

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: P240584

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240584
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-AF24-90-D-U-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7706 lumens
Efficiency: N/A
Efficacy: 82.0 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: B2 - U3 - G3

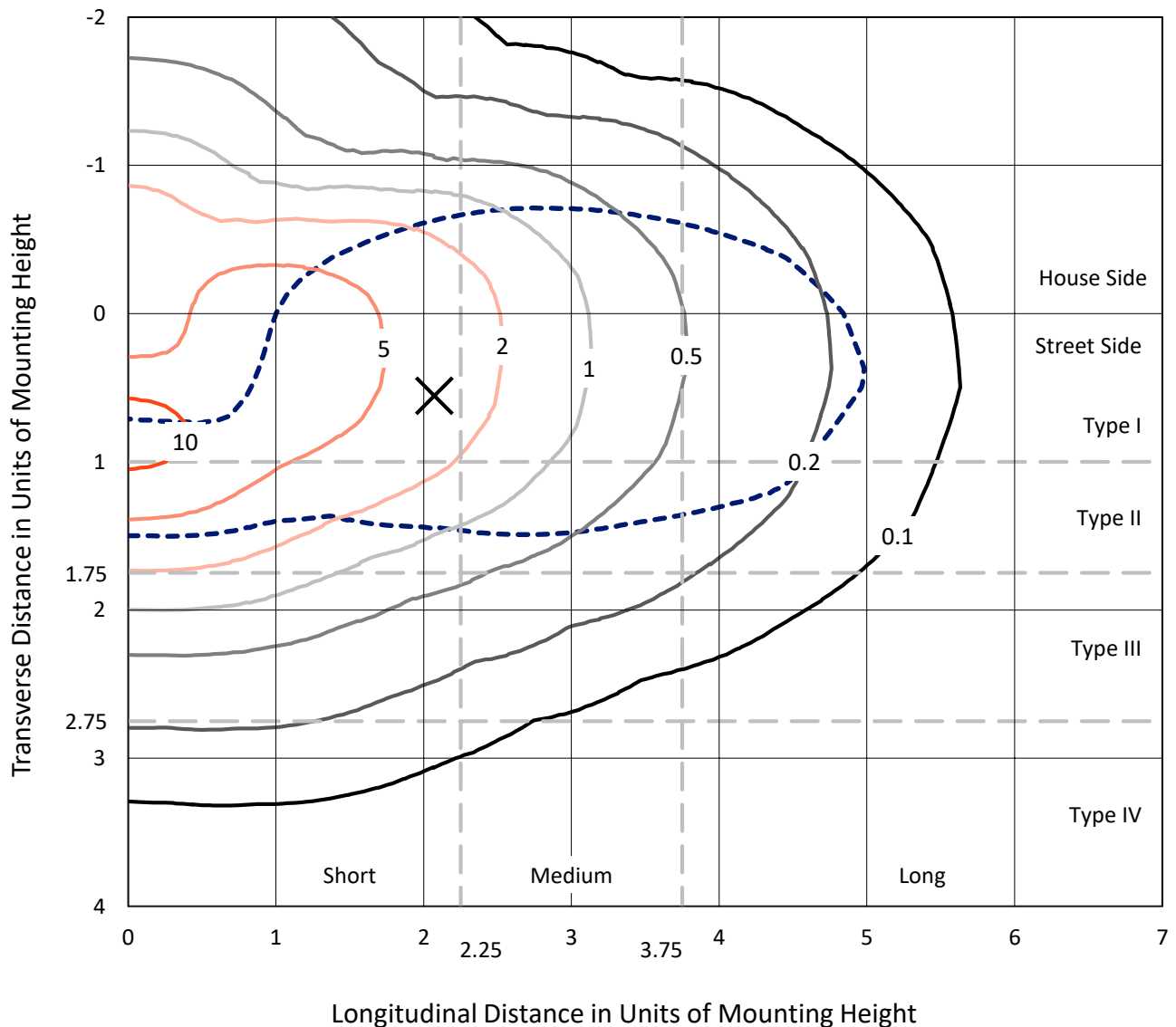
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

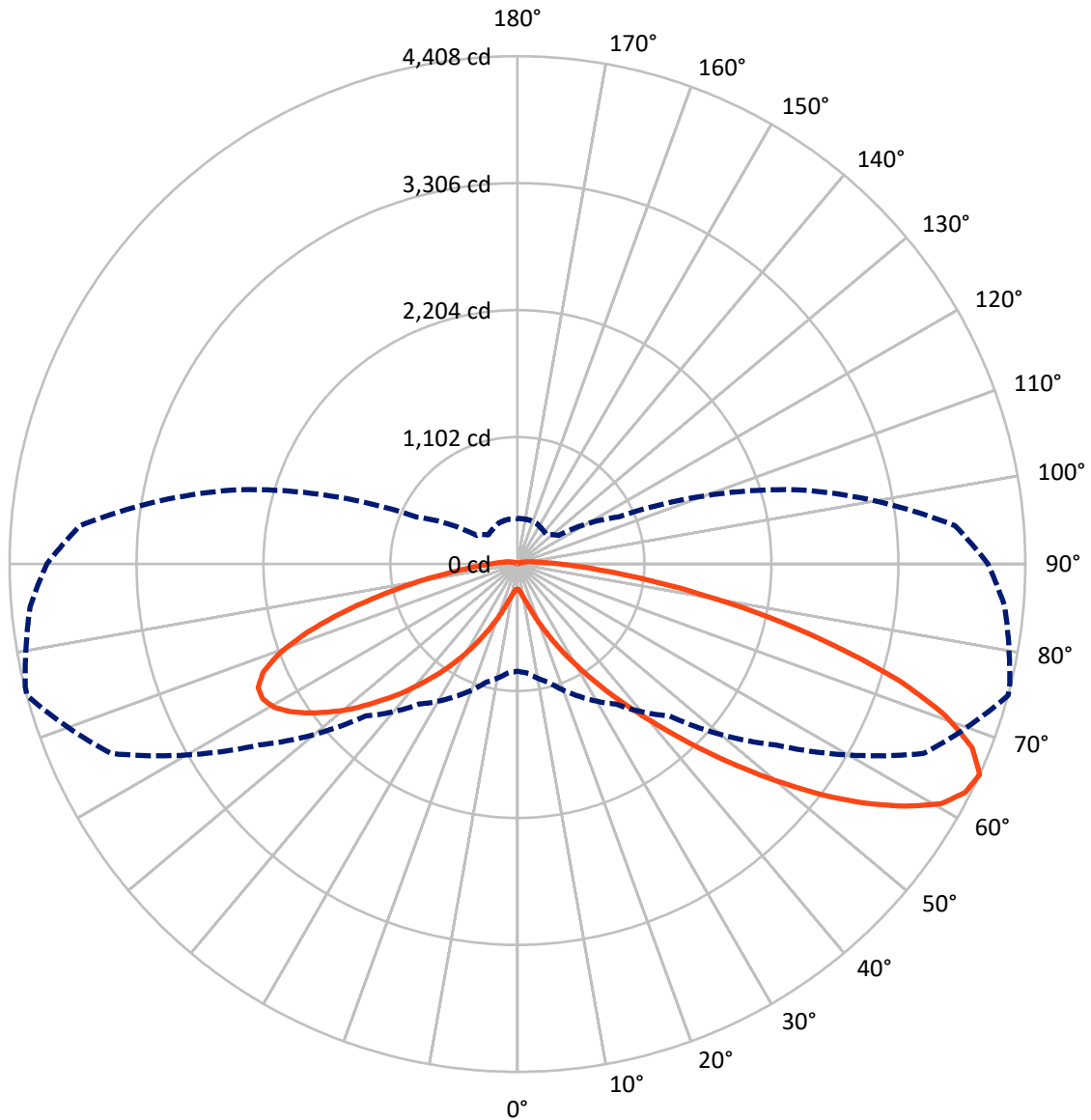
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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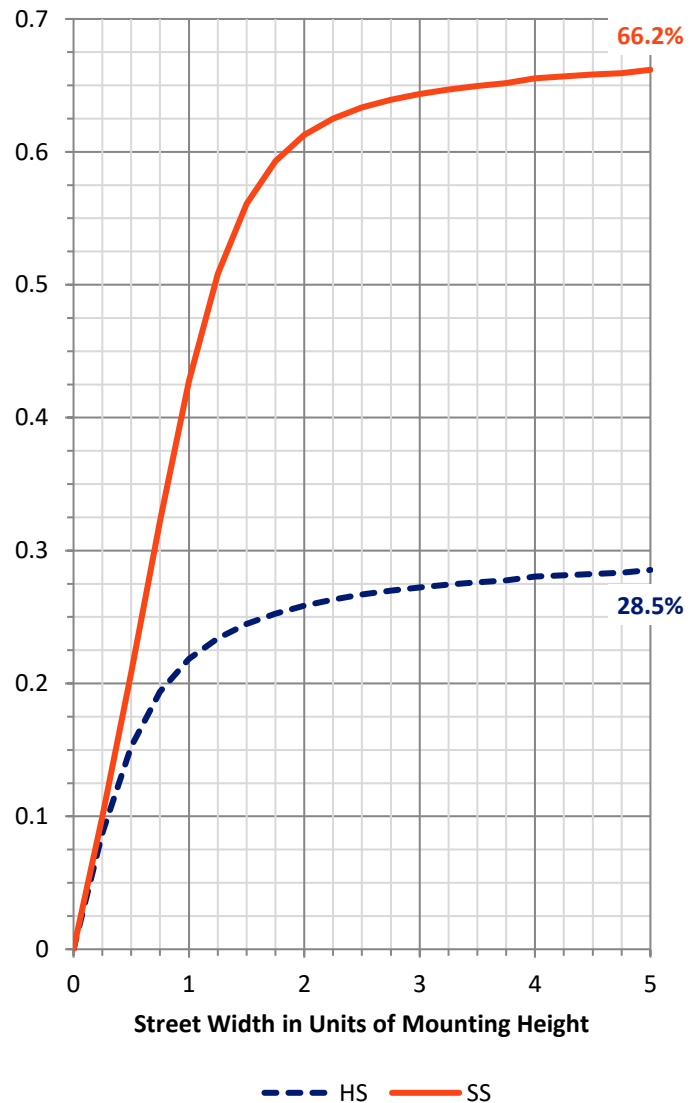
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2275.3	136.4	2411.7
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	5171.5	122.7	5294.3
	% Fixture	67.1	1.6	68.7
Total	Lumens	7446.8	259.1	7706.0
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	0.3
10°-20°	111.5	1.4
20°-30°	325.0	4.2
30°-40°	728.9	9.5
40°-50°	1297.1	16.8
50°-60°	1762.7	22.9
60°-70°	1711.8	22.2
70°-80°	1078.9	14.0
80°-90°	406.9	5.3
90°-100°	138.5	1.8
100°-110°	62.7	0.8
110°-120°	30.2	0.4
120°-130°	15.9	0.2
130°-140°	8.2	0.1
140°-150°	3.0	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7446.8	96.6
0°-180°	7706.0	100.0

Coefficient of Utilization



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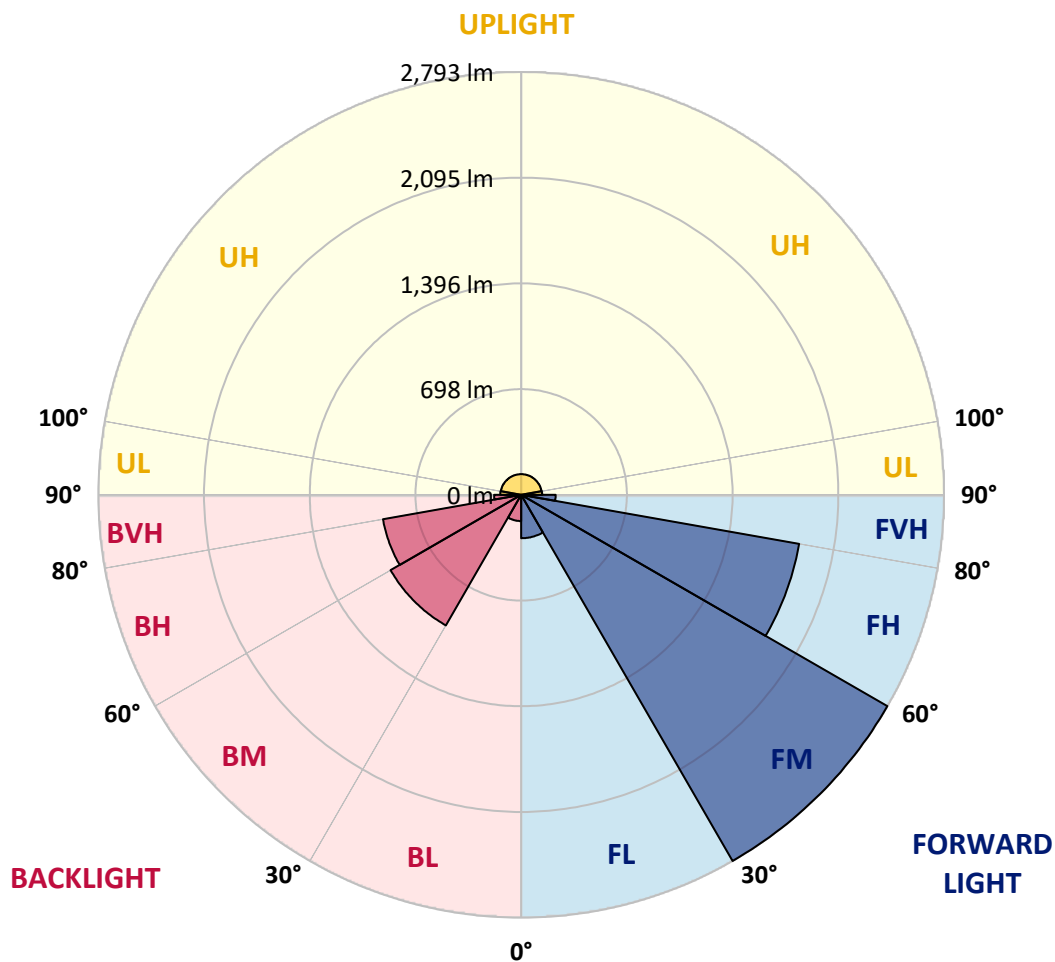
CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-TL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.0	3.7			
