

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: P240473

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240473
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 5726.2 lumens
Efficiency: N/A
Efficacy: 89.5 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): 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

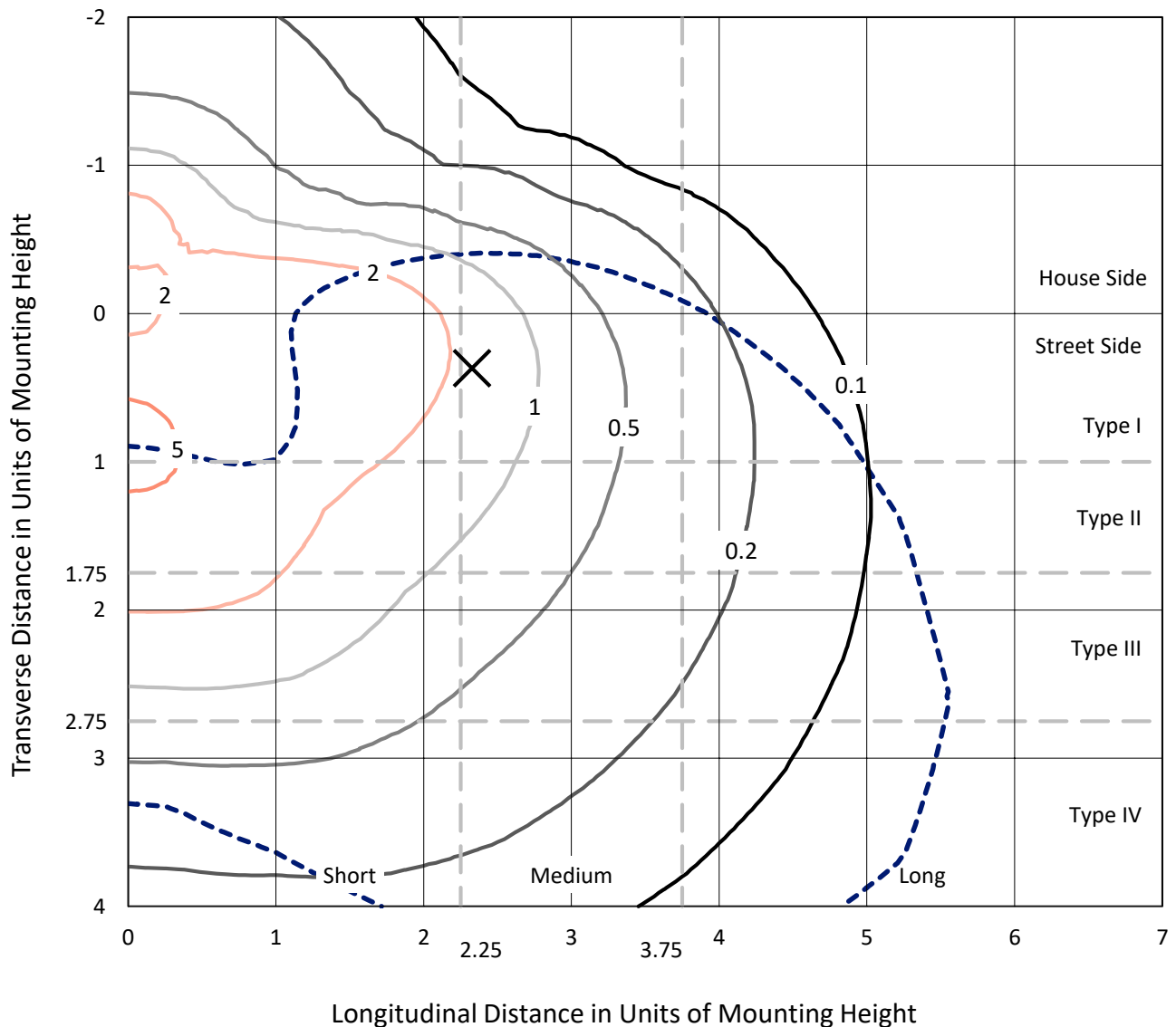


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

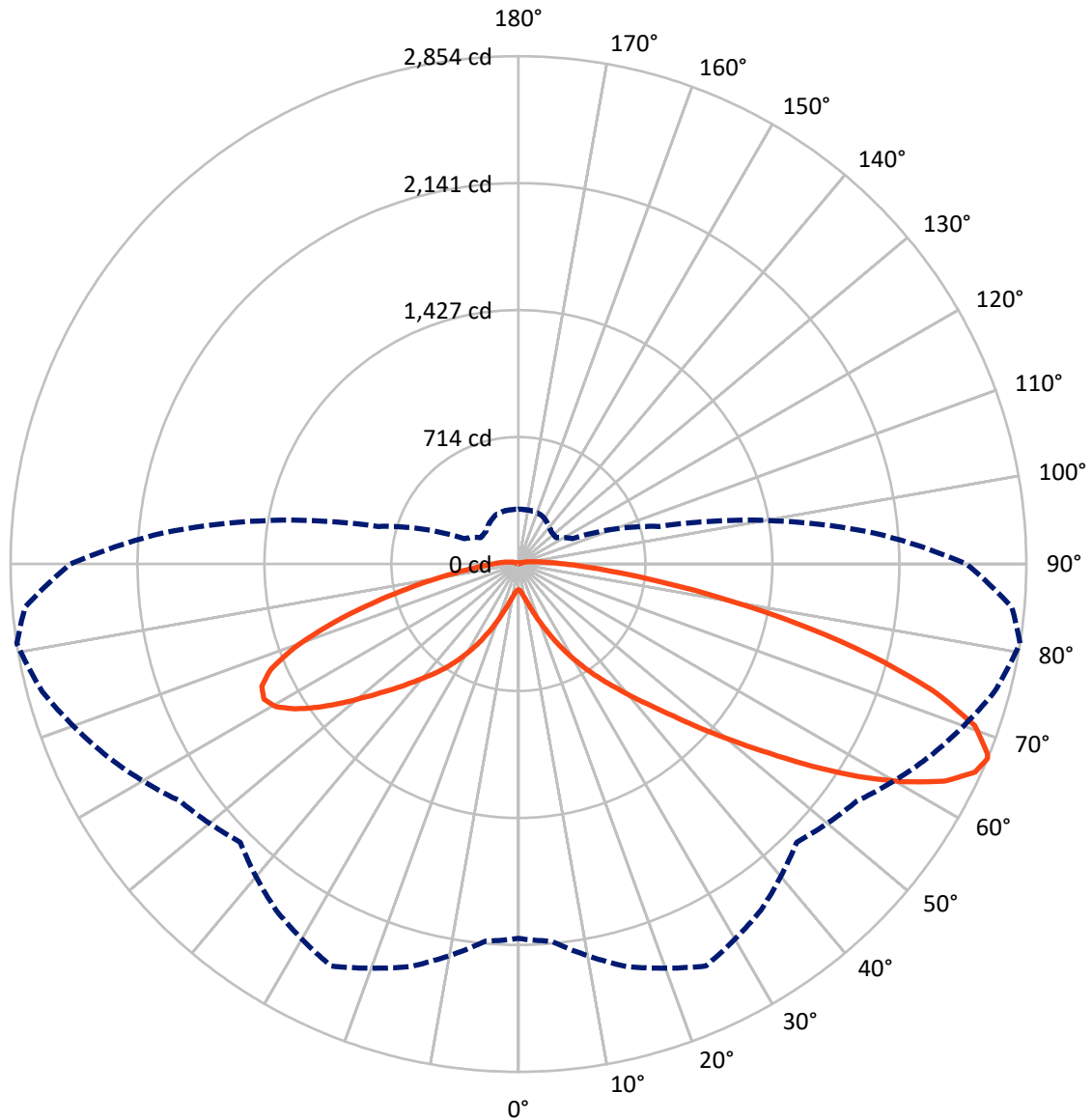


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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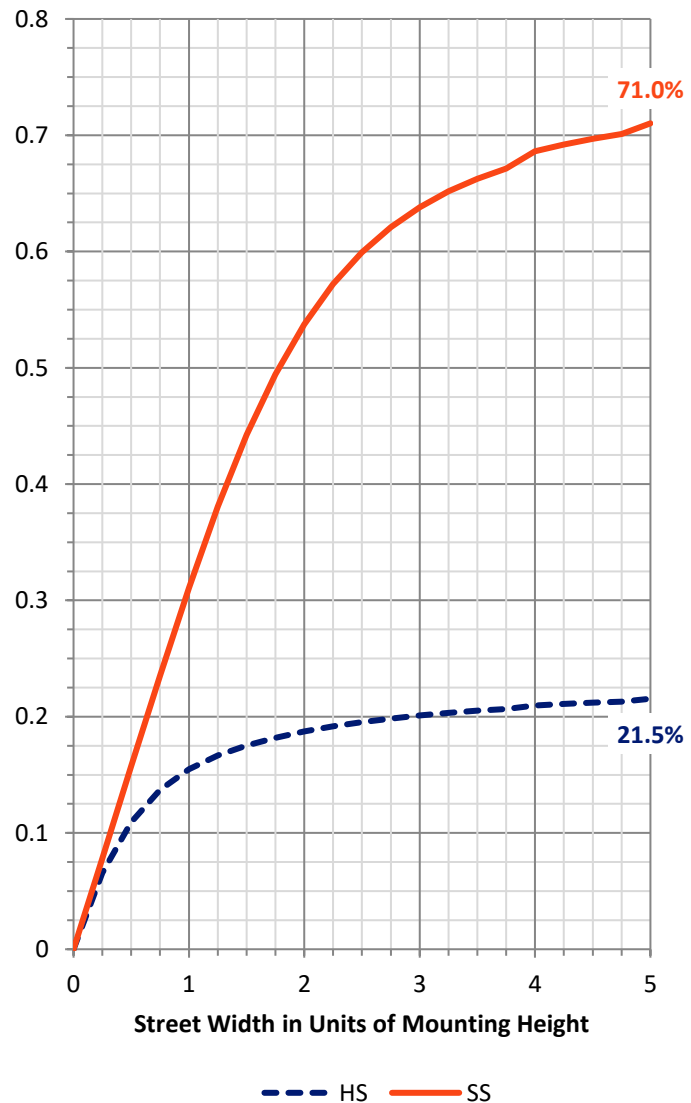
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.4	104.7	1406.1
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4200.6	119.6	4320.2
	% Fixture	73.4	2.1	75.4
Total	Lumens	5501.9	224.3	5726.2
	% Fixture	96.1	3.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.3
10°-20°	72.3	1.3
20°-30°	195.3	3.4
30°-40°	392.0	6.8
40°-50°	662.5	11.6
50°-60°	1059.2	18.5
60°-70°	1447.3	25.3
70°-80°	1193.0	20.8
80°-90°	464.4	8.1
90°-100°	133.7	2.3
100°-110°	51.2	0.9
110°-120°	22.2	0.4
120°-130°	10.6	0.2
130°-140°	4.9	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5501.9	96.1
0°-180°	5726.2	100.0



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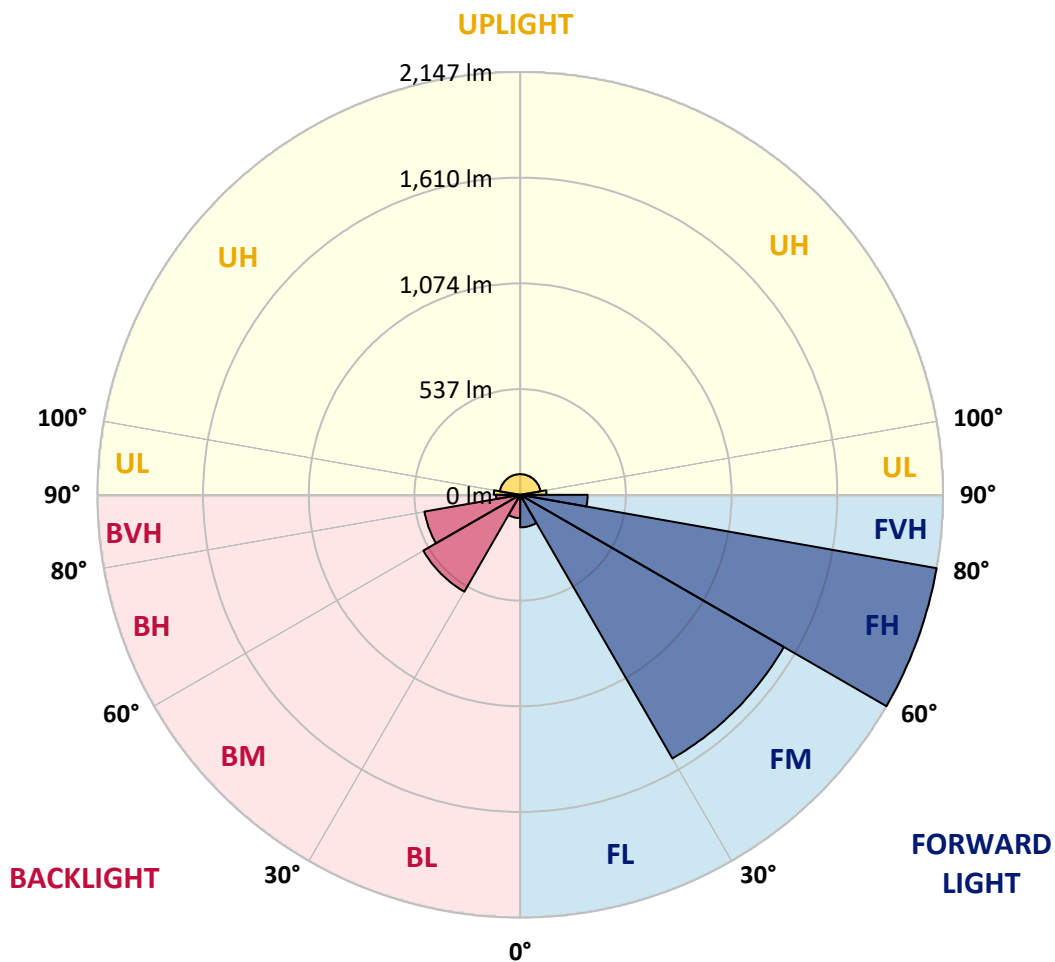
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.4	2.9			
FM	(30°-60°)	1546.0	27.0			
FH	(60°-80°)	2147.1	37.5			G2/5000
FVH	(80°-90°)	342.1	6.0			G3/500
