

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: P240432

Luminaire Tested: **UTLD-AF24-100-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240432
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-AF24-100-D-U-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 8102.7 lumens
Efficiency: N/A
Efficacy: 84.4 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): 96
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



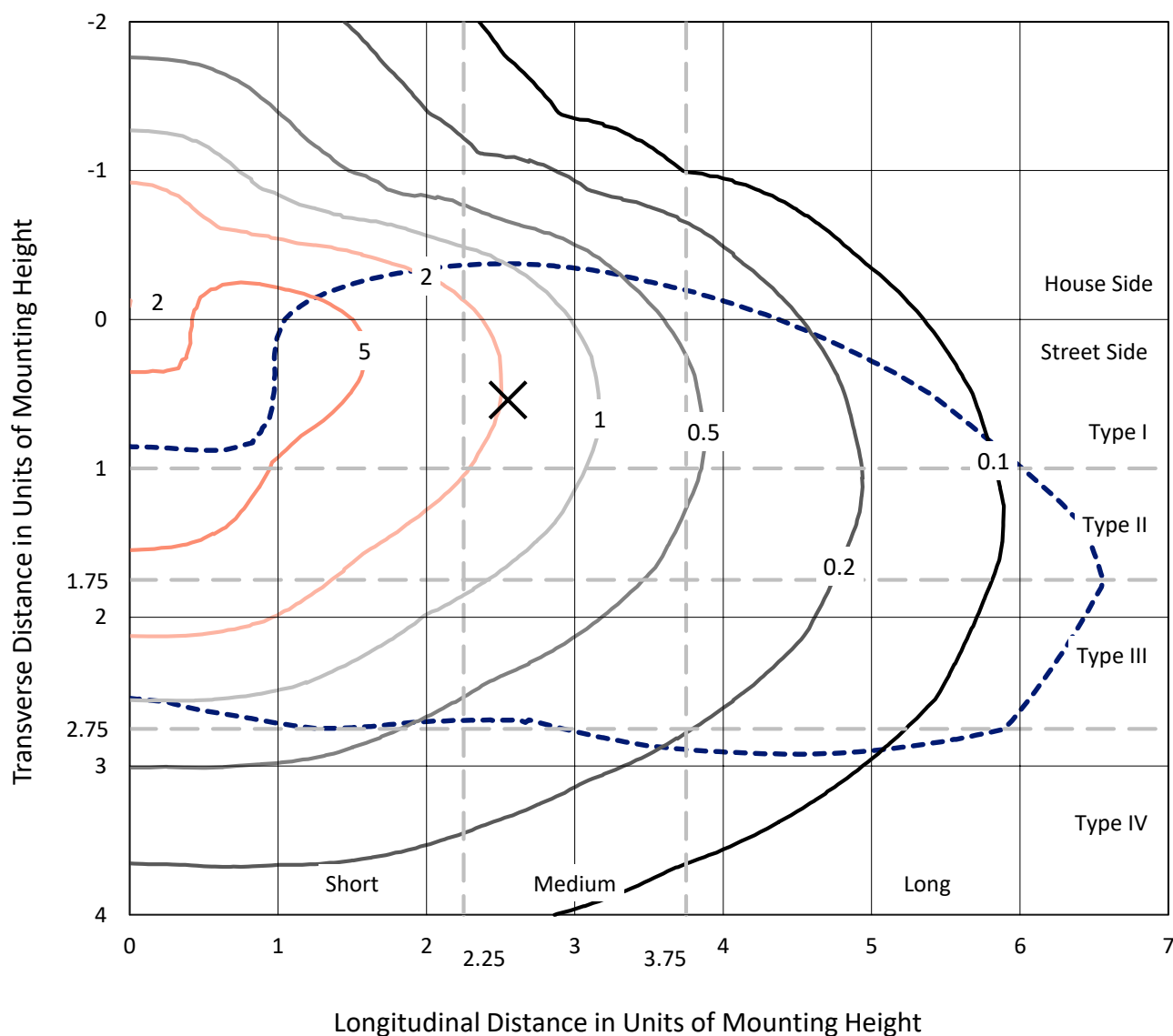
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

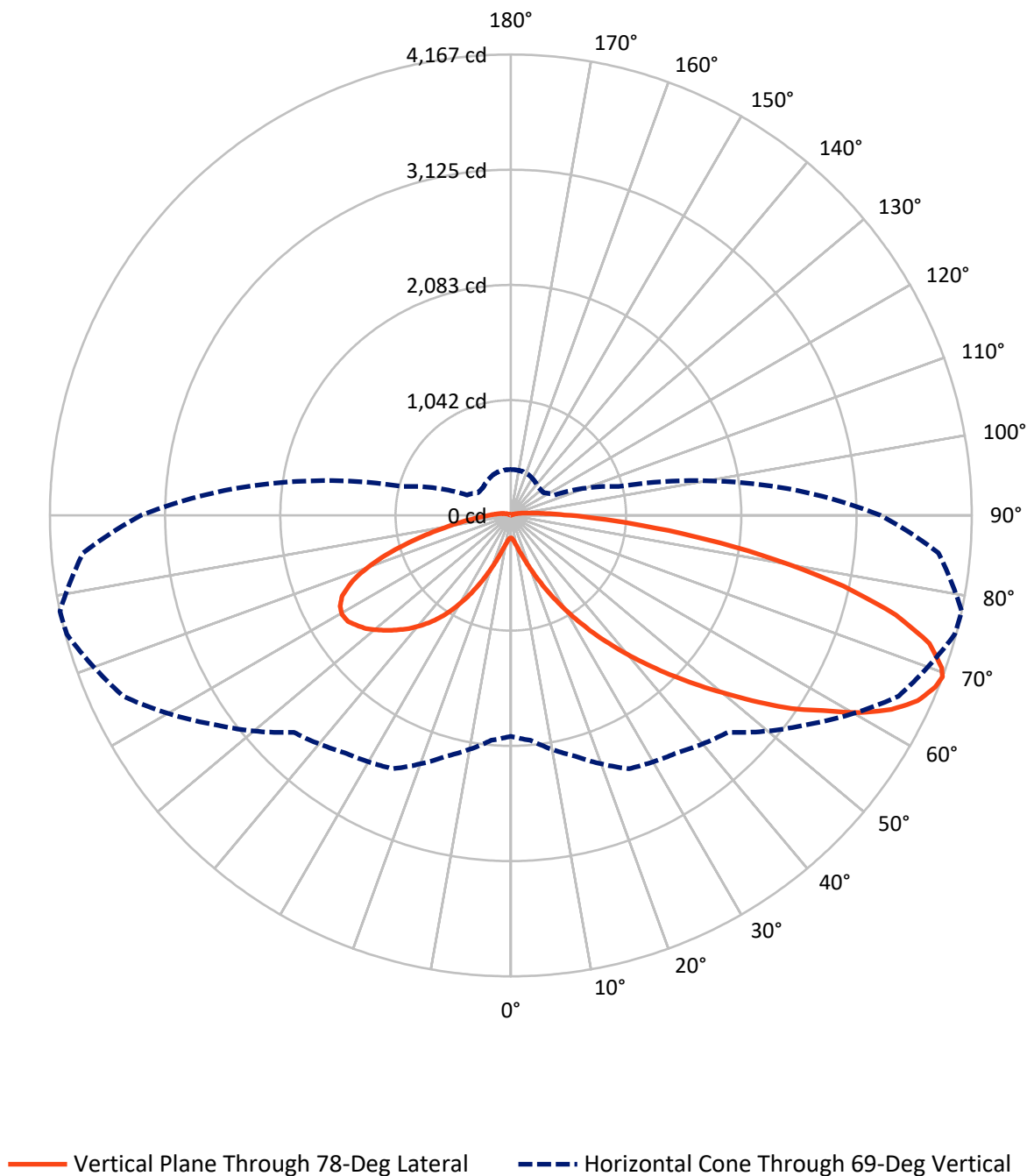


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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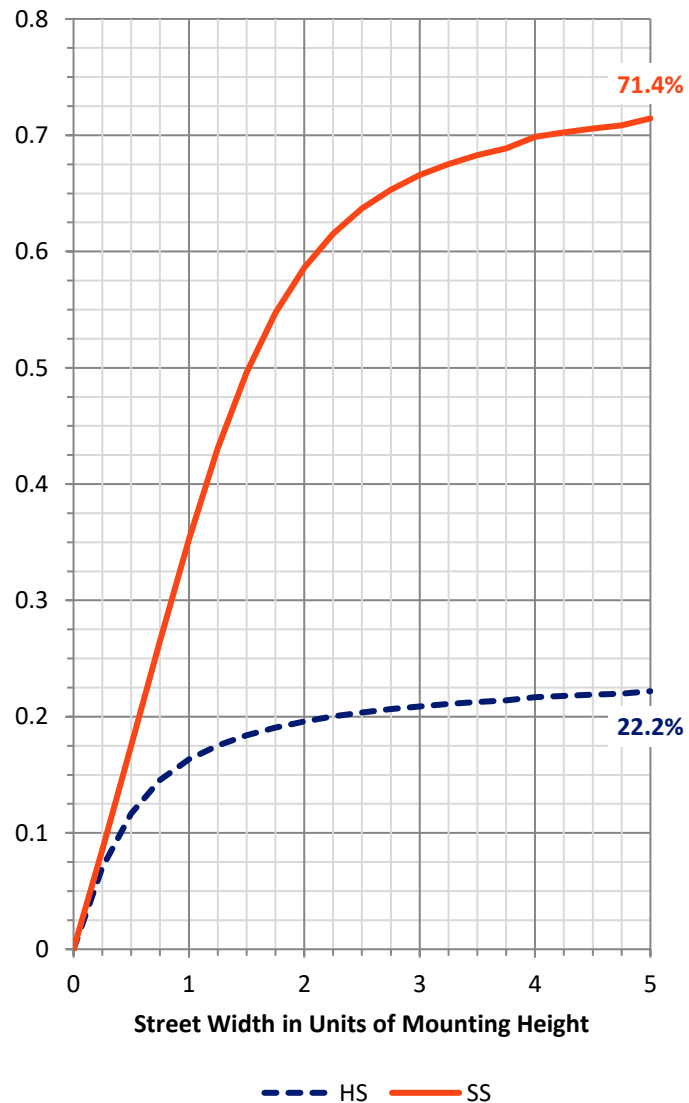
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1882.3	141.4	2023.7
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5923.6	155.4	6079.0
	% Fixture	73.1	1.9	75.0
Total	Lumens	7805.9	296.8	8102.7
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.3
10°-20°	104.1	1.3
20°-30°	296.9	3.7
30°-40°	631.0	7.8
40°-50°	1093.8	13.5
50°-60°	1637.6	20.2
60°-70°	1949.2	24.1
70°-80°	1486.8	18.3
80°-90°	584.1	7.2
90°-100°	171.5	2.1
100°-110°	69.4	0.9
110°-120°	31.3	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°	7805.9	96.3
0°-180°	8102.7	100.0

Coefficient of Utilization



