

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: P266560

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266560
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-AF24-100-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 6826.2 lumens
Efficiency: N/A
Efficacy: 71.1 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

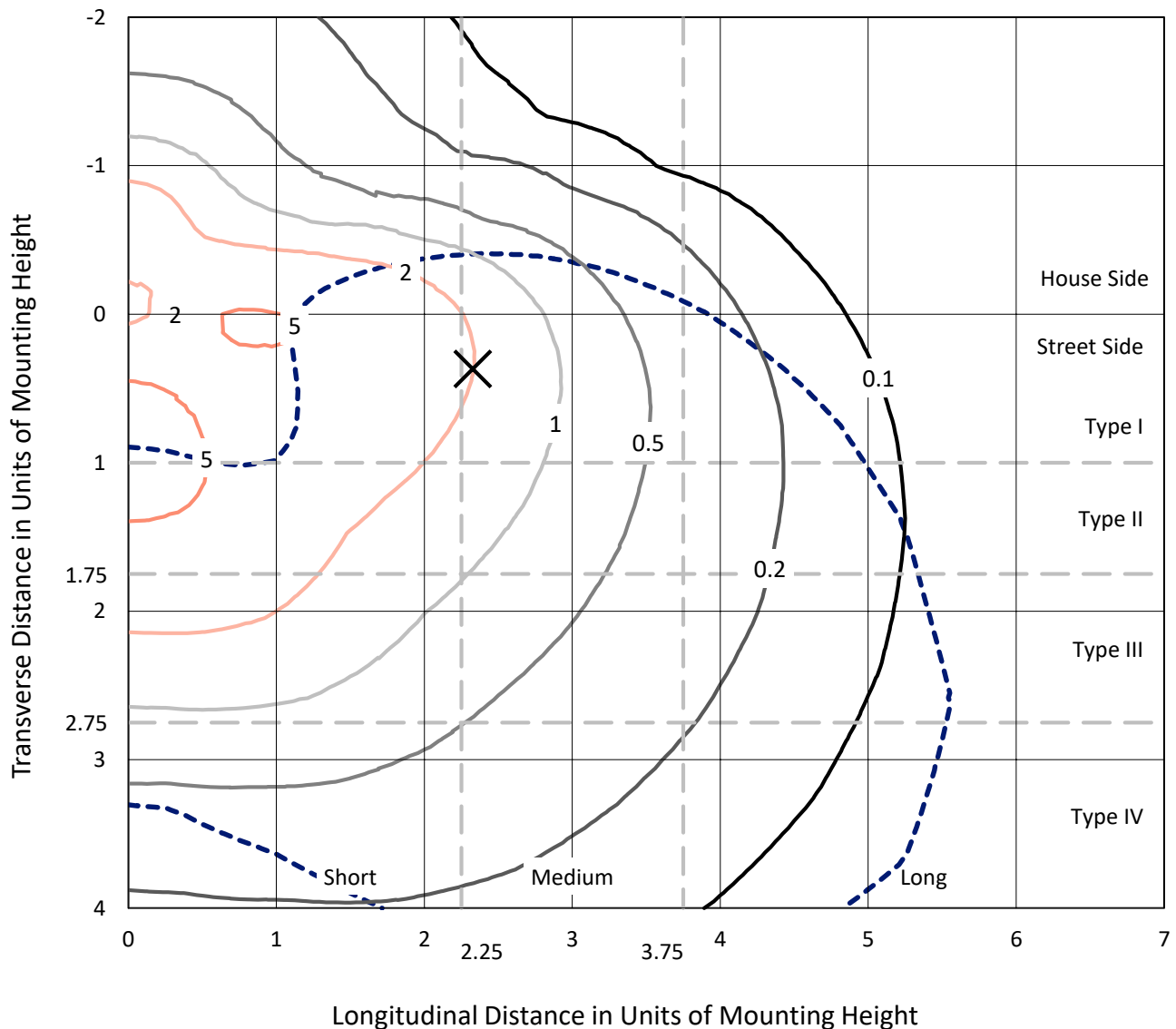


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

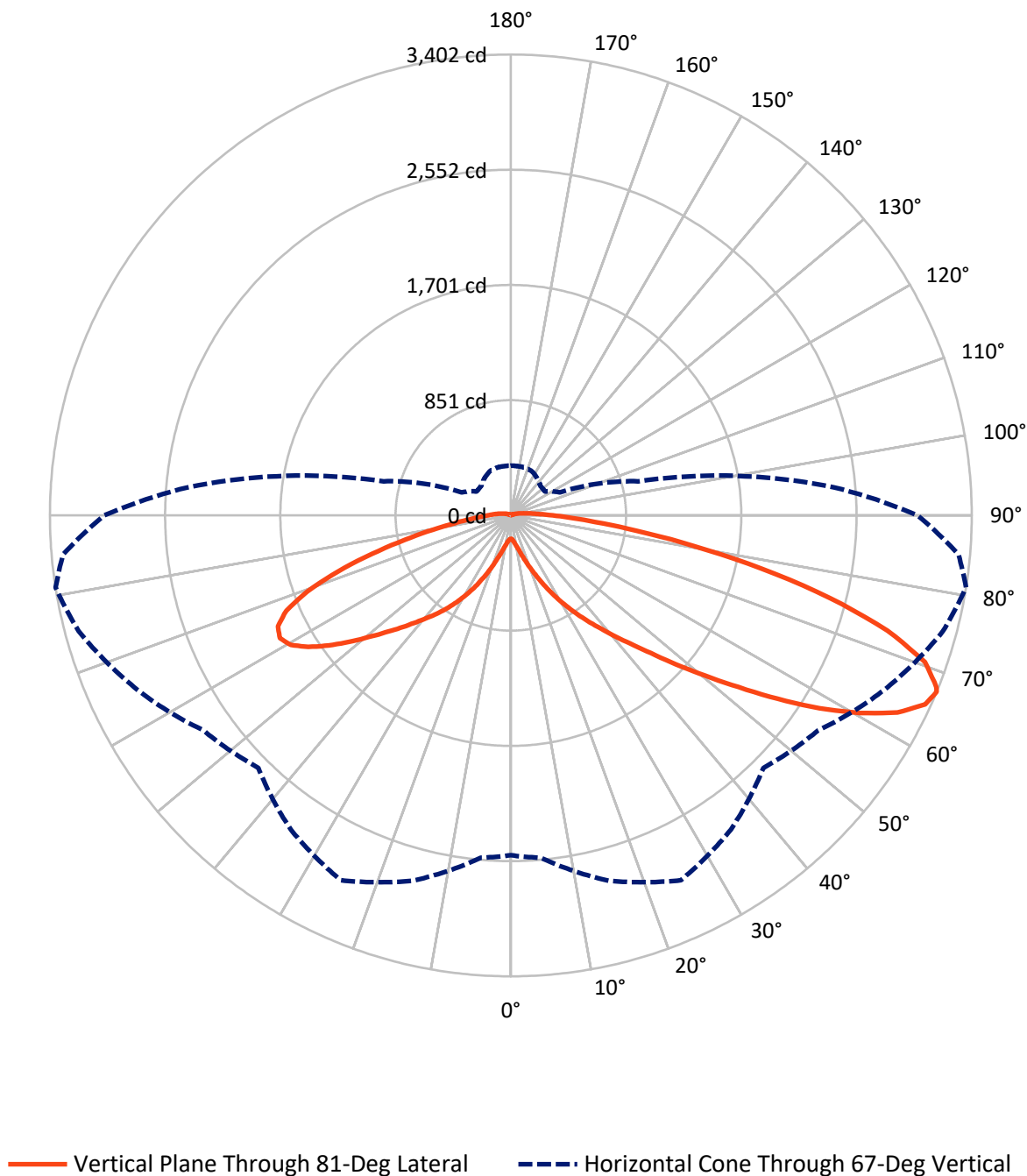


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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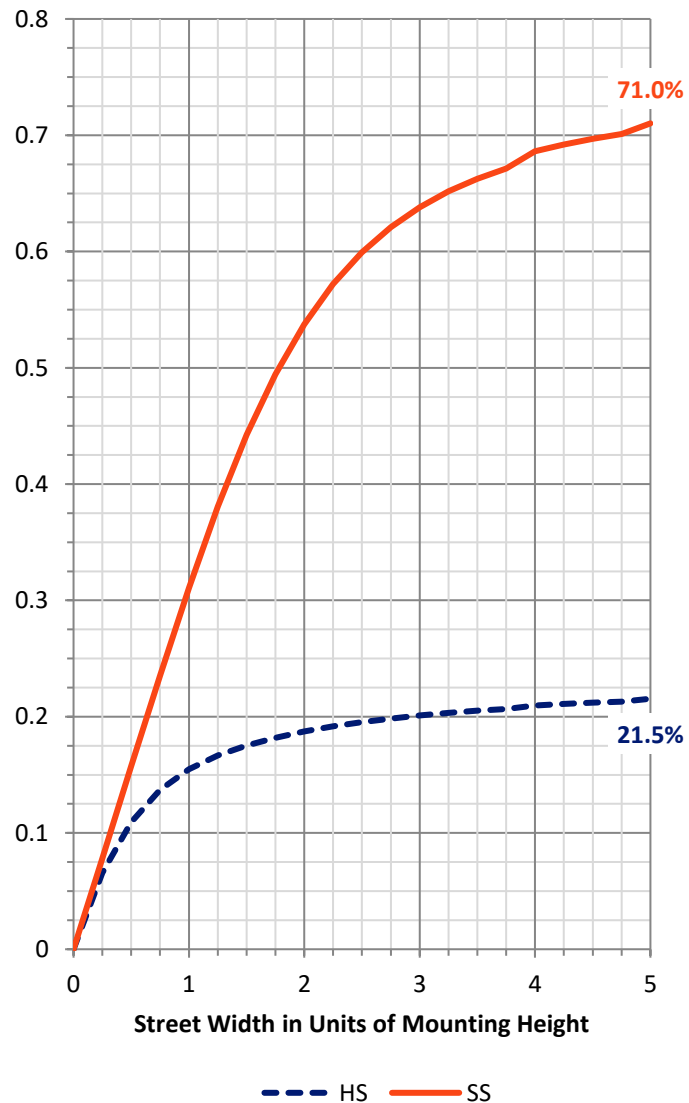
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1551.4	124.8	1676.2
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5007.4	142.6	5150.0
	% Fixture	73.4	2.1	75.4
Total	Lumens	6558.8	267.4	6826.2
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.3
10°-20°	86.2	1.3
20°-30°	232.8	3.4
30°-40°	467.3	6.8
40°-50°	789.7	11.6
50°-60°	1262.7	18.5
60°-70°	1725.3	25.3
70°-80°	1422.2	20.8
80°-90°	553.6	8.1
90°-100°	159.4	2.3
100°-110°	61.1	0.9
110°-120°	26.4	0.4
120°-130°	12.6	0.2
130°-140°	5.9	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°	6558.8	96.1
0°-180°	6826.2	100.0

Coefficient of Utilization



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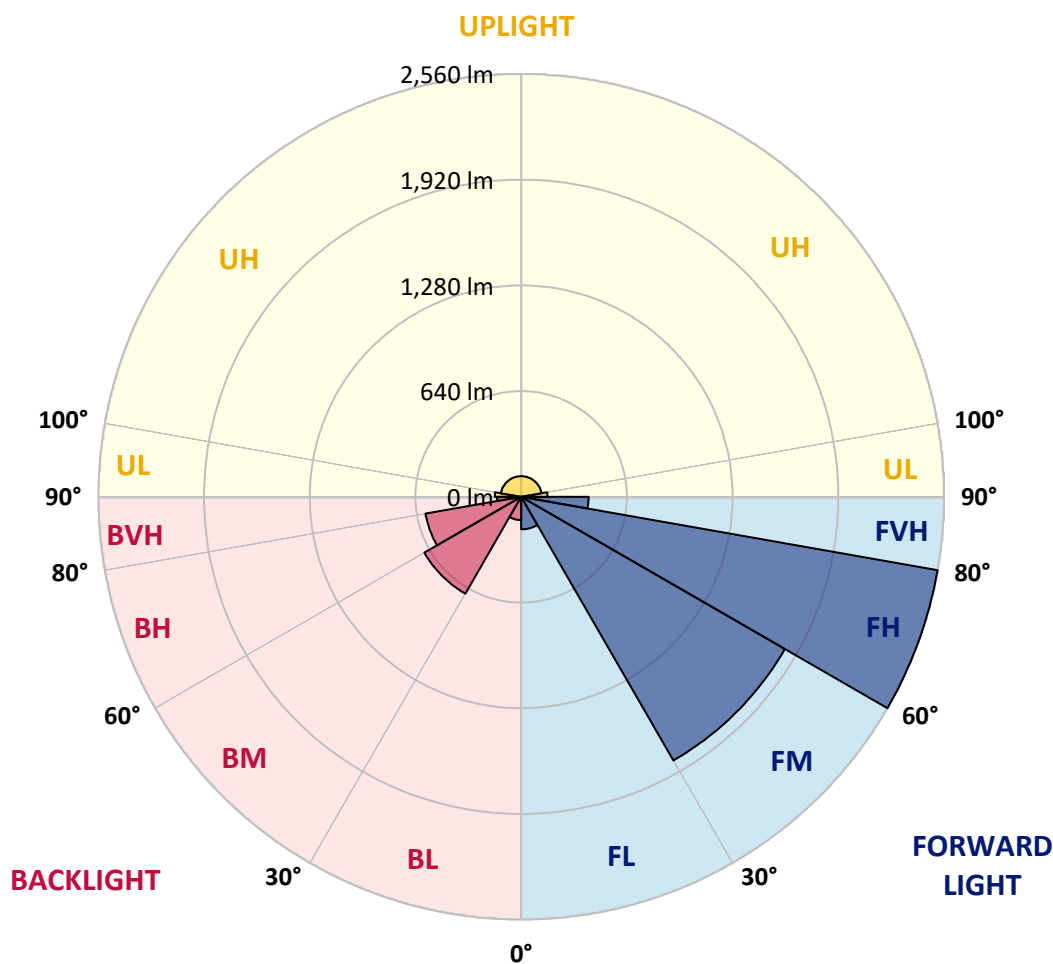
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.1	2.9			
FM	(30°-60°)	1842.9	27.0			
FH	(60°-80°)	2559.5	37.5			G2/5000
FVH	(80°-90°)	407.8	6.0			G3/500
