

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: P266505

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6631.8 lumens
Efficiency: N/A
Efficacy: 70.6 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: B1 - 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

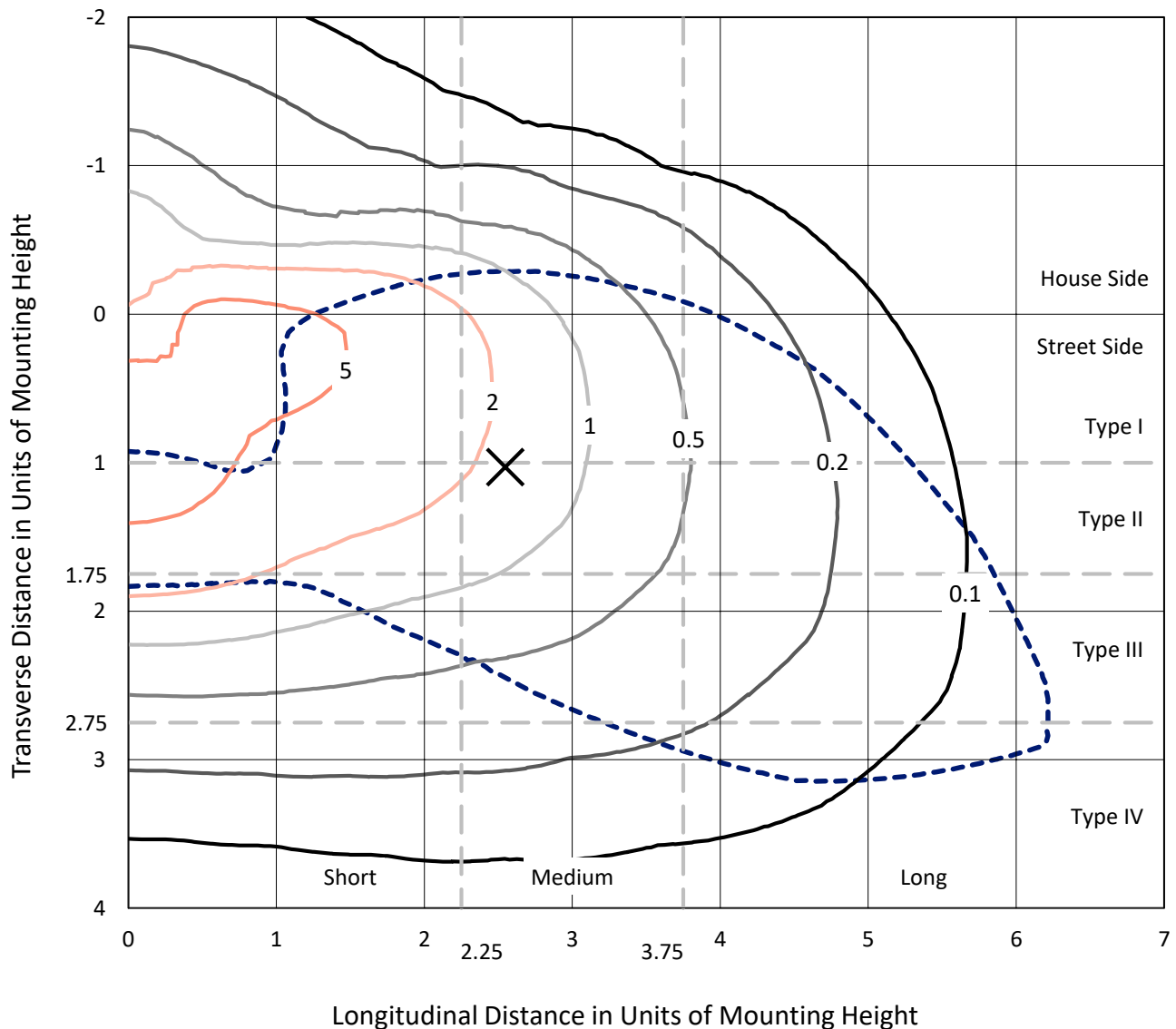


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

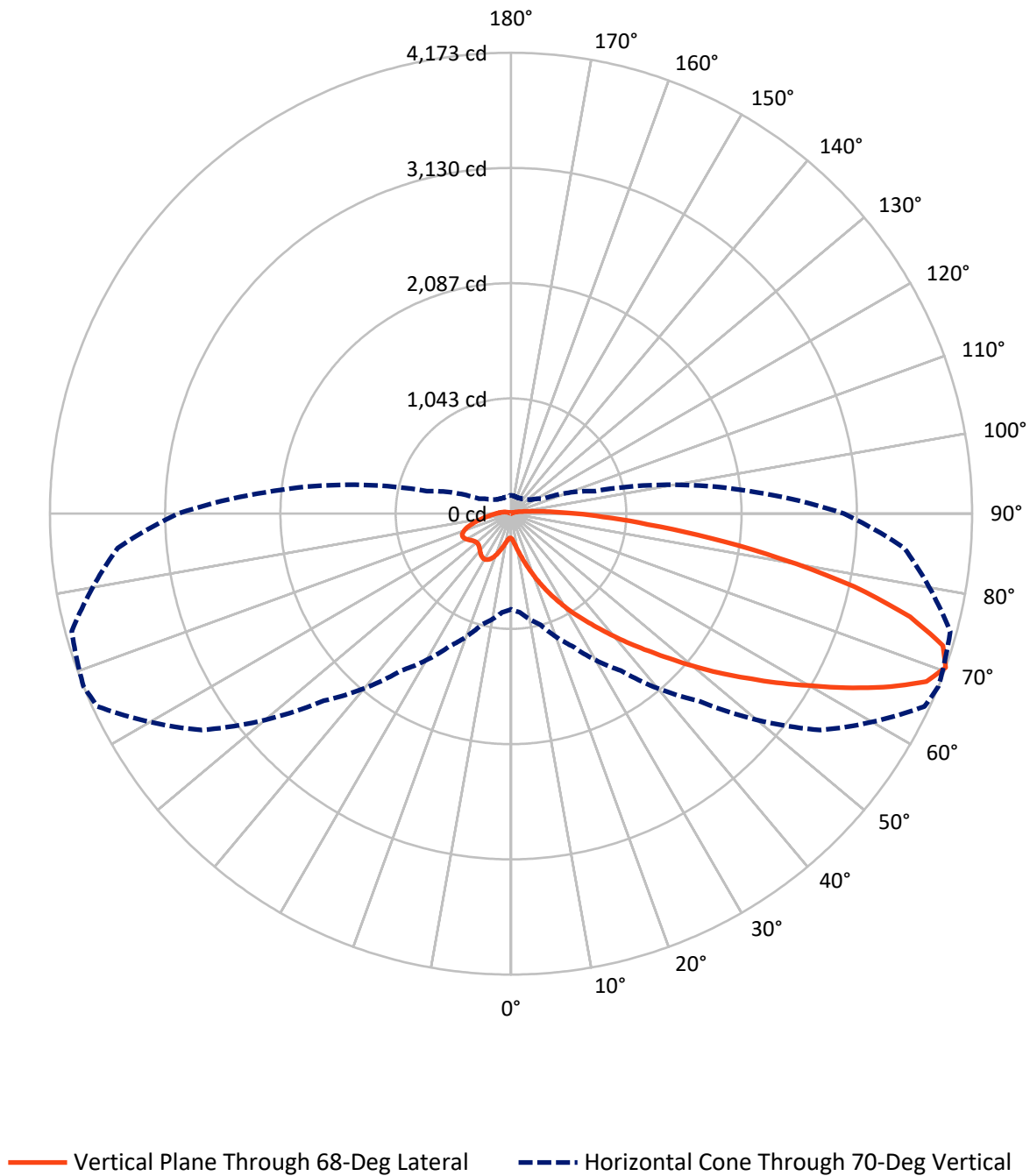


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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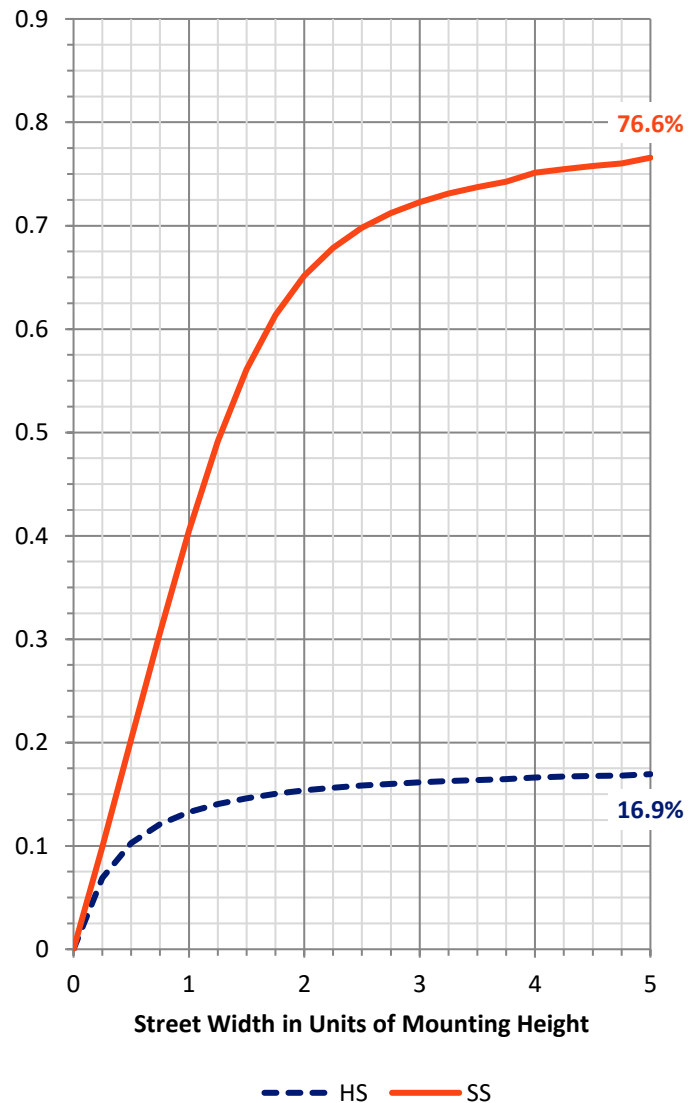
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.2	107.7	1279.9
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5204.5	147.5	5351.9
	% Fixture	78.5	2.2	80.7
Total	Lumens	6376.7	255.1	6631.8
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	0.4
10°-20°	105.3	1.6
20°-30°	266.2	4.0
30°-40°	515.9	7.8
40°-50°	869.9	13.1
50°-60°	1300.6	19.6
60°-70°	1577.1	23.8
70°-80°	1230.5	18.6
80°-90°	486.9	7.3
90°-100°	149.1	2.2
100°-110°	58.6	0.9
110°-120°	26.0	0.4
120°-130°	12.8	0.2
130°-140°	6.3	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6376.7	96.2
0°-180°	6631.8	100.0

Coefficient of Utilization



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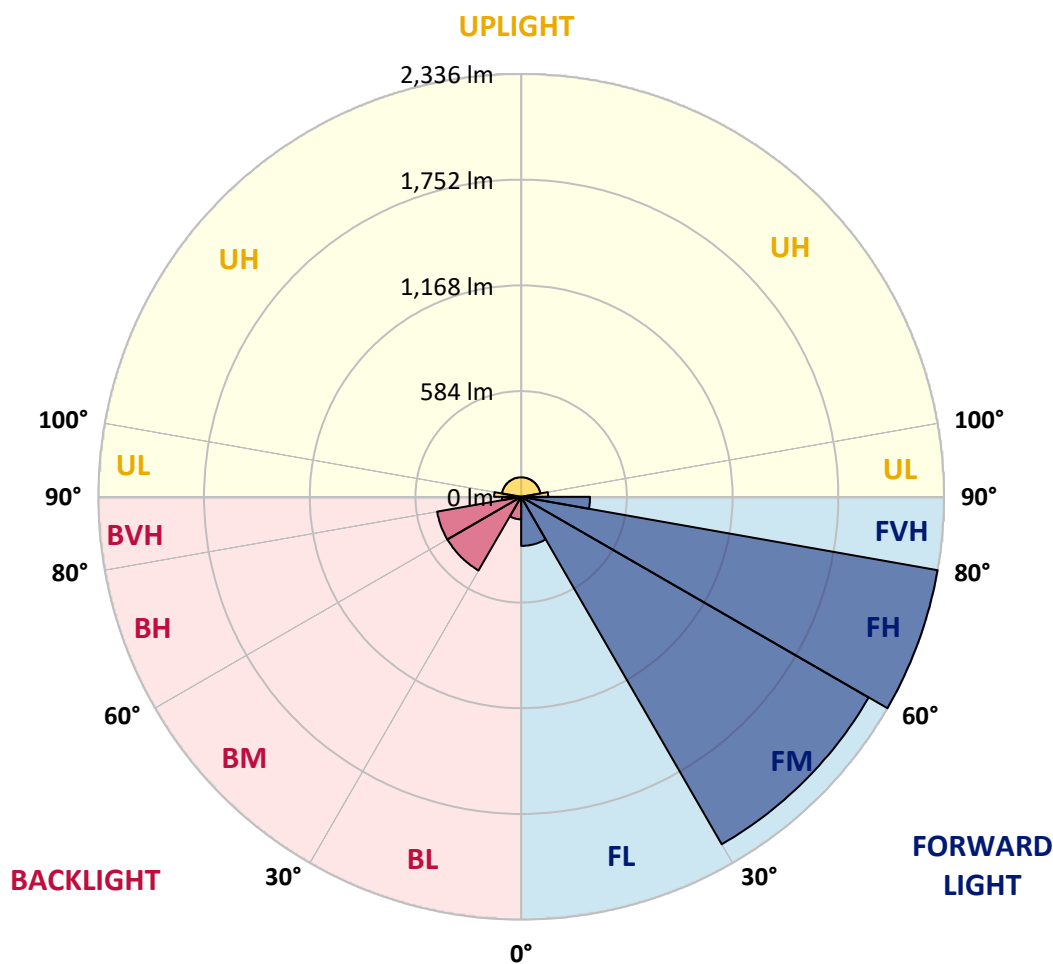
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.1	4.1			
FM	(30°-60°)	2216.6	33.4			
FH	(60°-80°)	2336.1	35.2			G2/5000
FVH	(80°-90°)	380.6	5.7			G3/500
BL	(0°-30°)	124.6	1.9	B1/500		