FM (30°-60°)	2792.7	36.2			
FH (60°-80°)	1864.1	24.2			G2/5000
FVH (80°-90°)	227.7	3.0			G3/500
BL (0°-30°)	173.5	2.3	B1/500		
BM (30°-60°)	996.0	12.9	B1/1000		
BH (60°-80°)	926.6	12.0	B2/1000		G2/1000
BVH (80°-90°)	179.2	2.3			G2/225
UL (90°-100°)	138.5	1.8		U3/500	
UH (100°-180°)	136.4	1.8		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
2.5°	238.4	237.4	237.4	237.4	235.5	233.6	230.6	228.7	225.8	224.8	223.9
5°	263.5	263.5	262.6	261.5	259.6	254.8	249.9	246.1	241.3	240.3	236.4
7.5°	303.0	302.1	301.1	296.3	293.4	286.6	278.9	273.1	264.4	264.4	258.6
10°	355.2	353.2	350.2	345.5	334.9	326.2	317.5	306.9	298.2	297.3	288.6
12.5°	417.0	417.0	413.1	403.3	389.9	377.4	362.8	351.3	339.7	338.7	331.0
15°	501.8	502.8	490.2	475.9	456.4	437.1	418.9	408.2	394.8	397.6	387.0
17.5°	607.1	605.1	594.5	565.5	533.7	508.6	487.4	475.9	465.2	466.1	458.5
20°	739.2	737.4	719.0	680.3	628.2	590.6	565.5	557.9	552.1	549.1	541.4
22.5°	902.4	892.7	856.0	805.9	743.2	689.1	662.1	650.5	648.6	649.5	641.8
25°	1084.7	1080.9	1034.5	954.5	873.4	803.9	762.4	760.6	763.4	758.6	758.6
27.5°	1306.7	1296.2	1242.1	1131.1	1015.2	932.3	884.0	879.2	892.7	888.9	883.1
30°	1566.3	1550.0	1476.6	1334.7	1186.1	1075.1	1019.2	1019.2	1033.6	1033.6	1031.7
32.5°	1837.5	1834.7	1720.9	1554.8	1379.2	1232.5	1184.2	1176.5	1190.9	1198.7	1189.0
35°	2142.6	2120.2	1989.1	1800.9	1574.1	1412.9	1353.0	1363.7	1375.2	1376.2	1360.9
37.5°	2453.3	2431.1	2280.6	2047.9	1783.5	1609.8	1547.9	1555.8	1574.1	1574.1	1553.7
40°	2719.7	2695.5	2547.9	2305.6	2015.2	1828.9	1763.2	1785.4	1798.0	1802.8	1770.0
