

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: P240429

Luminaire Tested: **UTLD-AF24-70-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240429
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-AF24-70-D-U-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 6833.3 lumens
Efficiency: N/A
Efficacy: 92.3 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): 74
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

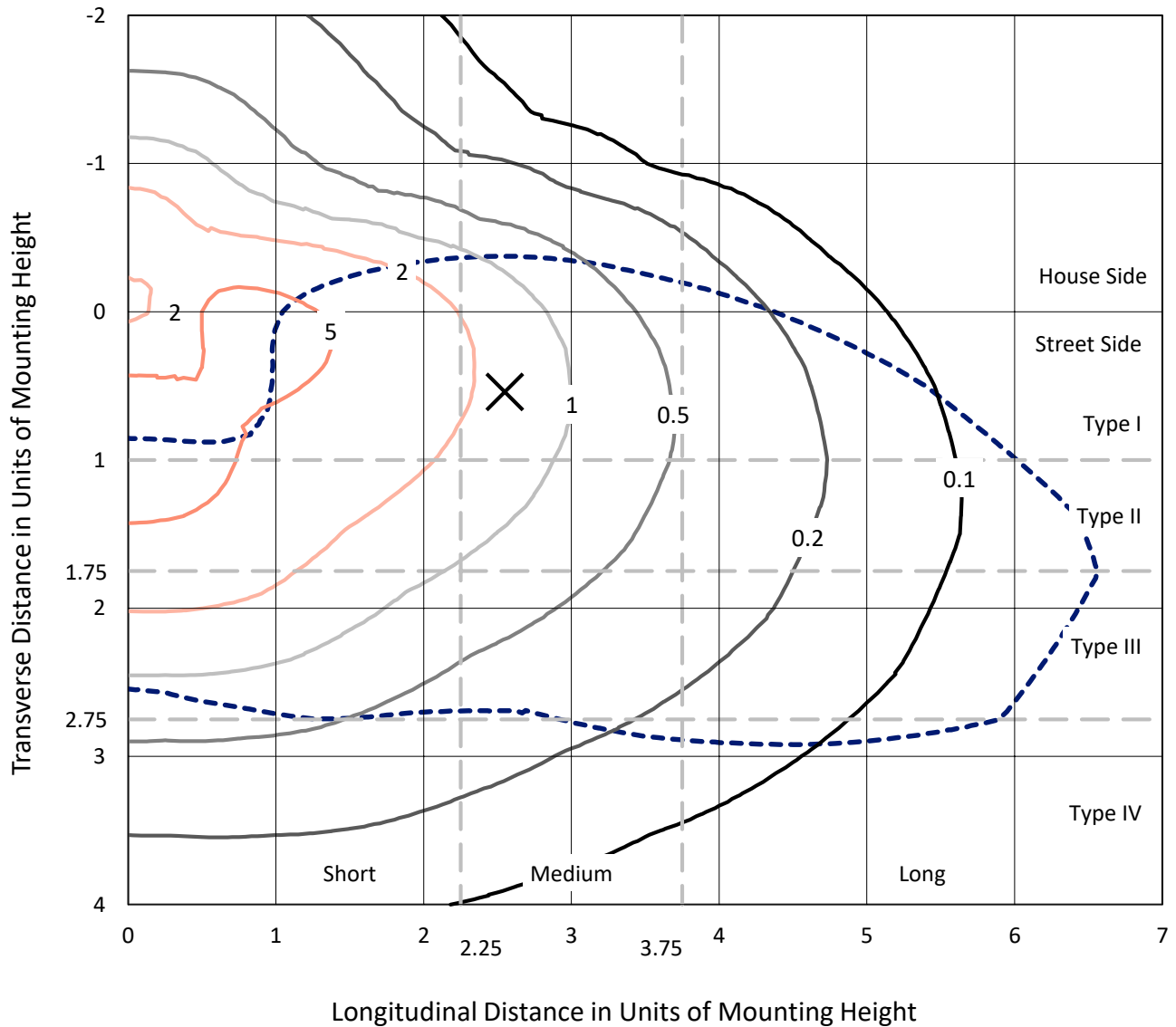


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

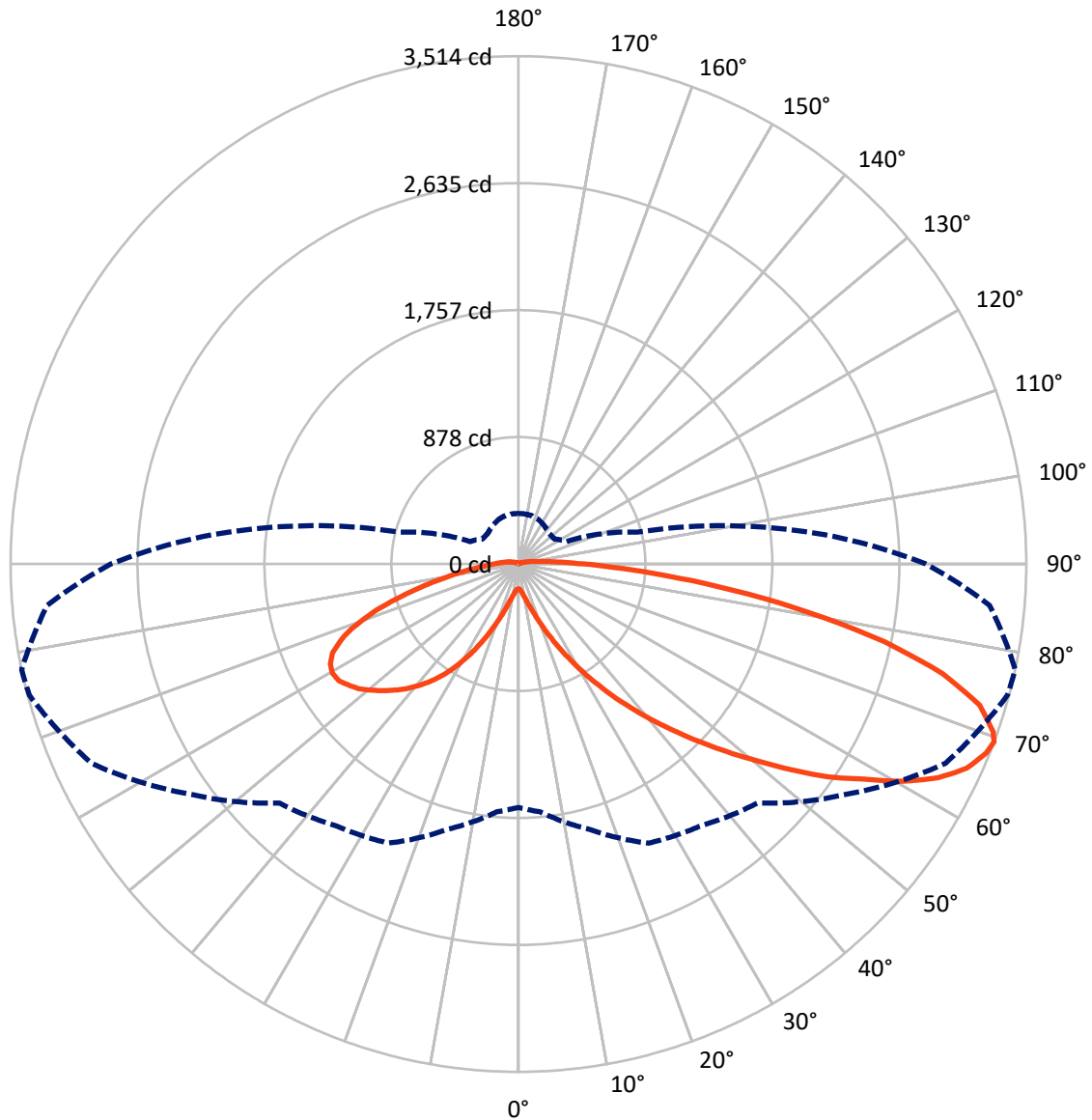


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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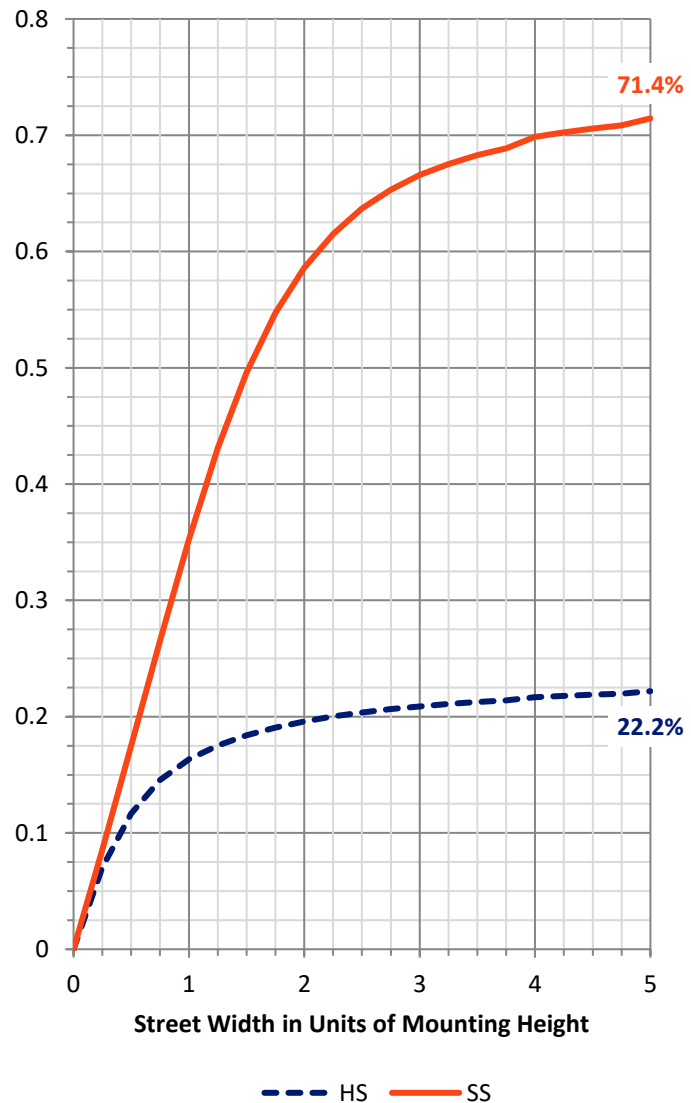
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1587.4	119.3	1706.6
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4995.6	131.0	5126.7
	% Fixture	73.1	1.9	75.0
Total	Lumens	6583.0	250.3	6833.3
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.3
10°-20°	87.8	1.3
20°-30°	250.4	3.7
30°-40°	532.1	7.8
40°-50°	922.5	13.5
50°-60°	1381.1	20.2
60°-70°	1643.8	24.1
70°-80°	1253.9	18.3
80°-90°	492.6	7.2
90°-100°	144.6	2.1
100°-110°	58.5	0.9
110°-120°	26.4	0.4
120°-130°	12.8	0.2
130°-140°	6.0	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6583.0	96.3
0°-180°	6833.3	100.0



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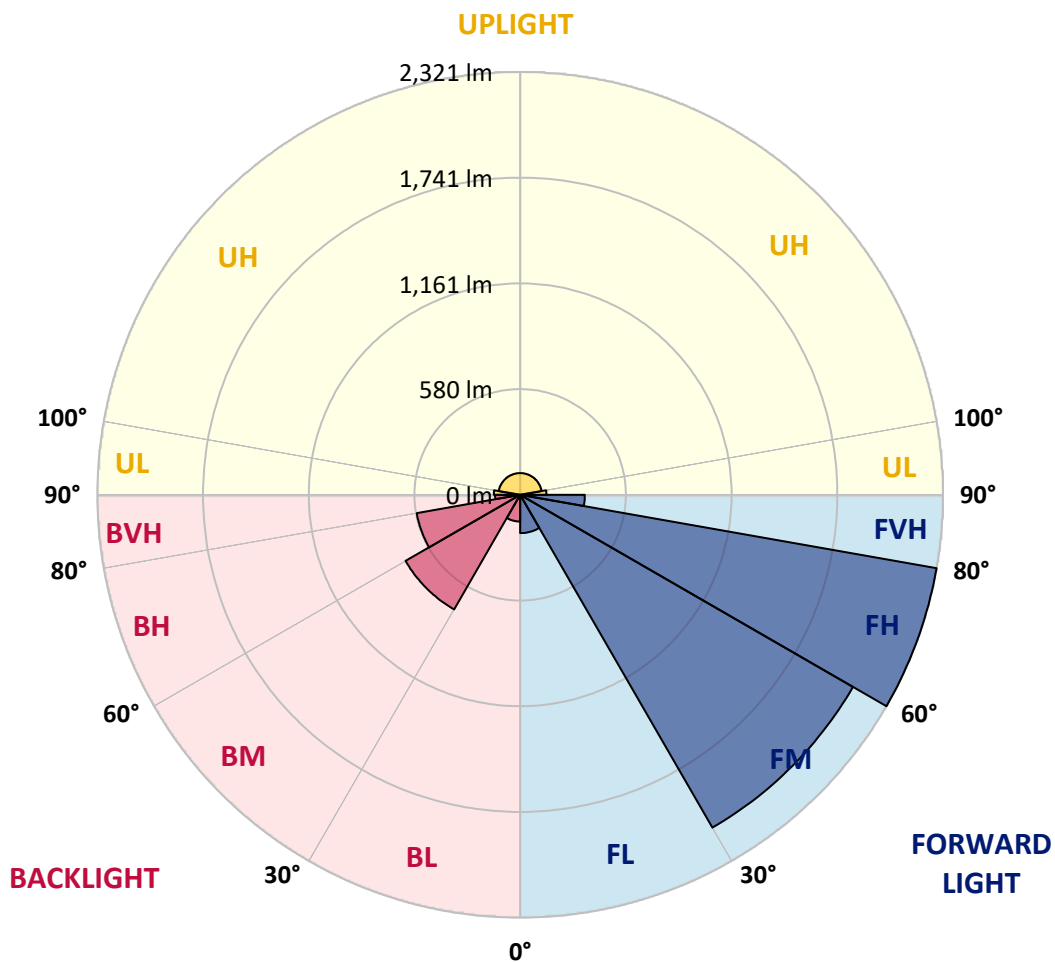
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.3	3.1			
FM	(30°-60°)	2109.3	30.9			