BM	(30°-60°)	469.9	7.1	B1/1000		
BH	(60°-80°)	471.4	7.1	B1/500		G1/500
BVH	(80°-90°)	106.3	1.6			G2/225
UL	(90°-100°)	149.1	2.2		U3/500	
UH	(100°-180°)	107.7	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8
2.5°	248.0	248.8	248.8	246.2	245.3	242.8	238.4	236.8	234.9	233.2	229.7
5°	280.9	280.9	279.3	276.6	273.2	270.5	266.2	261.0	260.1	254.0	248.0
7.5°	318.2	319.1	319.9	315.7	310.5	306.1	300.8	293.9	292.2	286.1	274.8
10°	367.6	368.6	366.8	362.5	355.5	350.2	344.2	337.3	334.7	329.5	313.9
12.5°	427.5	426.5	421.3	415.3	407.6	401.5	393.6	388.4	386.7	381.5	365.0
15°	490.7	494.2	488.1	474.2	464.8	455.3	451.8	451.8	453.5	447.4	431.7
17.5°	572.3	574.8	564.5	545.5	529.8	519.4	515.8	522.9	525.4	528.1	514.2
20°	666.7	667.6	651.1	624.3	596.6	583.4	584.3	600.8	607.0	616.4	600.0
22.5°	782.1	775.1	751.7	710.1	670.2	649.5	657.2	690.2	695.4	715.3	706.6
25°	902.5	901.8	862.7	807.2	749.1	722.2	735.3	776.0	790.8	821.1	809.8
27.5°	1041.3	1037.8	987.5	919.1	840.2	800.3	811.6	869.6	886.9	938.2	926.1
30°	1188.7	1189.5	1130.6	1035.2	937.3	881.7	888.8	969.5	991.9	1050.8	1047.5
32.5°	1364.7	1354.4	1288.4	1163.6	1043.0	967.7	977.1	1070.8	1102.0	1172.3	1161.9
35°	1541.6	1528.6	1441.1	1304.1	1153.2	1064.0	1068.3	1179.1	1212.2	1303.3	1283.3
37.5°	1704.7	1697.6	1610.1	1452.3	1276.3	1170.5	1175.7	1295.4	1336.9	1438.5	1414.2
40°	1879.8	1879.8	1790.5	1618.7	1413.4	1285.8	1293.6	1424.6	1474.8	1585.9	1545.1
42.5°	2065.4	2059.3	1964.8	1770.5	1549.4	1409.8	1425.4	1570.2	1626.7	1744.5	1702.8