BL	(0°-30°)	118.2	2.1	B1/500		
BM	(30°-60°)	567.7	9.9	B1/1000		
BH	(60°-80°)	493.2	8.6	B1/500		G1/500
BVH	(80°-90°)	122.3	2.1			G2/225
UL	(90°-100°)	133.7	2.3		U3/500	
UH	(100°-180°)	104.7	1.8		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°	81°	85°
0°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
2.5°	156.7	156.7	156.7	155.9	155.2	153.7	152.3	150.9	150.1	149.3	148.7
5°	172.7	173.5	172.7	172.0	169.8	167.6	164.7	162.5	159.6	158.1	157.5
7.5°	196.7	196.7	196.0	192.4	190.2	186.7	182.9	178.5	175.7	173.5	170.6
10°	227.4	225.9	224.4	220.8	215.7	209.9	205.5	200.4	195.3	193.8	190.9
12.5°	263.9	263.9	260.1	255.1	245.7	239.9	232.5	226.6	221.6	218.6	217.2
15°	312.7	310.6	304.0	295.9	284.2	272.6	264.5	260.1	255.1	255.1	249.9
17.5°	362.2	364.4	354.2	341.8	325.8	311.2	301.8	301.0	298.9	297.3	296.6
20°	427.1	424.9	412.5	391.3	368.1	350.5	343.9	344.7	350.5	349.8	346.9
22.5°	497.0	497.0	478.1	449.7	416.9	395.7	389.2	395.7	408.1	408.1	409.6
25°	580.1	577.2	553.2	510.1	470.8	443.1	440.2	450.3	472.2	476.0	474.4
27.5°	673.4	663.2	631.8	578.6	526.9	495.6	490.5	509.4	539.3	549.5	553.2
30°	772.6	773.2	725.2	655.9	585.9	544.4	542.3	572.8	608.6	626.0	630.4
32.5°	886.9	883.3	827.9	741.3	650.8	596.9	594.7	637.0	682.1	704.7	707.7
35°	1029.1	1012.3	950.3	836.7	717.9	656.6	655.2	701.1	760.1	788.6	795.9
37.5°	1159.6	1150.7	1080.0	935.8	794.5	717.2	714.2	774.0	843.9	876.7	886.9
40°	1311.8	1301.6	1218.6	1053.8	885.4	787.1	785.7	853.5	934.2	975.9	984.7
