

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: P240431

Luminaire Tested: **UTLD-AF24-90-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240431
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-AF24-90-D-U-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8085.4 lumens
Efficiency: N/A
Efficacy: 86.0 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): 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



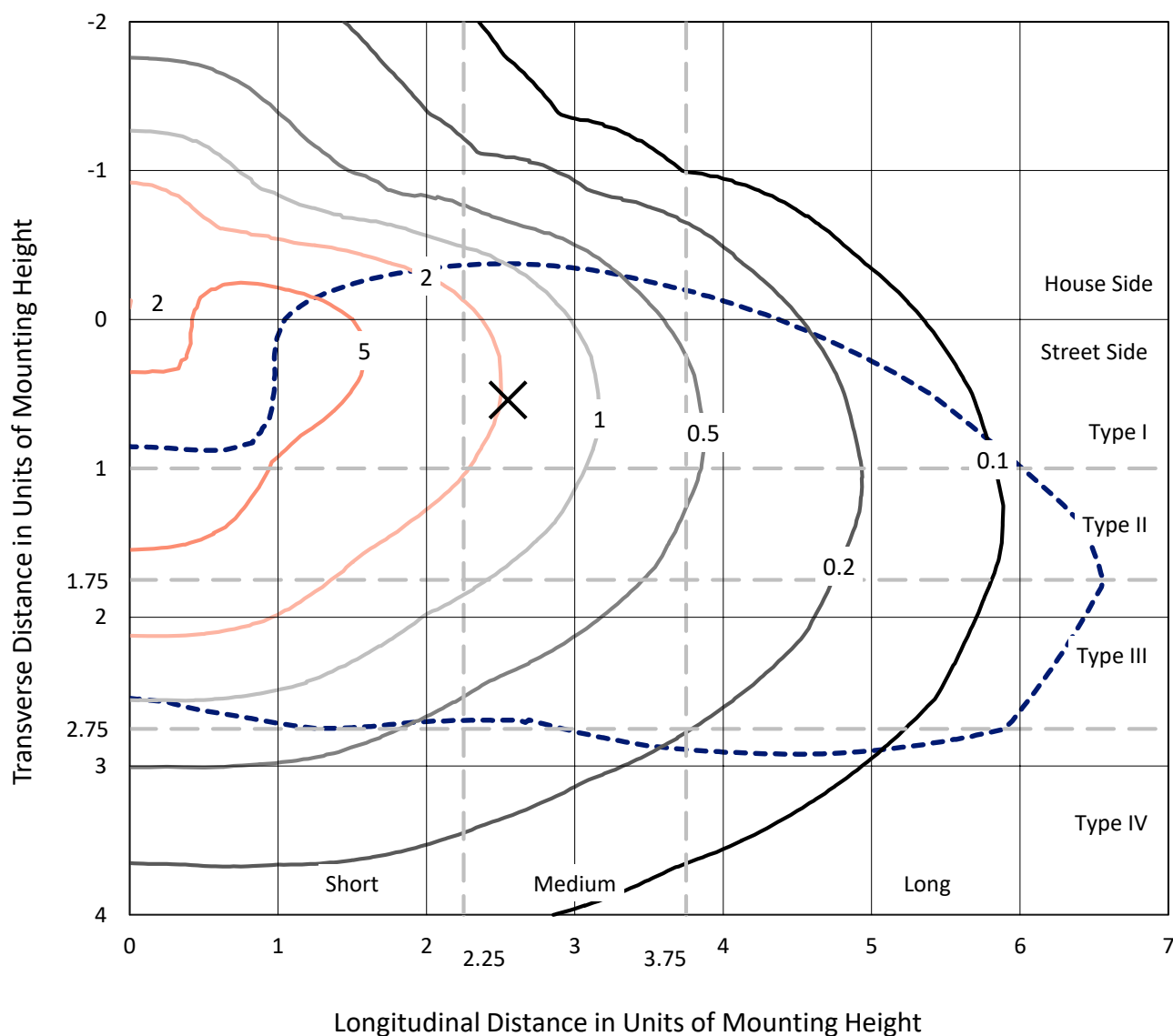
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

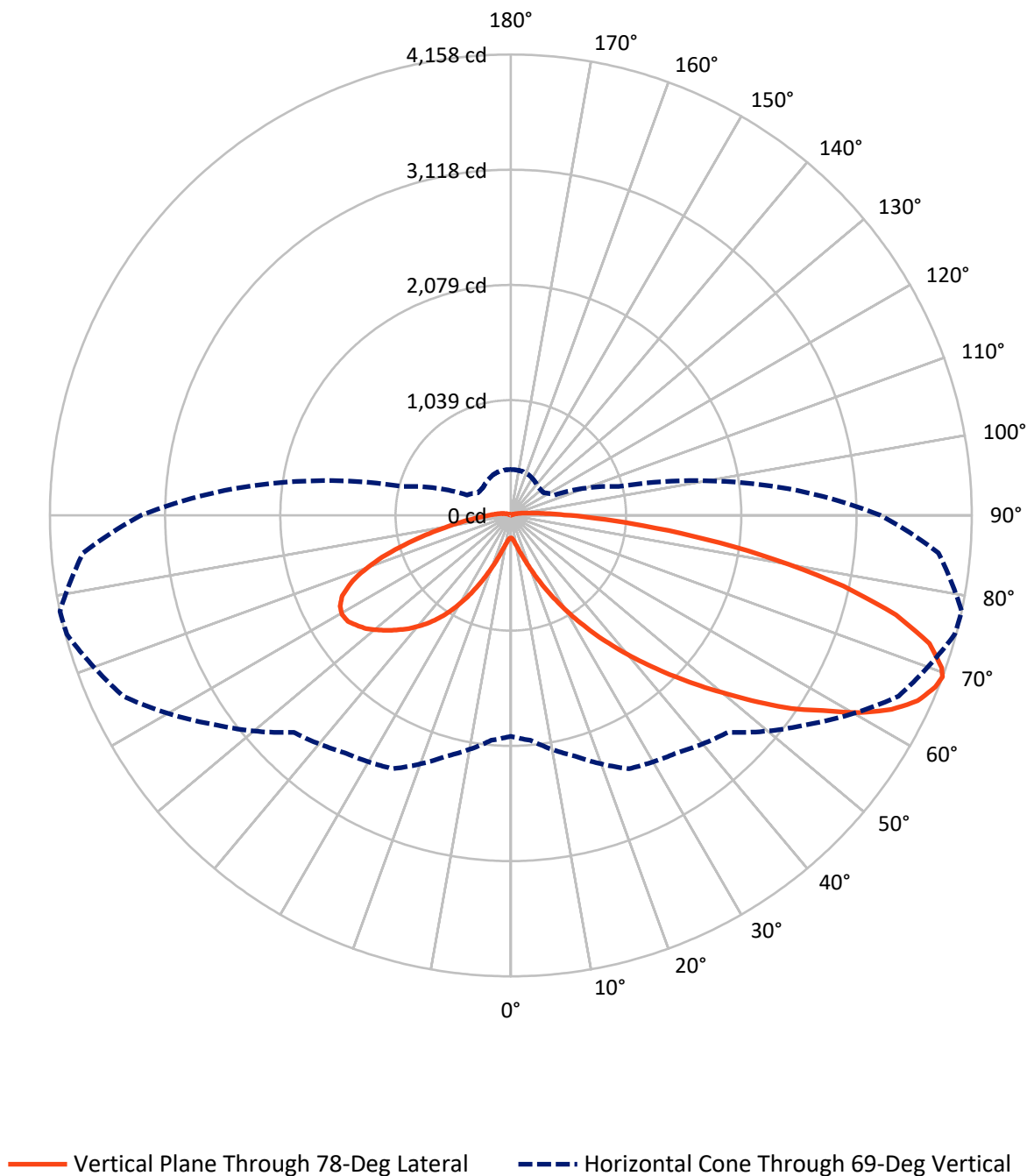


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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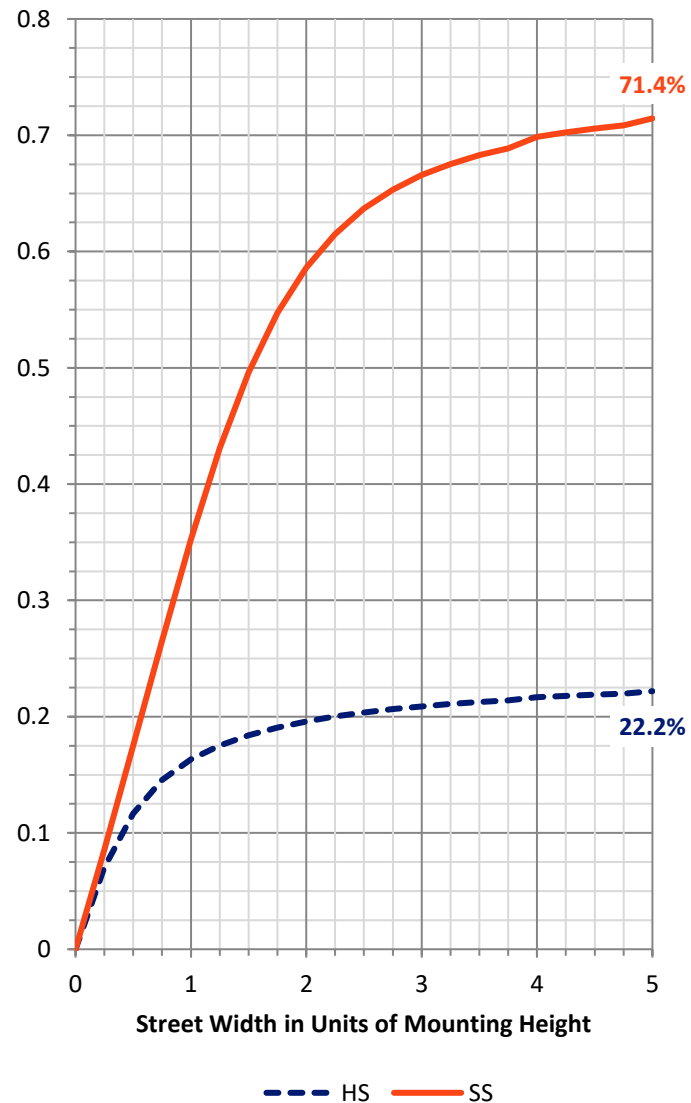
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.2	141.1	2019.4
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5911.0	155.1	6066.1
	% Fixture	73.1	1.9	75.0
Total	Lumens	7789.2	296.2	8085.4
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.3
10°-20°	103.8	1.3
20°-30°	296.2	3.7
30°-40°	629.6	7.8
40°-50°	1091.5	13.5
50°-60°	1634.1	20.2
60°-70°	1945.0	24.1
70°-80°	1483.6	18.3
80°-90°	582.8	7.2
90°-100°	171.1	2.1
100°-110°	69.2	0.9
110°-120°	31.2	0.4
120°-130°	15.1	0.2
130°-140°	7.1	0.1
140°-150°	2.2	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7789.2	96.3
0°-180°	8085.4	100.0

Coefficient of Utilization



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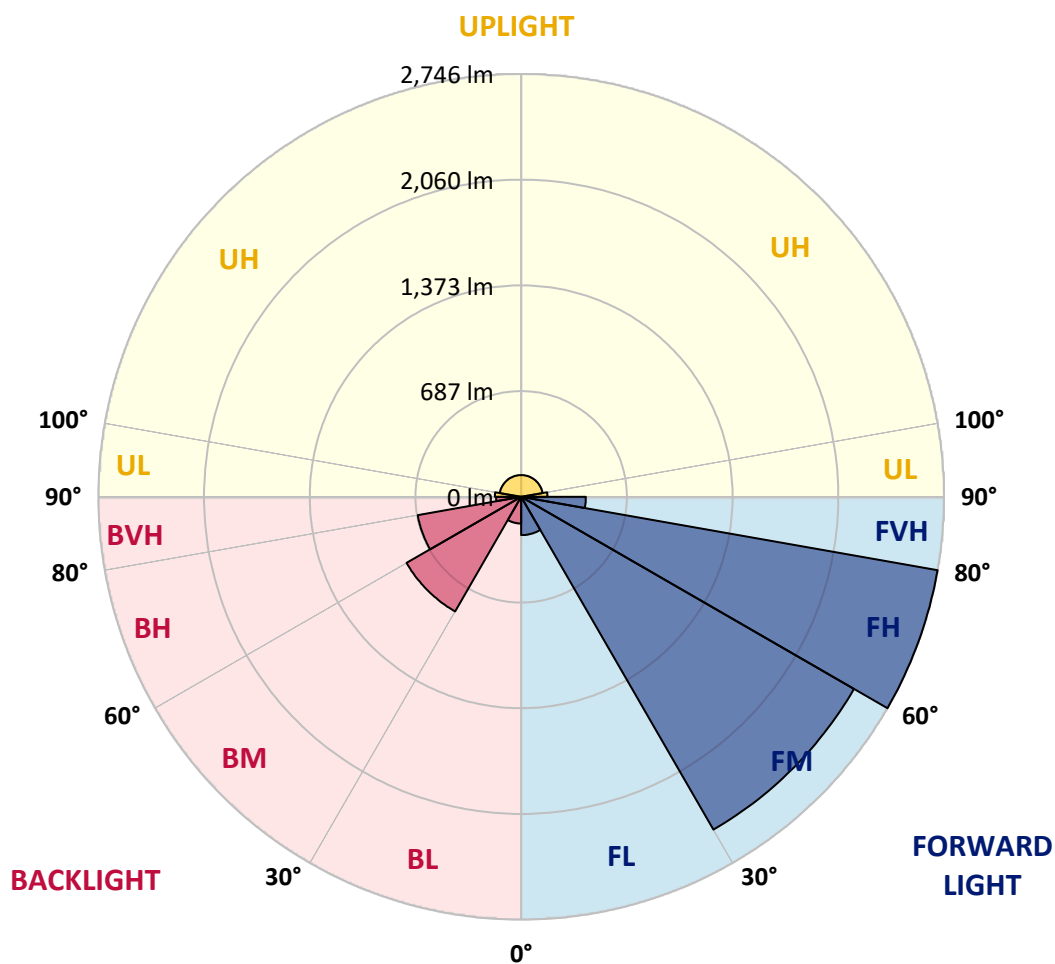
CATALOG NUMBER: UTLD-AF24-90-D-U-T3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.8	3.1			
