

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: P266519

Luminaire Tested: **UTLD-AF24-90-D-U-T3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266519
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-AF24-90-D-U-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 6867.4 lumens
Efficiency: N/A
Efficacy: 73.1 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): 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



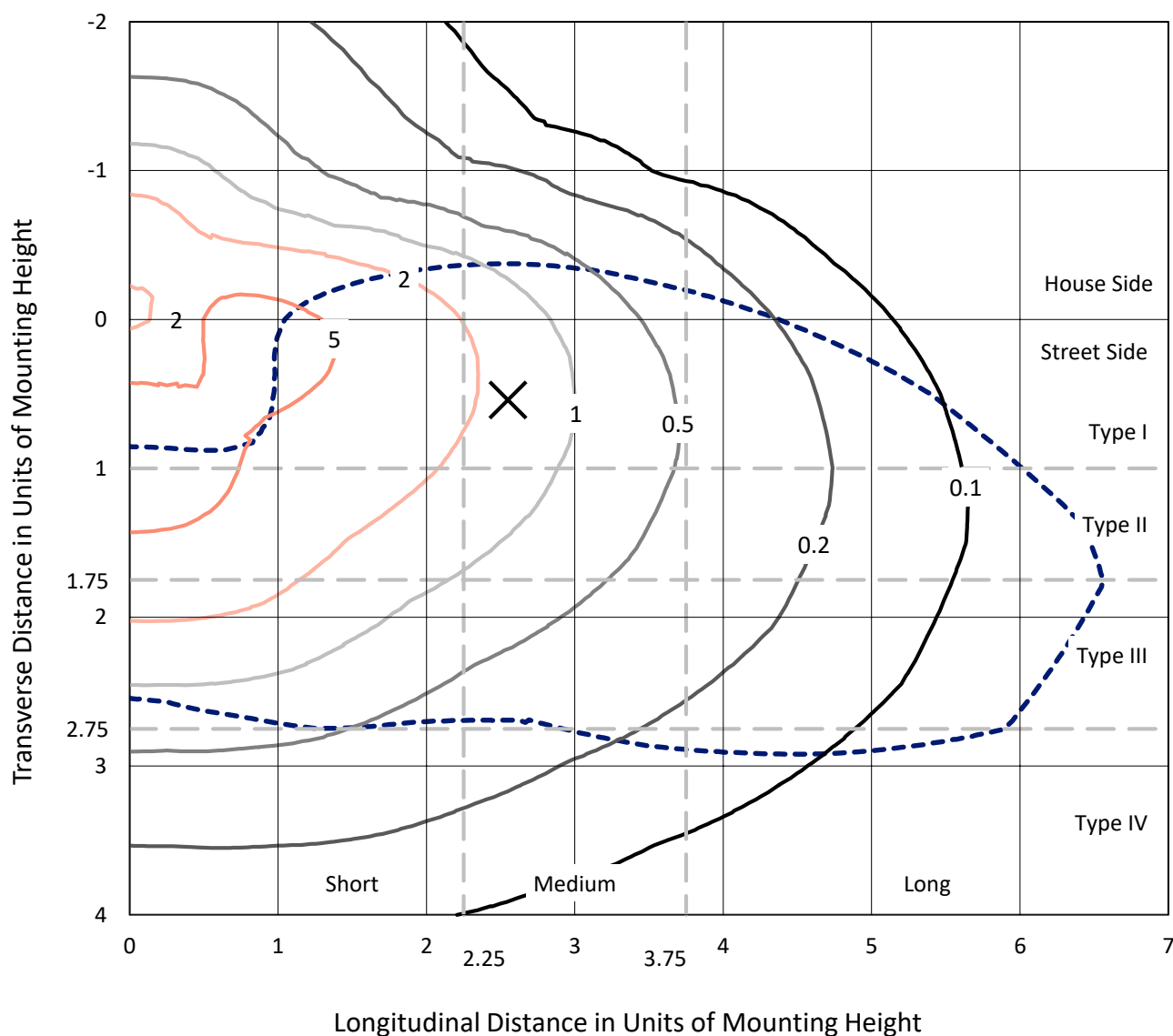
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

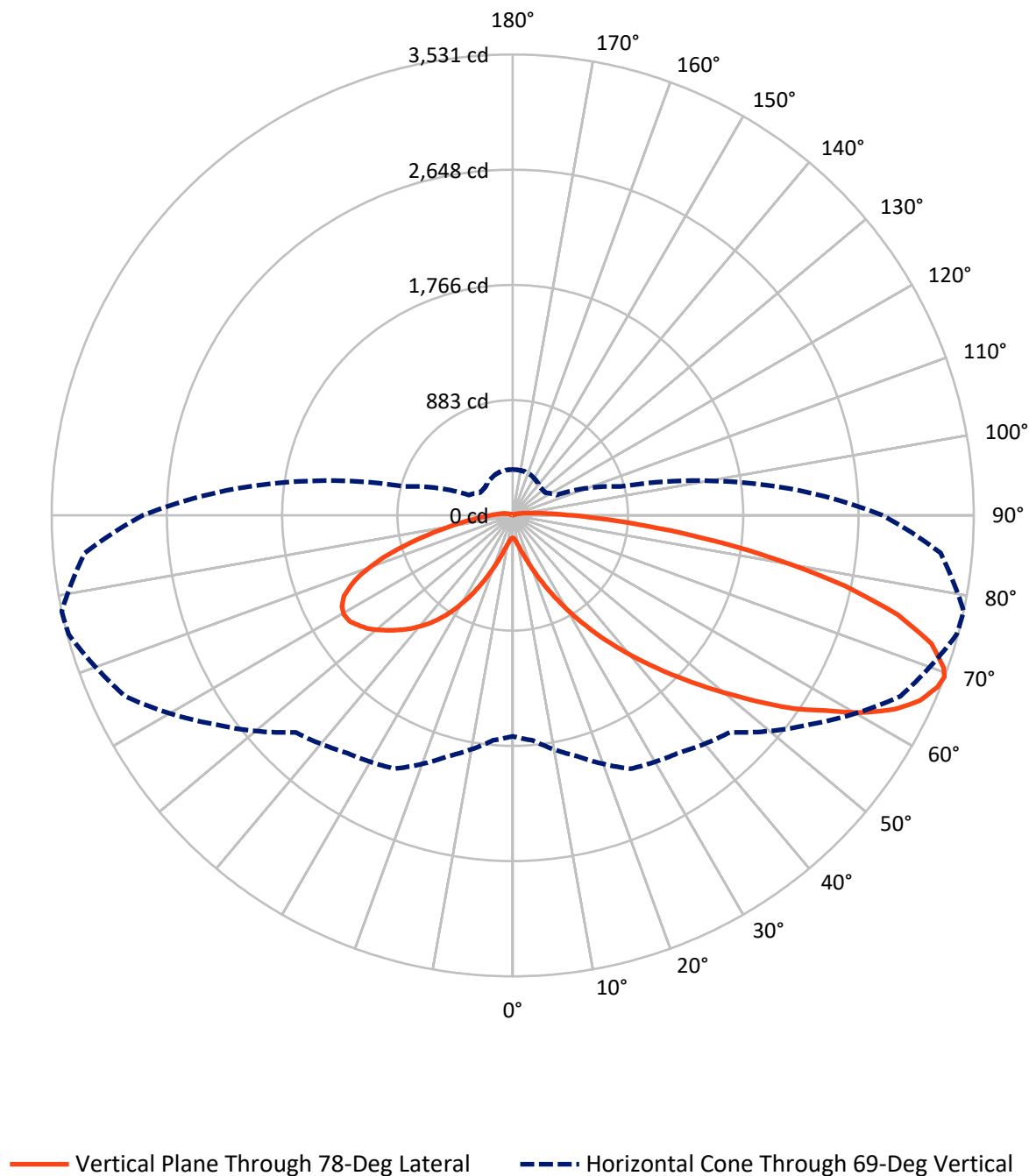


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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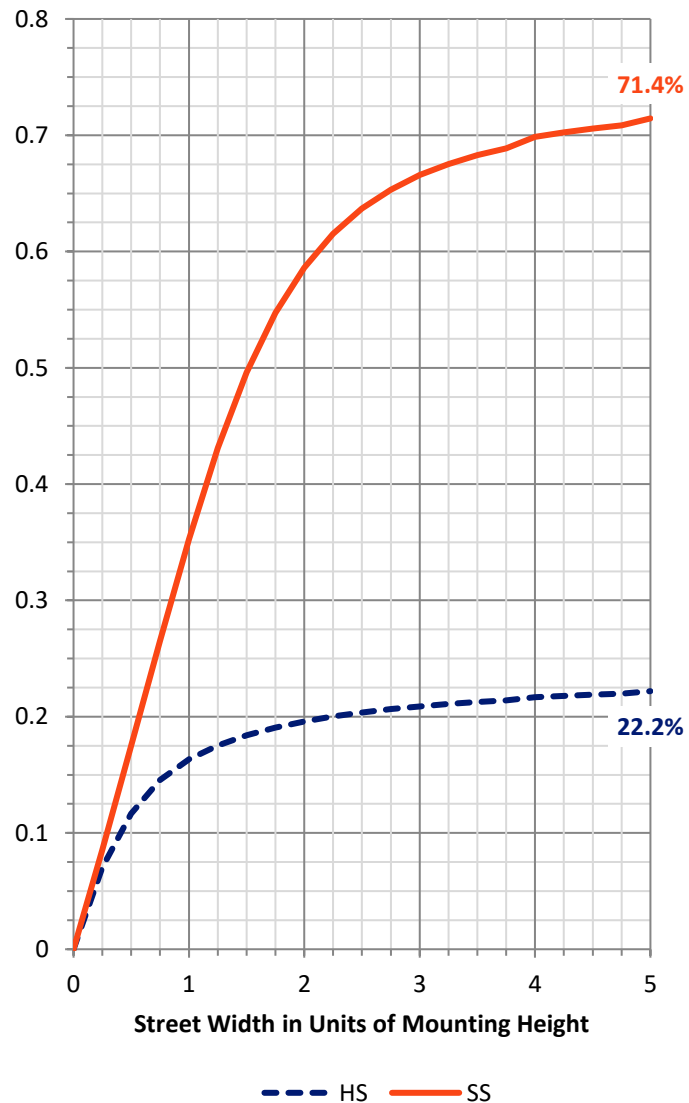
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.3	119.9	1715.2
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5020.6	131.7	5152.3
	% Fixture	73.1	1.9	75.0
Total	Lumens	6615.9	251.5	6867.4
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.3
10°-20°	88.2	1.3
20°-30°	251.6	3.7
30°-40°	534.8	7.8
40°-50°	927.1	13.5
50°-60°	1387.9	20.2
60°-70°	1652.0	24.1
70°-80°	1260.1	18.3
80°-90°	495.1	7.2
90°-100°	145.3	2.1
100°-110°	58.8	0.9
110°-120°	26.5	0.4
120°-130°	12.8	0.2
130°-140°	6.0	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6615.9	96.3
0°-180°	6867.4	100.0

Coefficient of Utilization



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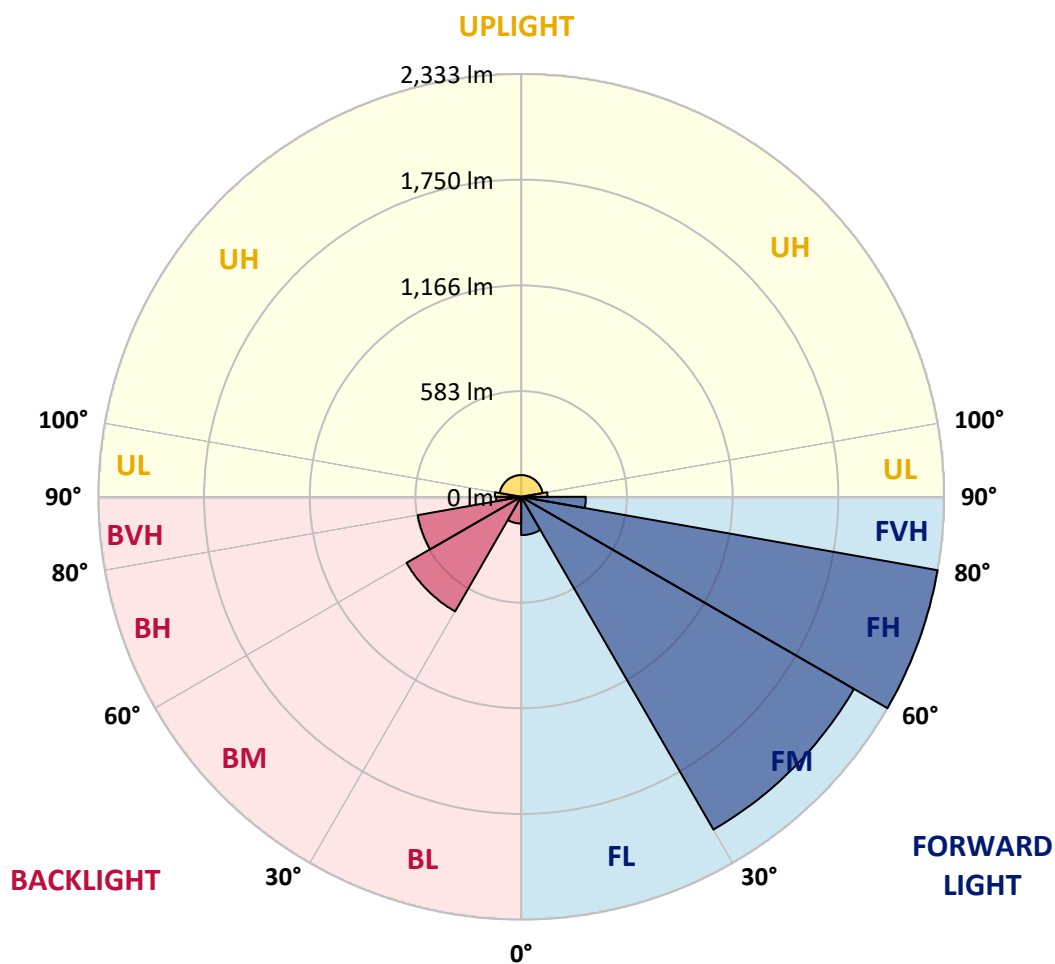
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.3	3.1			
