

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: P240581

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5820.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 64
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

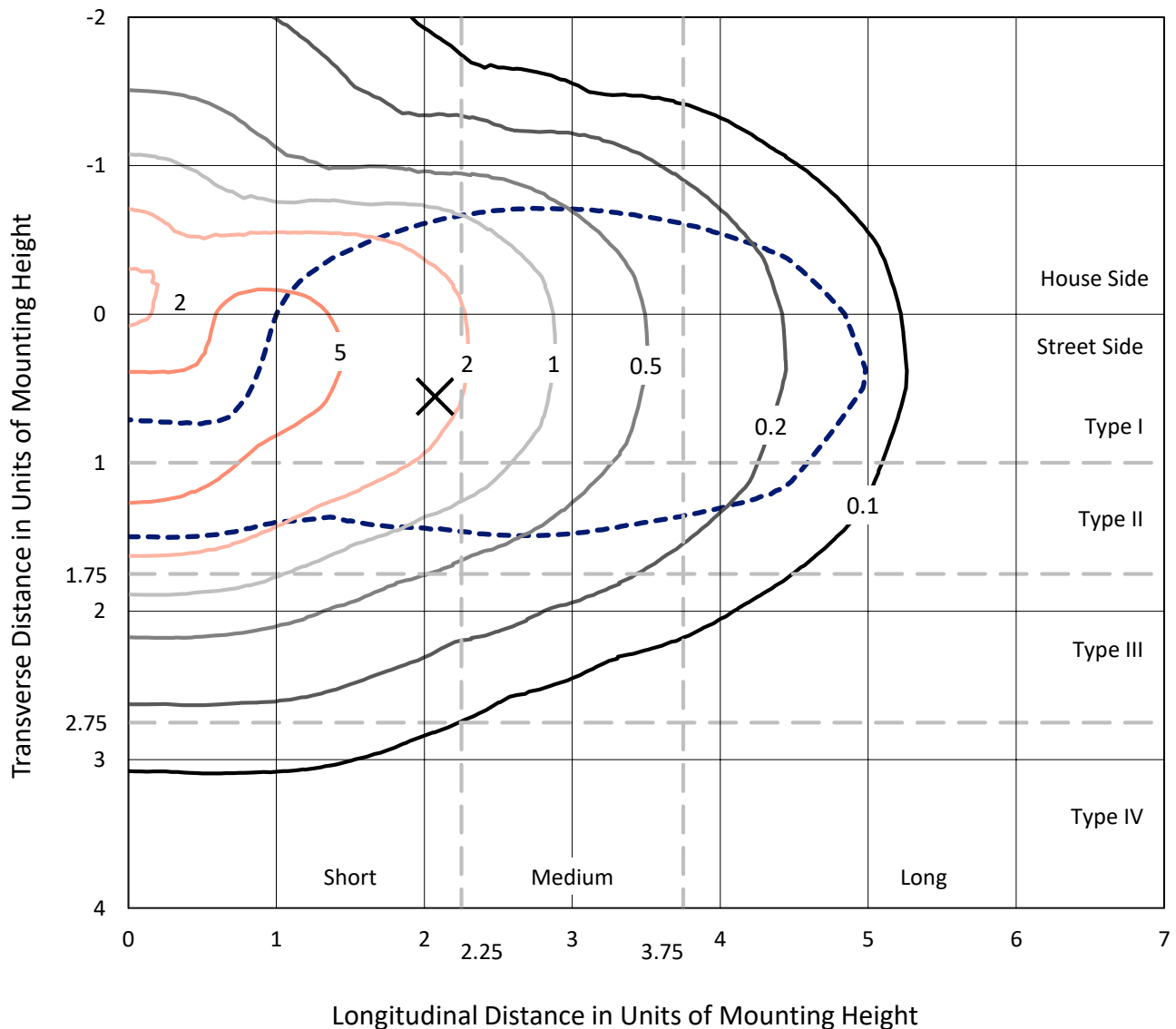


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

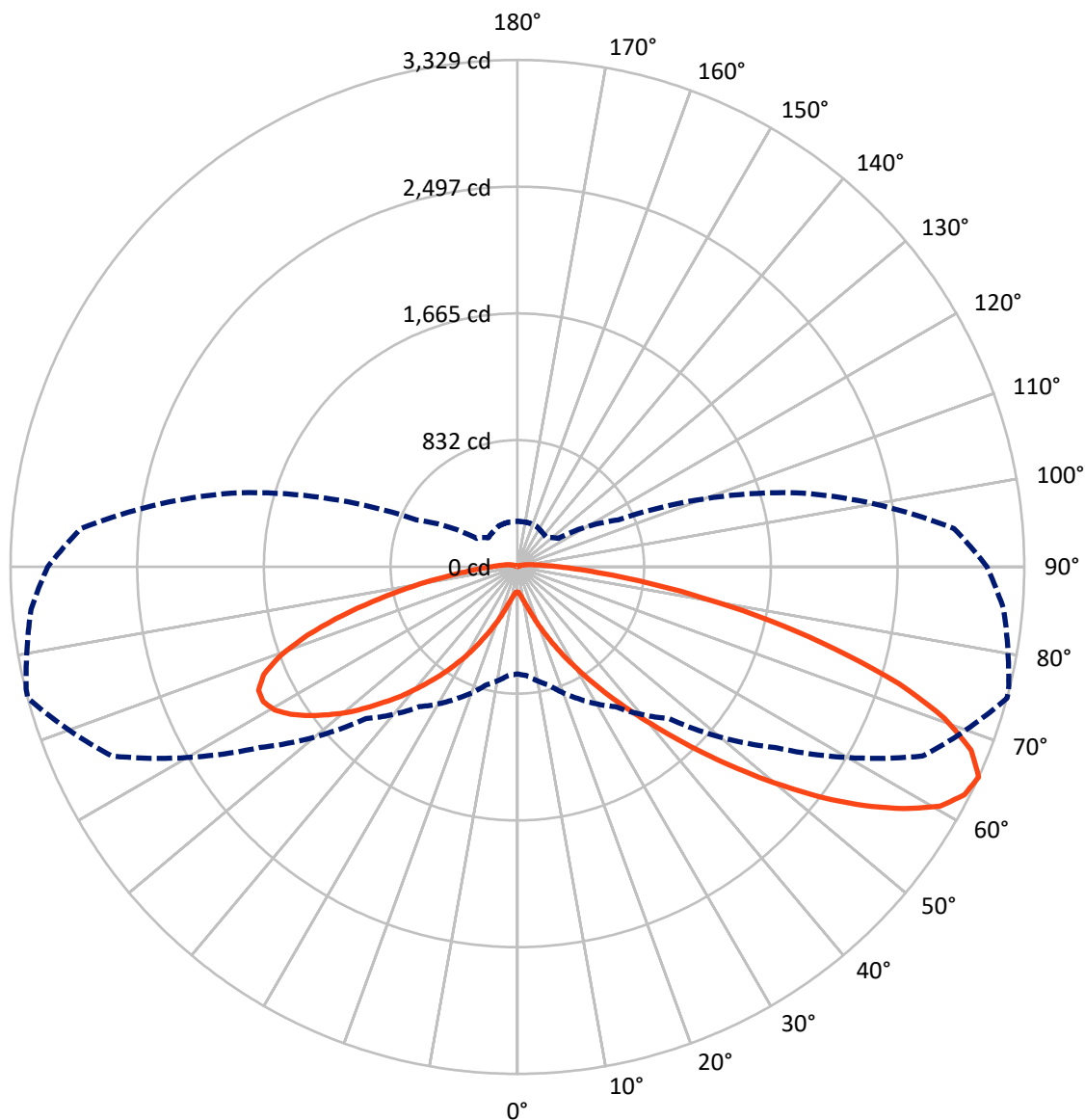


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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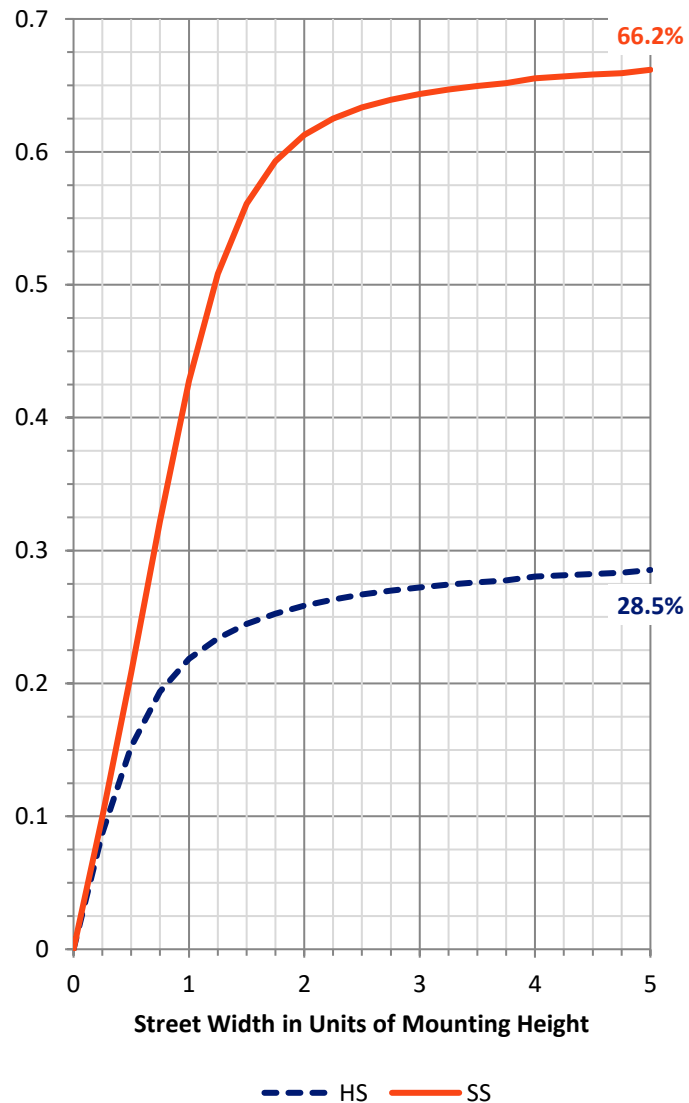
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1718.5	103.0	1821.5
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3905.9	92.7	3998.6
	% Fixture	67.1	1.6	68.7
Total	Lumens	5624.5	195.7	5820.2
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.3
10°-20°	84.2	1.4
20°-30°	245.4	4.2
30°-40°	550.5	9.5
40°-50°	979.7	16.8
50°-60°	1331.3	22.9
60°-70°	1292.9	22.2
70°-80°	814.9	14.0
80°-90°	307.3	5.3
90°-100°	104.6	1.8
100°-110°	47.4	0.8
110°-120°	22.8	0.4
120°-130°	12.0	0.2
130°-140°	6.2	0.1
140°-150°	2.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5624.5	96.6
0°-180°	5820.2	100.0

Coefficient of Utilization



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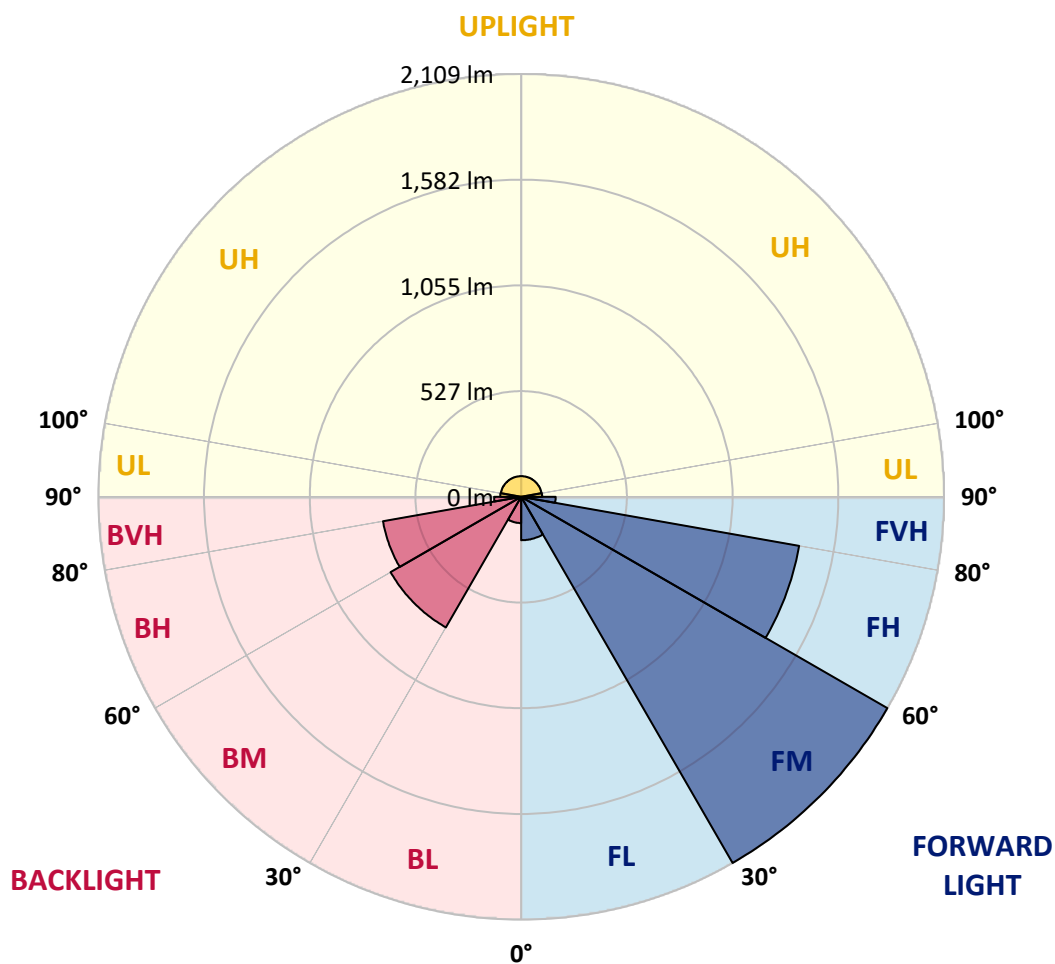
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.7	3.7			
FM	(30°-60°)	2109.3	36.2			
FH	(60°-80°)	1407.9	24.2			G1/1800
FVH	(80°-90°)	172.0	3.0			G2/225
BL	(0°-30°)	131.1	2.3	B1/500		