42.5°	2930.0	2912.7	2780.4	2533.4	2238.0	2048.9	2006.4	2043.1	2055.7	2065.3	2018.0
45°	3047.8	3033.4	2941.6	2718.7	2425.3	2269.0	2276.6	2321.1	2345.2	2334.6	2283.4
47.5°	3066.2	3054.6	3003.4	2833.5	2597.1	2480.3	2553.7	2620.2	2656.9	2658.0	2571.1
50°	2952.3	2957.1	2958.0	2860.5	2693.6	2652.2	2812.4	2961.9	2989.9	2974.5	2872.1
52.5°	2731.3	2728.3	2784.4	2784.4	2710.9	2758.2	3029.4	3296.8	3335.3	3331.6	3189.8
55°	2403.1	2406.0	2510.2	2592.2	2619.3	2780.4	3207.1	3599.9	3663.6	3657.8	3501.4
57.5°	1994.8	2022.8	2151.2	2308.5	2431.1	2685.9	3289.0	3860.4	3964.7	3965.6	3776.4
60°	1598.3	1627.2	1776.8	1978.4	2156.0	2503.4	3234.1	3995.5	4224.3	4213.7	4012.9
62.5°	1220.9	1250.8	1394.5	1624.2	1830.8	2212.1	3046.8	4023.5	4362.2	4355.5	4182.8
65°	929.4	948.7	1064.5	1266.2	1483.4	1863.6	2739.0	3890.2	4407.6	4402.8	4245.5
67.5°	694.9	703.5	813.6	976.7	1164.9	1507.4	2313.3	3569.9	4257.1	4261.8	4174.0
70°	534.8	540.5	620.6	762.4	902.4	1178.4	1874.3	3107.7	3940.6	3953.1	3950.2
72.5°	424.7	433.3	497.0	600.3	701.7	892.7	1449.6	2514.0	3471.5	3497.5	3575.7
75°	350.2	360.0	408.2	484.4	557.9	679.5	1054.0	1929.2	2853.9	2908.8	3082.5
77.5°	289.5	299.2	339.7	399.6	444.9	519.2	772.1	1426.4	2241.9	2265.1	2494.8
80°	237.4	246.1	282.8	329.1	361.8	405.4	562.6	1001.8	1634.8	1663.8	1887.8
82.5°	189.1	196.8	230.6	268.3	295.3	325.3	417.0	686.1	1138.8	1160.0	1307.8
85°	145.8	153.4	182.4	215.2	238.4	262.6	319.5	477.7	753.8	778.8	886.9
87.5°	109.0	115.9	140.0	167.9	192.1	212.3	246.1	330.1	502.8	524.0	575.2