42.5°	1461.3	1454.7	1365.0	1185.0	981.7	865.8	862.9	941.6	1037.1	1083.8	1094.7
45°	1621.6	1604.8	1518.0	1319.1	1088.8	956.9	958.3	1043.7	1161.8	1216.4	1227.3
47.5°	1758.6	1748.3	1675.5	1464.2	1206.9	1056.0	1058.1	1172.0	1315.5	1378.9	1384.0
50°	1908.0	1902.2	1830.0	1617.9	1349.1	1179.2	1182.8	1311.1	1484.5	1557.5	1582.9
52.5°	2031.9	2032.7	1977.9	1776.1	1488.9	1311.8	1322.8	1477.3	1668.2	1765.8	1781.2
55°	2152.9	2149.2	2117.1	1949.5	1655.1	1460.5	1473.0	1661.0	1887.6	2005.7	2026.1
57.5°	2240.4	2249.7	2253.5	2115.7	1816.1	1609.9	1650.7	1851.8	2126.6	2253.5	2271.6
60°	2300.8	2305.2	2356.1	2282.7	1990.3	1786.3	1839.5	2063.9	2351.2	2484.4	2496.1
62.5°	2295.0	2313.9	2413.0	2408.0	2159.4	1953.9	2021.8	2262.9	2546.4	2687.8	2690.0
65°	2217.0	2248.3	2414.5	2487.4	2299.4	2112.7	2200.3	2442.2	2706.8	2819.0	2789.8
67°	2104.0	2128.1	2341.7	2492.5	2375.2	2211.2	2322.0	2553.0	2770.2	2854.0	2783.3
67.5°	2056.7	2099.6	2314.6	2487.4	2383.2	2232.2	2341.7	2582.2	2783.3	2843.0	2767.2
70°	1828.6	1862.1	2103.3	2383.2	2386.1	2296.4	2423.3	2617.1	2733.6	2720.5	2583.6
72.5°	1519.6	1534.9	1799.4	2153.6	2276.8	2271.0	2399.3	2526.7	2525.3	2438.5	2272.4
75°	1151.5	1192.3	1430.6	1808.1	2048.6	2128.8	2245.4	2287.7	2187.2	2041.4	1840.3
77.5°	812.6	833.7	1044.4	1421.9	1731.6	1881.0	1963.4	1943.7	1758.6	1586.6	1404.4
80°	526.2	546.7	691.6	1018.9	1357.8	1517.4	1592.5	1534.1	1347.5	1145.7	992.6
82.5°	318.5	336.0	438.0	683.6	997.7	1176.2	1214.2	1158.0	950.3	782.8	662.4
85°	186.7	200.4	271.8	441.0	679.9	849.1	862.9	798.8	638.4	523.3	441.6