BM	(30°-60°)	752.3	12.9	B1/1000		
BH	(60°-80°)	699.9	12.0	B2/1000		G2/1000
BVH	(80°-90°)	135.3	2.3			G2/225
UL	(90°-100°)	104.6	1.8		U3/500	
UH	(100°-180°)	103.0	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4
2.5°	180.1	179.3	179.3	179.3	177.9	176.5	174.2	172.7	170.6	169.8	169.2
5°	199.0	199.0	198.3	197.5	196.1	192.4	188.8	185.8	182.3	181.5	178.6
7.5°	228.9	228.2	227.5	223.8	221.6	216.5	210.7	206.3	199.7	199.7	195.3
10°	268.2	266.8	264.6	260.9	252.9	246.4	239.9	231.8	225.3	224.5	218.0
12.5°	314.8	314.8	311.9	304.8	294.5	285.0	274.0	265.3	256.5	255.8	249.9
15°	379.0	379.7	370.3	359.4	344.8	330.2	316.3	308.3	298.2	300.4	292.3
17.5°	458.5	457.0	449.0	427.2	403.0	384.1	368.1	359.4	351.4	352.1	346.3
20°	558.4	556.9	543.0	513.8	474.5	446.1	427.2	421.3	417.0	414.7	408.9
22.5°	681.6	674.2	646.6	608.7	561.3	520.4	500.1	491.3	489.8	490.6	484.8
25°	819.3	816.3	781.4	720.9	659.7	607.2	575.9	574.3	576.6	572.9	572.9
27.5°	986.9	979.0	938.1	854.3	766.8	704.1	667.7	664.1	674.2	671.3	666.9
30°	1183.1	1170.6	1115.2	1008.1	895.8	812.1	769.7	769.7	780.6	780.6	779.2
32.5°	1387.9	1385.7	1299.6	1174.3	1041.7	930.9	894.4	888.6	899.5	905.3	898.0
35°	1618.2	1601.4	1502.4	1360.2	1188.8	1067.1	1021.9	1030.0	1038.7	1039.5	1027.8
37.5°	1852.9	1836.2	1722.5	1546.8	1347.0	1215.8	1169.2	1175.0	1188.8	1188.8	1173.6
40°	2054.1	2035.9	1924.4	1741.4	1522.0	1381.4	1331.8	1348.5	1358.0	1361.6	1336.9
42.5°	2213.0	2199.9	2100.1	1913.4	1690.4	1547.5	1515.4	1543.2	1552.6	1559.9	1524.1