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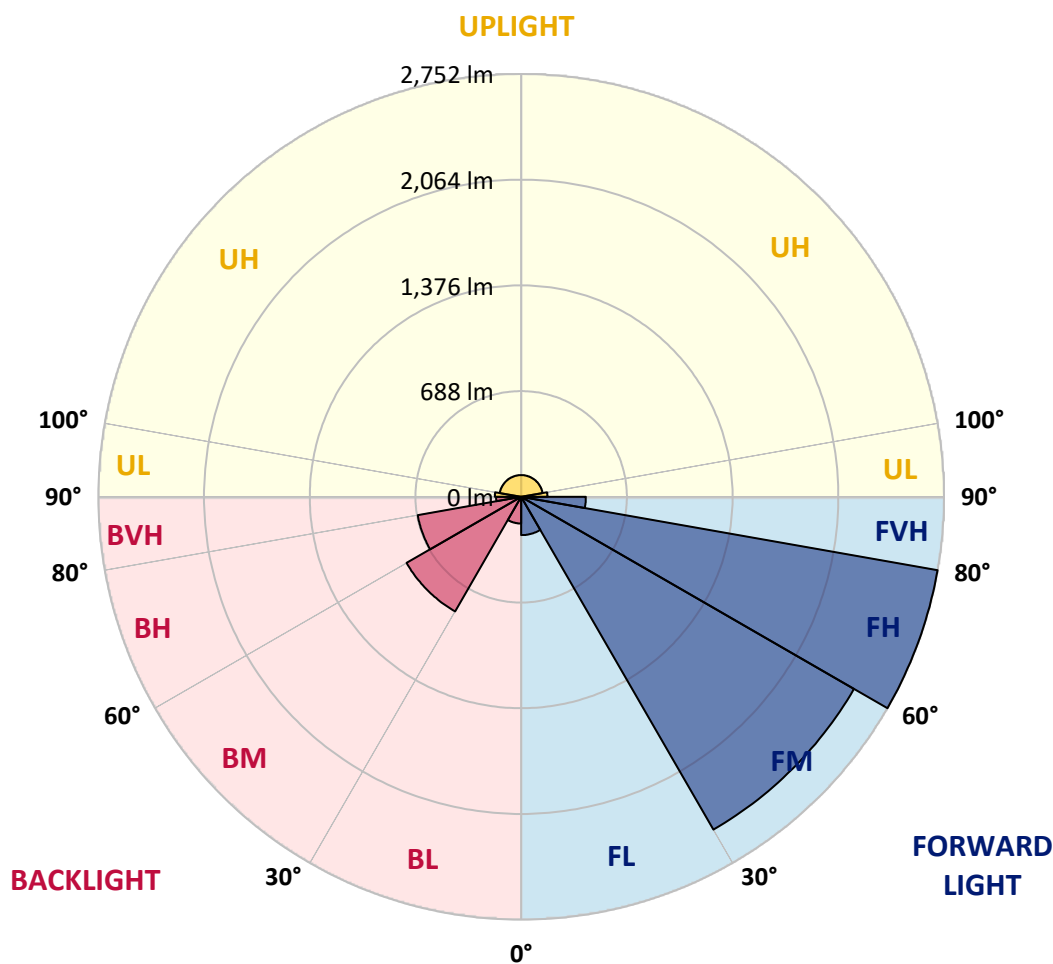
CATALOG NUMBER: UTLD-AF24-100-D-U-T3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.3	3.1			
FM	(30°-60°)	2501.1	30.9			
FH	(60°-80°)	2752.3	34.0			G2/5000
FVH	(80°-90°)	420.9	5.2			G3/500
BL	(0°-30°)	174.1	2.1	B1/500		
BM	(30°-60°)	861.3	10.6	B1/1000		
BH	(60°-80°)	683.7	8.4	B2/1000		G2/1000
BVH	(80°-90°)	163.2	2.0			G2/225
UL	(90°-100°)	171.5	2.1		U3/500	
UH	(100°-180°)	141.4	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°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	219.9	219.9	218.9	218.9	217.9	215.8	212.8	210.7	209.7	209.7	207.7
5°	244.5	244.5	242.4	242.4	239.4	236.3	232.2	227.1	224.0	223.0	219.9
7.5°	277.2	276.2	275.2	272.1	269.0	262.9	257.8	252.7	246.5	245.5	241.4
10°	319.2	317.1	317.1	313.0	306.9	299.7	290.5	283.4	277.2	276.2	272.1
12.5°	374.4	372.4	369.3	361.1	351.9	340.6	332.5	325.3	319.2	317.1	312.0
15°	439.9	438.8	430.7	420.4	404.1	389.7	380.5	374.4	372.4	370.3	365.2
17.5°	521.7	516.6	508.4	487.9	466.5	446.0	437.8	438.8	439.9	439.9	435.8
20°	612.7	610.7	598.4	570.8	541.1	515.6	508.4	514.5	522.7	522.7	521.7
22.5°	732.4	726.3	703.8	664.9	623.0	597.4	587.2	600.5	623.0	624.0	628.1
25°	863.4	861.3	825.5	768.2	715.0	684.4	677.2	693.6	734.5	737.5	748.8