45°	2248.3	2235.3	2137.2	1935.3	1685.6	1549.4	1572.8	1729.7	1788.7	1938.7	1880.6
47.5°	2406.1	2392.1	2296.0	2083.4	1828.6	1694.3	1727.3	1915.4	1977.8	2156.4	2067.9
50°	2518.8	2514.4	2420.8	2201.4	1956.1	1843.3	1912.8	2113.1	2187.6	2367.9	2284.7
52.5°	2584.8	2576.9	2502.3	2308.1	2083.4	1997.7	2103.6	2328.0	2407.0	2601.1	2504.0
55°	2570.0	2564.8	2511.9	2364.5	2183.2	2146.1	2315.0	2567.4	2641.0	2851.0	2735.6
57.5°	2453.8	2460.6	2445.0	2367.9	2256.9	2299.4	2531.9	2819.7	2897.8	3102.3	2979.1
60°	2246.5	2244.0	2288.2	2301.2	2286.5	2432.2	2793.6	3107.5	3167.3	3373.8	3216.8
62.5°	1940.5	1933.5	2029.8	2153.7	2264.7	2543.9	3029.5	3414.5	3474.3	3640.8	3436.1
65°	1565.0	1596.3	1716.8	1921.4	2157.2	2586.4	3258.4	3727.4	3777.0	3865.3	3608.8
67.5°	1186.1	1216.5	1372.5	1631.9	1977.8	2537.1	3404.0	4008.3	4056.0	4079.6	3684.0
70°	866.1	895.7	1043.0	1327.4	1734.1	2394.0	3415.4	4129.8	4173.2	4115.9	3573.2
72.5°	616.4	632.0	758.7	1028.3	1456.6	2143.4	3273.2	4051.7	4087.3	3928.6	3280.2
75°	436.1	443.0	552.3	782.1	1186.1	1859.9	2935.0	3702.4	3730.1	3530.7	2789.2
77.5°	297.3	313.0	399.7	596.6	951.1	1526.8	2487.5	3174.3	3174.3	2921.1	2206.6
80°	210.7	223.7	287.0	445.6	744.9	1223.4	2009.9	2522.4	2482.3	2195.4	1590.2
82.5°	151.8	162.1	212.4	339.9	578.2	966.8	1525.1	1867.7	1813.0	1532.1	1050.8
85°	110.1	120.6	161.2	249.6	443.0	750.1	1142.7	1297.2	1243.3	1015.4	682.4
87.5°	80.7	87.6	120.6	188.1	335.5	567.9	838.5	880.9	833.3	656.3	437.8