87.5°	113.7	121.0	172.0	282.0	451.1	572.8	601.3	541.5	430.1	349.8	297.3
90°	73.6	78.6	110.1	185.0	295.9	378.2	395.7	361.4	291.5	238.3	204.8
92.5°	50.3	55.4	76.5	123.9	194.6	250.7	261.6	237.6	196.0	167.6	149.3
95°	38.7	40.9	58.4	87.4	132.6	167.6	177.9	161.8	137.0	123.1	112.2
97.5°	31.3	32.8	46.7	67.7	96.1	120.3	124.7	113.0	101.3	92.6	87.4
100°	27.0	27.7	39.4	55.4	75.1	91.1	93.3	84.5	76.5	72.1	67.7
102.5°	24.0	24.8	34.3	47.4	61.1	72.1	72.1	65.5	58.4	55.4	53.2
105°	21.1	21.9	30.6	40.9	52.5	59.0	59.0	51.8	45.3	42.3	41.5
107.5°	18.9	19.6	26.2	35.7	44.5	49.6	48.8	41.5	34.3	31.3	31.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	17.5	17.5	23.3	31.3	37.9	42.3	40.1	33.6	26.2	24.0	24.8
112.5°	16.1	16.1	20.4	27.0	33.6	36.5	33.6	27.7	20.4	18.9	19.6
115°	15.3	15.3	18.2	24.0	29.2	30.6	28.4	22.6	16.7	15.3	16.1
117.5°	13.8	13.8	16.7	21.1	24.8	26.2	24.0	18.2	13.8	13.1	13.8
120°	13.1	13.1	14.5	18.2	21.9	22.6	20.4	15.3	11.7	11.7	12.3
122.5°	12.3	12.3	13.8	16.1	18.9	19.6	17.5	12.3	10.2	10.2	10.9
125°	12.3	12.3	12.3	14.5	16.1	16.7	14.5	10.9	9.5	9.5	10.2
127.5°	11.7	11.7	11.7	12.3	13.8	13.8	12.3	8.7	7.9	8.7	8.7
130°	10.9	10.9	10.9	11.7	12.3	11.7	10.2	7.3	7.3	7.9	7.9
132.5°	10.2	10.2	10.2	10.2	10.2	9.5	7.9	6.5	6.5	7.3	7.3
135°	9.5	9.5	9.5	8.7	8.7	7.9	6.5	5.1	5.8	6.5	6.5
137.5°	8.7	8.7	8.7	7.9	7.3	5.8	4.4	4.4	5.1	5.8	5.8
140°	7.9	7.9	7.3	6.5	5.8	4.4	2.9	3.6	4.4	4.4	5.1
142.5°	6.5	6.5	6.5	5.1	3.6	2.9	2.1	2.1	3.6	3.6	3.6
