

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: P240531

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240531
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-AF24-100-D-U-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7397.9 lumens
Efficiency: N/A
Efficacy: 77.1 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

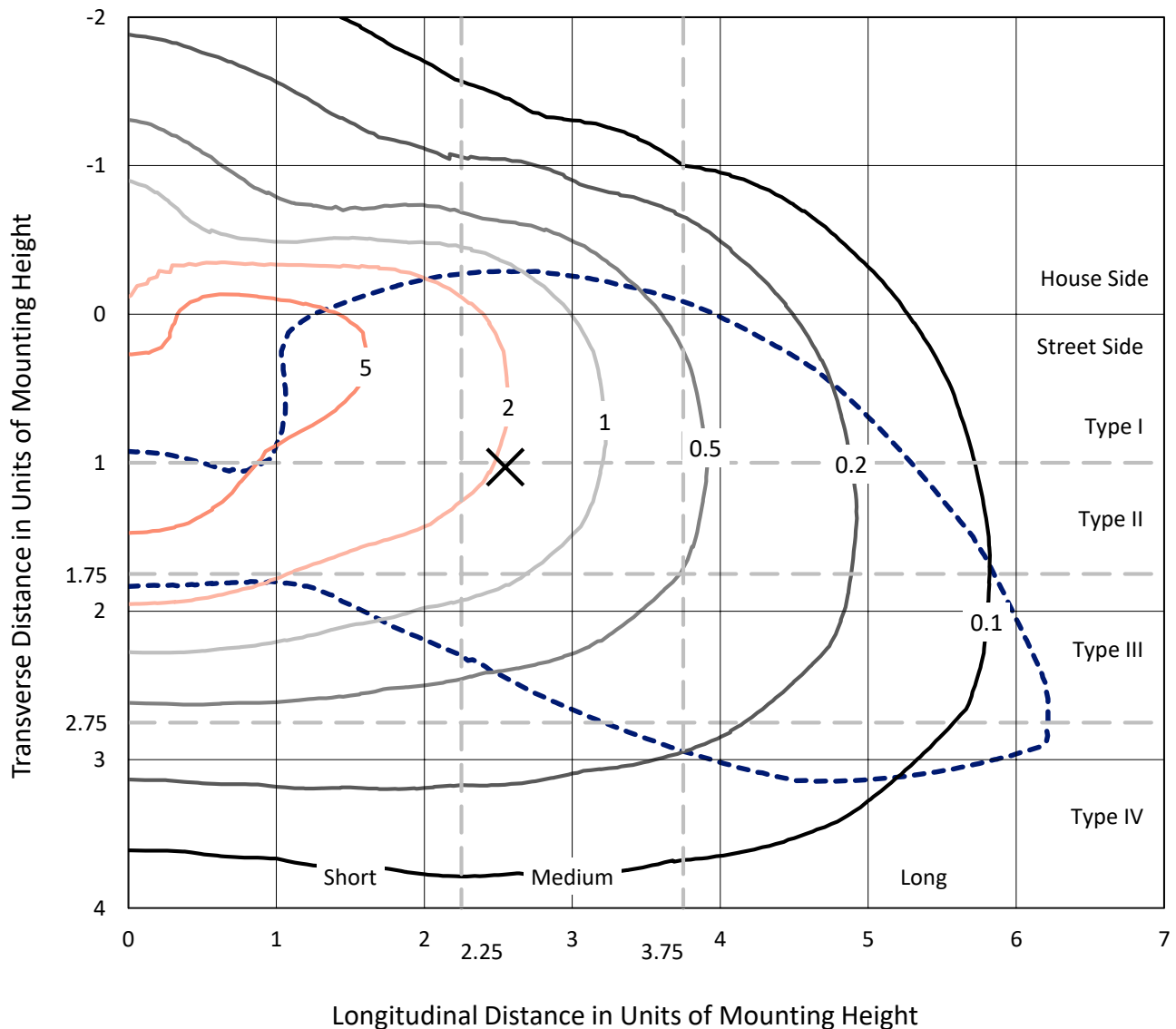


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

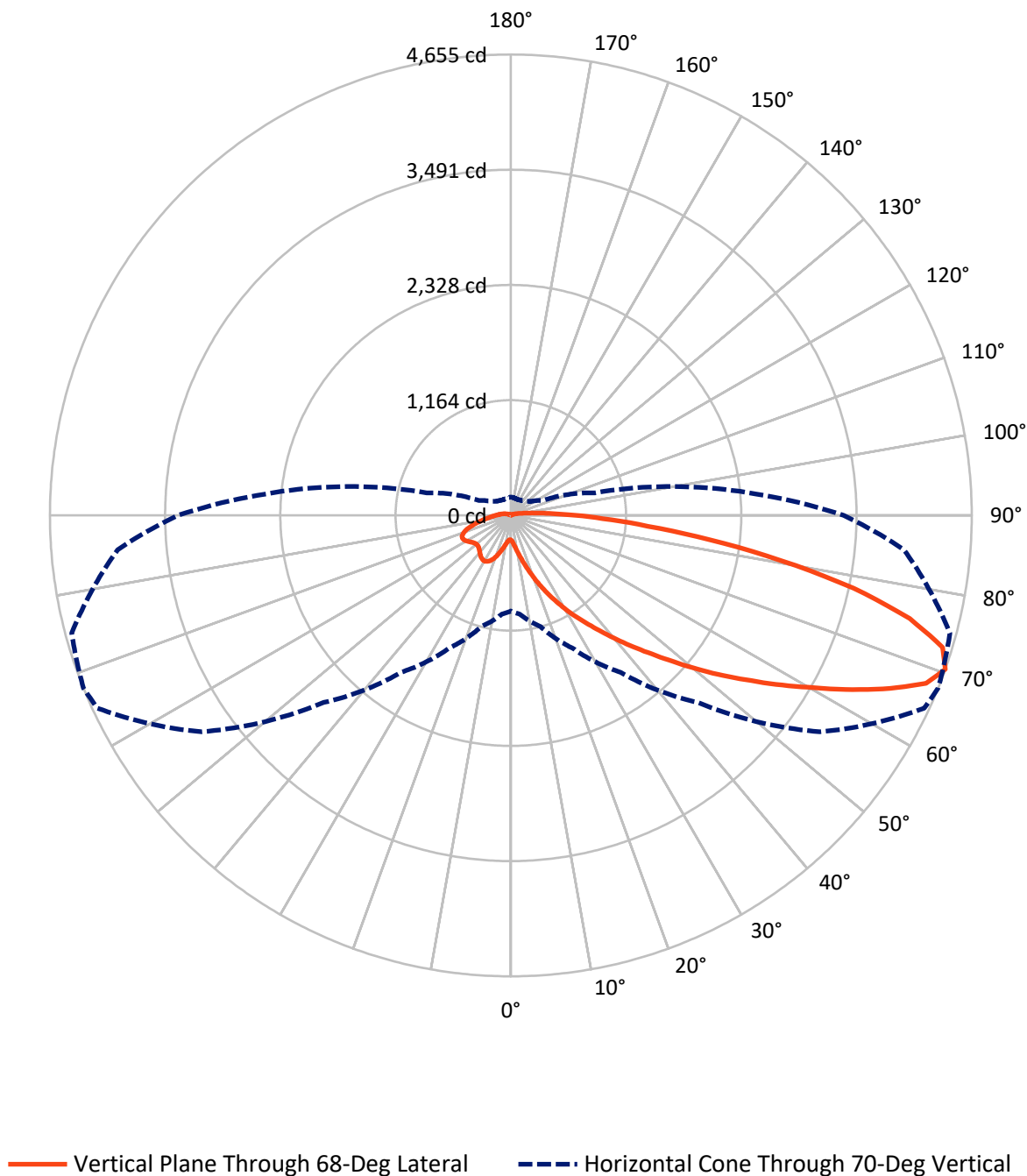


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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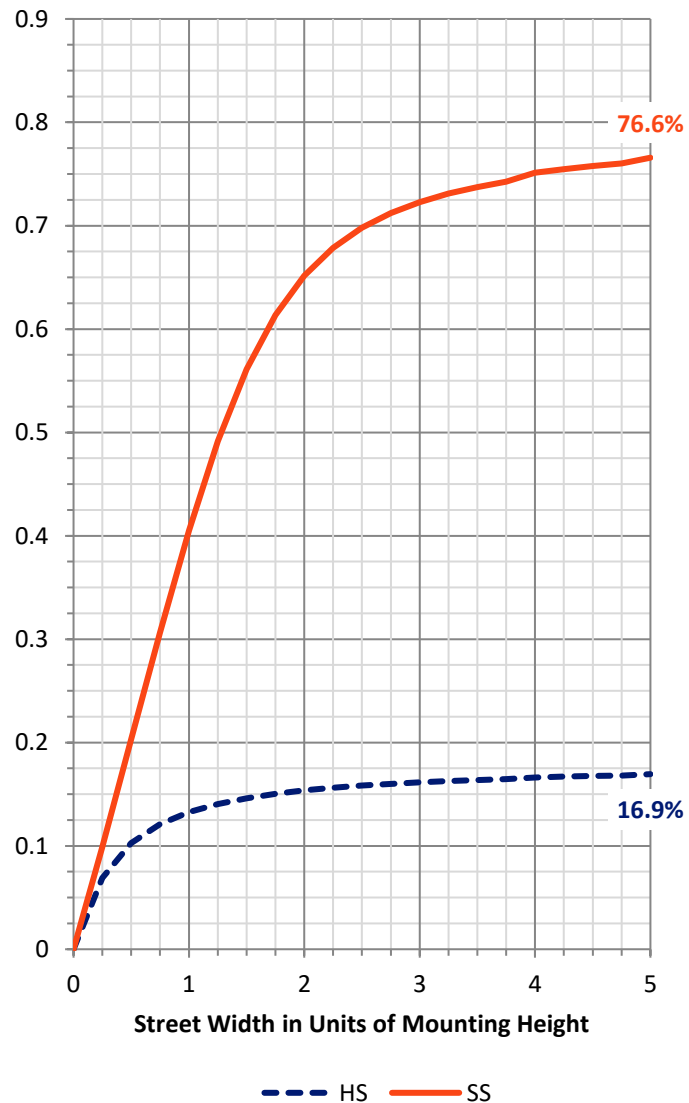
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.7	120.1	1427.8
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	5805.6	164.5	5970.2
	% Fixture	78.5	2.2	80.7
Total	Lumens	7113.3	284.6	7397.9
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	0.4
10°-20°	117.4	1.6
20°-30°	297.0	4.0
30°-40°	575.6	7.8
40°-50°	970.4	13.1
50°-60°	1450.9	19.6
60°-70°	1759.3	23.8
70°-80°	1372.6	18.6
80°-90°	543.1	7.3
90°-100°	166.3	2.2
100°-110°	65.4	0.9
110°-120°	29.0	0.4
120°-130°	14.3	0.2
130°-140°	7.0	0.1
140°-150°	2.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7113.3	96.2
0°-180°	7397.9	100.0