90°	57.2	63.3	91.8	142.2	251.4	426.5	588.7	578.2	526.2	412.7	289.7
92.5°	41.6	46.0	68.5	108.3	187.2	313.0	405.0	373.8	344.2	265.3	201.2
95°	31.3	34.7	53.8	84.1	137.9	220.3	273.2	245.3	222.8	181.2	148.3
97.5°	25.2	27.8	44.2	67.6	106.7	160.3	189.1	162.1	151.8	131.0	114.4
100°	21.6	23.4	37.3	56.4	84.1	120.6	133.5	113.5	107.4	98.9	89.3
102.5°	19.9	20.8	33.0	48.6	68.5	90.2	96.3	85.0	80.7	75.5	70.2
105°	18.2	19.0	29.5	42.5	58.1	70.2	73.8	65.0	62.4	57.2	53.8
107.5°	17.3	17.3	26.1	37.3	49.4	58.1	58.1	51.2	48.6	43.4	41.6
110°	16.4	16.4	23.4	33.9	42.5	49.4	47.7	40.8	38.2	33.0	32.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	15.6	15.6	21.6	29.5	37.3	41.6	39.9	33.0	30.4	25.2	25.2
115°	14.7	14.7	19.0	26.1	33.0	35.6	33.9	26.9	25.2	19.9	20.8
117.5°	14.7	14.7	18.2	23.4	28.7	31.3	28.7	21.6	19.9	16.4	18.2
120°	13.8	13.8	16.4	20.8	25.2	26.9	24.3	18.2	16.4	13.8	15.6
122.5°	13.8	13.8	15.6	18.2	22.5	23.4	20.8	15.6	13.8	12.1	13.8
125°	13.0	13.0	14.7	16.4	19.0	19.9	17.3	13.0	12.1	11.3	12.1
127.5°	13.0	13.0	13.8	14.7	17.3	17.3	14.7	10.4	10.4	9.5	11.3
130°	12.1	13.0	13.0	13.8	14.7	14.7	12.1	8.7	8.7	8.7	10.4
132.5°	12.1	12.1	12.1	12.1	13.0	12.1	9.5	7.8	7.8	7.8	9.5
135°	11.3	11.3	11.3	11.3	10.4	9.5	7.8	6.1	6.1	6.9	8.7
137.5°	11.3	11.3	10.4	9.5	9.5	7.8	6.1	5.2	5.2	6.9	7.8
140°	10.4	10.4	9.5	8.7	6.9	6.1	4.3	4.3	4.3	5.2	6.1
142.5°	8.7	8.7	8.7	6.9	5.2	3.5	2.6	2.6	3.5	4.3	5.2
145°	7.8	7.8	6.9	6.1	3.5	1.7	0.9	1.7	2.6	3.5	4.3
