

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: P266383

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266383
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-AF24-50-D-U-T3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 4461.8 lumens
Efficiency: N/A
Efficacy: 82.6 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: B1 - U3 - G3

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

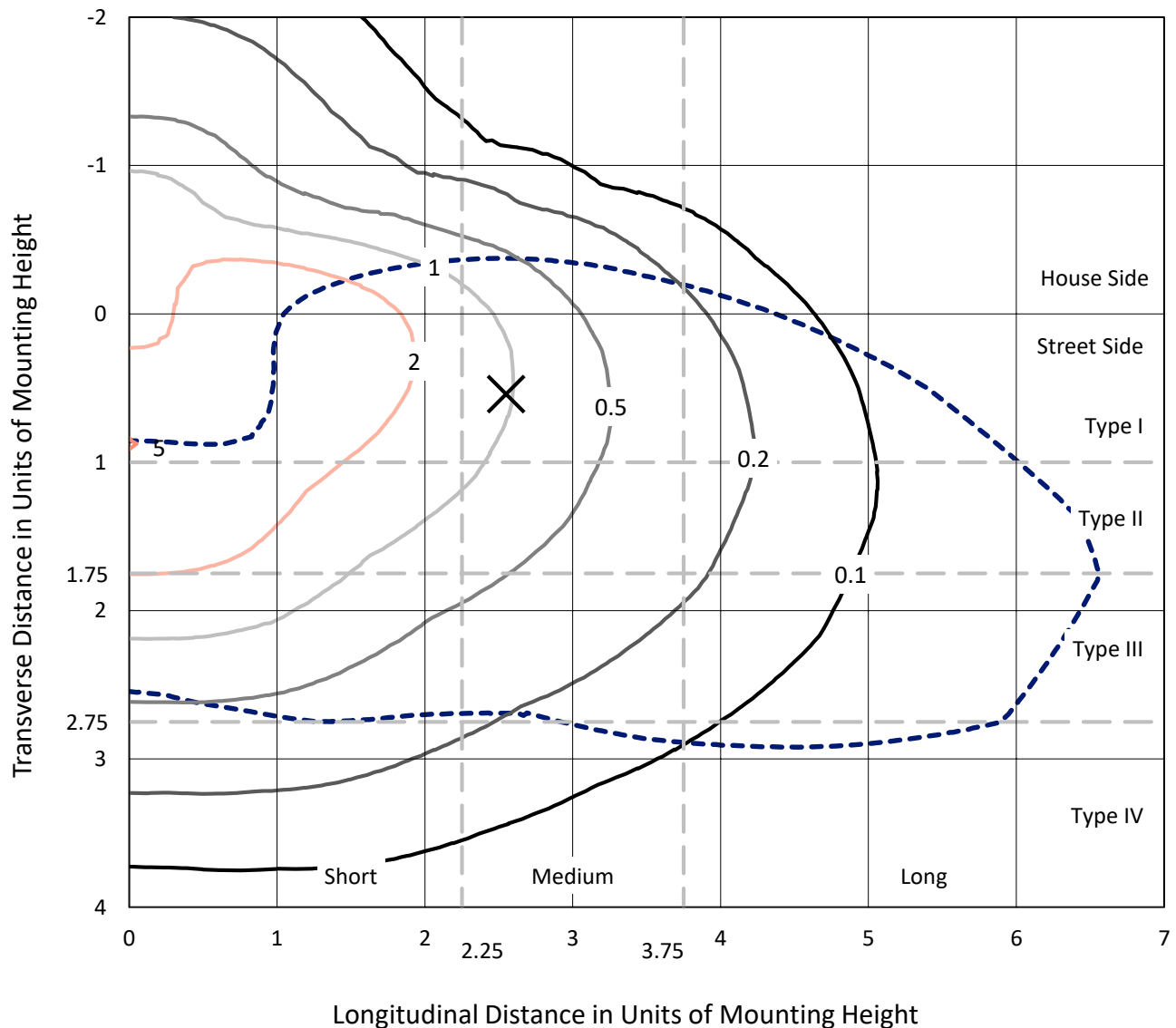


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

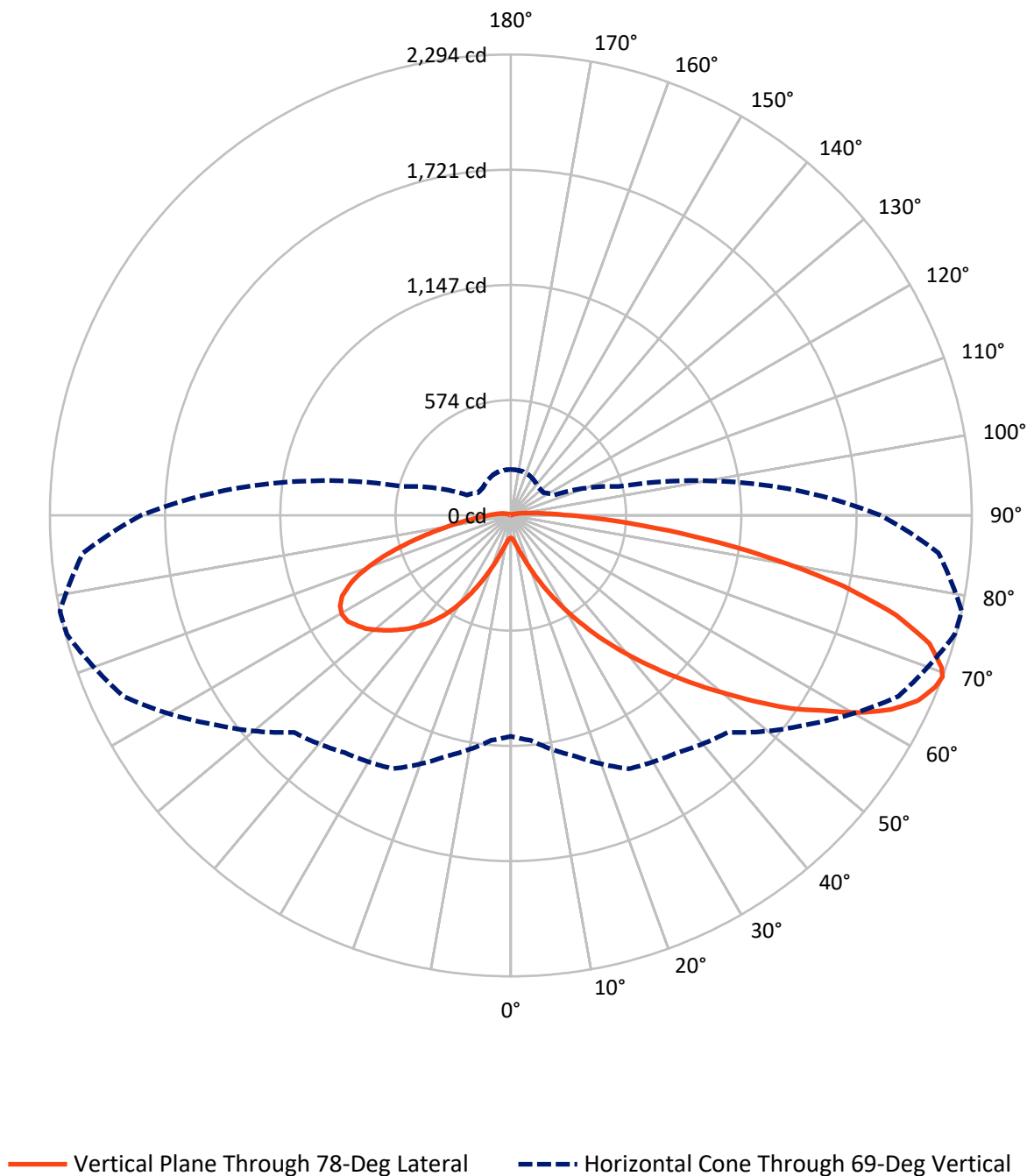


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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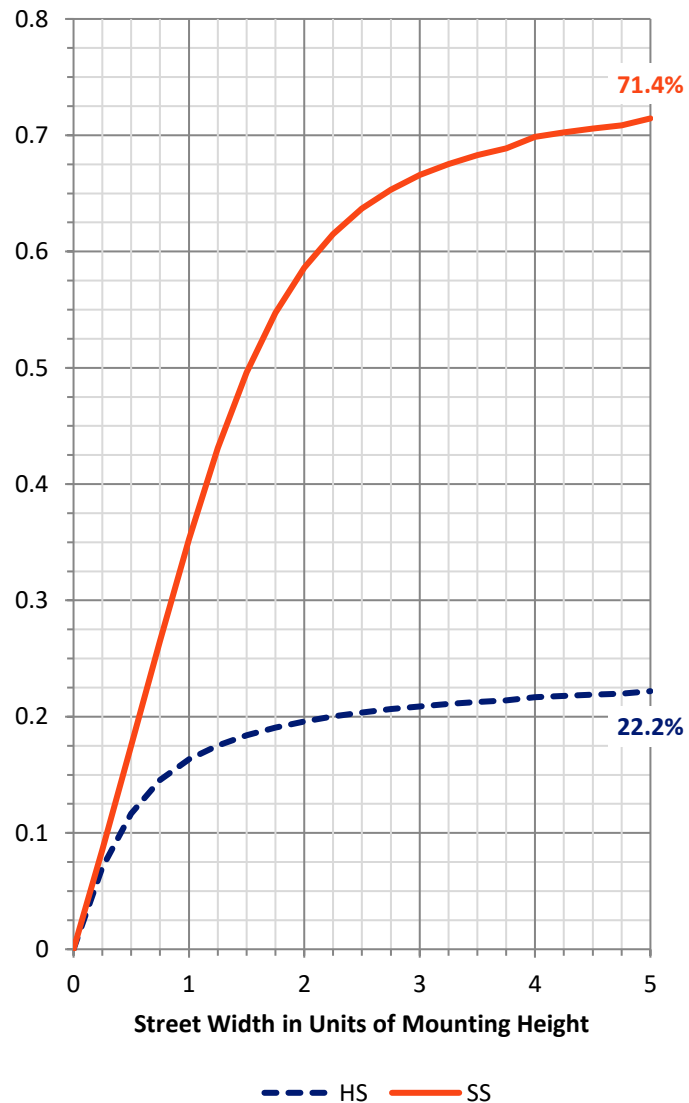
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.5	77.9	1114.4
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	3261.9	85.6	3347.5
	% Fixture	73.1	1.9	75.0
Total	Lumens	4298.4	163.4	4461.8
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.3
10°-20°	57.3	1.3
20°-30°	163.5	3.7
30°-40°	347.5	7.8
40°-50°	602.3	13.5
50°-60°	901.8	20.2
60°-70°	1073.3	24.1
70°-80°	818.7	18.3
80°-90°	321.6	7.2
90°-100°	94.4	2.1
100°-110°	38.2	0.9
110°-120°	17.2	0.4
120°-130°	8.3	0.2
130°-140°	3.9	0.1
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4298.4	96.3
0°-180°	4461.8	100.0

Coefficient of Utilization



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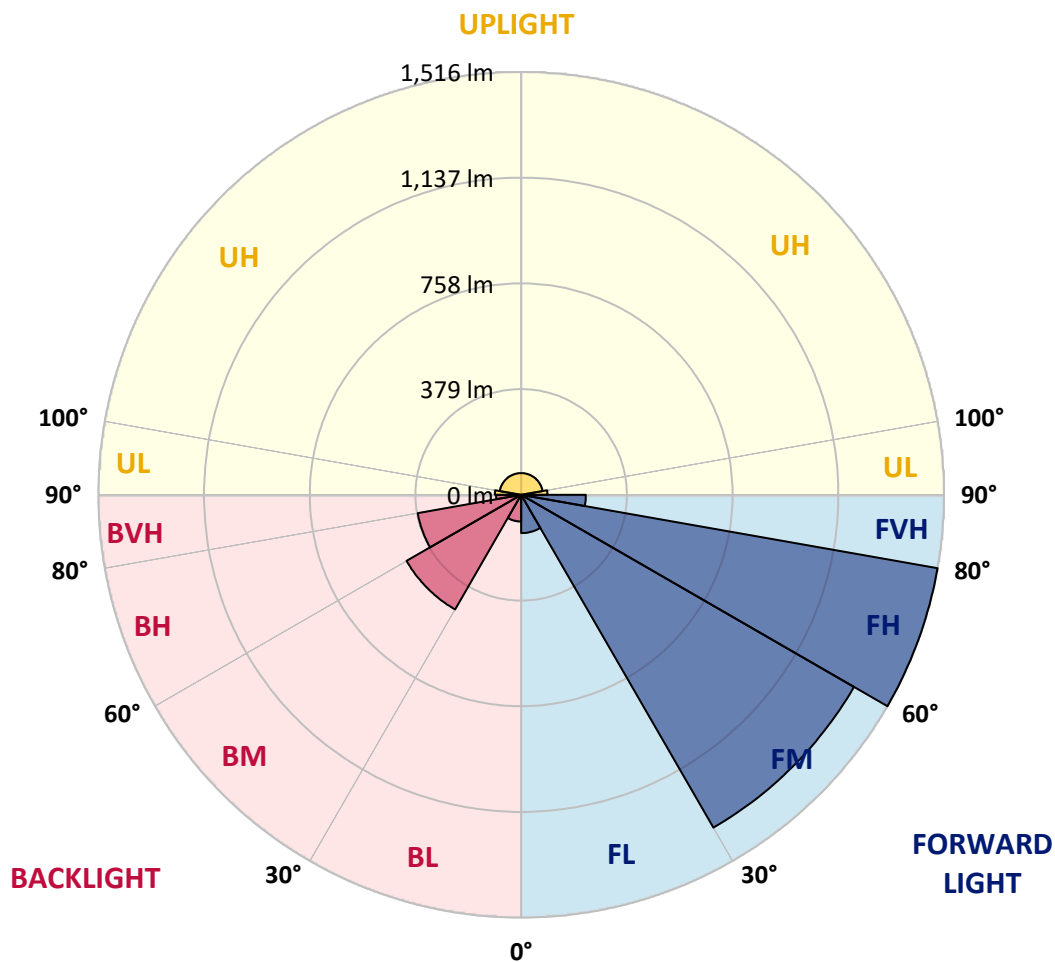
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.3	3.1			
