

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: P240482

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
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-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6056.9 lumens
Efficiency: N/A
Efficacy: 94.6 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): 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



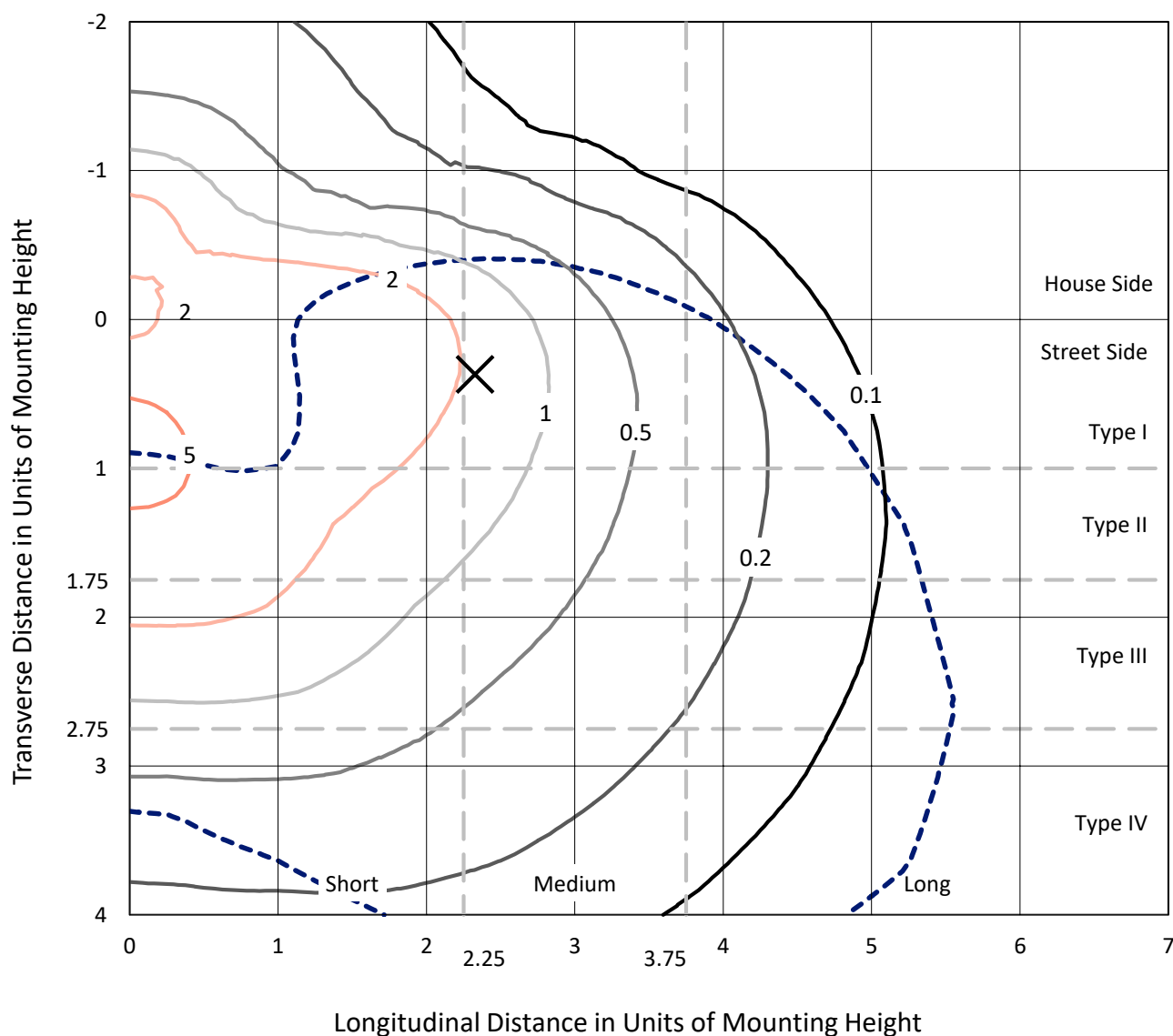
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

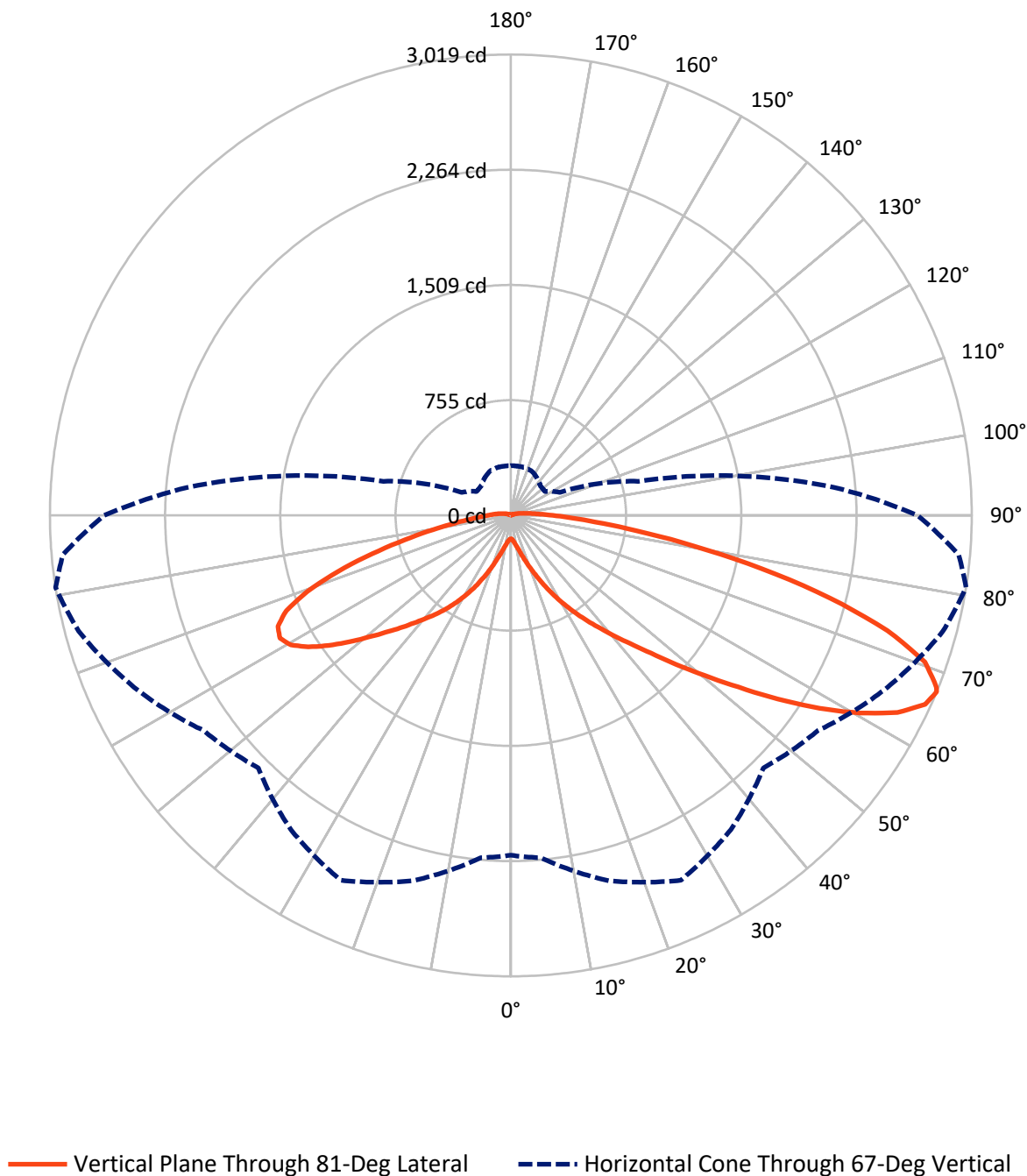


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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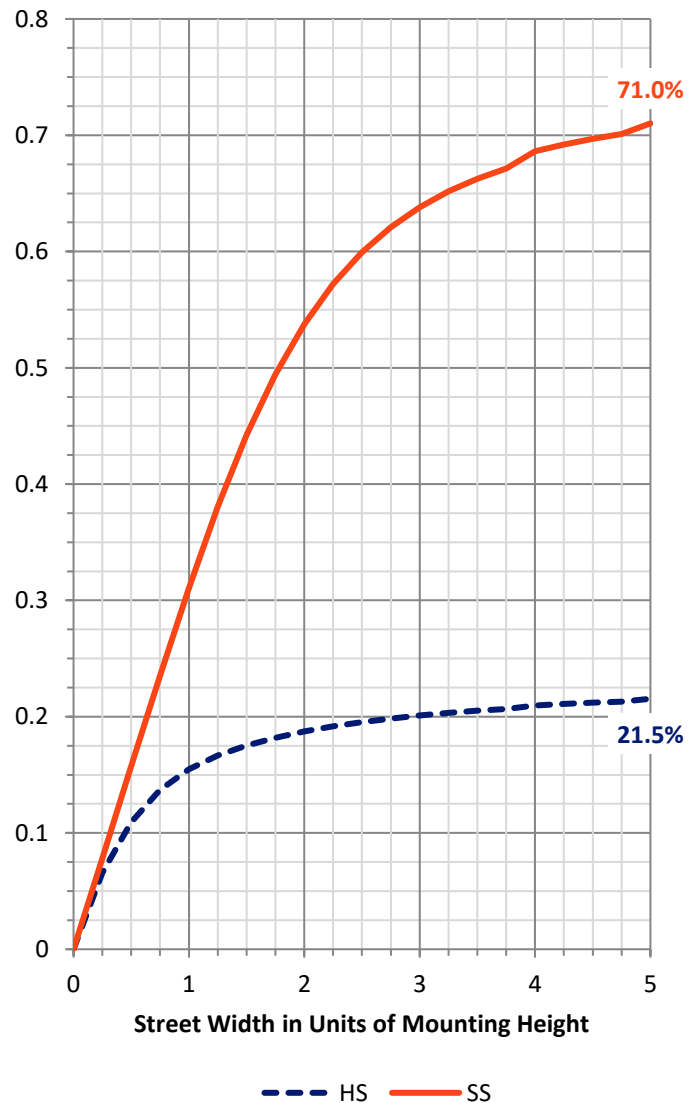
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1376.5	110.8	1487.3
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4443.1	126.5	4569.6
	% Fixture	73.4	2.1	75.4
Total	Lumens	5819.6	237.3	6056.9
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	0.3
10°-20°	76.5	1.3
20°-30°	206.6	3.4
30°-40°	414.6	6.8
40°-50°	700.7	11.6
50°-60°	1120.4	18.5
60°-70°	1530.9	25.3
70°-80°	1261.9	20.8
80°-90°	491.2	8.1
90°-100°	141.4	2.3
100°-110°	54.2	0.9
110°-120°	23.5	0.4
120°-130°	11.2	0.2
130°-140°	5.3	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5819.6	96.1
0°-180°	6056.9	100.0

Coefficient of Utilization



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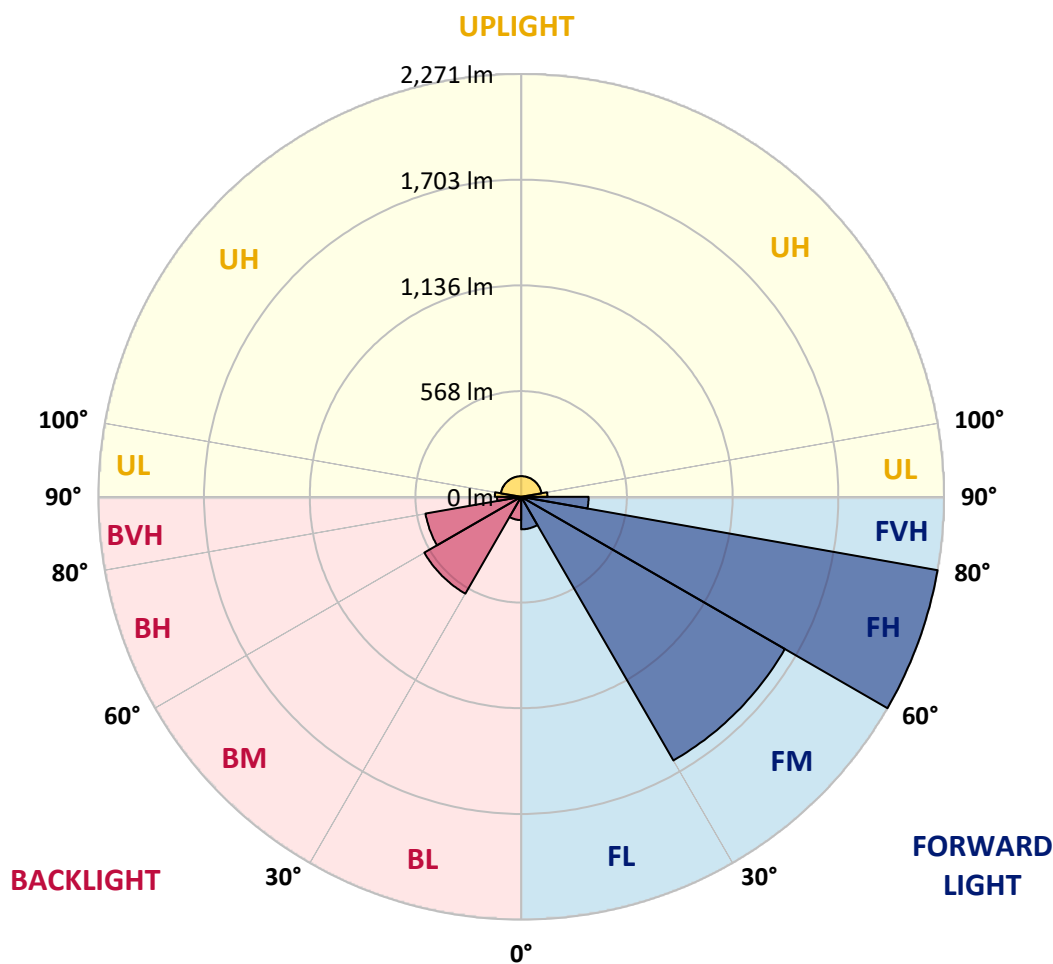
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.9	2.9			
FM	(30°-60°)	1635.2	27.0			