145°	5.8	5.8	5.1	4.4	2.9	1.4	0.8	1.4	2.1	2.9	2.9
147.5°	4.4	4.4	4.4	2.9	1.4	0.8	0.8	0.8	1.4	2.1	2.1
150°	3.6	3.6	2.9	2.1	0.8	0.0	0.0	0.8	1.4	1.4	1.4
152.5°	2.1	2.1	2.1	1.4	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	1.4	1.4	1.4	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°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
2.5°	147.9	147.2	146.5	145.0	144.3	142.8	141.4	140.6	140.0	140.0	140.0
5°	155.9	155.2	153.1	150.1	147.9	145.8	144.3	142.8	141.4	141.4	141.4
7.5°	169.2	167.6	163.3	160.3	156.7	153.7	151.6	149.3	148.7	148.7	147.9
10°	188.0	185.8	180.8	175.0	169.8	166.2	163.3	161.0	160.3	160.3	160.3
12.5°	212.8	209.9	201.9	194.6	186.7	181.5	177.9	177.1	177.9	177.9	177.1
15°	248.6	242.7	230.3	218.6	206.3	198.2	196.0	196.0	199.7	201.1	201.9
17.5°	291.5	284.2	267.4	248.6	229.6	218.6	217.2	221.6	229.6	233.3	232.5
20°	344.7	334.6	311.2	282.8	256.5	242.7	241.3	249.2	260.1	267.4	266.7
22.5°	404.5	395.0	360.0	318.5	282.0	266.0	263.9	277.0	293.0	301.0	304.0
25°	470.8	457.7	411.8	354.9	308.9	286.4	285.7	301.8	322.9	337.4	339.6
27.5°	542.9	527.6	467.2	391.3	332.3	303.2	302.4	324.3	353.5	371.7	372.5
30°	622.3	599.1	521.8	422.0	349.8	314.8	316.3	341.8	379.0	400.1	403.7
32.5°	701.1	674.9	571.4	451.9	361.4	320.6	322.9	354.9	395.7	422.8	425.6
35°	784.2	750.6	620.9	471.6	368.1	321.4	323.6	360.0	404.5	433.6	436.6
37.5°	867.9	827.9	662.4	486.1	368.1	317.1	319.9	358.6	403.7	433.6	435.8
40°	967.2	908.8	701.9	491.8	362.2	308.9	312.7	350.5	392.8	420.5	422.8
