

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: P240588

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240588
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-AF24-40-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4130.7 lumens
Efficiency: N/A
Efficacy: 103.3 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: B1 - U3 - G2

Input Watts (W): 40
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



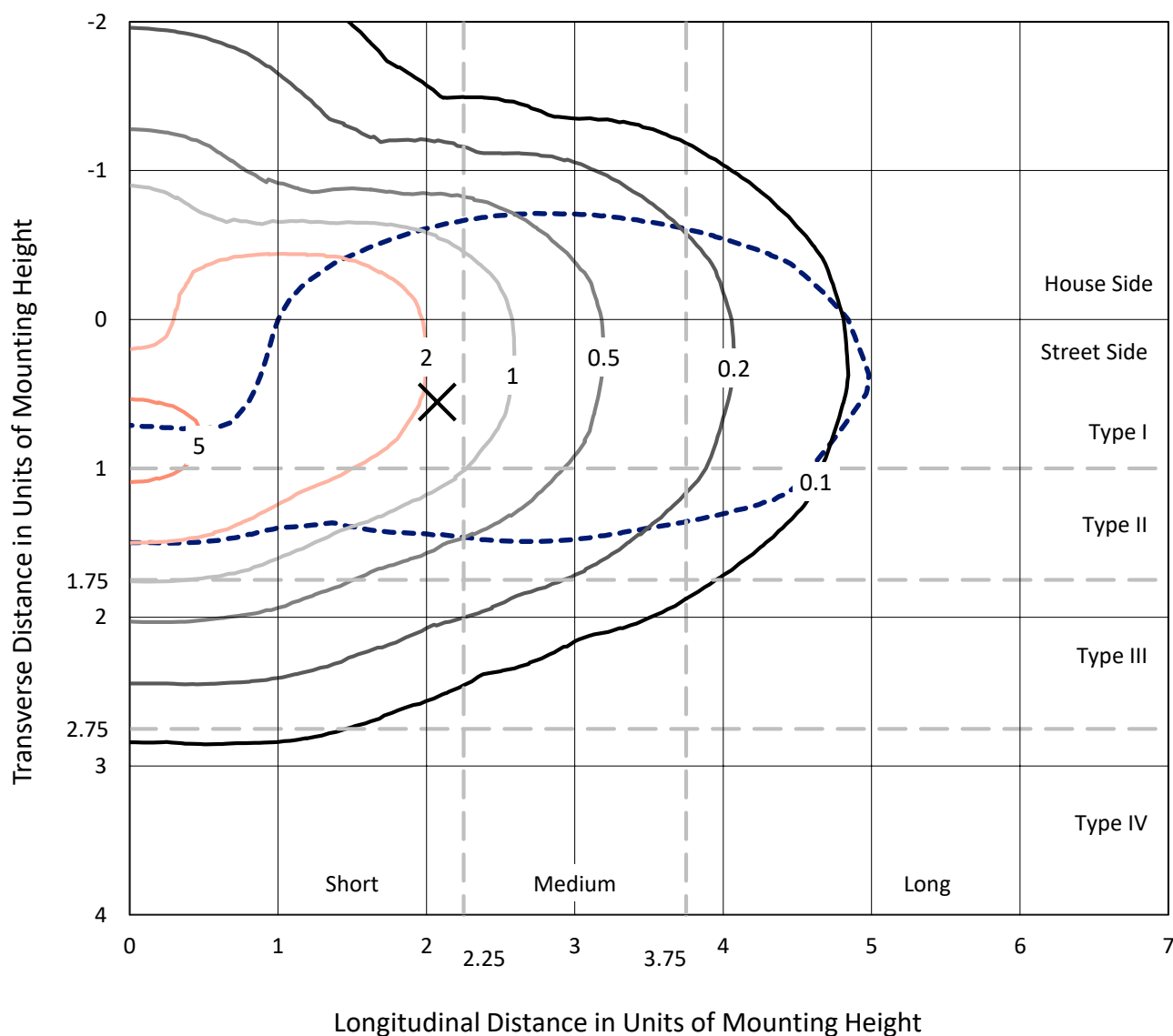
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

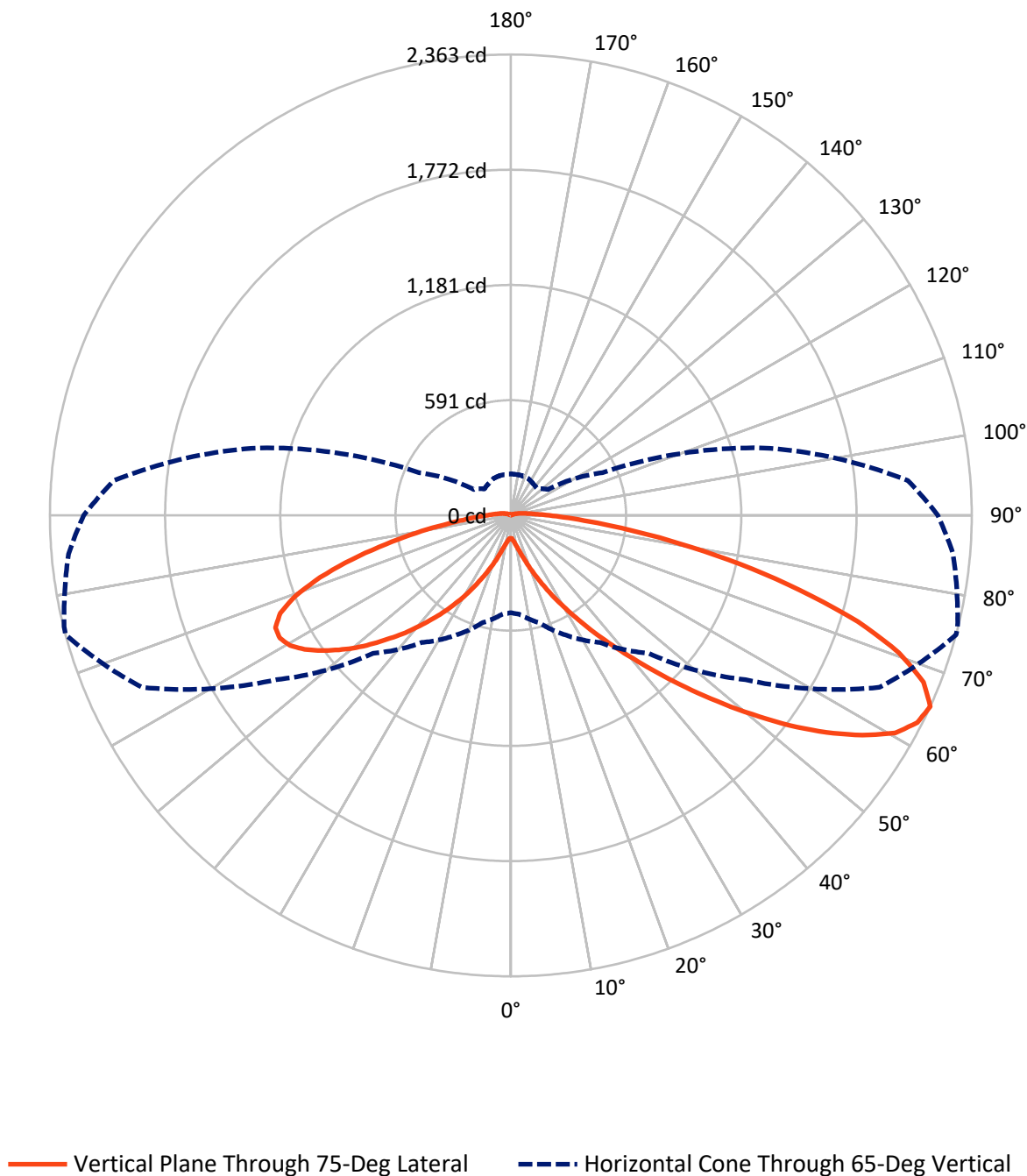


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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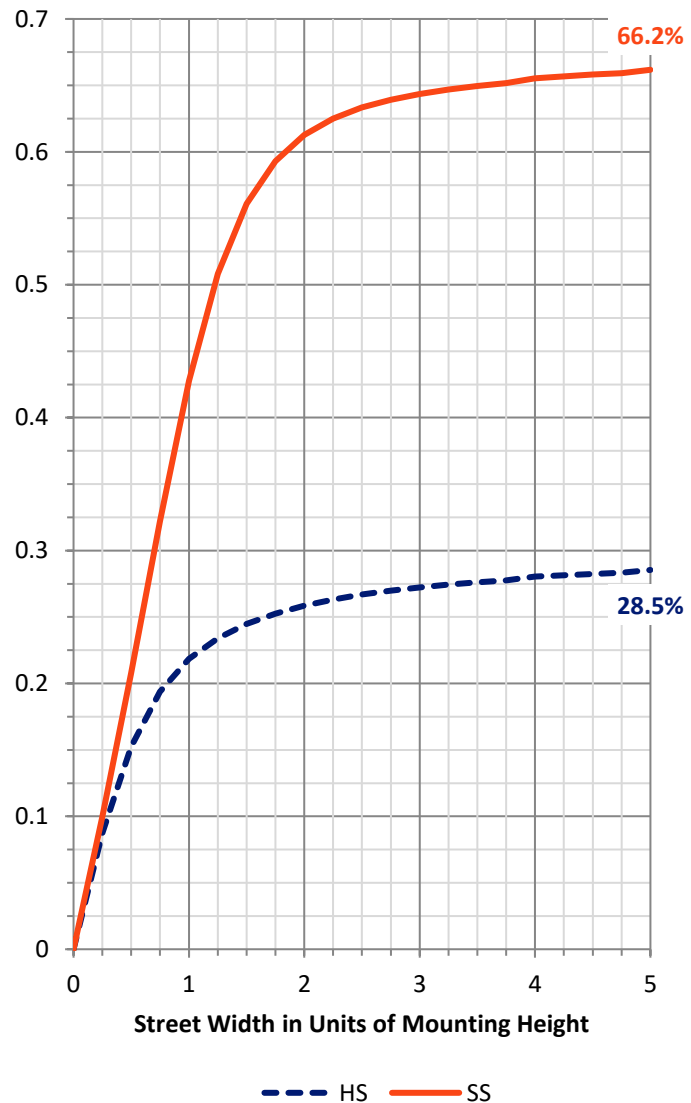
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.6	73.1	1292.8
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	2772.1	65.8	2837.9
	% Fixture	67.1	1.6	68.7
Total	Lumens	3991.7	138.9	4130.7
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.3
10°-20°	59.7	1.4
20°-30°	174.2	4.2
30°-40°	390.7	9.5
40°-50°	695.3	16.8
50°-60°	944.9	22.9
60°-70°	917.6	22.2
70°-80°	578.4	14.0
80°-90°	218.1	5.3
90°-100°	74.2	1.8
100°-110°	33.6	0.8
110°-120°	16.2	0.4
120°-130°	8.5	0.2
130°-140°	4.4	0.1
140°-150°	1.6	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3991.7	96.6
0°-180°	4130.7	100.0

Coefficient of Utilization



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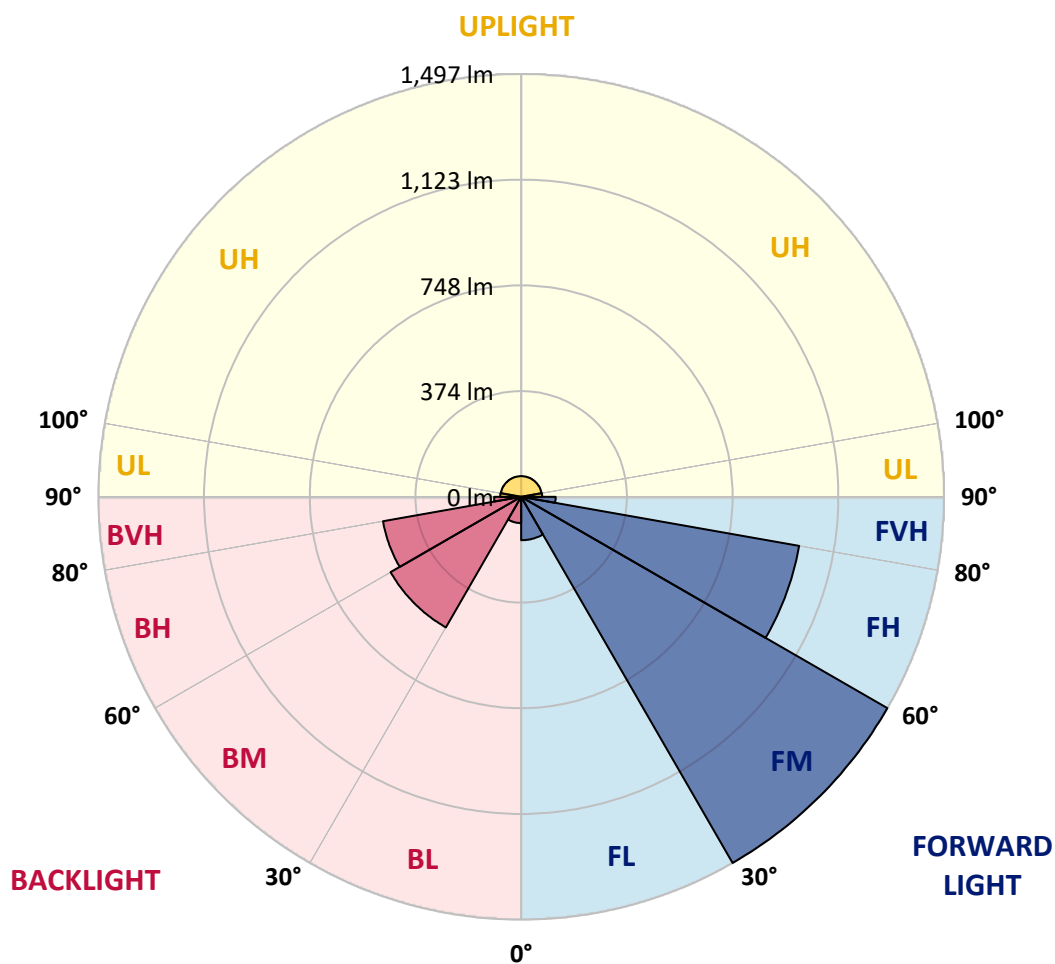