90°	80.1	84.9	106.2	127.4	149.5	171.7	193.1	241.3	334.9	343.6	379.2
92.5°	59.9	62.8	80.1	98.5	119.6	139.0	152.5	177.5	235.5	236.4	261.5
95°	44.4	47.3	61.7	77.2	95.5	113.8	125.4	138.0	172.7	175.7	191.1
97.5°	35.7	36.7	49.1	62.8	78.1	93.6	103.2	110.1	132.2	135.2	145.8
100°	29.9	30.9	41.5	53.1	66.5	80.1	86.9	89.7	104.3	107.1	114.8
102.5°	26.0	26.0	35.7	46.3	57.9	67.5	72.3	74.3	83.9	83.9	89.7
105°	23.2	23.2	30.9	40.5	50.1	58.9	61.7	61.7	65.7	66.5	69.5
107.5°	21.2	21.2	28.0	36.7	44.4	51.2	53.1	51.2	52.1	52.1	54.1
110°	19.3	19.3	24.1	32.8	39.6	44.4	45.4	43.3	40.5	40.5	42.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	17.4	18.3	22.2	29.0	34.8	39.6	39.6	36.7	31.8	31.8	33.8
115°	16.4	16.4	20.2	26.0	30.9	34.8	34.8	30.9	26.0	25.1	27.0
117.5°	15.4	15.4	17.4	23.2	28.0	30.9	30.9	26.0	21.2	21.2	23.2
120°	14.4	14.4	16.4	21.2	25.1	28.0	27.0	23.2	18.3	18.3	20.2
122.5°	14.4	14.4	15.4	19.3	22.2	24.1	23.2	19.3	15.4	15.4	17.4
125°	13.5	13.5	14.4	17.4	20.2	22.2	20.2	16.4	14.4	14.4	15.4
127.5°	13.5	13.5	13.5	15.4	18.3	19.3	18.3	14.4	12.6	12.6	14.4
130°	12.6	12.6	13.5	14.4	16.4	17.4	15.4	12.6	11.6	11.6	13.5
132.5°	12.6	12.6	12.6	12.6	13.5	14.4	12.6	9.7	10.6	10.6	11.6
135°	11.6	11.6	11.6	11.6	12.6	12.6	10.6	8.6	9.7	9.7	10.6
137.5°	10.6	10.6	10.6	10.6	10.6	9.7	8.6	7.7	8.6	8.6	9.7
140°	9.7	9.7	9.7	8.6	7.7	7.7	6.8	5.8	6.8	6.8	7.7
142.5°	8.6	8.6	8.6	7.7	6.8	5.8	4.8	4.8	5.8	5.8	6.8
145°	7.7	7.7	6.8	5.8	4.8	3.9	2.8	3.9	4.8	4.8	5.8
147.5°	5.8	5.8	5.8	4.8	2.8	1.9	1.9	2.8	3.9	3.9	3.9