FM	(30°-60°)	2119.8	30.9			
FH	(60°-80°)	2332.7	34.0			G2/5000
FVH	(80°-90°)	356.7	5.2			G3/500
BL	(0°-30°)	147.5	2.1	B1/500		
BM	(30°-60°)	730.0	10.6	B1/1000		
BH	(60°-80°)	579.5	8.4	B2/1000		G2/1000
BVH	(80°-90°)	138.3	2.0			G2/225
UL	(90°-100°)	145.3	2.1		U3/500	
UH	(100°-180°)	119.9	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°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	186.4	186.4	185.5	185.5	184.7	183.0	180.3	178.7	177.8	177.8	176.0
5°	207.1	207.1	205.5	205.5	202.8	200.3	196.8	192.4	189.9	189.1	186.4
7.5°	234.9	234.1	233.2	230.7	228.0	222.8	218.5	214.2	208.9	208.0	204.6
10°	270.5	268.8	268.8	265.3	260.1	254.0	246.2	240.1	234.9	234.1	230.7
12.5°	317.3	315.6	313.0	306.1	298.2	288.7	281.8	275.7	270.5	268.8	264.5
15°	372.7	372.0	365.0	356.4	342.4	330.3	322.5	317.3	315.6	313.9	309.6
17.5°	442.1	437.8	430.8	413.6	395.3	377.9	371.1	372.0	372.7	372.7	369.4
20°	519.3	517.7	507.3	483.7	458.7	436.9	430.8	436.0	443.0	443.0	442.1
22.5°	620.8	615.6	596.6	563.5	528.1	506.4	497.7	508.9	528.1	528.8	532.3
25°	731.8	730.1	699.7	651.1	606.0	580.0	573.9	587.9	622.5	625.1	634.7
27.5°	854.8	850.5	822.8	754.2	695.4	657.2	654.5	685.0	722.1	735.3	749.0
30°	1003.9	999.6	946.8	867.9	795.9	745.7	746.5	785.5	842.7	854.0	874.0
32.5°	1158.4	1154.1	1099.3	1000.5	905.1	842.7	844.4	902.5	968.5	982.2	1003.9
35°	1336.0	1334.3	1262.4	1140.9	1020.5	945.0	958.0	1019.5	1101.1	1123.6	1142.7
37.5°	1528.6	1509.4	1439.3	1298.0	1147.0	1064.8	1074.3	1156.6	1252.9	1263.2	1282.3