BL	(0°-30°)	140.9	2.1	B1/500		
BM	(30°-60°)	676.8	9.9	B1/1000		
BH	(60°-80°)	587.9	8.6	B2/1000		G2/1000
BVH	(80°-90°)	145.7	2.1			G2/225
UL	(90°-100°)	159.4	2.3		U3/500	
UH	(100°-180°)	124.8	1.8		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°	81°	85°
0°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0
2.5°	186.8	186.8	186.8	185.9	185.1	183.3	181.5	179.8	178.9	178.1	177.2
5°	205.9	206.8	205.9	205.1	202.4	199.9	196.4	193.8	190.4	188.6	187.7
7.5°	234.5	234.5	233.6	229.3	226.7	222.4	218.1	212.9	209.3	206.8	203.2
10°	271.1	269.3	267.5	263.3	257.2	250.2	245.0	238.9	232.8	231.1	227.6
12.5°	314.4	314.4	310.2	304.0	292.8	285.8	277.1	270.2	264.1	260.7	258.9
15°	372.6	370.1	362.2	352.8	338.8	324.9	315.3	310.2	304.0	304.0	298.0
17.5°	431.7	434.4	422.3	407.4	388.3	371.0	359.7	358.9	356.2	354.6	353.7
20°	509.1	506.6	491.7	466.5	438.7	417.9	410.0	411.0	417.9	417.1	413.5
22.5°	592.5	592.5	570.0	536.1	496.9	471.8	464.0	471.8	486.5	486.5	488.3
25°	691.5	688.1	659.4	608.2	561.3	528.3	524.7	536.8	563.0	567.3	565.7
27.5°	802.7	790.6	753.1	689.8	628.2	590.7	584.6	607.3	642.8	655.0	659.4
30°	920.9	921.8	864.4	782.0	698.5	648.9	646.4	682.9	725.4	746.3	751.5
32.5°	1057.3	1053.0	987.0	883.6	775.9	711.5	708.9	759.2	813.1	840.2	843.6
35°	1226.7	1206.8	1132.9	997.4	855.7	782.8	781.0	835.8	906.1	940.0	948.7
37.5°	1382.2	1371.8	1287.5	1115.5	947.0	854.8	851.5	922.6	1006.0	1045.2	1057.3
40°	1563.8	1551.6	1452.6	1256.3	1055.6	938.3	936.6	1017.3	1113.8	1163.3	1173.7