45°	2302.0	2291.0	2221.8	2053.4	1831.8	1713.7	1719.5	1753.1	1771.3	1763.2	1724.6
47.5°	2315.8	2307.0	2268.4	2140.2	1961.5	1873.4	1928.8	1979.0	2006.8	2007.4	1941.9
50°	2229.8	2233.5	2234.2	2160.5	2034.4	2003.0	2124.1	2237.1	2258.2	2246.6	2169.3
52.5°	2062.9	2060.6	2102.9	2102.9	2047.5	2083.2	2288.1	2490.0	2519.2	2516.2	2409.0
55°	1815.1	1817.2	1895.9	1957.9	1978.3	2100.1	2422.2	2718.9	2767.0	2762.6	2644.5
57.5°	1506.6	1527.9	1624.8	1743.6	1836.2	2028.6	2484.2	2915.7	2994.5	2995.2	2852.3
60°	1207.1	1228.9	1341.9	1494.3	1628.4	1890.8	2442.6	3017.7	3190.5	3182.5	3030.9
62.5°	922.0	944.6	1053.3	1226.8	1382.7	1670.7	2301.2	3038.9	3294.7	3289.7	3159.1
65°	702.0	716.5	804.0	956.3	1120.4	1407.6	2068.8	2938.3	3329.0	3325.3	3206.5
67.5°	524.8	531.4	614.5	737.7	879.9	1138.6	1747.3	2696.3	3215.3	3218.9	3152.5
70°	403.8	408.2	468.7	575.9	681.6	890.0	1415.6	2347.1	2976.2	2985.7	2983.6
72.5°	320.6	327.3	375.5	453.4	529.9	674.2	1094.9	1898.8	2621.9	2641.7	2700.7
75°	264.6	271.8	308.3	365.9	421.3	513.2	796.0	1457.1	2155.4	2196.9	2328.2
77.5°	218.6	225.9	256.5	301.8	336.1	392.1	583.1	1077.4	1693.3	1710.8	1884.2
80°	179.3	185.8	213.6	248.6	273.3	306.2	424.9	756.6	1234.8	1256.7	1425.9
82.5°	142.9	148.7	174.2	202.6	223.0	245.7	314.8	518.2	860.1	876.1	987.7
85°	110.1	116.0	137.7	162.6	180.1	198.3	241.3	360.8	569.2	588.3	669.9
87.5°	82.4	87.5	105.7	126.8	145.1	160.4	185.8	249.3	379.7	395.8	434.5
90°	60.5	64.1	80.2	96.2	113.0	129.8	145.8	182.3	252.9	259.5	286.5