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.8	3.7			
FM	(30°-60°)	1497.0	36.2			
FH	(60°-80°)	999.2	24.2			G1/1800
FVH	(80°-90°)	122.1	3.0			G2/225
BL	(0°-30°)	93.0	2.3	B0/110		
BM	(30°-60°)	533.9	12.9	B1/1000		
BH	(60°-80°)	496.7	12.0	B1/500		G1/500
BVH	(80°-90°)	96.0	2.3			G1/100
UL	(90°-100°)	74.2	1.8		U3/500	
UH	(100°-180°)	73.1	1.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
2.5°	127.8	127.3	127.3	127.3	126.2	125.2	123.7	122.7	121.0	120.5	120.0
5°	141.3	141.3	140.8	140.1	139.1	136.6	134.0	132.0	129.3	128.8	126.7
7.5°	162.4	161.9	161.4	158.9	157.2	153.6	149.6	146.4	141.8	141.8	138.6
10°	190.4	189.3	187.8	185.2	179.5	174.8	170.2	164.5	159.9	159.4	154.7
12.5°	223.5	223.5	221.4	216.3	209.0	202.2	194.6	188.3	182.1	181.6	177.5
15°	269.0	269.5	262.8	255.0	244.7	234.4	224.5	218.8	211.5	213.2	207.5
17.5°	325.4	324.4	318.6	303.2	286.1	272.6	261.3	255.0	249.4	249.9	245.7
20°	396.3	395.3	385.4	364.7	336.8	316.6	303.2	299.0	295.9	294.4	290.2
22.5°	483.7	478.5	458.9	432.0	398.3	369.4	354.9	348.7	347.6	348.1	344.0
25°	581.4	579.4	554.5	511.7	468.2	431.0	408.7	407.6	409.2	406.6	406.6
27.5°	700.4	694.8	665.8	606.3	544.2	499.7	473.8	471.3	478.5	476.5	473.3
30°	839.6	830.8	791.5	715.5	635.8	576.3	546.3	546.3	554.0	554.0	553.0
32.5°	985.0	983.5	922.4	833.4	739.3	660.6	634.7	630.6	638.4	642.5	637.3
35°	1148.5	1136.6	1066.2	965.4	843.7	757.4	725.3	731.0	737.1	737.8	729.5
37.5°	1315.0	1303.1	1222.4	1097.7	956.0	862.9	829.8	833.9	843.7	843.7	832.9