FM	(30°-60°)	1377.3	30.9			
FH	(60°-80°)	1515.6	34.0			G1/1800
FVH	(80°-90°)	231.8	5.2			G3/500
BL	(0°-30°)	95.8	2.1	B0/110		
BM	(30°-60°)	474.3	10.6	B1/1000		
BH	(60°-80°)	376.5	8.4	B1/500		G1/500
BVH	(80°-90°)	89.9	2.0			G1/100
UL	(90°-100°)	94.4	2.1		U3/500	
UH	(100°-180°)	77.9	1.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	121.1	121.1	120.6	120.6	120.0	118.8	117.1	116.1	115.5	115.5	114.4
5°	134.7	134.7	133.5	133.5	131.8	130.2	127.9	125.0	123.3	122.8	121.1
7.5°	152.6	152.2	151.5	149.8	148.1	144.7	141.9	139.1	135.7	135.1	132.9
10°	175.8	174.6	174.6	172.4	169.1	165.1	160.0	156.0	152.6	152.2	149.8
12.5°	206.3	205.1	203.3	198.9	193.8	187.6	183.1	179.1	175.8	174.6	171.8
15°	242.3	241.6	237.2	231.6	222.5	214.7	209.6	206.3	205.1	203.9	201.1
17.5°	287.3	284.5	279.9	268.8	256.8	245.5	241.0	241.6	242.3	242.3	239.9
20°	337.5	336.2	329.5	314.3	298.0	284.0	279.9	283.3	287.8	287.8	287.3
22.5°	403.2	399.9	387.6	366.1	343.1	329.0	323.3	330.7	343.1	343.6	345.8
25°	475.5	474.2	454.6	423.0	393.7	376.8	372.8	381.9	404.4	406.2	412.3
27.5°	555.4	552.5	534.6	490.0	451.8	427.0	425.3	445.0	469.3	477.7	486.7
30°	652.3	649.5	615.1	563.9	517.2	484.5	484.9	510.3	547.5	554.9	567.8
32.5°	752.6	749.7	714.2	650.1	588.1	547.5	548.7	586.5	629.3	638.2	652.3
35°	868.0	867.0	820.2	741.3	662.9	614.0	622.4	662.4	715.4	730.1	742.4
37.5°	993.0	980.7	935.0	843.2	745.2	691.8	698.0	751.4	814.0	820.7	833.1
40°	1118.7	1115.9	1061.3	958.1	839.8	773.4	781.9	842.2	909.8	922.1	928.8