FH	(60°-80°)	2321.1	34.0			G2/5000
FVH	(80°-90°)	354.9	5.2			G3/500
BL	(0°-30°)	146.8	2.1	B1/500		
BM	(30°-60°)	726.4	10.6	B1/1000		
BH	(60°-80°)	576.6	8.4	B2/1000		G2/1000
BVH	(80°-90°)	137.7	2.0			G2/225
UL	(90°-100°)	144.6	2.1		U3/500	
UH	(100°-180°)	119.3	1.7		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°	78°	85°
0°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	185.5	185.5	184.6	184.6	183.7	182.0	179.4	177.7	176.9	176.9	175.1
5°	206.2	206.2	204.5	204.5	201.8	199.3	195.8	191.5	188.9	188.0	185.5
7.5°	233.7	232.9	232.1	229.4	226.9	221.7	217.4	213.1	207.9	207.0	203.6
10°	269.1	267.4	267.4	264.0	258.8	252.8	245.0	239.0	233.7	232.9	229.4
12.5°	315.8	314.0	311.4	304.5	296.8	287.2	280.4	274.4	269.1	267.4	263.1
15°	370.9	370.1	363.1	354.6	340.7	328.7	320.9	315.8	314.0	312.3	308.0
17.5°	440.0	435.7	428.7	411.5	393.4	376.1	369.2	370.1	370.9	370.9	367.5
20°	516.8	515.1	504.7	481.4	456.3	434.8	428.7	433.9	440.8	440.8	440.0
22.5°	617.7	612.5	593.5	560.8	525.4	503.8	495.2	506.4	525.4	526.2	529.7
25°	728.1	726.4	696.2	647.8	603.0	577.1	571.1	584.9	619.4	622.0	631.5
27.5°	850.6	846.3	818.7	750.5	691.9	654.0	651.3	681.5	718.6	731.6	745.3
30°	999.0	994.7	942.0	863.6	792.0	741.9	742.8	781.6	838.5	849.8	869.6
32.5°	1152.6	1148.3	1093.9	995.5	900.6	838.5	840.3	898.0	963.6	977.4	999.0
35°	1329.4	1327.7	1256.1	1135.3	1015.4	940.3	953.3	1014.6	1095.6	1118.1	1137.0
37.5°	1520.9	1502.0	1432.0	1291.5	1141.3	1059.4	1068.9	1150.8	1246.6	1256.9	1275.9
40°	1713.3	1709.0	1625.4	1467.4	1286.3	1184.5	1197.5	1289.7	1393.3	1412.2	1422.6