92.5°	45.3	47.4	60.5	74.3	90.3	105.0	115.2	134.2	177.9	178.6	197.5
95°	33.6	35.7	46.7	58.4	72.1	86.0	94.7	104.3	130.4	132.6	144.3
97.5°	27.0	27.8	37.1	47.4	59.0	70.7	78.0	83.1	99.9	102.0	110.1
100°	22.6	23.3	31.3	40.1	50.3	60.5	65.5	67.7	78.7	81.0	86.8
102.5°	19.6	19.6	27.0	35.0	43.7	51.1	54.6	56.2	63.4	63.4	67.7
105°	17.5	17.5	23.3	30.6	37.9	44.5	46.7	46.7	49.6	50.3	52.5
107.5°	16.1	16.1	21.1	27.8	33.6	38.7	40.1	38.7	39.4	39.4	40.9
110°	14.5	14.5	18.2	24.8	29.9	33.6	34.3	32.8	30.6	30.6	32.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	13.1	13.8	16.7	21.9	26.2	29.9	29.9	27.8	24.0	24.0	25.5
115°	12.3	12.3	15.3	19.6	23.3	26.2	26.2	23.3	19.6	18.9	20.4
117.5°	11.7	11.7	13.1	17.5	21.1	23.3	23.3	19.6	16.1	16.1	17.5
120°	10.9	10.9	12.3	16.1	18.9	21.1	20.4	17.5	13.8	13.8	15.3
122.5°	10.9	10.9	11.7	14.5	16.7	18.2	17.5	14.5	11.7	11.7	13.1
125°	10.2	10.2	10.9	13.1	15.3	16.7	15.3	12.3	10.9	10.9	11.7
127.5°	10.2	10.2	10.2	11.7	13.8	14.5	13.8	10.9	9.5	9.5	10.9
130°	9.5	9.5	10.2	10.9	12.3	13.1	11.7	9.5	8.7	8.7	10.2
132.5°	9.5	9.5	9.5	9.5	10.2	10.9	9.5	7.3	7.9	7.9	8.7
135°	8.7	8.7	8.7	8.7	9.5	9.5	7.9	6.5	7.3	7.3	7.9
137.5°	7.9	7.9	7.9	7.9	7.9	7.3	6.5	5.8	6.5	6.5	7.3
140°	7.3	7.3	7.3	6.5	5.8	5.8	5.1	4.4	5.1	5.1	5.8
142.5°	6.5	6.5	6.5	5.8	5.1	4.4	3.6	3.6	4.4	4.4	5.1
145°	5.8	5.8	5.1	4.4	3.6	2.9	2.1	2.9	3.6	3.6	4.4
147.5°	4.4	4.4	4.4	3.6	2.1	1.4	1.4	2.1	2.9	2.9	2.9
150°	3.6	3.6	3.6	2.9	1.4	0.8	0.8	1.4	1.4	1.4	2.1