FM	(30°-60°)	2495.8	30.9			
FH	(60°-80°)	2746.4	34.0			G2/5000
FVH	(80°-90°)	420.0	5.2			G3/500
BL	(0°-30°)	173.7	2.1	B1/500		
BM	(30°-60°)	859.5	10.6	B1/1000		
BH	(60°-80°)	682.2	8.4	B2/1000		G2/1000
BVH	(80°-90°)	162.9	2.0			G2/225
UL	(90°-100°)	171.1	2.1		U3/500	
UH	(100°-180°)	141.1	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°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2
2.5°	219.4	219.4	218.4	218.4	217.4	215.4	212.4	210.3	209.3	209.3	207.2
5°	244.0	244.0	241.9	241.9	238.9	235.8	231.7	226.6	223.5	222.5	219.4
7.5°	276.6	275.6	274.6	271.5	268.4	262.4	257.3	252.2	246.0	245.0	240.9
10°	318.4	316.4	316.4	312.3	306.3	299.1	289.9	282.7	276.6	275.6	271.5
12.5°	373.6	371.5	368.5	360.3	351.2	339.9	331.7	324.6	318.4	316.4	311.3
15°	438.9	437.9	429.7	419.5	403.2	388.9	379.7	373.6	371.5	369.5	364.4
17.5°	520.6	515.5	507.3	486.9	465.4	445.1	436.9	437.9	438.9	438.9	434.9
20°	611.4	609.4	597.2	569.6	540.0	514.4	507.3	513.4	521.6	521.6	520.6
22.5°	730.9	724.8	702.3	663.5	621.6	596.2	585.9	599.1	621.6	622.7	626.8
25°	861.5	859.5	823.8	766.6	713.5	682.9	675.8	692.1	732.9	736.0	747.2
27.5°	1006.5	1001.4	968.7	888.0	818.7	773.8	770.7	806.4	850.3	865.6	882.0
30°	1182.0	1176.9	1114.7	1021.8	937.0	877.9	878.9	924.8	992.2	1005.5	1029.0
32.5°	1363.8	1358.7	1294.3	1177.9	1065.7	992.2	994.2	1062.6	1140.2	1156.5	1182.0
35°	1573.0	1570.9	1486.2	1343.3	1201.5	1112.7	1127.9	1200.4	1296.4	1322.9	1345.4
37.5°	1799.6	1777.2	1694.5	1528.1	1350.5	1253.5	1264.8	1361.8	1475.0	1487.3	1509.7