42.5°	1251.1	1249.9	1185.8	1073.0	937.9	863.5	871.4	940.2	1015.7	1027.4	1030.8
45°	1392.0	1384.0	1320.4	1194.1	1051.0	959.3	973.4	1044.4	1133.3	1143.0	1144.6
47.5°	1513.0	1502.9	1455.0	1323.7	1161.5	1063.0	1073.7	1162.0	1255.7	1265.7	1261.8
50°	1622.2	1617.8	1569.3	1453.3	1282.6	1167.6	1182.9	1279.2	1384.6	1397.0	1393.0
52.5°	1693.8	1691.0	1671.2	1559.2	1389.0	1274.8	1296.2	1400.9	1525.4	1543.5	1522.5
55°	1729.3	1729.3	1733.3	1652.2	1486.5	1376.2	1409.4	1536.1	1671.8	1697.2	1668.0
57.5°	1726.5	1723.0	1755.7	1715.9	1561.4	1457.8	1522.5	1679.7	1822.2	1832.5	1817.2
60°	1662.4	1673.1	1730.5	1737.9	1615.0	1530.5	1630.8	1812.7	1965.9	1992.9	1946.7
62.5°	1559.7	1580.1	1664.0	1712.3	1629.6	1582.4	1723.7	1929.3	2099.3	2126.9	2061.2
65°	1418.3	1439.3	1542.3	1635.9	1600.3	1599.7	1787.4	2035.7	2205.9	2225.6	2137.2
67.5°	1241.0	1247.7	1366.5	1501.2	1517.5	1573.3	1817.8	2109.0	2283.0	2279.7	2164.1
69°	1099.5	1123.8	1241.0	1391.4	1442.0	1527.1	1812.2	2129.3	2287.5	2294.4	2137.2
70°	1028.0	1032.5	1148.0	1300.7	1389.0	1485.3	1792.9	2124.8	2280.2	2275.1	2106.2
72.5°	798.2	807.1	913.0	1079.3	1201.6	1346.9	1699.0	2048.8	2191.8	2178.7	1946.7
75°	569.4	584.6	682.2	838.2	982.9	1166.0	1525.4	1885.4	2009.9	1980.0	1717.5
77.5°	388.6	404.4	477.1	620.2	764.4	963.8	1286.6	1638.1	1723.7	1692.6	1403.7
80°	249.5	260.2	317.7	430.9	568.4	740.2	1024.6	1312.5	1388.5	1333.4	1073.0
82.5°	165.1	171.8	211.8	291.8	397.7	545.8	759.8	980.7	1014.5	979.6	752.1