FH	(60°-80°)	2271.1	37.5			G2/5000
FVH	(80°-90°)	361.9	6.0			G3/500
BL	(0°-30°)	125.0	2.1	B1/500		
BM	(30°-60°)	600.5	9.9	B1/1000		
BH	(60°-80°)	521.7	8.6	B2/1000		G2/1000
BVH	(80°-90°)	129.3	2.1			G2/225
UL	(90°-100°)	141.4	2.3		U3/500	
UH	(100°-180°)	110.8	1.8		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°	81°	85°
0°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
2.5°	165.7	165.7	165.7	165.0	164.2	162.6	161.1	159.6	158.8	158.0	157.2
5°	182.7	183.5	182.7	181.9	179.6	177.3	174.2	171.9	168.8	167.3	166.5
7.5°	208.2	208.2	207.4	203.5	201.2	197.3	193.4	188.8	185.8	183.5	180.3
10°	240.5	239.0	237.4	233.5	228.2	222.0	217.4	212.0	206.6	205.1	201.9
12.5°	279.1	279.1	275.2	269.9	259.8	253.6	245.9	239.8	234.4	231.3	229.8
15°	330.7	328.4	321.4	313.0	300.6	288.3	279.8	275.2	269.9	269.9	264.4
17.5°	383.1	385.4	374.6	361.5	344.5	329.2	319.2	318.3	316.1	314.6	313.7
20°	451.7	449.4	436.3	414.0	389.3	370.8	363.9	364.6	370.8	370.0	366.9
22.5°	525.7	525.7	505.6	475.7	440.9	418.6	411.6	418.6	431.7	431.7	433.2
25°	613.6	610.5	585.1	539.6	498.0	468.7	465.6	476.4	499.5	503.4	501.9
27.5°	712.3	701.5	668.4	612.0	557.3	524.2	518.8	538.9	570.4	581.2	585.1
30°	817.1	817.8	767.0	693.8	619.8	575.8	573.6	605.9	643.6	662.2	666.8
32.5°	938.1	934.3	875.7	784.0	688.3	631.4	629.0	673.7	721.6	745.4	748.5
35°	1088.5	1070.7	1005.3	885.0	759.3	694.6	693.0	741.5	804.0	834.1	841.8
37.5°	1226.4	1217.2	1142.4	989.8	840.3	758.5	755.4	818.7	892.6	927.4	938.1