150°	4.8	4.8	4.8	3.9	1.9	1.0	1.0	1.9	1.9	1.9	2.8
152.5°	2.8	2.8	2.8	2.8	1.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	1.9	1.9	1.9	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
162.5°	0.0	0.0	0.0	1.0	1.0	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°	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
2.5°	222.9	222.1	220.0	218.1	216.3	214.2	212.3	211.3	209.4	209.4	209.4
5°	234.5	231.6	227.8	223.9	220.0	217.1	214.2	211.3	209.4	208.4	207.5
7.5°	255.7	251.9	245.2	239.4	232.6	226.8	222.1	218.1	216.3	215.2	215.2
10°	284.7	279.9	271.2	259.6	251.9	243.2	235.5	230.6	226.8	225.8	224.8
12.5°	323.3	318.5	304.0	291.5	277.0	263.5	254.8	249.0	246.1	245.2	245.2
15°	378.4	372.6	349.4	328.1	305.0	288.6	277.0	272.2	273.1	276.0	273.1
17.5°	446.9	438.1	411.2	376.4	341.7	316.6	305.9	306.9	310.8	313.7	312.7
20°	531.8	519.2	481.7	432.3	385.0	351.3	340.7	341.7	346.5	355.2	354.2
22.5°	631.2	611.9	563.7	497.0	430.5	391.8	372.6	375.5	386.0	394.8	394.8
25°	740.2	722.9	654.4	565.5	482.6	425.6	401.5	405.4	420.7	430.5	433.3
27.5°	869.6	842.5	757.6	641.8	531.8	455.5	425.6	427.5	446.9	459.4	461.3
30°	1007.6	975.6	869.6	718.1	575.2	478.7	440.1	443.9	465.2	479.6	482.6
32.5°	1162.9	1125.3	986.3	798.1	615.7	492.2	447.9	451.7	473.8	490.2	492.2
35°	1335.7	1280.7	1111.8	871.5	642.8	497.0	447.9	452.7	473.8	490.2	493.2
37.5°	1511.4	1449.6	1234.4	942.0	659.2	493.2	441.1	446.9	466.1	481.7	484.4
40°	1715.9	1636.8	1368.5	999.8	665.0	482.6	429.5	436.3	452.7	465.2	467.1