42.5°	1069.8	999.9	739.0	490.5	352.1	298.9	302.4	337.4	374.6	397.1	399.4
45°	1193.7	1108.6	777.0	486.1	339.6	287.9	290.1	321.4	352.7	368.8	371.7
47.5°	1346.1	1225.2	815.5	478.1	325.8	277.6	279.1	306.8	329.4	339.6	341.8
50°	1515.2	1362.9	857.8	467.2	312.7	268.2	270.4	293.0	308.9	313.3	314.1
52.5°	1715.6	1518.8	897.1	454.1	301.0	260.9	263.9	284.2	295.1	295.9	296.6
55°	1932.0	1689.3	932.1	438.0	289.3	255.7	261.6	280.6	287.9	287.2	287.9
57.5°	2158.0	1853.4	956.1	421.2	279.8	252.9	262.3	280.6	287.9	286.4	287.9
60°	2359.9	1994.0	959.9	399.4	272.6	252.9	266.7	285.7	292.3	292.3	293.7
62.5°	2503.4	2074.9	935.8	377.5	266.0	254.3	272.6	292.3	298.9	298.9	300.3
65°	2561.7	2073.4	883.3	354.2	260.9	256.5	278.4	299.6	304.7	304.7	306.2
67°	2518.0	2005.7	815.5	336.7	258.0	258.7	282.8	304.0	308.3	307.6	308.3
67.5°	2491.0	1981.6	801.0	331.6	257.3	258.7	283.5	304.7	308.9	308.3	308.3
70°	2268.0	1776.8	700.4	309.8	252.2	258.7	286.4	306.2	308.9	307.6	307.6
72.5°	1923.3	1486.7	587.4	287.9	246.4	256.5	284.9	304.0	305.4	303.2	303.2
75°	1529.7	1163.2	482.5	268.9	238.3	251.4	279.8	297.3	299.6	297.3	295.1
77.5°	1132.6	861.4	389.9	248.6	228.8	243.4	271.1	287.9	290.1	287.9	285.7
80°	790.1	612.2	314.1	228.2	216.5	231.7	258.7	273.2	276.2	274.8	271.1
82.5°	528.4	420.5	251.4	205.5	200.4	216.5	242.0	255.1	257.3	255.7	251.4
85°	360.8	293.0	207.7	181.5	182.9	198.2	220.0	230.3	232.5	230.3	225.9
87.5°	242.7	209.9	169.8	158.1	162.5	177.1	194.6	199.7	204.1	200.4	197.5
90°	175.7	158.1	137.0	134.8	142.1	154.5	166.2	166.9	172.7	171.3	165.4