40°	1387.5	1376.8	1288.9	1114.7	936.6	832.6	831.0	902.7	988.3	1032.2	1041.5
42.5°	1545.6	1538.6	1443.9	1253.4	1038.4	915.8	912.7	995.9	1096.9	1146.3	1157.9
45°	1715.2	1697.5	1605.7	1395.3	1151.6	1012.1	1013.7	1103.9	1228.8	1286.6	1298.1
47.5°	1860.1	1849.3	1772.3	1548.6	1276.5	1117.0	1119.3	1239.6	1391.4	1458.5	1463.8
50°	2018.2	2011.9	1935.6	1711.3	1426.9	1247.3	1251.2	1386.8	1570.2	1647.4	1674.4
52.5°	2149.2	2149.9	2092.1	1878.6	1574.9	1387.5	1399.1	1562.6	1764.5	1867.8	1884.0
55°	2277.2	2273.3	2239.3	2062.1	1750.7	1544.9	1558.0	1756.8	1996.6	2121.4	2143.1
57.5°	2369.7	2379.7	2383.6	2237.8	1921.0	1702.9	1746.1	1958.7	2249.4	2383.6	2402.8
60°	2433.6	2438.3	2492.2	2414.4	2105.2	1889.4	1945.7	2183.1	2486.8	2628.0	2640.2
62.5°	2427.5	2447.5	2552.4	2546.9	2284.1	2066.7	2138.4	2393.6	2693.4	2843.0	2845.3
65°	2345.0	2378.2	2553.9	2631.0	2432.1	2234.7	2327.3	2583.2	2863.0	2981.7	2950.9
67°	2225.5	2251.0	2476.8	2636.3	2512.3	2338.9	2456.0	2700.4	2930.1	3018.7	2944.0
67.5°	2175.4	2220.9	2448.3	2631.0	2520.8	2361.2	2476.8	2731.2	2944.0	3007.2	2927.0
70°	1934.1	1969.6	2224.7	2520.8	2523.8	2429.0	2563.2	2768.2	2891.6	2877.7	2732.7
72.5°	1607.3	1623.4	1903.3	2277.9	2408.2	2402.1	2537.7	2672.7	2671.1	2579.4	2403.6
75°	1218.0	1261.2	1513.3	1912.5	2166.9	2251.7	2375.1	2419.8	2313.4	2159.2	1946.5
77.5°	859.5	881.9	1104.7	1503.9	1831.6	1989.6	2076.7	2055.9	1860.1	1678.2	1485.4
80°	556.6	578.2	731.5	1077.7	1436.1	1605.0	1684.4	1622.7	1425.4	1211.8	1050.0
82.5°	336.9	355.4	463.3	723.1	1055.3	1244.2	1284.3	1224.9	1005.3	827.9	700.7