27.5°	1008.6	1003.5	970.8	890.0	820.4	775.4	772.3	808.1	852.1	867.5	883.8
30°	1184.6	1179.5	1117.1	1024.0	939.1	879.7	880.8	926.8	994.3	1007.6	1031.1
32.5°	1366.7	1361.5	1297.1	1180.5	1068.0	994.3	996.4	1064.9	1142.6	1159.0	1184.6
35°	1576.4	1574.3	1489.4	1346.2	1204.0	1115.0	1130.4	1203.0	1299.1	1325.7	1348.2
37.5°	1803.5	1781.0	1698.1	1531.4	1353.4	1256.2	1267.4	1364.6	1478.2	1490.4	1512.9
40°	2031.6	2026.5	1927.2	1740.0	1525.2	1404.5	1419.9	1529.3	1652.1	1674.6	1686.8
42.5°	2272.0	2269.9	2153.3	1948.7	1703.2	1568.2	1582.5	1707.3	1844.4	1865.9	1872.0
45°	2527.7	2513.4	2397.8	2168.7	1908.8	1742.1	1767.7	1896.6	2058.2	2075.6	2078.6
47.5°	2747.6	2729.2	2642.3	2403.9	2109.3	1930.3	1949.7	2110.3	2280.2	2298.6	2291.4
50°	2946.1	2937.9	2849.9	2639.2	2329.3	2120.6	2148.2	2323.1	2514.4	2536.9	2529.8
52.5°	3076.0	3070.9	3035.1	2831.5	2522.6	2314.9	2353.8	2544.1	2770.2	2802.9	2765.0
55°	3140.5	3140.5	3147.6	3000.3	2699.6	2499.1	2559.4	2789.6	3036.1	3082.2	3029.0
57.5°	3135.3	3129.2	3188.5	3115.9	2835.6	2647.4	2765.0	3050.4	3309.2	3327.7	3300.0
60°	3018.7	3038.2	3142.5	3155.8	2932.8	2779.4	2961.4	3291.9	3570.1	3619.2	3535.3
62.5°	2832.6	2869.4	3021.8	3109.8	2959.4	2873.5	3130.2	3503.6	3812.6	3862.8	3743.1
65°	2575.8	2613.6	2800.8	2970.6	2906.2	2905.2	3245.8	3696.9	4006.0	4041.8	3881.2
67.5°	2253.6	2265.8	2481.7	2726.2	2755.8	2857.1	3301.1	3830.0	4146.1	4140.0	3930.3