40°	1457.8	1444.9	1365.7	1235.9	1080.1	980.3	945.1	957.1	963.8	966.4	948.8
42.5°	1570.6	1561.3	1490.4	1358.0	1199.7	1098.2	1075.5	1095.2	1101.9	1107.0	1081.8
45°	1633.8	1626.0	1576.8	1457.3	1300.1	1216.2	1220.4	1244.2	1257.1	1251.4	1224.0
47.5°	1643.6	1637.3	1609.9	1518.9	1392.1	1329.5	1368.8	1404.5	1424.2	1424.7	1378.1
50°	1582.5	1585.1	1585.6	1533.3	1443.9	1421.6	1507.5	1587.6	1602.7	1594.4	1539.5
52.5°	1464.0	1462.5	1492.5	1492.5	1453.2	1478.5	1623.8	1767.1	1787.9	1785.8	1709.8
55°	1288.1	1289.7	1345.6	1389.6	1404.0	1490.4	1719.1	1929.6	1963.8	1960.7	1876.8
57.5°	1069.3	1084.3	1153.1	1237.5	1303.1	1439.7	1763.1	2069.3	2125.2	2125.7	2024.3
60°	856.7	872.2	952.4	1060.5	1155.7	1341.9	1733.6	2141.8	2264.3	2258.7	2151.1
62.5°	654.4	670.4	747.6	870.6	981.3	1185.7	1633.2	2156.7	2338.3	2334.7	2242.1
65°	498.2	508.5	570.6	678.7	795.1	998.9	1468.1	2085.4	2362.6	2360.0	2275.8
67.5°	372.5	377.2	436.1	523.5	624.4	808.0	1240.0	1913.6	2281.9	2284.6	2237.4
70°	286.6	289.7	332.7	408.7	483.7	631.7	1004.6	1665.8	2112.2	2118.9	2117.4
72.5°	227.6	232.3	266.4	321.8	376.1	478.5	777.0	1347.6	1860.8	1874.8	1916.7
75°	187.8	192.9	218.8	259.7	299.0	364.2	564.9	1034.1	1529.7	1559.2	1652.4
77.5°	155.2	160.4	182.1	214.2	238.4	278.3	413.9	764.7	1201.8	1214.1	1337.3
80°	127.3	132.0	151.6	176.4	194.0	217.3	301.6	536.9	876.4	891.9	1011.9
82.5°	101.4	105.6	123.7	143.8	158.3	174.3	223.5	367.9	610.4	621.9	700.9
85°	78.2	82.2	97.8	115.4	127.8	140.8	171.2	256.0	404.1	417.5	475.5