40°	2027.3	2022.2	1923.1	1736.4	1521.9	1401.5	1416.8	1526.0	1648.6	1671.0	1683.3
42.5°	2267.2	2265.1	2148.7	1944.5	1699.5	1564.8	1579.1	1703.6	1840.5	1861.9	1868.0
45°	2522.3	2508.1	2392.7	2164.1	1904.7	1738.4	1763.9	1892.5	2053.8	2071.2	2074.2
47.5°	2741.8	2723.4	2636.7	2398.8	2104.8	1926.2	1945.6	2105.8	2275.2	2293.7	2286.5
50°	2939.9	2931.7	2843.9	2633.6	2324.2	2116.1	2143.6	2318.2	2509.1	2531.5	2524.3
52.5°	3069.5	3064.4	3028.7	2825.5	2517.2	2310.0	2348.8	2538.7	2764.2	2797.0	2759.1
55°	3133.8	3133.8	3140.9	2993.9	2693.8	2493.7	2554.0	2783.7	3029.7	3075.6	3022.5
57.5°	3128.7	3122.6	3181.8	3109.3	2829.6	2641.8	2759.1	3043.9	3302.2	3320.6	3293.0
60°	3012.3	3031.7	3135.8	3149.1	2926.6	2773.4	2955.1	3284.8	3562.5	3611.5	3527.7
62.5°	2826.5	2863.2	3015.4	3103.1	2953.1	2867.3	3123.6	3496.1	3804.5	3854.4	3735.0
65°	2570.3	2608.1	2794.9	2964.3	2900.0	2898.9	3238.9	3689.1	3997.3	4033.1	3872.8
67.5°	2248.8	2261.0	2476.4	2720.3	2750.0	2851.0	3294.0	3821.7	4137.2	4131.1	3921.8
69°	1992.5	2036.4	2248.8	2521.3	2613.1	2767.3	3283.8	3858.5	4145.3	4157.6	3872.8
70°	1862.9	1871.1	2080.4	2357.0	2517.2	2691.8	3249.1	3850.4	4132.1	4122.9	3816.6
72.5°	1446.5	1462.7	1654.6	1955.8	2177.4	2440.7	3078.7	3712.5	3971.8	3948.4	3527.7
75°	1032.0	1059.6	1236.1	1518.9	1781.3	2113.0	2764.2	3416.6	3642.1	3588.0	3112.3
77.5°	704.3	732.9	864.6	1123.9	1385.2	1746.6	2331.4	2968.4	3123.6	3067.4	2543.8
80°	452.2	471.6	575.7	780.9	1029.9	1341.3	1856.8	2378.4	2516.2	2416.2	1944.5
82.5°	299.1	311.3	383.8	528.8	720.7	989.1	1377.0	1777.2	1838.4	1775.1	1362.8