42.5°	1916.1	1914.4	1815.9	1643.5	1436.4	1322.5	1334.5	1439.8	1555.4	1573.6	1578.7
45°	2131.7	2119.7	2022.2	1828.9	1609.8	1469.2	1490.7	1599.5	1735.7	1750.4	1753.0
47.5°	2317.2	2301.6	2228.3	2027.3	1778.9	1627.9	1644.3	1779.7	1922.9	1938.5	1932.5
50°	2484.5	2477.7	2403.4	2225.7	1964.4	1788.3	1811.6	1959.2	2120.5	2139.5	2133.5
52.5°	2594.1	2589.8	2559.6	2388.0	2127.4	1952.3	1985.0	2145.5	2336.2	2363.8	2331.8
55°	2648.5	2648.5	2654.6	2530.3	2276.7	2107.6	2158.4	2352.6	2560.4	2599.3	2554.4
57.5°	2644.1	2639.0	2689.0	2627.8	2391.4	2232.7	2331.8	2572.5	2790.8	2806.4	2783.0
60°	2545.8	2562.2	2650.2	2661.4	2473.4	2344.0	2497.5	2776.2	3010.9	3052.2	2981.5
62.5°	2388.8	2419.9	2548.4	2622.6	2495.8	2423.3	2639.8	2954.7	3215.2	3257.5	3156.6
65°	2172.2	2204.2	2362.1	2505.3	2450.9	2450.1	2737.3	3117.7	3378.3	3408.5	3273.0
67.5°	1900.5	1910.9	2092.9	2299.1	2324.1	2409.5	2784.0	3230.0	3496.5	3491.3	3314.5
69°	1684.0	1721.1	1900.5	2130.8	2208.4	2338.8	2775.3	3261.0	3503.4	3513.7	3273.0
70°	1574.4	1581.3	1758.1	1992.0	2127.4	2274.9	2745.9	3254.1	3492.1	3484.4	3225.6
72.5°	1222.4	1236.2	1398.5	1652.9	1840.1	2062.7	2601.9	3137.6	3356.7	3336.9	2981.5
75°	872.2	895.5	1044.7	1283.7	1505.4	1785.8	2336.2	2887.5	3078.1	3032.3	2630.3
77.5°	595.3	619.4	730.7	949.8	1170.7	1476.1	1970.4	2508.7	2639.8	2592.4	2149.8
80°	382.2	398.5	486.5	660.0	870.4	1133.5	1569.2	2010.1	2126.5	2042.0	1643.5
82.5°	252.8	263.1	324.4	446.8	609.1	836.0	1163.8	1502.0	1553.8	1500.3	1151.7
85°	170.8	177.7	221.7	303.7	427.1	588.4	823.9	1044.7	1087.0	1012.8	767.8