69°	1996.8	2040.8	2253.6	2526.7	2618.8	2773.2	3290.8	3866.9	4154.3	4166.6	3881.2
70°	1866.9	1875.1	2084.8	2362.0	2522.6	2697.5	3256.1	3858.7	4141.0	4131.8	3824.9
72.5°	1449.5	1465.9	1658.2	1960.0	2182.0	2445.9	3085.2	3720.6	3980.4	3956.9	3535.3
75°	1034.2	1061.8	1238.8	1522.2	1785.0	2117.5	2770.2	3423.8	3649.9	3595.7	3119.0
77.5°	705.8	734.5	866.4	1126.3	1388.1	1750.3	2336.4	2974.7	3130.2	3074.0	2549.2
80°	453.2	472.6	576.9	782.6	1032.2	1344.2	1860.7	2383.5	2521.6	2421.3	1948.7
82.5°	299.7	312.0	384.6	529.9	722.2	991.2	1380.0	1781.0	1842.3	1778.9	1365.6
85°	202.5	210.7	262.9	360.1	506.4	697.7	976.9	1238.8	1288.9	1200.9	910.4
87.5°	139.1	147.3	189.2	251.6	351.9	486.9	654.7	832.7	817.3	776.4	594.3
90°	99.2	106.4	136.1	179.0	248.6	338.6	436.8	526.8	524.8	484.9	379.5
92.5°	71.6	77.7	103.3	134.0	184.1	237.3	294.6	331.4	331.4	315.1	251.6
95°	54.2	58.3	78.8	102.3	138.1	175.9	205.6	225.0	221.0	208.7	182.1
97.5°	43.0	46.0	62.4	82.9	109.5	136.1	153.4	155.5	152.4	148.3	135.0
100°	35.8	37.8	52.2	69.6	91.0	110.5	118.7	115.6	111.5	110.5	103.3
102.5°	30.7	31.7	45.0	60.4	77.7	92.1	95.1	90.0	84.9	83.9	80.8
105°	27.6	27.6	38.9	52.2	66.5	76.7	78.8	72.6	65.5	63.4	62.4
107.5°	24.6	25.6	33.8	46.0	57.3	65.5	65.5	58.3	50.1	48.1	48.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	22.5	22.5	29.7	40.9	50.1	56.3	55.2	47.1	38.9	36.8	37.8