40°	1722.0	1717.5	1633.5	1474.7	1292.8	1190.4	1203.4	1296.2	1400.2	1419.3	1429.7
42.5°	1925.5	1923.9	1825.0	1651.7	1443.5	1329.1	1341.3	1447.0	1563.2	1581.3	1586.5
45°	2142.4	2130.2	2032.2	1838.0	1617.8	1476.5	1498.2	1607.3	1744.4	1759.2	1761.8
47.5°	2328.8	2313.1	2239.5	2037.4	1787.7	1636.1	1652.5	1788.6	1932.6	1948.2	1942.0
50°	2497.0	2490.0	2415.5	2236.9	1974.1	1797.2	1820.8	1968.9	2131.0	2150.2	2144.1
52.5°	2607.2	2602.7	2572.3	2399.8	2138.1	1962.0	1995.0	2156.2	2347.8	2375.6	2343.5
55°	2661.7	2661.7	2667.7	2542.9	2288.1	2118.1	2169.2	2364.2	2573.3	2612.4	2567.1
57.5°	2657.4	2652.2	2702.5	2640.8	2403.3	2243.7	2343.5	2585.4	2804.8	2820.4	2797.0
60°	2558.6	2575.0	2663.5	2674.8	2485.7	2355.6	2510.0	2790.0	3025.9	3067.4	2996.3
62.5°	2400.7	2431.9	2561.1	2635.6	2508.2	2435.5	2653.1	2969.4	3231.4	3273.9	3172.4
65°	2183.2	2215.2	2373.9	2517.8	2463.2	2462.3	2751.0	3133.4	3395.1	3425.5	3289.5
67.5°	1909.9	1920.3	2103.3	2310.6	2335.8	2421.6	2797.9	3246.0	3514.0	3508.8	3331.1
69°	1692.3	1729.6	1909.9	2141.5	2219.5	2350.4	2789.1	3277.2	3520.8	3531.2	3289.5
70°	1582.3	1589.2	1767.0	2002.0	2138.1	2286.2	2759.7	3270.3	3509.6	3501.9	3241.8
72.5°	1228.5	1242.4	1405.4	1661.1	1849.3	2073.0	2614.8	3153.3	3373.6	3353.6	2996.3
75°	876.6	899.9	1049.8	1290.1	1512.9	1794.8	2347.8	2901.9	3093.5	3047.5	2643.5
77.5°	598.2	622.5	734.4	954.5	1176.5	1483.5	1980.3	2521.3	2653.1	2605.4	2160.6
80°	384.0	400.6	488.9	663.3	874.8	1139.2	1577.1	2020.1	2137.2	2052.2	1651.7