42.5°	1949.5	1837.5	1509.4	1049.1	656.3	469.0	417.9	425.6	439.1	447.9	448.7
45°	2191.7	2056.6	1646.4	1087.6	643.7	452.7	406.3	414.9	426.5	428.6	430.5
47.5°	2453.3	2302.7	1796.1	1110.8	621.5	435.3	397.6	406.3	414.0	413.1	414.0
50°	2742.9	2557.5	1948.5	1120.5	596.4	420.7	390.8	400.6	406.3	401.5	401.5
52.5°	3025.6	2836.5	2087.5	1124.4	568.4	407.3	386.0	397.6	400.6	395.7	395.7
55°	3326.7	3094.1	2226.4	1113.7	540.5	396.6	384.1	396.6	398.6	391.8	391.8
57.5°	3604.7	3369.2	2352.0	1097.3	514.4	387.0	381.2	395.7	397.6	391.8	392.8
60°	3860.4	3602.8	2449.5	1070.3	486.4	377.4	379.2	395.7	397.6	393.8	395.7
62.5°	4016.8	3757.2	2500.6	1027.8	459.4	368.6	376.4	393.8	397.6	394.8	396.6
65°	4084.3	3812.2	2493.9	967.1	433.3	358.1	370.6	389.9	394.8	394.8	396.6
67.5°	4033.2	3762.1	2395.4	888.9	409.1	347.5	362.8	382.2	389.0	390.8	393.8
70°	3843.0	3554.5	2197.5	790.4	383.2	335.9	353.2	371.6	379.2	383.2	385.0
72.5°	3463.7	3206.1	1916.7	691.9	356.0	321.3	338.7	356.0	364.8	369.7	369.7
75°	2982.1	2724.5	1577.9	587.7	331.0	305.0	321.3	335.9	345.5	350.2	348.4
77.5°	2399.3	2159.0	1225.7	481.7	304.0	285.7	301.1	313.7	321.3	325.3	320.4
80°	1777.7	1624.2	920.7	397.6	277.0	263.5	276.0	286.6	295.3	294.4	290.5
82.5°	1260.5	1115.6	644.7	330.1	249.9	239.4	249.0	255.7	261.5	259.6	252.8
85°	839.6	745.0	455.5	269.3	222.1	213.3	219.1	222.9	225.8	221.0	216.3
87.5°	546.3	486.4	328.1	222.1	192.1	186.3	189.1	190.1	191.1	186.3	180.5
90°	357.1	332.0	244.2	183.3	165.0	161.1	161.1	157.4	158.3	152.5	146.7
92.5°	251.9	236.4	190.1	150.6	141.0	138.0	137.0	132.2	131.2	125.4	121.6