112.5°	20.5	20.5	26.6	35.8	44.0	48.1	46.0	37.8	30.7	29.7	29.7
115°	19.4	19.4	23.5	31.7	37.8	40.9	38.9	30.7	24.6	23.5	24.6
117.5°	17.4	18.4	21.5	27.6	32.7	35.8	32.7	25.6	20.5	19.4	21.5
120°	16.4	17.4	19.4	23.5	28.6	30.7	26.6	21.5	17.4	17.4	18.4
122.5°	15.3	16.4	17.4	21.5	24.6	25.6	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°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	206.6	205.6	204.6	202.5	201.5	199.5	197.4	195.4	195.4	195.4	194.4
5°	218.9	216.9	213.8	209.7	206.6	203.6	200.5	197.4	196.4	195.4	195.4
7.5°	238.3	236.3	230.2	225.0	218.9	214.8	209.7	207.7	205.6	204.6	204.6
10°	268.0	263.9	255.7	247.6	240.4	232.2	227.1	224.0	221.0	219.9	221.0
12.5°	307.9	300.7	290.5	278.2	266.0	255.7	249.6	246.5	245.5	244.5	244.5
15°	363.1	358.0	337.6	316.1	298.7	284.4	276.2	273.1	279.3	281.3	281.3
17.5°	434.8	425.5	401.0	371.3	335.5	314.0	307.9	313.0	318.1	324.3	325.3
20°	523.8	508.4	476.7	428.6	380.5	349.8	344.7	350.9	363.1	371.3	372.4
22.5°	620.9	610.7	561.6	490.0	425.5	389.7	378.5	387.7	407.1	418.4	419.4
25°	745.7	729.4	655.7	557.5	472.6	422.5	409.2	422.5	446.0	463.4	464.4
27.5°	881.8	856.2	760.1	625.0	512.5	450.1	433.7	451.1	482.8	503.3	505.3
30°	1023.0	987.1	863.4	688.4	548.3	468.5	451.1	472.6	508.4	531.9	535.0
32.5°	1171.3	1128.3	958.5	743.7	571.8	478.7	460.3	485.9	523.8	548.3	551.4