92.5°	131.8	123.9	113.7	113.7	121.8	131.8	139.2	137.7	141.4	141.4	137.0
95°	104.3	99.9	94.7	96.9	104.3	111.6	113.7	110.8	114.4	115.2	113.7
97.5°	83.8	82.4	80.9	82.4	88.9	94.7	94.0	88.9	91.8	93.3	91.8
100°	67.7	67.0	67.7	70.7	75.8	79.4	77.2	72.1	74.3	74.3	74.3
102.5°	54.6	54.6	56.9	59.8	63.4	66.3	63.4	59.0	59.8	59.0	59.0
105°	43.0	43.7	46.7	50.3	53.2	54.6	51.8	47.4	46.7	44.5	45.3
107.5°	33.6	35.0	37.9	41.5	44.5	45.3	43.0	38.7	35.7	34.3	34.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.2	27.7	31.3	34.3	36.5	37.1	35.0	30.6	27.0	26.2	26.2
112.5°	21.1	22.6	25.4	28.4	30.6	30.6	28.4	24.8	20.4	19.6	19.6
115°	17.5	18.2	21.1	23.3	25.4	25.4	23.3	19.6	16.1	15.3	16.1
117.5°	14.5	15.3	17.5	19.6	21.1	21.1	18.9	15.3	12.3	12.3	12.3
120°	13.1	13.8	15.3	16.7	17.5	17.5	16.1	12.3	10.2	10.2	10.2
122.5°	11.7	11.7	13.1	13.8	15.3	14.5	13.1	10.2	7.9	8.7	8.7
125°	10.2	10.9	10.9	12.3	12.3	12.3	10.2	7.9	7.3	7.3	7.3
127.5°	9.5	9.5	10.2	10.2	10.9	10.2	7.9	5.8	5.8	6.5	6.5
130°	8.7	8.7	8.7	8.7	8.7	7.9	6.5	5.1	5.1	5.8	5.8
132.5°	7.3	7.9	7.9	7.3	7.3	6.5	5.1	3.6	4.4	4.4	4.4
135°	6.5	7.3	6.5	6.5	5.8	5.1	3.6	2.9	3.6	3.6	3.6
137.5°	5.8	5.8	5.8	5.1	4.4	3.6	2.9	2.1	2.9	2.9	2.9
140°	5.1	5.1	5.1	4.4	3.6	2.9	1.4	1.4	2.1	2.1	2.1
142.5°	3.6	4.4	3.6	2.9	2.1	1.4	0.8	0.8	1.4	2.1	1.4
145°	2.9	2.9	2.9	2.1	1.4	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	2.1	2.1	2.1	1.4	0.8	0.8	0.0	0.0	0.0	0.8	0.8
150°	1.4	1.4	1.4	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)