85°	197.3	212.0	287.6	466.4	719.2	898.0	912.7	844.9	675.2	553.5	467.2
87.5°	120.3	128.0	181.9	298.3	477.2	605.9	636.0	572.8	454.8	370.0	314.6
90°	77.8	83.3	116.4	195.8	313.0	400.1	418.6	382.4	308.3	252.1	216.7
92.5°	53.2	58.6	80.9	131.0	205.8	265.1	276.7	251.3	207.4	177.3	158.0
95°	40.8	43.2	61.7	92.5	140.3	177.3	188.1	171.1	145.0	130.3	118.8
97.5°	33.1	34.7	49.3	71.7	101.8	127.2	131.9	119.5	107.1	97.9	92.5
100°	28.5	29.3	41.6	58.6	79.4	96.4	98.7	89.4	80.9	76.3	71.7
102.5°	25.5	26.2	36.2	50.1	64.8	76.3	76.3	69.4	61.7	58.6	56.3
105°	22.4	23.1	32.4	43.2	55.5	62.4	62.4	54.7	47.8	44.7	44.0
107.5°	20.0	20.8	27.7	37.7	47.1	52.4	51.7	44.0	36.2	33.1	33.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	18.5	18.5	24.7	33.1	40.1	44.7	42.4	35.5	27.7	25.5	26.2
112.5°	17.0	17.0	21.6	28.5	35.5	38.6	35.5	29.3	21.6	20.0	20.8
115°	16.2	16.2	19.2	25.5	30.8	32.4	30.1	23.9	17.7	16.2	17.0
117.5°	14.6	14.6	17.7	22.4	26.2	27.7	25.5	19.2	14.6	13.9	14.6
120°	13.9	13.9	15.4	19.2	23.1	23.9	21.6	16.2	12.4	12.4	13.1
122.5°	13.1	13.1	14.6	17.0	20.0	20.8	18.5	13.1	10.8	10.8	11.6
125°	13.1	13.1	13.1	15.4	17.0	17.7	15.4	11.6	10.0	10.0	10.8
127.5°	12.4	12.4	12.4	13.1	14.6	14.6	13.1	9.2	8.5	9.2	9.2
130°	11.6	11.6	11.6	12.4	13.1	12.4	10.8	7.7	7.7	8.5	8.5
132.5°	10.8	10.8	10.8	10.8	10.8	10.0	8.5	7.0	7.0	7.7	7.7
135°	10.0	10.0	10.0	9.2	9.2	8.5	7.0	5.4	6.1	7.0	7.0
137.5°	9.2	9.2	9.2	8.5	7.7	6.1	4.6	4.6	5.4	6.1	6.1
140°	8.5	8.5	7.7	7.0	6.1	4.6	3.1	3.9	4.6	4.6	5.4