42.5°	1742.0	1734.1	1627.2	1412.7	1170.2	1032.2	1028.6	1122.5	1236.2	1291.9	1304.9
45°	1933.1	1913.1	1809.6	1572.6	1298.1	1140.7	1142.5	1244.2	1384.8	1450.0	1463.0
47.5°	2096.4	2084.2	1997.3	1745.3	1438.7	1258.9	1261.5	1397.0	1568.1	1643.8	1649.8
50°	2274.5	2267.5	2181.5	1928.8	1608.1	1405.7	1410.0	1563.0	1769.8	1856.5	1887.0
52.5°	2422.2	2423.1	2358.0	2117.2	1775.0	1563.8	1576.9	1761.0	1988.7	2105.1	2123.4
55°	2566.4	2562.1	2523.8	2324.1	1972.9	1741.1	1755.7	1980.0	2250.2	2390.8	2415.3
57.5°	2670.7	2681.9	2686.3	2522.1	2165.1	1919.1	1967.7	2207.6	2535.1	2686.3	2708.0
60°	2742.7	2747.9	2808.8	2721.1	2372.7	2129.4	2192.9	2460.4	2802.7	2961.7	2975.5
62.5°	2735.8	2758.3	2876.6	2870.4	2574.3	2329.2	2410.1	2697.6	3035.6	3204.1	3206.7
65°	2642.9	2680.3	2878.3	2965.1	2741.0	2518.6	2623.0	2911.2	3226.7	3360.5	3325.7
67°	2508.2	2536.9	2791.5	2971.2	2831.4	2635.8	2767.9	3043.4	3302.3	3402.2	3317.9
67.5°	2451.7	2502.9	2759.2	2965.1	2840.9	2661.0	2791.5	3078.1	3317.9	3389.1	3298.8
70°	2179.7	2219.7	2507.3	2840.9	2844.5	2737.6	2888.7	3119.9	3258.8	3243.2	3079.8
72.5°	1811.4	1829.7	2145.1	2567.3	2714.0	2707.1	2860.1	3012.0	3010.3	2906.9	2708.8
75°	1372.7	1421.4	1705.4	2155.5	2442.1	2537.7	2676.7	2727.2	2607.2	2433.5	2193.8
77.5°	968.7	993.9	1245.1	1695.0	2064.2	2242.3	2340.5	2317.1	2096.4	1891.3	1674.1
80°	627.2	651.6	824.5	1214.6	1618.6	1808.7	1898.3	1828.8	1606.3	1365.8	1183.2
82.5°	379.7	400.6	522.2	814.9	1189.4	1402.3	1447.3	1380.4	1132.9	933.1	789.7