87.5°	58.4	62.1	75.0	90.0	102.9	113.9	132.0	177.0	269.5	280.9	308.3
90°	43.0	45.5	56.9	68.3	80.2	92.1	103.4	129.3	179.5	184.1	203.3
92.5°	32.1	33.7	43.0	52.8	64.1	74.5	81.7	95.2	126.2	126.7	140.1
95°	23.8	25.4	33.1	41.4	51.2	61.1	67.2	74.0	92.6	94.1	102.4
97.5°	19.1	19.6	26.4	33.7	41.9	50.2	55.3	59.0	70.9	72.4	78.2
100°	16.1	16.6	22.2	28.4	35.7	43.0	46.5	48.1	55.9	57.4	61.6
102.5°	14.0	14.0	19.1	24.9	31.0	36.2	38.8	39.8	45.0	45.0	48.1
105°	12.4	12.4	16.6	21.7	26.9	31.5	33.1	33.1	35.2	35.7	37.2
107.5°	11.4	11.4	15.0	19.6	23.8	27.4	28.4	27.4	27.9	27.9	28.9
110°	10.3	10.3	12.9	17.6	21.2	23.8	24.3	23.3	21.7	21.7	22.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	9.3	9.8	11.9	15.5	18.6	21.2	21.2	19.6	17.1	17.1	18.1
115°	8.8	8.8	10.8	14.0	16.6	18.6	18.6	16.6	14.0	13.4	14.5
117.5°	8.3	8.3	9.3	12.4	15.0	16.6	16.6	14.0	11.4	11.4	12.4
120°	7.8	7.8	8.8	11.4	13.4	15.0	14.5	12.4	9.8	9.8	10.8
122.5°	7.8	7.8	8.3	10.3	11.9	12.9	12.4	10.3	8.3	8.3	9.3
125°	7.3	7.3	7.8	9.3	10.8	11.9	10.8	8.8	7.8	7.8	8.3
127.5°	7.3	7.3	7.3	8.3	9.8	10.3	9.8	7.8	6.8	6.8	7.8
130°	6.8	6.8	7.3	7.8	8.8	9.3	8.3	6.8	6.2	6.2	7.3
132.5°	6.8	6.8	6.8	6.8	7.3	7.8	6.8	5.2	5.7	5.7	6.2
135°	6.2	6.2	6.2	6.2	6.8	6.8	5.7	4.7	5.2	5.2	5.7
137.5°	5.7	5.7	5.7	5.7	5.7	5.2	4.7	4.1	4.7	4.7	5.2
140°	5.2	5.2	5.2	4.7	4.1	4.1	3.6	3.1	3.6	3.6	4.1
142.5°	4.7	4.7	4.7	4.1	3.6	3.1	2.6	2.6	3.1	3.1	3.6
145°	4.1	4.1	3.6	3.1	2.6	2.0	1.5	2.0	2.6	2.6	3.1