142.5°	7.0	7.0	7.0	5.4	3.9	3.1	2.4	2.4	3.9	3.9	3.9
145°	6.1	6.1	5.4	4.6	3.1	1.5	0.8	1.5	2.4	3.1	3.1
147.5°	4.6	4.6	4.6	3.1	1.5	0.8	0.8	0.8	1.5	2.4	2.4
150°	3.9	3.9	3.1	2.4	0.8	0.0	0.0	0.8	1.5	1.5	1.5
152.5°	2.4	2.4	2.4	1.5	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
2.5°	156.5	155.7	155.0	153.4	152.6	151.1	149.6	148.7	148.0	148.0	148.0
5°	165.0	164.2	161.9	158.8	156.5	154.2	152.6	151.1	149.6	149.6	149.6
7.5°	178.8	177.3	172.7	169.6	165.7	162.6	160.3	158.0	157.2	157.2	156.5
10°	198.9	196.6	191.2	185.1	179.6	175.7	172.7	170.3	169.6	169.6	169.6
12.5°	225.0	222.0	213.5	205.8	197.3	191.9	188.1	187.3	188.1	188.1	187.3
15°	262.9	256.7	243.6	231.3	218.2	209.7	207.4	207.4	211.2	212.8	213.5
17.5°	308.3	300.6	282.9	262.9	242.8	231.3	229.8	234.4	242.8	246.6	245.9
20°	364.6	353.8	329.2	299.1	271.4	256.7	255.1	263.6	275.2	282.9	282.1
22.5°	427.8	417.8	380.8	336.9	298.3	281.4	279.1	293.0	309.9	318.3	321.4
25°	498.0	484.1	435.6	375.4	326.8	303.0	302.2	319.2	341.5	356.9	359.3
27.5°	574.3	558.1	494.1	414.0	351.5	320.7	319.9	343.0	373.9	393.1	393.9
30°	658.4	633.6	552.0	446.3	370.0	333.0	334.6	361.5	400.9	423.2	427.1
32.5°	741.5	713.8	604.4	477.9	382.4	339.2	341.5	375.4	418.6	447.1	450.2
35°	829.5	794.0	656.7	498.8	389.3	339.9	342.3	380.8	427.8	458.7	461.8
37.5°	918.1	875.7	700.7	514.1	389.3	335.3	338.4	379.3	427.1	458.7	460.9
40°	1023.0	961.3	742.4	520.4	383.1	326.8	330.7	370.8	415.5	444.8	447.1
42.5°	1131.7	1057.6	781.6	518.8	372.4	316.1	319.9	356.9	396.2	420.1	422.5