85°	222.4	238.9	324.1	525.6	810.6	1012.1	1028.6	952.3	761.0	623.9	526.4
87.5°	135.6	144.2	205.1	336.2	537.7	682.9	716.8	645.5	512.7	417.1	354.6
90°	87.8	93.9	131.2	220.7	352.8	450.9	471.8	430.8	347.6	284.1	244.1
92.5°	59.9	66.0	91.2	147.7	231.9	298.9	311.9	283.2	233.6	199.9	178.1
95°	46.1	48.7	69.4	104.3	158.1	199.9	212.0	192.9	163.3	146.9	133.8
97.5°	37.4	39.0	55.7	80.8	114.7	143.4	148.6	134.7	120.7	110.3	104.3
100°	32.2	33.0	46.9	66.0	89.6	108.5	111.2	100.8	91.2	86.0	80.8
102.5°	28.7	29.6	40.9	56.5	73.0	86.0	86.0	78.2	69.4	66.0	63.4
105°	25.2	26.1	36.6	48.7	62.5	70.3	70.3	61.7	53.9	50.3	49.5
107.5°	22.5	23.4	31.4	42.6	53.0	59.1	58.2	49.5	40.9	37.4	37.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	20.8	20.8	27.8	37.4	45.2	50.3	47.8	40.0	31.4	28.7	29.6
112.5°	19.1	19.1	24.3	32.2	40.0	43.5	40.0	33.0	24.3	22.5	23.4
115°	18.2	18.2	21.6	28.7	34.8	36.6	33.9	26.9	20.0	18.2	19.1
117.5°	16.4	16.4	20.0	25.2	29.6	31.4	28.7	21.6	16.4	15.6	16.4
120°	15.6	15.6	17.3	21.6	26.1	26.9	24.3	18.2	14.0	14.0	14.7
122.5°	14.7	14.7	16.4	19.1	22.5	23.4	20.8	14.7	12.1	12.1	13.0
125°	14.7	14.7	14.7	17.3	19.1	20.0	17.3	13.0	11.3	11.3	12.1
127.5°	14.0	14.0	14.0	14.7	16.4	16.4	14.7	10.4	9.5	10.4	10.4
130°	13.0	13.0	13.0	14.0	14.7	14.0	12.1	8.8	8.8	9.5	9.5
132.5°	12.1	12.1	12.1	12.1	12.1	11.3	9.5	7.8	7.8	8.8	8.8
135°	11.3	11.3	11.3	10.4	10.4	9.5	7.8	6.1	6.9	7.8	7.8
137.5°	10.4	10.4	10.4	9.5	8.8	6.9	5.2	5.2	6.1	6.9	6.9
140°	9.5	9.5	8.8	7.8	6.9	5.2	3.5	4.3	5.2	5.2	6.1
142.5°	7.8	7.8	7.8	6.1	4.3	3.5	2.6	2.6	4.3	4.3	4.3