85°	202.1	210.3	262.4	359.3	505.2	696.1	974.9	1236.1	1286.2	1198.4	908.5
87.5°	138.8	147.0	188.8	251.1	351.2	485.9	653.3	830.9	815.6	774.8	593.1
90°	99.0	106.2	135.7	178.6	248.1	337.9	435.9	525.7	523.6	483.9	378.7
92.5°	71.5	77.5	103.1	133.7	183.7	236.8	294.0	330.7	330.7	314.4	251.1
95°	54.1	58.2	78.6	102.1	137.8	175.5	205.2	224.5	220.4	208.3	181.7
97.5°	42.9	45.9	62.3	82.7	109.3	135.7	153.1	155.2	152.1	148.0	134.7
100°	35.7	37.7	52.1	69.5	90.8	110.3	118.5	115.4	111.3	110.3	103.1
102.5°	30.6	31.6	44.9	60.3	77.5	91.9	94.9	89.8	84.7	83.7	80.6
105°	27.5	27.5	38.8	52.1	66.4	76.5	78.6	72.4	65.4	63.3	62.3
107.5°	24.4	25.5	33.7	45.9	57.2	65.4	65.4	58.2	50.0	48.0	48.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	22.5	22.5	29.6	40.8	50.0	56.2	55.1	47.0	38.8	36.7	37.7
112.5°	20.5	20.5	26.5	35.7	43.9	48.0	45.9	37.7	30.6	29.6	29.6
115°	19.4	19.4	23.5	31.6	37.7	40.8	38.8	30.6	24.4	23.5	24.4
117.5°	17.4	18.4	21.5	27.5	32.6	35.7	32.6	25.5	20.5	19.4	21.5
120°	16.4	17.4	19.4	23.5	28.5	30.6	26.5	21.5	17.4	17.4	18.4
122.5°	15.3	16.4	17.4	21.5	24.4	25.5	22.5	17.4	14.3	15.3	16.4
125°	15.3	15.3	16.4	18.4	21.5	21.5	18.4	14.3	13.3	13.3	14.3
127.5°	14.3	14.3	14.3	16.4	18.4	18.4	15.3	12.3	11.3	12.3	13.3
130°	13.3	13.3	13.3	14.3	15.3	15.3	13.3	10.2	10.2	10.2	11.3
132.5°	12.3	12.3	12.3	12.3	13.3	12.3	10.2	8.2	9.2	9.2	10.2
135°	11.3	11.3	11.3	11.3	10.2	9.2	7.2	7.2	8.2	8.2	9.2
137.5°	10.2	10.2	10.2	9.2	8.2	7.2	6.1	6.1	7.2	7.2	8.2
140°	9.2	9.2	9.2	7.2	6.1	5.1	4.1	4.1	6.1	6.1	6.1
142.5°	8.2	8.2	7.2	6.1	5.1	3.1	2.0	3.1	4.1	4.1	5.1