45°	1262.7	1172.5	821.7	514.1	359.3	304.5	306.8	339.9	373.1	390.1	393.1
47.5°	1423.8	1295.9	862.7	505.6	344.5	293.7	295.2	324.6	348.4	359.3	361.5
50°	1602.7	1441.5	907.4	494.1	330.7	283.7	286.0	309.9	326.8	331.4	332.3
52.5°	1814.6	1606.5	949.0	480.3	318.3	276.0	279.1	300.6	312.2	313.0	313.7
55°	2043.5	1786.9	985.9	463.3	306.1	270.6	276.7	296.8	304.5	303.7	304.5
57.5°	2282.5	1960.4	1011.4	445.6	296.0	267.5	277.5	296.8	304.5	303.0	304.5
60°	2496.1	2109.1	1015.3	422.5	288.3	267.5	282.1	302.2	309.1	309.1	310.7
62.5°	2647.9	2194.6	989.8	399.4	281.4	269.0	288.3	309.1	316.1	316.1	317.6
65°	2709.6	2193.1	934.3	374.6	276.0	271.4	294.5	316.8	322.2	322.2	323.8
67°	2663.4	2121.4	862.7	356.2	272.9	273.6	299.1	321.4	326.1	325.3	326.1
67.5°	2634.8	2096.0	847.2	350.8	272.1	273.6	299.8	322.2	326.8	326.1	326.1
70°	2398.9	1879.4	740.8	327.7	266.7	273.6	303.0	323.8	326.8	325.3	325.3
72.5°	2034.3	1572.6	621.3	304.5	260.5	271.4	301.4	321.4	322.9	320.7	320.7
75°	1618.1	1230.3	510.4	284.5	252.1	266.0	296.0	314.6	316.8	314.6	312.2
77.5°	1198.0	911.1	412.5	262.9	242.0	257.5	286.7	304.5	306.8	304.5	302.2
80°	835.6	647.5	332.3	241.3	228.9	245.1	273.6	289.1	292.2	290.6	286.7
82.5°	558.8	444.8	266.0	217.4	212.0	228.9	255.9	269.9	272.1	270.6	266.0
85°	381.6	309.9	219.7	191.9	193.4	209.7	232.8	243.6	245.9	243.6	239.0
87.5°	256.7	222.0	179.6	167.3	171.9	187.3	205.8	211.2	215.8	212.0	208.9
90°	185.8	167.3	145.0	142.6	150.3	163.5	175.7	176.6	182.7	181.2	175.0
92.5°	139.5	131.0	120.3	120.3	128.7	139.5	147.2	145.7	149.6	149.6	145.0