87.5°	117.3	124.2	159.6	212.3	296.8	410.6	552.1	702.3	689.3	654.8	501.2
90°	83.7	89.7	114.8	151.0	209.6	285.5	368.4	444.3	442.5	408.9	320.1
92.5°	60.4	65.6	87.2	113.0	155.3	200.2	248.5	279.5	279.5	265.7	212.3
95°	45.7	49.2	66.4	86.2	116.5	148.4	173.4	189.8	186.4	175.9	153.5
97.5°	36.2	38.9	52.6	69.9	92.3	114.8	129.4	131.1	128.6	125.1	113.9
100°	30.2	31.9	44.0	58.6	76.8	93.2	100.0	97.5	94.0	93.2	87.2
102.5°	25.9	26.7	38.0	50.9	65.6	77.6	80.2	75.9	71.6	70.8	68.1
105°	23.3	23.3	32.7	44.0	56.1	64.8	66.4	61.3	55.2	53.5	52.6
107.5°	20.7	21.6	28.4	38.9	48.3	55.2	55.2	49.2	42.2	40.5	40.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	19.0	19.0	25.1	34.5	42.2	47.5	46.5	39.7	32.7	31.1	31.9
112.5°	17.3	17.3	22.4	30.2	37.1	40.5	38.9	31.9	25.9	25.1	25.1
115°	16.4	16.4	19.8	26.7	31.9	34.5	32.7	25.9	20.7	19.8	20.7
117.5°	14.6	15.5	18.1	23.3	27.6	30.2	27.6	21.6	17.3	16.4	18.1
120°	13.8	14.6	16.4	19.8	24.1	25.9	22.4	18.1	14.6	14.6	15.5
122.5°	13.0	13.8	14.6	18.1	20.7	21.6	19.0	14.6	12.1	13.0	13.8
125°	13.0	13.0	13.8	15.5	18.1	18.1	15.5	12.1	11.3	11.3	12.1
127.5°	12.1	12.1	12.1	13.8	15.5	15.5	13.0	10.3	9.5	10.3	11.3
130°	11.3	11.3	11.3	12.1	13.0	13.0	11.3	8.6	8.6	8.6	9.5
132.5°	10.3	10.3	10.3	10.3	11.3	10.3	8.6	6.9	7.8	7.8	8.6
135°	9.5	9.5	9.5	9.5	8.6	7.8	6.0	6.0	6.9	6.9	7.8
137.5°	8.6	8.6	8.6	7.8	6.9	6.0	5.2	5.2	6.0	6.0	6.9
140°	7.8	7.8	7.8	6.0	5.2	4.3	3.5	3.5	5.2	5.2	5.2
142.5°	6.9	6.9	6.0	5.2	4.3	2.6	1.7	2.6	3.5	3.5	4.3
145°	5.2	5.2	5.2	4.3	2.6	1.7	0.8	1.7	2.6	2.6	3.5