145°	6.1	6.1	6.1	5.1	3.1	2.0	1.0	2.0	3.1	3.1	4.1
147.5°	5.1	5.1	5.1	4.1	2.0	1.0	1.0	1.0	2.0	2.0	3.1
150°	4.1	4.1	3.1	3.1	1.0	0.0	0.0	1.0	1.0	2.0	2.0
152.5°	3.1	2.0	2.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	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°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2
2.5°	206.2	205.2	204.2	202.1	201.1	199.1	197.0	195.0	195.0	195.0	194.0
5°	218.4	216.4	213.4	209.3	206.2	203.2	200.1	197.0	196.0	195.0	195.0
7.5°	237.8	235.8	229.7	224.5	218.4	214.4	209.3	207.2	205.2	204.2	204.2
10°	267.4	263.3	255.2	247.0	239.9	231.7	226.6	223.5	220.4	219.4	220.4
12.5°	307.3	300.1	289.9	277.6	265.4	255.2	249.1	246.0	245.0	244.0	244.0
15°	362.3	357.3	336.9	315.4	298.1	283.8	275.6	272.5	278.7	280.7	280.7
17.5°	433.8	424.6	400.2	370.5	334.8	313.3	307.3	312.3	317.4	323.6	324.6
20°	522.6	507.3	475.7	427.7	379.7	349.1	344.0	350.2	362.3	370.5	371.5
22.5°	619.6	609.4	560.4	489.0	424.6	388.9	377.7	386.9	406.3	417.5	418.5
25°	744.1	727.8	654.3	556.3	471.6	421.6	408.3	421.6	445.1	462.4	463.4
27.5°	879.9	854.4	758.4	623.7	511.4	449.2	432.8	450.2	481.8	502.3	504.2
30°	1020.8	985.0	861.5	687.0	547.2	467.5	450.2	471.6	507.3	530.8	533.9
32.5°	1168.8	1125.9	956.5	742.0	570.6	477.7	459.3	484.9	522.6	547.2	550.2
35°	1319.8	1265.8	1045.3	781.9	581.9	479.8	460.3	489.0	525.7	551.2	554.2
37.5°	1479.1	1399.5	1122.9	809.5	583.9	473.6	456.2	484.9	519.6	543.1	545.1
40°	1633.2	1530.1	1188.2	821.7	576.7	464.4	446.1	475.7	505.2	522.6	524.7