152.5°	2.1	2.1	2.1	2.1	0.8	0.0	0.0	0.8	1.4	1.4	1.4
155°	1.4	1.4	1.4	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	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°	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4
2.5°	168.4	167.6	166.2	164.8	163.3	161.8	160.4	159.6	158.2	158.2	158.2
5°	177.1	175.0	172.0	169.2	166.2	164.0	161.8	159.6	158.2	157.5	156.7
7.5°	193.2	190.2	185.2	180.9	175.7	171.3	167.6	164.8	163.3	162.6	162.6
10°	215.0	211.4	204.9	196.1	190.2	183.7	177.9	174.2	171.3	170.6	169.8
12.5°	244.2	240.6	229.7	220.1	209.2	199.0	192.4	188.0	185.8	185.2	185.2
15°	285.7	281.4	263.9	247.8	230.3	218.0	209.2	205.5	206.3	208.4	206.3
17.5°	337.5	330.9	310.6	284.3	258.1	239.1	231.1	231.8	234.7	236.9	236.2
20°	401.6	392.1	363.8	326.5	290.8	265.3	257.3	258.1	261.6	268.2	267.4
22.5°	476.7	462.1	425.7	375.5	325.0	296.0	281.4	283.5	291.6	298.2	298.2
25°	559.1	546.0	494.2	427.2	364.5	321.4	303.2	306.2	317.8	325.0	327.3
27.5°	656.7	636.3	572.2	484.8	401.6	344.0	321.4	322.9	337.5	347.0	348.4
30°	761.0	737.0	656.7	542.4	434.5	361.5	332.3	335.3	351.4	362.3	364.5
32.5°	878.3	849.9	744.9	602.8	465.0	371.7	338.2	341.1	358.0	370.3	371.7
35°	1008.8	967.3	839.7	658.2	485.4	375.5	338.2	341.9	358.0	370.3	372.5
37.5°	1141.5	1094.9	932.3	711.4	497.9	372.5	333.1	337.5	352.1	363.8	365.9
40°	1296.1	1236.3	1033.6	755.2	502.3	364.5	324.4	329.5	341.9	351.4	352.8
42.5°	1472.4	1387.9	1140.0	792.3	495.7	354.2	315.6	321.4	331.7	338.2	338.9