147.5°	4.3	4.3	4.3	3.5	1.7	0.8	0.8	0.8	1.7	1.7	2.6
150°	3.5	3.5	2.6	2.6	0.8	0.0	0.0	0.8	0.8	1.7	1.7
152.5°	2.6	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	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°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	174.3	173.4	172.6	170.8	169.9	168.3	166.5	164.8	164.8	164.8	163.9
5°	184.6	182.9	180.3	176.9	174.3	171.7	169.1	166.5	165.6	164.8	164.8
7.5°	201.0	199.3	194.2	189.8	184.6	181.2	176.9	175.1	173.4	172.6	172.6
10°	226.1	222.6	215.6	208.8	202.7	195.8	191.5	188.9	186.4	185.5	186.4
12.5°	259.6	253.6	245.0	234.7	224.3	215.6	210.5	207.9	207.0	206.2	206.2
15°	306.3	302.0	284.7	266.6	252.0	239.8	232.9	230.4	235.5	237.2	237.2
17.5°	366.6	358.9	338.2	313.1	282.9	264.8	259.6	264.0	268.3	273.4	274.4
20°	441.7	428.7	402.0	361.5	320.9	295.0	290.7	295.9	306.3	313.1	314.0
22.5°	523.6	515.1	473.6	413.3	358.9	328.7	319.2	326.9	343.3	352.8	353.7
25°	628.9	615.1	553.0	470.1	398.5	356.3	345.0	356.3	376.1	390.8	391.7
27.5°	743.7	722.1	641.0	527.1	432.2	379.6	365.8	380.4	407.2	424.4	426.2
30°	862.7	832.5	728.1	580.6	462.4	395.1	380.4	398.5	428.7	448.6	451.2
32.5°	987.8	951.5	808.3	627.2	482.2	403.8	388.2	409.8	441.7	462.4	465.0
35°	1115.4	1069.7	883.4	660.8	491.7	405.5	389.0	413.3	444.3	465.9	468.4
37.5°	1250.0	1182.7	949.0	684.1	493.5	400.3	385.7	409.8	439.2	459.0	460.6
40°	1380.3	1293.2	1004.1	694.5	487.4	392.5	377.0	402.0	427.1	441.7	443.4
42.5°	1523.5	1412.2	1052.5	694.5	475.4	383.0	367.5	390.8	410.6	420.9	421.9