82.5°	254.0	264.5	325.9	449.2	612.1	840.2	1169.7	1509.4	1561.4	1507.7	1157.5
85°	171.7	178.7	222.8	305.2	429.2	591.4	828.0	1049.8	1092.3	1017.9	771.6
87.5°	117.9	124.9	160.3	213.3	298.2	412.7	555.0	705.8	692.8	658.1	503.7
90°	84.1	90.2	115.3	151.8	210.7	287.0	370.2	446.5	444.8	411.0	321.7
92.5°	60.6	65.8	87.6	113.5	156.0	201.1	249.6	280.9	280.9	267.1	213.3
95°	46.0	49.4	66.7	86.6	117.0	149.1	174.4	190.7	187.2	176.8	154.2
97.5°	36.4	39.0	52.9	70.2	92.7	115.3	130.1	131.8	129.1	125.8	114.4
100°	30.4	32.1	44.2	59.0	77.2	93.7	100.6	97.9	94.5	93.7	87.6
102.5°	26.1	26.9	38.2	51.2	65.8	78.1	80.7	76.3	72.0	71.1	68.5
105°	23.4	23.4	33.0	44.2	56.4	65.0	66.7	61.5	55.4	53.8	52.9
107.5°	20.8	21.6	28.7	39.0	48.6	55.4	55.4	49.4	42.5	40.8	40.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	19.0	19.0	25.2	34.7	42.5	47.7	46.8	39.9	33.0	31.3	32.1
112.5°	17.3	17.3	22.5	30.4	37.3	40.8	39.0	32.1	26.1	25.2	25.2
115°	16.4	16.4	19.9	26.9	32.1	34.7	33.0	26.1	20.8	19.9	20.8
117.5°	14.7	15.6	18.2	23.4	27.8	30.4	27.8	21.6	17.3	16.4	18.2
120°	13.8	14.7	16.4	19.9	24.3	26.1	22.5	18.2	14.7	14.7	15.6
122.5°	13.0	13.8	14.7	18.2	20.8	21.6	19.0	14.7	12.1	13.0	13.8
125°	13.0	13.0	13.8	15.6	18.2	18.2	15.6	12.1	11.3	11.3	12.1
127.5°	12.1	12.1	12.1	13.8	15.6	15.6	13.0	10.4	9.5	10.4	11.3
130°	11.3	11.3	11.3	12.1	13.0	13.0	11.3	8.7	8.7	8.7	9.5
132.5°	10.4	10.4	10.4	10.4	11.3	10.4	8.7	6.9	7.8	7.8	8.7
135°	9.5	9.5	9.5	9.5	8.7	7.8	6.1	6.1	6.9	6.9	7.8
137.5°	8.7	8.7	8.7	7.8	6.9	6.1	5.2	5.2	6.1	6.1	6.9