35°	1322.7	1268.5	1047.5	783.6	583.1	480.8	461.4	490.0	526.8	552.4	555.5
37.5°	1482.3	1402.5	1125.2	811.2	585.1	474.6	457.3	485.9	520.7	544.2	546.3
40°	1636.7	1533.4	1190.7	823.5	578.0	465.4	447.0	476.7	506.4	523.8	525.8
42.5°	1806.5	1674.6	1248.0	823.5	563.6	454.2	435.8	463.4	486.9	499.2	500.2
45°	1979.4	1815.7	1293.0	813.2	545.2	439.9	424.5	449.1	467.5	472.6	472.6
47.5°	2178.9	1964.1	1335.0	795.9	524.8	425.5	413.3	435.8	449.1	449.1	450.1
50°	2379.4	2119.6	1366.7	771.3	501.2	413.3	404.1	425.5	435.8	429.6	429.6
52.5°	2596.2	2279.1	1396.3	739.6	479.8	402.0	397.9	420.4	427.6	418.4	416.3
55°	2815.2	2429.5	1402.5	699.7	455.2	392.8	394.9	416.3	423.5	413.3	412.2
57.5°	3049.4	2584.0	1401.4	653.7	433.7	385.7	391.8	415.3	422.5	412.2	411.2
60°	3230.5	2705.7	1368.7	605.6	414.3	378.5	390.8	414.3	422.5	414.3	414.3
62.5°	3394.2	2777.3	1307.3	554.4	395.9	373.4	387.7	412.2	420.4	416.3	416.3
65°	3468.8	2797.8	1213.2	504.3	380.5	367.2	385.7	409.2	418.4	417.4	418.4
67.5°	3422.8	2702.6	1088.4	459.3	366.2	360.1	380.5	404.1	414.3	416.3	417.4
69°	3343.0	2596.2	1010.7	435.8	358.0	355.0	376.4	399.0	411.2	414.3	414.3
70°	3272.4	2505.2	946.2	421.5	351.9	351.9	374.4	395.9	408.2	411.2	412.2
72.5°	2930.8	2208.6	799.9	383.6	338.6	341.7	364.2	385.7	399.0	402.0	402.0