85°	111.5	116.1	144.7	198.3	278.8	384.1	537.9	682.2	709.8	661.3	501.3
87.5°	76.6	81.0	104.3	138.6	193.8	268.1	360.5	458.6	450.1	427.6	327.3
90°	54.6	58.6	74.9	98.5	136.9	186.5	240.6	290.2	289.0	266.9	208.9
92.5°	39.4	42.8	57.0	73.8	101.4	130.8	162.2	182.5	182.5	173.6	138.6
95°	29.9	32.1	43.4	56.4	76.0	96.8	113.2	124.0	121.7	115.0	100.3
97.5°	23.6	25.3	34.3	45.6	60.2	74.9	84.5	85.6	83.9	81.7	74.4
100°	19.8	20.8	28.7	38.3	50.1	60.8	65.3	63.7	61.4	60.8	57.0
102.5°	16.9	17.4	24.9	33.2	42.8	50.8	52.5	49.5	46.7	46.3	44.5
105°	15.2	15.2	21.4	28.7	36.7	42.2	43.4	40.0	36.0	34.9	34.3
107.5°	13.6	14.1	18.5	25.3	31.5	36.0	36.0	32.1	27.6	26.5	26.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	12.3	12.3	16.3	22.5	27.6	31.0	30.5	26.0	21.4	20.3	20.8
112.5°	11.3	11.3	14.6	19.8	24.3	26.5	25.3	20.8	16.9	16.3	16.3
115°	10.7	10.7	12.9	17.4	20.8	22.5	21.4	16.9	13.6	12.9	13.6
117.5°	9.6	10.2	11.9	15.2	18.1	19.8	18.1	14.1	11.3	10.7	11.9
120°	9.1	9.6	10.7	12.9	15.8	16.9	14.6	11.9	9.6	9.6	10.2
122.5°	8.4	9.1	9.6	11.9	13.6	14.1	12.3	9.6	7.8	8.4	9.1
125°	8.4	8.4	9.1	10.2	11.9	11.9	10.2	7.8	7.4	7.4	7.8
127.5°	7.8	7.8	7.8	9.1	10.2	10.2	8.4	6.7	6.2	6.7	7.4
130°	7.4	7.4	7.4	7.8	8.4	8.4	7.4	5.6	5.6	5.6	6.2
132.5°	6.7	6.7	6.7	6.7	7.4	6.7	5.6	4.5	5.1	5.1	5.6
135°	6.2	6.2	6.2	6.2	5.6	5.1	4.0	4.0	4.5	4.5	5.1
137.5°	5.6	5.6	5.6	5.1	4.5	4.0	3.4	3.4	4.0	4.0	4.5
140°	5.1	5.1	5.1	4.0	3.4	2.9	2.2	2.2	3.4	3.4	3.4
142.5°	4.5	4.5	4.0	3.4	2.9	1.6	1.1	1.6	2.2	2.2	2.9