45°	1655.4	1553.3	1243.6	821.5	486.2	341.9	306.9	313.5	322.2	323.6	325.0
47.5°	1852.9	1739.2	1356.6	839.0	469.4	328.8	300.4	306.9	312.7	311.9	312.7
50°	2071.5	1931.7	1471.7	846.3	450.4	317.8	295.2	302.5	306.9	303.2	303.2
52.5°	2285.1	2142.3	1576.7	849.2	429.4	307.6	291.6	300.4	302.5	298.9	298.9
55°	2512.6	2336.9	1681.6	841.2	408.2	299.6	290.1	299.6	301.0	296.0	296.0
57.5°	2722.5	2544.6	1776.4	828.8	388.5	292.3	287.9	298.9	300.4	296.0	296.6
60°	2915.7	2721.1	1850.0	808.4	367.3	285.0	286.5	298.9	300.4	297.4	298.9
62.5°	3033.8	2837.7	1888.6	776.3	347.0	278.5	284.3	297.4	300.4	298.2	299.6
65°	3084.8	2879.3	1883.5	730.4	327.3	270.4	279.9	294.5	298.2	298.2	299.6
67.5°	3046.1	2841.4	1809.3	671.3	309.1	262.4	274.0	288.7	293.8	295.2	297.4
70°	2902.6	2684.6	1659.7	597.0	289.4	253.7	266.8	280.7	286.5	289.4	290.8
72.5°	2616.1	2421.5	1447.6	522.6	269.0	242.8	255.8	269.0	275.6	279.1	279.1
75°	2252.4	2057.8	1191.8	443.9	249.9	230.3	242.8	253.7	260.9	264.6	263.1
77.5°	1812.1	1630.5	925.8	363.8	229.7	215.8	227.5	236.9	242.8	245.7	242.0
80°	1342.7	1226.8	695.4	300.4	209.2	199.0	208.4	216.5	223.0	222.4	219.4
82.5°	951.9	842.6	487.0	249.3	188.8	180.9	188.0	193.2	197.5	196.1	190.9
85°	634.1	562.6	344.0	203.3	167.6	161.0	165.4	168.4	170.6	166.9	163.3
87.5°	412.6	367.3	247.8	167.6	145.1	140.7	142.9	143.5	144.3	140.7	136.3
90°	269.7	250.7	184.4	138.5	124.7	121.8	121.8	118.8	119.5	115.2	110.8
92.5°	190.2	178.6	143.5	113.7	106.4	104.3	103.5	99.9	99.1	94.7	91.9