75°	2511.3	1811.6	651.6	351.9	323.3	330.4	351.9	372.4	384.6	387.7	386.7
77.5°	1999.9	1404.5	528.9	324.3	305.9	313.0	335.5	355.0	367.2	369.3	365.2
80°	1492.5	1024.0	428.6	295.6	285.4	294.6	315.1	331.4	343.7	344.7	338.6
82.5°	1034.2	739.6	348.8	268.0	262.9	270.1	288.5	302.8	314.0	311.0	307.9
85°	689.5	507.4	285.4	237.3	237.3	245.5	258.8	268.0	279.3	275.2	269.0
87.5°	454.2	349.8	234.3	207.7	209.7	216.9	227.1	230.2	240.4	237.3	230.2
90°	307.9	251.6	192.3	179.0	182.1	189.2	194.4	194.4	201.5	196.4	193.3
92.5°	218.9	192.3	160.6	154.5	157.5	163.7	164.7	160.6	166.7	163.7	159.6
95°	164.7	151.4	136.1	133.0	137.1	141.2	140.1	134.0	136.1	134.0	133.0
97.5°	127.9	123.8	115.6	113.5	117.6	120.7	118.7	111.5	112.5	110.5	108.4
100°	103.3	100.2	98.2	98.2	101.3	102.3	99.2	93.1	92.1	89.0	90.0
102.5°	81.8	81.8	82.9	84.9	87.0	87.0	82.9	77.7	75.7	72.6	72.6
105°	64.4	65.5	69.6	70.6	72.6	72.6	68.5	64.4	60.4	57.3	57.3
107.5°	50.1	52.2	56.3	59.3	61.4	60.4	57.3	53.2	48.1	45.0	45.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	39.9	41.9	46.0	50.1	51.1	51.1	48.1	43.0	36.8	35.8	35.8
112.5°	32.7	33.8	38.9	41.9	43.0	43.0	39.9	35.8	29.7	28.6	28.6
115°	26.6	27.6	31.7	34.8	35.8	35.8	33.8	29.7	23.5	23.5	23.5
117.5°	22.5	23.5	26.6	29.7	30.7	30.7	27.6	23.5	19.4	19.4	19.4
120°	19.4	20.5	22.5	24.6	25.6	25.6	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)