145°	6.9	6.9	6.1	5.2	3.5	1.7	0.9	1.7	2.6	3.5	3.5
147.5°	5.2	5.2	5.2	3.5	1.7	0.9	0.9	0.9	1.7	2.6	2.6
150°	4.3	4.3	3.5	2.6	0.9	0.0	0.0	0.9	1.7	1.7	1.7
152.5°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.9	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0
2.5°	176.3	175.4	174.6	173.0	172.0	170.3	168.5	167.7	166.8	166.8	166.8
5°	185.9	185.1	182.4	178.9	176.3	173.7	172.0	170.3	168.5	168.5	168.5
7.5°	201.6	199.9	194.7	191.1	186.8	183.3	180.6	178.1	177.2	177.2	176.3
10°	224.1	221.5	215.5	208.4	202.4	198.0	194.7	192.0	191.1	191.1	191.1
12.5°	253.7	250.2	240.7	231.9	222.4	216.3	212.0	211.1	212.0	212.0	211.1
15°	296.3	289.3	274.5	260.7	245.9	236.3	233.6	233.6	238.1	239.8	240.7
17.5°	347.6	338.8	318.9	296.3	273.7	260.7	258.9	264.1	273.7	278.0	277.1
20°	411.0	398.8	371.0	337.0	305.9	289.3	287.5	297.1	310.2	318.9	318.0
22.5°	482.2	470.9	429.2	379.7	336.2	317.1	314.4	330.1	349.3	358.9	362.2
25°	561.3	545.6	490.8	423.1	368.3	341.4	340.5	359.7	384.8	402.3	404.9
27.5°	647.3	629.1	556.9	466.5	396.2	361.4	360.5	386.6	421.3	443.0	443.9
30°	741.9	714.2	622.0	503.1	417.1	375.3	377.1	407.4	451.8	477.0	481.3
32.5°	835.8	804.5	681.2	538.7	430.8	382.3	384.8	423.1	471.8	503.9	507.4
35°	934.9	894.8	740.3	562.1	438.7	383.1	385.7	429.2	482.2	517.0	520.4
37.5°	1034.7	987.0	789.7	579.4	438.7	377.9	381.4	427.5	481.3	517.0	519.5
40°	1152.9	1083.4	836.6	586.5	431.7	368.3	372.6	417.9	468.2	501.3	503.9
42.5°	1275.4	1192.1	881.0	584.6	419.6	356.2	360.5	402.3	446.5	473.4	476.1
