.2	10.2	10.2	10.2	10.2	10.7	11.3	11.3	11.9
7.5°	10.7	10.7	10.2	10.2	10.7	11.9	19.1	40.6	76.5	71.0	70.3
10°	16.9	16.9	15.2	14.1	15.2	55.2	86.7	82.3	69.3	67.6	65.3
12.5°	107.0	99.7	80.6	50.7	73.8	69.9	81.0	95.2	124.0	130.2	125.7
15°	107.5	112.1	121.1	131.2	166.1	73.8	143.1	175.2	186.9	186.9	190.9
17.5°	186.9	201.6	154.9	139.6	165.6	202.7	160.0	178.0	176.2	176.8	171.8
20°	304.2	274.9	303.0	272.0	185.9	227.0	199.5	190.9	257.5	306.4	306.4
22.5°	301.3	319.3	315.5	312.6	327.3	201.6	254.6	276.6	286.6	273.8	293.4
25°	503.1	483.8	457.3	312.0	313.7	280.5	274.9	258.0	280.5	302.5	298.0
27.5°	526.0	530.5	480.5	464.7	328.9	315.5	259.2	300.3	327.3	328.9	326.2
30°	718.1	727.2	567.2	428.0	369.6	287.7	303.0	289.6	302.5	317.7	326.2
32.5°	759.8	746.3	626.3	482.1	362.1	304.7	278.8	289.6	338.5	338.5	335.6
35°	809.5	799.2	645.5	458.0	394.9	285.0	258.0	288.4	302.5	327.3	328.9
37.5°	909.1	903.4	708.6	456.8	351.4	269.2	283.9	291.2	295.7	301.3	296.4
40°	975.0	931.6	727.6	477.1	340.2	312.0	295.7	274.3	278.3	264.1	258.0
42.5°	1098.8	1026.3	746.3	463.5	331.7	344.1	274.9	270.8	261.3	246.8	246.8
45°	1225.1	1132.1	771.0	435.9	319.9	334.0	283.3	277.0	268.7	266.3	261.3
47.5°	1353.4	1228.4	767.2	453.5	358.9	312.6	354.8	298.0	256.2	278.3	276.6
50°	1564.7	1385.0	770.6	419.1	357.6	307.0	355.4	282.2	274.3	291.2	292.8
52.5°	1737.1	1491.5	817.3	399.3	346.3	355.4	336.2	341.9	323.3	318.2	324.5
55°	1943.3	1627.8	786.8	375.8	337.5	335.2	396.0	344.1	327.3	343.6	345.3
57.5°	2201.7	1817.6	793.7	337.5	340.2	322.8	387.4	385.3	375.1	367.2	364.4
60°	2351.6	1878.4	730.5	360.0	329.5	356.0	411.2	399.3	345.8	401.6	410.6
62.5°	2469.4	1973.0	575.6	356.0	366.1	339.6	377.4	389.8	364.4	406.7	411.8
65°	2497.9	1967.9	441.0	365.5	362.1	377.4	446.6	382.9	318.2	324.5	327.3
67°	2458.7	1923.5	357.6	348.2	367.2	363.3	369.6	328.9	294.0	300.3	304.7
67.5°	2436.1	1887.5	339.1	346.9	379.7	362.7	362.1	316.6	287.3	295.2	296.8
70°	2226.4	1690.9	283.9	342.4	376.2	329.5	338.5	278.8	253.4	256.2	257.5
72.5°	1906.7	1356.9	270.8	340.7	369.6	274.9	260.1	228.1	215.8	211.8	206.2
75°	1463.2	935.0	267.5	307.5	303.5	207.9	208.3	189.8	190.9	182.4	179.1
77.5°	881.4	523.8	227.5	260.1	227.5	158.8	172.4	168.4	173.0	163.9	158.3
80°	422.5	255.7	179.8	191.5	160.5	124.4	147.1	153.3	154.2	141.4	135.1
82.5°	180.7	132.4	121.7	120.0	114.4	96.3	118.8	125.0	126.1	118.2	94.6
85°	106.4	90.1	83.9	80.6	79.4	59.6	85.1	100.8	100.8	83.4	72.1
87.5°	66.5	65.8	59.2	59.2	62.0	42.2	58.6	69.3	65.3	49.5	39.4
90°	31.5	33.7	35.6	36.0	42.2	23.6	37.6	40.0	37.6	26.9	19.1
92.5°	25.3	28.7	31.0	32.1	38.3	20.3	33.7	36.0	34.3	26.9	19.1
95°	20.8	26.0	31.0	30.5	32.1	15.8	29.9	32.7	31.5	23.6	16.3
97.5°	16.9	20.8	25.3	25.3	29.3	13.6	27.6	31.0	30.5	21.4	15.8
100°	15.2	18.5	22.5	22.0	26.0	10.7	24.9	26.9	26.5	17.4	14.1
102.5°	13.6	15.2	17.4	17.4	19.1	9.1	18.5	20.8	19.8	14.6	14.1
105°	12.3	12.9	12.3	11.9	12.3	7.8	11.9	13.6	11.9	11.3	11.3
107.5°	11.9	11.9	10.2	9.6	9.1	6.7	8.4	9.1	7.8	10.2	11.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.9	11.3	9.1	8.4	7.4	6.2	6.7	6.7	6.7	10.2	10.7
112.5°	11.3	11.3	8.4	7.4	6.7	5.6	5.6	5.1	6.2	10.2	11.3
115°	11.3	10.7	7.8	6.7	5.6	5.1	4.5	4.5	5.6	10.2	11.3
117.5°	11.3	10.7	7.8	6.2	5.6	4.5	4.0	4.0	5.6	10.2	11.3
120°	11.3	11.3	7.8	5.6	5.1	4.5	4.0	4.0	5.6	9.6	10.7
122.5°	10.7	10.7	7.4	5.6	4.5	4.0	3.4	3.4	5.6	9.6	10.2
125°	10.2	10.2	7.4	5.1	4.0	3.4	3.4	3.4	5.6	9.1	10.2
127.5°	9.6	9.6	6.7	4.5	3.4	3.4	2.9	2.9	5.6	9.1	9.6
130°	9.1	9.1	6.2	4.0	3.4	2.9	2.2	2.9	5.6	8.4	9.1
132.5°	7.8	7.8	5.6	3.4	2.9	2.2	2.2	2.2	5.1	7.8	8.4
135°	6.7	6.7	5.1	3.4	2.9	2.2	1.6	2.2	4.5	6.7	7.4
137.5°	6.2	6.2	4.5	2.9	2.2	1.6	1.6	2.2	4.5	6.2	6.7
140°	4.5	4.5	3.4	2.2	1.6	1.6	1.1	1.6	4.0	5.1	5.6
142.5°	3.4	3.4	2.9	2.2	1.6	1.1	1.1	1.6	3.4	4.5	4.5
145°	2.9	2.9	2.2	1.6	1.6	1.1	0.5	1.1	2.9	4.0	4.0
147.5°	2.2	2.2	2.2	1.6	1.1	0.5	0.5	0.5	1.6	2.9	2.9
150°	1.6	1.6	1.6	1.6	1.1	0.0	0.0	0.0	1.1	1.6	1.6
152.5°	1.1	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5
155°	0.5	1.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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	0.5	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

(END OF REPORT)