95°	142.1	137.0	116.0	96.2	90.3	89.7	88.2	84.5	81.6	77.2	75.8
97.5°	110.8	108.6	95.5	82.4	78.0	76.6	75.8	71.4	69.3	64.9	63.4
100°	88.2	88.2	80.2	70.7	67.0	66.3	65.5	61.1	59.0	54.6	54.0
102.5°	70.7	71.4	67.0	61.1	58.4	56.9	55.4	52.5	48.8	45.9	45.9
105°	55.4	56.9	55.4	51.8	50.3	48.8	47.4	44.5	40.9	37.9	37.9
107.5°	43.7	45.3	45.3	44.5	42.3	41.5	40.9	37.1	34.3	31.3	31.3
110°	33.6	35.7	37.1	37.1	37.1	35.7	34.3	32.1	28.4	26.2	26.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.0	28.4	30.6	31.3	31.3	31.3	29.9	26.2	23.3	21.9	22.6
115°	21.9	23.3	25.5	27.0	27.0	27.0	24.8	22.6	19.6	18.9	18.9
117.5°	18.2	19.6	21.1	23.3	23.3	23.3	21.9	18.9	16.1	16.1	16.1
120°	16.1	16.7	18.9	19.6	20.4	20.4	18.9	16.1	13.8	13.8	14.5
122.5°	13.8	14.5	16.1	17.5	18.2	17.5	16.1	13.1	11.7	12.3	12.3
125°	12.3	13.1	13.8	15.3	16.1	15.3	13.8	10.9	10.2	10.9	10.9
127.5°	11.7	11.7	12.3	13.1	13.8	13.1	11.7	9.5	8.7	10.2	10.2
130°	10.2	10.9	10.9	11.7	11.7	11.7	10.2	7.9	7.9	8.7	8.7
132.5°	9.5	9.5	9.5	10.2	10.2	9.5	7.9	6.5	7.3	7.9	7.9
135°	7.9	8.7	8.7	8.7	8.7	7.9	6.5	5.8	6.5	7.3	7.3
137.5°	7.3	7.3	7.3	7.3	7.3	6.5	5.8	5.1	5.8	5.8	5.8
140°	5.8	6.5	6.5	5.8	5.8	5.1	4.4	3.6	4.4	5.1	5.1
142.5°	5.1	5.1	5.1	5.1	4.4	3.6	2.9	2.9	3.6	3.6	3.6
145°	4.4	4.4	4.4	3.6	2.9	2.9	2.1	2.1	2.9	2.9	3.6
147.5°	2.9	2.9	2.9	2.9	2.1	2.1	1.4	1.4	2.1	2.1	2.1
150°	2.1	2.1	2.1	2.1	1.4	1.4	1.4	0.8	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	1.4	1.4	0.8	0.8	0.8	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)