45°	1423.0	1321.4	926.2	579.4	404.9	343.2	345.8	383.1	420.4	439.6	443.0
47.5°	1604.6	1460.5	972.1	570.0	388.3	331.0	332.7	365.8	392.6	404.9	407.4
50°	1806.2	1624.7	1022.6	556.9	372.6	319.6	322.3	349.3	368.3	373.5	374.5
52.5°	2045.1	1810.5	1069.5	541.3	358.9	311.1	314.4	338.8	351.9	352.8	353.7
55°	2303.2	2013.8	1111.2	522.2	344.9	305.0	311.9	334.4	343.2	342.3	343.2
57.5°	2572.4	2209.3	1139.9	502.2	333.6	301.6	312.8	334.4	343.2	341.4	343.2
60°	2813.1	2376.9	1144.3	476.1	324.9	301.6	318.0	340.5	348.5	348.5	350.1
62.5°	2984.3	2473.5	1115.5	450.1	317.1	303.2	324.9	348.5	356.2	356.2	358.0
65°	3053.8	2471.6	1053.0	422.3	311.1	305.9	331.8	357.0	363.2	363.2	364.9
67°	3001.6	2390.8	972.1	401.5	307.6	308.4	337.0	362.2	367.4	366.6	367.4
67.5°	2969.4	2362.3	954.8	395.3	306.7	308.4	337.9	363.2	368.3	367.4	367.4
70°	2703.7	2118.2	835.0	369.3	300.7	308.4	341.4	364.9	368.3	366.6	366.6
72.5°	2292.7	1772.4	700.3	343.2	293.7	305.9	339.6	362.2	364.1	361.4	361.4
75°	1823.6	1386.5	575.2	320.5	284.1	299.8	333.6	354.6	357.0	354.6	351.9
77.5°	1350.2	1026.9	464.9	296.3	272.7	290.2	323.2	343.2	345.8	343.2	340.5
80°	941.8	729.9	374.5	271.9	258.1	276.3	308.4	325.7	329.3	327.5	323.2
82.5°	629.9	501.3	299.8	245.0	238.9	258.1	288.4	304.0	306.7	305.0	299.8
85°	430.1	349.3	247.7	216.3	218.1	236.3	262.3	274.5	277.1	274.5	269.3
87.5°	289.3	250.2	202.4	188.6	193.8	211.1	231.9	238.1	243.4	238.9	235.4
90°	209.3	188.6	163.3	160.7	169.4	184.2	198.0	199.0	205.9	204.2	197.2