140°	7.8	7.8	7.8	6.1	5.2	4.3	3.5	3.5	5.2	5.2	5.2
142.5°	6.9	6.9	6.1	5.2	4.3	2.6	1.7	2.6	3.5	3.5	4.3
145°	5.2	5.2	5.2	4.3	2.6	1.7	0.9	1.7	2.6	2.6	3.5
147.5°	4.3	4.3	4.3	3.5	1.7	0.9	0.9	0.9	1.7	1.7	2.6
150°	3.5	3.5	2.6	2.6	0.9	0.0	0.0	0.9	0.9	1.7	1.7
152.5°	2.6	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°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	175.1	174.4	173.5	171.7	170.8	169.2	167.4	165.6	165.6	165.6	164.7
5°	185.5	183.9	181.2	177.8	175.1	172.6	169.9	167.4	166.5	165.6	165.6
7.5°	201.9	200.3	195.1	190.7	185.5	182.0	177.8	176.0	174.4	173.5	173.5
10°	227.1	223.7	216.8	209.8	203.7	196.8	192.4	189.9	187.2	186.4	187.2
12.5°	261.0	254.8	246.2	235.9	225.5	216.8	211.6	208.9	208.0	207.1	207.1
15°	307.8	303.4	286.1	268.0	253.1	241.0	234.1	231.6	236.8	238.4	238.4
17.5°	368.5	360.7	339.9	314.8	284.4	266.2	261.0	265.3	269.6	274.8	275.7
20°	443.9	430.8	404.0	363.3	322.5	296.5	292.2	297.3	307.8	314.8	315.6
22.5°	526.2	517.7	476.0	415.2	360.7	330.3	320.8	328.6	345.0	354.7	355.5
25°	632.0	618.2	555.7	472.5	400.6	358.1	346.7	358.1	377.9	392.7	393.5
27.5°	747.4	725.7	644.2	529.7	434.4	381.5	367.5	382.4	409.2	426.5	428.3
30°	867.0	836.6	731.8	583.4	464.8	397.1	382.4	400.6	430.8	450.8	453.5
32.5°	992.6	956.2	812.3	630.3	484.6	405.8	390.1	411.9	443.9	464.8	467.3
35°	1121.1	1075.1	887.9	664.1	494.2	407.6	391.0	415.2	446.5	468.1	470.8
37.5°	1256.3	1188.6	953.7	687.6	496.0	402.4	387.6	411.9	441.2	461.2	462.9
40°	1387.3	1299.7	1009.2	698.0	489.8	394.4	378.8	404.0	429.2	443.9	445.6