147.5°	6.1	6.1	5.2	4.3	1.7	0.9	0.0	0.9	1.7	1.7	2.6
150°	4.3	4.3	4.3	2.6	0.9	0.0	0.0	0.9	0.9	0.9	1.7
152.5°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	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°	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8
2.5°	227.2	226.4	222.1	218.5	214.2	210.7	207.1	204.6	203.7	201.9	202.8
5°	242.8	239.3	230.7	222.8	214.2	206.4	199.5	194.3	189.9	188.1	187.2
7.5°	269.6	264.5	248.8	234.9	221.2	207.1	196.0	187.2	182.0	178.7	178.7
10°	308.7	297.3	277.4	254.0	230.7	210.7	195.1	183.0	175.1	172.6	172.6
12.5°	356.4	344.2	313.0	277.4	244.5	216.9	196.0	183.0	175.1	171.7	170.8
15°	419.7	401.5	355.5	305.2	257.5	222.1	196.8	183.9	178.7	176.8	176.8
17.5°	494.2	471.7	405.0	335.5	272.2	224.5	199.5	189.1	186.4	186.4	186.4
20°	582.7	549.8	460.4	362.5	282.6	227.2	201.2	193.3	193.3	195.1	196.0
22.5°	677.1	635.6	514.2	387.6	286.1	228.9	200.3	195.1	199.5	203.7	204.6
25°	777.8	719.6	562.7	403.2	287.8	224.5	197.6	196.0	204.6	210.7	212.4
27.5°	884.4	805.5	604.3	409.3	282.6	216.9	193.3	194.3	207.1	216.0	217.6
30°	982.3	886.2	637.3	407.6	271.4	207.1	188.1	191.6	207.1	219.4	222.1
32.5°	1083.8	965.9	657.2	399.7	257.5	196.8	182.0	189.1	206.4	220.3	222.8
35°	1185.3	1036.1	666.7	384.1	242.0	187.2	176.0	184.7	203.7	219.4	221.2
37.5°	1286.7	1105.5	669.3	364.2	228.0	179.5	171.7	182.0	199.5	217.6	220.3
40°	1396.0	1173.9	664.1	344.2	215.1	174.4	168.3	178.7	196.0	215.1	218.5
42.5°	1518.2	1246.8	658.1	324.3	206.4	170.8	165.6	175.1	190.8	212.4	216.9