145°	3.4	3.4	3.4	2.9	1.6	1.1	0.5	1.1	1.6	1.6	2.2
147.5°	2.9	2.9	2.9	2.2	1.1	0.5	0.5	0.5	1.1	1.1	1.6
150°	2.2	2.2	1.6	1.6	0.5	0.0	0.0	0.5	0.5	1.1	1.1
152.5°	1.6	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.5	0.5	0.5
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	113.7	113.2	112.6	111.5	111.0	109.9	108.8	107.5	107.5	107.5	107.0
5°	120.6	119.5	117.8	115.5	113.7	112.1	110.4	108.8	108.2	107.5	107.5
7.5°	131.2	130.2	126.8	124.0	120.6	118.2	115.5	114.4	113.2	112.6	112.6
10°	147.6	145.3	140.9	136.4	132.4	127.9	125.0	123.3	121.7	121.1	121.7
12.5°	169.6	165.6	160.0	153.3	146.5	140.9	137.4	135.7	135.1	134.7	134.7
15°	200.0	197.2	185.9	174.0	164.5	156.7	152.2	150.3	153.8	154.9	154.9
17.5°	239.4	234.4	220.9	204.5	184.7	173.0	169.6	172.4	175.2	178.6	179.1
20°	288.4	279.9	262.5	236.1	209.6	192.6	189.8	193.2	200.0	204.5	205.1
22.5°	342.0	336.2	309.2	269.9	234.4	214.7	208.4	213.4	224.1	230.3	231.0
25°	410.6	401.6	361.1	307.0	260.2	232.7	225.4	232.7	245.5	255.2	255.7
27.5°	485.5	471.5	418.5	344.2	282.2	247.8	238.8	248.4	265.9	277.1	278.3
30°	563.2	543.6	475.5	379.2	301.9	258.1	248.4	260.2	279.9	292.8	294.6
32.5°	645.0	621.3	527.8	409.4	314.9	263.7	253.5	267.5	288.4	301.9	303.5
35°	728.3	698.5	576.8	431.5	321.1	264.7	254.0	269.9	290.2	304.2	305.9
37.5°	816.2	772.4	619.7	446.6	322.2	261.3	251.7	267.5	286.6	299.7	300.8
40°	901.3	844.3	655.7	453.5	318.3	256.2	246.1	262.5	278.8	288.4	289.6
42.5°	994.9	922.1	687.3	453.5	310.4	250.1	239.9	255.2	268.1	274.9	275.4