42.5°	1531.2	1419.3	1057.8	698.0	477.7	385.0	369.4	392.7	412.7	423.1	424.0
45°	1677.7	1538.9	1095.9	689.3	462.1	372.7	359.9	380.6	396.2	400.6	400.6
47.5°	1846.7	1664.6	1131.4	674.5	444.8	360.7	350.2	369.4	380.6	380.6	381.5
50°	2016.7	1796.4	1158.4	653.7	424.8	350.2	342.4	360.7	369.4	364.2	364.2
52.5°	2200.5	1931.6	1183.4	626.8	406.7	340.7	337.3	356.4	362.3	354.7	352.9
55°	2386.0	2059.2	1188.6	593.1	385.8	332.9	334.7	352.9	359.0	350.2	349.4
57.5°	2584.6	2190.1	1187.7	554.1	367.5	326.9	332.1	352.0	358.1	349.4	348.5
60°	2738.0	2293.3	1160.0	513.2	351.1	320.8	331.1	351.1	358.1	351.1	351.1
62.5°	2876.7	2353.9	1108.0	470.0	335.5	316.5	328.6	349.4	356.4	352.9	352.9
65°	2940.1	2371.3	1028.3	427.5	322.5	311.3	326.9	346.7	354.7	353.8	354.7
67.5°	2900.9	2290.6	922.5	389.2	310.4	305.2	322.5	342.4	351.1	352.9	353.8
69°	2833.3	2200.5	856.7	369.4	303.4	300.8	319.1	338.1	348.5	351.1	351.1
70°	2773.5	2123.2	801.9	357.2	298.2	298.2	317.3	335.5	345.9	348.5	349.4
72.5°	2484.0	1871.9	678.0	325.1	287.0	289.6	308.7	326.9	338.1	340.7	340.7
75°	2128.4	1535.5	552.3	298.2	274.0	280.0	298.2	315.6	325.9	328.6	327.7
77.5°	1695.0	1190.4	448.3	274.8	259.3	265.3	284.4	300.8	311.3	313.0	309.6
80°	1265.0	867.9	363.3	250.5	242.0	249.6	267.1	280.9	291.3	292.2	287.0
82.5°	876.6	626.8	295.6	227.1	222.8	228.9	244.5	256.6	266.2	263.6	261.0
85°	584.3	430.0	242.0	201.1	201.1	208.0	219.4	227.1	236.8	233.2	228.0
87.5°	385.0	296.5	198.5	176.0	177.8	183.9	192.4	195.1	203.7	201.1	195.1