95°	110.3	105.6	100.2	102.5	110.3	117.9	120.3	117.1	121.0	121.8	120.3
97.5°	88.7	87.2	85.5	87.2	94.0	100.2	99.4	94.0	97.2	98.7	97.2
100°	71.7	70.9	71.7	74.8	80.2	84.0	81.7	76.3	78.7	78.7	78.7
102.5°	57.8	57.8	60.1	63.2	67.1	70.2	67.1	62.4	63.2	62.4	62.4
105°	45.5	46.2	49.3	53.2	56.3	57.8	54.7	50.1	49.3	47.1	47.8
107.5°	35.5	37.0	40.1	44.0	47.1	47.8	45.5	40.8	37.7	36.2	36.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	27.7	29.3	33.1	36.2	38.6	39.3	37.0	32.4	28.5	27.7	27.7
112.5°	22.4	23.9	27.0	30.1	32.4	32.4	30.1	26.2	21.6	20.8	20.8
115°	18.5	19.2	22.4	24.7	27.0	27.0	24.7	20.8	17.0	16.2	17.0
117.5°	15.4	16.2	18.5	20.8	22.4	22.4	20.0	16.2	13.1	13.1	13.1
120°	13.9	14.6	16.2	17.7	18.5	18.5	17.0	13.1	10.8	10.8	10.8
122.5°	12.4	12.4	13.9	14.6	16.2	15.4	13.9	10.8	8.5	9.2	9.2
125°	10.8	11.6	11.6	13.1	13.1	13.1	10.8	8.5	7.7	7.7	7.7
127.5°	10.0	10.0	10.8	10.8	11.6	10.8	8.5	6.1	6.1	7.0	7.0
130°	9.2	9.2	9.2	9.2	9.2	8.5	7.0	5.4	5.4	6.1	6.1
132.5°	7.7	8.5	8.5	7.7	7.7	7.0	5.4	3.9	4.6	4.6	4.6
135°	7.0	7.7	7.0	7.0	6.1	5.4	3.9	3.1	3.9	3.9	3.9
137.5°	6.1	6.1	6.1	5.4	4.6	3.9	3.1	2.4	3.1	3.1	3.1
140°	5.4	5.4	5.4	4.6	3.9	3.1	1.5	1.5	2.4	2.4	2.4
142.5°	3.9	4.6	3.9	3.1	2.4	1.5	0.8	0.8	1.5	2.4	1.5
145°	3.1	3.1	3.1	2.4	1.5	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	2.4	2.4	2.4	1.5	0.8	0.8	0.0	0.0	0.0	0.8	0.8
150°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	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

(END OF REPORT)