45°	1654.4	1326.5	654.7	308.7	201.2	169.2	164.7	172.6	188.1	210.7	215.1
47.5°	1800.9	1427.1	658.1	298.2	198.5	169.9	164.7	170.8	184.7	207.1	212.4
50°	1979.4	1542.5	671.2	290.4	197.6	170.8	165.6	169.2	181.2	201.9	207.1
52.5°	2164.1	1660.3	692.0	288.7	198.5	172.6	166.5	168.3	176.0	195.1	199.5
55°	2355.7	1816.6	727.4	291.3	200.3	175.1	167.4	166.5	171.7	186.4	191.6
57.5°	2572.6	1978.6	771.6	297.3	202.8	176.8	168.3	164.7	166.5	178.7	183.0
60°	2787.6	2143.4	816.7	305.2	208.0	179.5	169.2	163.9	163.9	173.5	176.8
62.5°	2982.6	2288.2	854.1	315.7	212.4	181.2	169.2	162.1	161.2	169.2	172.6
65°	3116.2	2364.5	862.7	321.7	216.9	182.0	167.4	160.3	159.4	165.6	169.2
67.5°	3151.8	2352.3	845.3	324.3	219.4	182.0	167.4	158.7	159.4	164.7	167.4
70°	3013.1	2226.5	788.2	319.1	218.5	181.2	165.6	156.9	158.7	163.9	165.6
72.5°	2681.8	1966.5	699.7	306.1	214.2	177.8	162.1	154.2	156.9	163.0	164.7
75°	2250.9	1629.2	594.8	285.2	206.4	173.5	158.7	150.8	155.1	161.2	162.1
77.5°	1731.6	1248.6	486.4	258.4	196.0	167.4	153.5	145.6	151.8	158.7	157.8
80°	1229.5	910.4	384.1	230.7	182.0	158.7	146.6	139.5	146.6	153.5	151.8
82.5°	847.1	617.3	307.0	203.7	167.4	149.1	138.7	132.7	140.4	146.6	143.9
85°	555.0	417.1	242.0	178.7	153.5	139.5	130.1	124.0	131.8	137.0	133.5
87.5°	358.2	290.4	193.3	155.1	138.7	129.1	120.6	115.3	123.1	127.5	124.0
90°	248.8	211.6	159.4	134.3	124.9	117.9	111.0	105.8	112.6	116.2	114.4
92.5°	177.8	162.1	132.7	117.9	112.6	106.7	100.6	96.3	103.1	105.8	104.1