92.5°	157.3	147.7	135.6	135.6	145.0	157.3	165.9	164.2	168.5	168.5	163.3
95°	124.2	119.0	112.9	115.5	124.2	132.9	135.6	132.1	136.5	137.4	135.6
97.5°	99.9	98.2	96.5	98.2	106.0	112.9	112.1	106.0	109.5	111.2	109.5
100°	80.8	79.9	80.8	84.4	90.4	94.7	92.0	86.0	88.7	88.7	88.7
102.5°	65.1	65.1	67.7	71.2	75.5	79.1	75.5	70.3	71.2	70.3	70.3
105°	51.3	52.1	55.7	59.9	63.4	65.1	61.7	56.5	55.7	53.0	53.9
107.5°	40.0	41.7	45.2	49.5	53.0	53.9	51.3	46.1	42.6	40.9	40.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.4	33.0	37.4	40.9	43.5	44.2	41.7	36.6	32.2	31.4	31.4
112.5°	25.2	26.9	30.5	33.9	36.6	36.6	33.9	29.6	24.3	23.4	23.4
115°	20.8	21.6	25.2	27.8	30.5	30.5	27.8	23.4	19.1	18.2	19.1
117.5°	17.3	18.2	20.8	23.4	25.2	25.2	22.5	18.2	14.7	14.7	14.7
120°	15.6	16.4	18.2	20.0	20.8	20.8	19.1	14.7	12.1	12.1	12.1
122.5°	14.0	14.0	15.6	16.4	18.2	17.3	15.6	12.1	9.5	10.4	10.4
125°	12.1	13.0	13.0	14.7	14.7	14.7	12.1	9.5	8.8	8.8	8.8
127.5°	11.3	11.3	12.1	12.1	13.0	12.1	9.5	6.9	6.9	7.8	7.8
130°	10.4	10.4	10.4	10.4	10.4	9.5	7.8	6.1	6.1	6.9	6.9
132.5°	8.8	9.5	9.5	8.8	8.8	7.8	6.1	4.3	5.2	5.2	5.2
135°	7.8	8.8	7.8	7.8	6.9	6.1	4.3	3.5	4.3	4.3	4.3
137.5°	6.9	6.9	6.9	6.1	5.2	4.3	3.5	2.6	3.5	3.5	3.5
140°	6.1	6.1	6.1	5.2	4.3	3.5	1.7	1.7	2.6	2.6	2.6
142.5°	4.3	5.2	4.3	3.5	2.6	1.7	0.9	0.9	1.7	2.6	1.7
145°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	2.6	2.6	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.9	0.9
150°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	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)