147.5°	3.1	3.1	3.1	2.6	1.5	1.0	1.0	1.5	2.0	2.0	2.0
150°	2.6	2.6	2.6	2.0	1.0	0.5	0.5	1.0	1.0	1.0	1.5
152.5°	1.5	1.5	1.5	1.5	0.5	0.0	0.0	0.5	1.0	1.0	1.0
155°	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0
162.5°	0.0	0.0	0.0	0.5	0.5	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°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
2.5°	119.5	119.0	117.9	116.9	115.9	114.9	113.9	113.3	112.2	112.2	112.2
5°	125.7	124.2	122.0	120.0	117.9	116.4	114.9	113.3	112.2	111.7	111.2
7.5°	137.1	135.0	131.4	128.3	124.7	121.5	119.0	116.9	115.9	115.4	115.4
10°	152.6	150.1	145.4	139.1	135.0	130.3	126.2	123.7	121.5	121.0	120.5
12.5°	173.3	170.7	163.0	156.2	148.4	141.3	136.6	133.5	132.0	131.4	131.4
15°	202.7	199.7	187.3	175.8	163.5	154.7	148.4	145.9	146.4	147.9	146.4
17.5°	239.5	234.9	220.3	201.7	183.1	169.7	164.0	164.5	166.5	168.2	167.7
20°	285.1	278.3	258.2	231.8	206.4	188.3	182.6	183.1	185.8	190.4	189.9
22.5°	338.3	328.0	302.1	266.4	230.8	210.0	199.7	201.2	206.9	211.5	211.5
25°	396.8	387.5	350.8	303.2	258.7	228.1	215.2	217.3	225.6	230.8	232.3
27.5°	466.2	451.6	406.1	344.0	285.1	244.2	228.1	229.1	239.5	246.2	247.2
30°	540.1	523.0	466.2	384.9	308.3	256.6	235.9	237.9	249.4	257.1	258.7
32.5°	623.4	603.2	528.7	427.8	330.0	263.8	240.1	242.1	254.0	262.8	263.8
35°	716.0	686.5	596.0	467.2	344.5	266.4	240.1	242.6	254.0	262.8	264.3
37.5°	810.2	777.0	661.6	504.9	353.3	264.3	236.4	239.5	249.9	258.2	259.7
40°	919.8	877.4	733.6	535.9	356.4	258.7	230.2	233.8	242.6	249.4	250.4