45°	1669.4	1531.3	1090.5	685.9	459.8	370.9	358.0	378.7	394.2	398.5	398.5
47.5°	1837.5	1656.4	1125.9	671.2	442.5	358.9	348.5	367.5	378.7	378.7	379.6
50°	2006.6	1787.5	1152.6	650.5	422.7	348.5	340.7	358.9	367.5	362.3	362.3
52.5°	2189.5	1922.1	1177.6	623.7	404.6	339.0	335.6	354.6	360.6	352.8	351.1
55°	2374.2	2048.9	1182.7	590.0	383.9	331.2	333.0	351.1	357.1	348.5	347.7
57.5°	2571.7	2179.2	1181.9	551.3	365.8	325.2	330.4	350.3	356.3	347.7	346.8
60°	2724.4	2281.8	1154.3	510.8	349.4	319.2	329.6	349.4	356.3	349.4	349.4
62.5°	2862.4	2342.3	1102.5	467.6	333.9	314.9	326.9	347.7	354.6	351.1	351.1
65°	2925.4	2359.4	1023.2	425.3	320.9	309.7	325.2	345.0	352.8	352.0	352.8
67.5°	2886.6	2279.2	917.9	387.4	308.8	303.7	320.9	340.7	349.4	351.1	352.0
69°	2819.3	2189.5	852.3	367.5	302.0	299.3	317.4	336.4	346.8	349.4	349.4
70°	2759.7	2112.7	798.0	355.5	296.8	296.8	315.8	333.9	344.2	346.8	347.7
72.5°	2471.7	1862.6	674.6	323.6	285.5	288.2	307.1	325.2	336.4	339.0	339.0
75°	2117.9	1527.9	549.5	296.8	272.6	278.7	296.8	314.0	324.4	326.9	326.1
77.5°	1686.5	1184.5	446.0	273.4	258.0	264.0	282.9	299.3	309.7	311.4	308.0
80°	1258.6	863.6	361.5	249.3	240.7	248.5	265.7	279.5	289.9	290.7	285.5
82.5°	872.2	623.7	294.2	226.1	221.7	227.7	243.3	255.3	264.8	262.3	259.6
85°	581.4	427.9	240.7	200.2	200.2	207.0	218.3	226.1	235.5	232.1	226.9
87.5°	383.0	295.0	197.5	175.1	176.9	182.9	191.5	194.2	202.7	200.2	194.2
90°	259.6	212.3	162.1	151.0	153.5	159.6	163.9	163.9	169.9	165.6	163.1
92.5°	184.6	162.1	135.4	130.2	132.9	138.0	138.9	135.4	140.7	138.0	134.6