95°	138.7	129.1	112.6	104.1	101.5	97.0	91.1	86.6	91.8	93.7	92.7
97.5°	111.0	106.7	97.0	91.8	90.2	86.6	82.4	78.1	81.4	82.4	81.4
100°	89.3	87.6	83.3	80.7	79.8	77.2	72.9	69.3	71.1	70.2	70.2
102.5°	71.1	71.1	70.2	69.3	69.3	66.7	63.3	59.8	59.8	58.1	58.1
105°	56.4	58.1	58.1	59.0	59.8	58.1	54.6	50.2	49.4	46.8	46.8
107.5°	44.2	46.0	48.6	49.4	50.2	48.6	46.0	41.6	39.0	36.4	37.3
110°	34.7	36.4	39.9	41.6	42.5	41.6	38.2	34.7	30.4	28.7	29.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	26.9	29.5	33.0	34.7	35.6	34.7	31.3	27.8	23.4	22.5	22.5
115°	22.5	24.3	27.8	29.5	29.5	28.7	26.1	21.6	18.2	17.3	18.2
117.5°	19.0	20.8	23.4	25.2	25.2	24.3	21.6	17.3	14.7	14.7	14.7
120°	16.4	18.2	19.9	21.6	21.6	20.8	18.2	13.8	12.1	12.1	12.1
122.5°	14.7	15.6	17.3	18.2	18.2	17.3	14.7	11.3	9.5	10.4	10.4
125°	13.0	13.8	15.6	16.4	15.6	14.7	12.1	8.7	7.8	8.7	8.7
127.5°	12.1	13.0	13.8	13.8	13.8	12.1	10.4	6.9	6.9	7.8	7.8
130°	11.3	11.3	12.1	12.1	11.3	10.4	7.8	5.2	5.2	6.9	6.9
132.5°	10.4	10.4	11.3	10.4	10.4	8.7	6.1	4.3	5.2	6.1	6.1
135°	8.7	8.7	9.5	9.5	7.8	6.9	4.3	3.5	3.5	4.3	5.2
137.5°	7.8	8.7	8.7	7.8	6.9	5.2	3.5	2.6	3.5	3.5	4.3
140°	6.9	6.9	6.9	6.1	5.2	3.5	1.7	1.7	2.6	2.6	2.6
142.5°	5.2	6.1	6.1	5.2	3.5	1.7	0.9	0.9	1.7	1.7	1.7
145°	4.3	4.3	4.3	3.5	2.6	1.7	0.9	0.9	0.9	0.9	0.9
147.5°	2.6	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	2.6	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.9	0.9	0.9	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)