90°	261.0	213.3	163.0	151.8	154.2	160.3	164.7	164.7	170.8	166.5	163.9
92.5°	185.5	163.0	136.2	131.0	133.5	138.7	139.5	136.2	141.4	138.7	135.3
95°	139.5	128.3	115.3	112.6	116.2	119.7	118.8	113.5	115.3	113.5	112.6
97.5°	108.3	104.9	97.9	96.3	99.7	102.2	100.6	94.5	95.4	93.7	91.8
100°	87.6	85.0	83.3	83.3	85.9	86.6	84.1	79.0	78.1	75.5	76.3
102.5°	69.3	69.3	70.2	72.0	73.8	73.8	70.2	65.8	64.1	61.5	61.5
105°	54.6	55.4	59.0	59.8	61.5	61.5	58.1	54.6	51.2	48.6	48.6
107.5°	42.5	44.2	47.7	50.2	52.0	51.2	48.6	45.0	40.8	38.2	38.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.9	35.6	39.0	42.5	43.4	43.4	40.8	36.4	31.3	30.4	30.4
112.5°	27.8	28.7	33.0	35.6	36.4	36.4	33.9	30.4	25.2	24.3	24.3
115°	22.5	23.4	26.9	29.5	30.4	30.4	28.7	25.2	19.9	19.9	19.9
117.5°	19.0	19.9	22.5	25.2	26.1	26.1	23.4	19.9	16.4	16.4	16.4
120°	16.4	17.3	19.0	20.8	21.6	21.6	19.9	16.4	13.8	13.8	13.8
122.5°	14.7	15.6	16.4	18.2	19.0	19.0	16.4	13.0	12.1	12.1	12.1
125°	13.0	13.8	14.7	15.6	16.4	15.6	13.8	11.3	10.4	11.3	11.3
127.5°	11.3	12.1	13.0	13.0	13.8	13.0	11.3	9.5	8.7	9.5	9.5
130°	10.4	10.4	11.3	11.3	12.1	11.3	9.5	7.8	7.8	8.7	8.7
132.5°	9.5	9.5	9.5	9.5	10.4	9.5	7.8	6.1	6.9	7.8	7.8
135°	7.8	7.8	8.7	7.8	8.7	6.9	6.1	5.2	6.1	6.9	6.9
137.5°	6.9	6.9	6.9	6.9	6.1	6.1	4.3	4.3	5.2	6.1	5.2
140°	6.1	6.1	6.1	5.2	5.2	4.3	3.5	3.5	4.3	4.3	4.3
142.5°	4.3	4.3	4.3	4.3	3.5	2.6	1.7	2.6	2.6	3.5	3.5
145°	3.5	3.5	3.5	2.6	1.7	1.7	0.9	1.7	1.7	2.6	2.6
147.5°	2.6	2.6	2.6	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)