42.5°	1045.0	985.0	809.1	562.3	351.8	251.4	224.0	228.1	235.4	240.1	240.6
45°	1174.9	1102.4	882.6	583.0	345.0	242.6	217.8	222.5	228.6	229.7	230.8
47.5°	1315.0	1234.3	962.7	595.5	333.2	233.3	213.2	217.8	222.0	221.4	222.0
50°	1470.3	1371.0	1044.4	600.6	319.7	225.6	209.5	214.7	217.8	215.2	215.2
52.5°	1621.8	1520.4	1119.0	602.7	304.7	218.3	206.9	213.2	214.7	212.1	212.1
55°	1783.2	1658.5	1193.5	597.0	289.7	212.7	205.9	212.7	213.7	210.0	210.0
57.5°	1932.3	1806.0	1260.7	588.2	275.7	207.5	204.4	212.1	213.2	210.0	210.5
60°	2069.3	1931.1	1313.0	573.7	260.8	202.2	203.3	212.1	213.2	211.0	212.1
62.5°	2153.1	2014.0	1340.4	551.0	246.2	197.6	201.7	211.0	213.2	211.5	212.7
65°	2189.3	2043.4	1336.8	518.3	232.3	191.9	198.7	209.0	211.5	211.5	212.7
67.5°	2161.9	2016.5	1284.0	476.5	219.3	186.3	194.6	204.9	208.5	209.5	211.0
70°	2060.0	1905.3	1177.9	423.7	205.4	180.0	189.3	199.2	203.3	205.4	206.4
72.5°	1856.7	1718.6	1027.5	370.9	190.9	172.3	181.6	190.9	195.6	198.1	198.1
75°	1598.6	1460.4	845.8	315.1	177.5	163.5	172.3	180.0	185.2	187.8	186.8
77.5°	1286.1	1157.3	657.0	258.2	163.0	153.1	161.4	168.2	172.3	174.3	171.8
80°	952.9	870.6	493.6	213.2	148.4	141.3	147.9	153.6	158.3	157.7	155.7
82.5°	675.7	598.0	345.6	177.0	134.0	128.3	133.5	137.1	140.1	139.1	135.5
85°	450.1	399.4	244.2	144.3	119.0	114.4	117.4	119.5	121.0	118.5	115.9
87.5°	292.8	260.8	175.8	119.0	102.9	99.8	101.4	101.9	102.4	99.8	96.8
90°	191.4	178.0	130.8	98.3	88.5	86.4	86.4	84.3	84.8	81.7	78.7