45°	1090.0	999.9	711.9	447.9	300.3	242.3	233.7	247.4	257.5	260.2	260.2
47.5°	1199.9	1081.5	735.2	438.3	289.0	234.4	227.6	239.9	247.4	247.4	247.8
50°	1310.3	1167.2	752.6	424.7	276.0	227.6	222.5	234.4	239.9	236.6	236.6
52.5°	1429.7	1255.0	768.9	407.2	264.2	221.4	219.1	231.6	235.4	230.3	229.2
55°	1550.1	1337.8	772.4	385.4	250.6	216.3	217.4	229.2	233.2	227.6	227.0
57.5°	1679.2	1422.8	771.7	360.0	238.8	212.4	215.8	228.7	232.7	227.0	226.5
60°	1779.0	1489.8	753.7	333.5	228.1	208.4	215.1	228.1	232.7	228.1	228.1
62.5°	1869.1	1529.4	719.9	305.3	218.0	205.6	213.4	227.0	231.6	229.2	229.2
65°	1910.2	1540.7	668.1	277.7	209.6	202.2	212.4	225.4	230.3	229.8	230.3
67.5°	1884.9	1488.2	599.3	253.0	201.7	198.3	209.6	222.5	228.1	229.2	229.8
69°	1840.8	1429.7	556.5	239.9	197.2	195.6	207.2	219.6	226.5	228.1	228.1
70°	1802.0	1379.4	521.0	232.1	193.8	193.8	206.3	218.0	224.8	226.5	227.0
72.5°	1613.8	1216.1	440.4	211.2	186.5	188.1	200.5	212.4	219.6	221.4	221.4
75°	1382.9	997.6	358.9	193.8	178.0	181.9	193.8	205.1	211.8	213.4	212.9
77.5°	1101.2	773.4	291.2	178.6	168.4	172.4	184.7	195.6	202.2	203.3	201.1
80°	821.9	563.9	236.1	162.9	157.2	162.2	173.6	182.5	189.3	189.8	186.5
82.5°	569.4	407.2	192.1	147.6	144.7	148.7	158.8	166.7	173.0	171.2	169.6
85°	379.7	279.5	157.2	130.8	130.8	135.1	142.6	147.6	153.8	151.5	148.1
87.5°	250.1	192.6	128.9	114.4	115.5	119.5	125.0	126.8	132.4	130.8	126.8
90°	169.6	138.6	105.9	98.5	100.3	104.3	107.0	107.0	111.0	108.2	106.4