95°	138.9	127.7	114.8	112.1	115.6	119.1	118.2	113.0	114.8	113.0	112.1
97.5°	107.8	104.3	97.5	95.7	99.2	101.8	100.0	94.0	94.9	93.2	91.5
100°	87.2	84.5	82.9	82.9	85.4	86.2	83.7	78.5	77.6	75.1	75.9
102.5°	69.0	69.0	69.9	71.6	73.3	73.3	69.9	65.6	63.8	61.3	61.3
105°	54.3	55.2	58.6	59.5	61.3	61.3	57.8	54.3	50.9	48.3	48.3
107.5°	42.2	44.0	47.5	50.0	51.8	50.9	48.3	44.9	40.5	38.0	38.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.7	35.4	38.9	42.2	43.2	43.2	40.5	36.2	31.1	30.2	30.2
112.5°	27.6	28.4	32.7	35.4	36.2	36.2	33.7	30.2	25.1	24.1	24.1
115°	22.4	23.3	26.7	29.4	30.2	30.2	28.4	25.1	19.8	19.8	19.8
117.5°	19.0	19.8	22.4	25.1	25.9	25.9	23.3	19.8	16.4	16.4	16.4
120°	16.4	17.3	19.0	20.7	21.6	21.6	19.8	16.4	13.8	13.8	13.8
122.5°	14.6	15.5	16.4	18.1	19.0	19.0	16.4	13.0	12.1	12.1	12.1
125°	13.0	13.8	14.6	15.5	16.4	15.5	13.8	11.3	10.3	11.3	11.3
127.5°	11.3	12.1	13.0	13.0	13.8	13.0	11.3	9.5	8.6	9.5	9.5
130°	10.3	10.3	11.3	11.3	12.1	11.3	9.5	7.8	7.8	8.6	8.6
132.5°	9.5	9.5	9.5	9.5	10.3	9.5	7.8	6.0	6.9	7.8	7.8
135°	7.8	7.8	8.6	7.8	8.6	6.9	6.0	5.2	6.0	6.9	6.9
137.5°	6.9	6.9	6.9	6.9	6.0	6.0	4.3	4.3	5.2	6.0	5.2
140°	6.0	6.0	6.0	5.2	5.2	4.3	3.5	3.5	4.3	4.3	4.3
142.5°	4.3	4.3	4.3	4.3	3.5	2.6	1.7	2.6	2.6	3.5	3.5
145°	3.5	3.5	3.5	2.6	1.7	1.7	0.8	1.7	1.7	2.6	2.6
147.5°	2.6	2.6	2.6	1.7	1.7	0.8	0.8	0.8	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.8	0.8	0.8
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	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	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)