42.5°	1802.6	1671.0	1245.3	821.7	562.4	453.3	434.9	462.4	485.9	498.2	499.2
45°	1975.2	1811.9	1290.2	811.5	544.1	438.9	423.6	448.2	466.5	471.6	471.6
47.5°	2174.3	1959.9	1332.1	794.1	523.6	424.6	412.4	434.9	448.2	448.2	449.2
50°	2374.3	2115.1	1363.8	769.7	500.2	412.4	403.2	424.6	434.9	428.7	428.7
52.5°	2590.7	2274.2	1393.4	738.1	478.7	401.2	397.1	419.5	426.7	417.5	415.4
55°	2809.1	2424.3	1399.5	698.2	454.3	392.0	394.0	415.4	422.6	412.4	411.3
57.5°	3042.9	2578.4	1398.5	652.2	432.8	384.8	391.0	414.4	421.6	411.3	410.3
60°	3223.6	2700.0	1365.7	604.3	413.4	377.7	389.9	413.4	421.6	413.4	413.4
62.5°	3386.9	2771.4	1304.6	553.2	395.1	372.6	386.9	411.3	419.5	415.4	415.4
65°	3461.5	2791.8	1210.7	503.2	379.7	366.4	384.8	408.3	417.5	416.4	417.5
67.5°	3415.5	2696.9	1086.1	458.3	365.4	359.3	379.7	403.2	413.4	415.4	416.4
69°	3335.8	2590.7	1008.5	434.9	357.3	354.2	375.6	398.1	410.3	413.4	413.4
70°	3265.5	2499.9	944.2	420.5	351.2	351.2	373.6	395.1	407.2	410.3	411.3
72.5°	2924.5	2203.8	798.2	382.8	337.9	340.9	363.4	384.8	398.1	401.2	401.2
75°	2506.0	1807.8	650.2	351.2	322.5	329.7	351.2	371.5	383.8	386.9	385.9
77.5°	1995.6	1401.5	527.7	323.6	305.2	312.3	334.8	354.2	366.4	368.5	364.4
80°	1489.3	1021.8	427.7	295.0	284.8	294.0	314.4	330.7	343.0	344.0	337.9
82.5°	1032.0	738.1	348.1	267.4	262.4	269.4	287.9	302.2	313.3	310.4	307.3
85°	688.0	506.3	284.8	236.8	236.8	245.0	258.3	267.4	278.7	274.6	268.4
87.5°	453.3	349.1	233.7	207.2	209.3	216.4	226.6	229.7	239.9	236.8	229.7
90°	307.3	251.1	191.9	178.6	181.7	188.8	194.0	194.0	201.1	196.0	192.9