92.5°	120.6	105.9	88.5	85.1	86.7	90.1	90.6	88.5	91.7	90.1	87.9
95°	90.6	83.4	74.9	73.2	75.5	77.8	77.2	73.8	74.9	73.8	73.2
97.5°	70.3	68.1	63.7	62.5	64.8	66.5	65.3	61.4	62.0	60.8	59.6
100°	57.0	55.2	54.1	54.1	55.8	56.4	54.6	51.3	50.8	49.0	49.5
102.5°	45.0	45.0	45.6	46.7	47.9	47.9	45.6	42.8	41.7	40.0	40.0
105°	35.6	36.0	38.3	38.8	40.0	40.0	37.8	35.6	33.2	31.5	31.5
107.5°	27.6	28.7	31.0	32.7	33.7	33.2	31.5	29.3	26.5	24.9	24.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.0	23.0	25.3	27.6	28.1	28.1	26.5	23.6	20.3	19.8	19.8
112.5°	18.1	18.5	21.4	23.0	23.6	23.6	22.0	19.8	16.3	15.8	15.8
115°	14.6	15.2	17.4	19.1	19.8	19.8	18.5	16.3	12.9	12.9	12.9
117.5°	12.3	12.9	14.6	16.3	16.9	16.9	15.2	12.9	10.7	10.7	10.7
120°	10.7	11.3	12.3	13.6	14.1	14.1	12.9	10.7	9.1	9.1	9.1
122.5°	9.6	10.2	10.7	11.9	12.3	12.3	10.7	8.4	7.8	7.8	7.8
125°	8.4	9.1	9.6	10.2	10.7	10.2	9.1	7.4	6.7	7.4	7.4
127.5°	7.4	7.8	8.4	8.4	9.1	8.4	7.4	6.2	5.6	6.2	6.2
130°	6.7	6.7	7.4	7.4	7.8	7.4	6.2	5.1	5.1	5.6	5.6
132.5°	6.2	6.2	6.2	6.2	6.7	6.2	5.1	4.0	4.5	5.1	5.1
135°	5.1	5.1	5.6	5.1	5.6	4.5	4.0	3.4	4.0	4.5	4.5
137.5°	4.5	4.5	4.5	4.5	4.0	4.0	2.9	2.9	3.4	4.0	3.4
140°	4.0	4.0	4.0	3.4	3.4	2.9	2.2	2.2	2.9	2.9	2.9
142.5°	2.9	2.9	2.9	2.9	2.2	1.6	1.1	1.6	1.6	2.2	2.2
145°	2.2	2.2	2.2	1.6	1.1	1.1	0.5	1.1	1.1	1.6	1.6
147.5°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.5	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.5	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)