92.5°	135.0	126.7	101.9	80.7	75.5	74.0	73.4	70.9	70.4	67.2	65.2
95°	100.9	97.3	82.2	68.3	64.1	63.6	62.6	60.0	57.9	54.8	53.8
97.5°	78.7	77.1	67.7	58.4	55.3	54.3	53.8	50.7	49.1	46.0	45.0
100°	62.6	62.6	56.9	50.2	47.6	47.1	46.5	43.5	41.9	38.8	38.3
102.5°	50.2	50.7	47.6	43.5	41.4	40.3	39.3	37.2	34.7	32.6	32.6
105°	39.3	40.3	39.3	36.7	35.7	34.7	33.7	31.5	28.9	26.9	26.9
107.5°	31.0	32.1	32.1	31.5	30.0	29.5	28.9	26.4	24.3	22.2	22.2
110°	23.8	25.4	26.4	26.4	26.4	25.4	24.3	22.8	20.2	18.6	18.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.1	20.2	21.7	22.2	22.2	22.2	21.2	18.6	16.6	15.5	16.1
115°	15.5	16.6	18.1	19.1	19.1	19.1	17.6	16.1	14.0	13.4	13.4
117.5°	12.9	14.0	15.0	16.6	16.6	16.6	15.5	13.4	11.4	11.4	11.4
120°	11.4	11.9	13.4	14.0	14.5	14.5	13.4	11.4	9.8	9.8	10.3
122.5°	9.8	10.3	11.4	12.4	12.9	12.4	11.4	9.3	8.3	8.8	8.8
125°	8.8	9.3	9.8	10.8	11.4	10.8	9.8	7.8	7.3	7.8	7.8
127.5°	8.3	8.3	8.8	9.3	9.8	9.3	8.3	6.8	6.2	7.3	7.3
130°	7.3	7.8	7.8	8.3	8.3	8.3	7.3	5.7	5.7	6.2	6.2
132.5°	6.8	6.8	6.8	7.3	7.3	6.8	5.7	4.7	5.2	5.7	5.7
135°	5.7	6.2	6.2	6.2	6.2	5.7	4.7	4.1	4.7	5.2	5.2
137.5°	5.2	5.2	5.2	5.2	5.2	4.7	4.1	3.6	4.1	4.1	4.1
140°	4.1	4.7	4.7	4.1	4.1	3.6	3.1	2.6	3.1	3.6	3.6
142.5°	3.6	3.6	3.6	3.6	3.1	2.6	2.0	2.0	2.6	2.6	2.6
145°	3.1	3.1	3.1	2.6	2.0	2.0	1.5	1.5	2.0	2.0	2.6
147.5°	2.0	2.0	2.0	2.0	1.5	1.5	1.0	1.0	1.5	1.5	1.5
150°	1.5	1.5	1.5	1.5	1.0	1.0	1.0	0.5	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)