92.5°	218.4	191.9	160.3	154.2	157.2	163.4	164.4	160.3	166.4	163.4	159.3
95°	164.4	151.1	135.7	132.7	136.8	140.9	139.8	133.7	135.7	133.7	132.7
97.5°	127.6	123.5	115.4	113.3	117.4	120.4	118.5	111.3	112.3	110.3	108.2
100°	103.1	100.0	98.0	98.0	101.1	102.1	99.0	92.9	91.9	88.8	89.8
102.5°	81.6	81.6	82.7	84.7	86.7	86.7	82.7	77.5	75.5	72.4	72.4
105°	64.3	65.4	69.5	70.5	72.4	72.4	68.4	64.3	60.3	57.2	57.2
107.5°	50.0	52.1	56.2	59.2	61.3	60.3	57.2	53.1	48.0	44.9	44.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	39.8	41.8	45.9	50.0	51.0	51.0	48.0	42.9	36.7	35.7	35.7
112.5°	32.6	33.7	38.8	41.8	42.9	42.9	39.8	35.7	29.6	28.5	28.5
115°	26.5	27.5	31.6	34.7	35.7	35.7	33.7	29.6	23.5	23.5	23.5
117.5°	22.5	23.5	26.5	29.6	30.6	30.6	27.5	23.5	19.4	19.4	19.4
120°	19.4	20.5	22.5	24.4	25.5	25.5	23.5	19.4	16.4	16.4	16.4
122.5°	17.4	18.4	19.4	21.5	22.5	22.5	19.4	15.3	14.3	14.3	14.3
125°	15.3	16.4	17.4	18.4	19.4	18.4	16.4	13.3	12.3	13.3	13.3
127.5°	13.3	14.3	15.3	15.3	16.4	15.3	13.3	11.3	10.2	11.3	11.3
130°	12.3	12.3	13.3	13.3	14.3	13.3	11.3	9.2	9.2	10.2	10.2
132.5°	11.3	11.3	11.3	11.3	12.3	11.3	9.2	7.2	8.2	9.2	9.2
135°	9.2	9.2	10.2	9.2	10.2	8.2	7.2	6.1	7.2	8.2	8.2
137.5°	8.2	8.2	8.2	8.2	7.2	7.2	5.1	5.1	6.1	7.2	6.1
140°	7.2	7.2	7.2	6.1	6.1	5.1	4.1	4.1	5.1	5.1	5.1
142.5°	5.1	5.1	5.1	5.1	4.1	3.1	2.0	3.1	3.1	4.1	4.1
145°	4.1	4.1	4.1	3.1	2.0	2.0	1.0	2.0	2.0	3.1	3.1
147.5°	3.1	3.1	3.1	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0
150°	2.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	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)