95°	188.2	181.5	153.4	127.4	119.6	118.6	116.8	112.0	108.0	102.2	100.4
97.5°	146.7	143.7	126.4	109.0	103.2	101.3	100.4	94.6	91.7	85.9	83.9
100°	116.8	116.8	106.2	93.6	88.8	87.9	86.9	81.1	78.1	72.3	71.4
102.5°	93.6	94.6	88.8	81.1	77.2	75.3	73.3	69.5	64.7	60.7	60.7
105°	73.3	75.3	73.3	68.5	66.5	64.7	62.8	58.9	54.1	50.1	50.1
107.5°	57.9	59.9	59.9	58.9	55.9	54.9	54.1	49.1	45.4	41.5	41.5
110°	44.4	47.3	49.1	49.1	49.1	47.3	45.4	42.5	37.5	34.8	34.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	35.7	37.5	40.5	41.5	41.5	41.5	39.6	34.8	30.9	29.0	29.9
115°	29.0	30.9	33.8	35.7	35.7	35.7	32.8	29.9	26.0	25.1	25.1
117.5°	24.1	26.0	28.0	30.9	30.9	30.9	29.0	25.1	21.2	21.2	21.2
120°	21.2	22.2	25.1	26.0	27.0	27.0	25.1	21.2	18.3	18.3	19.3
122.5°	18.3	19.3	21.2	23.2	24.1	23.2	21.2	17.4	15.4	16.4	16.4
125°	16.4	17.4	18.3	20.2	21.2	20.2	18.3	14.4	13.5	14.4	14.4
127.5°	15.4	15.4	16.4	17.4	18.3	17.4	15.4	12.6	11.6	13.5	13.5
130°	13.5	14.4	14.4	15.4	15.4	15.4	13.5	10.6	10.6	11.6	11.6
132.5°	12.6	12.6	12.6	13.5	13.5	12.6	10.6	8.6	9.7	10.6	10.6
135°	10.6	11.6	11.6	11.6	11.6	10.6	8.6	7.7	8.6	9.7	9.7
137.5°	9.7	9.7	9.7	9.7	9.7	8.6	7.7	6.8	7.7	7.7	7.7
140°	7.7	8.6	8.6	7.7	7.7	6.8	5.8	4.8	5.8	6.8	6.8
142.5°	6.8	6.8	6.8	6.8	5.8	4.8	3.9	3.9	4.8	4.8	4.8
145°	5.8	5.8	5.8	4.8	3.9	3.9	2.8	2.8	3.9	3.9	4.8
147.5°	3.9	3.9	3.9	3.9	2.8	2.8	1.9	1.9	2.8	2.8	2.8
150°	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.0	1.9	1.9	1.9
152.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)