Coefficient of Utilization



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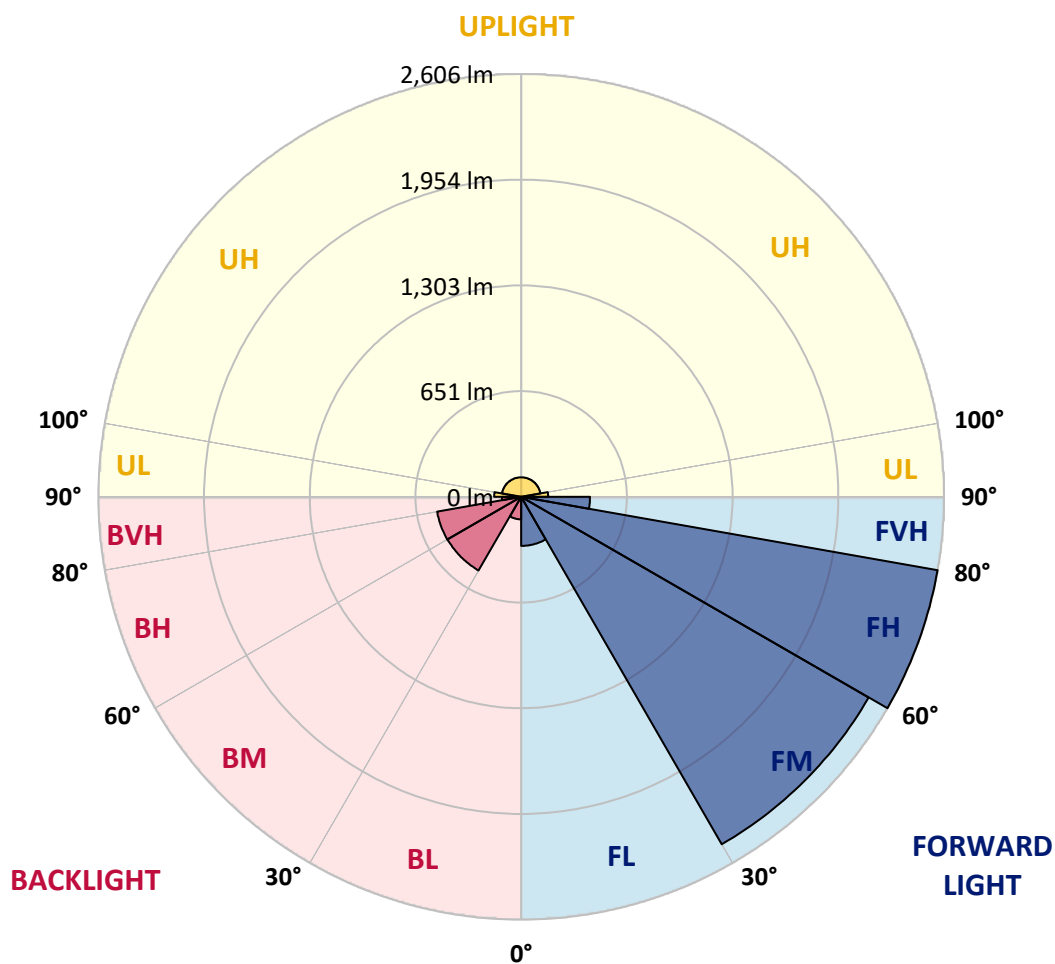
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.5	4.1			
FM	(30°-60°)	2472.7	33.4			
FH	(60°-80°)	2606.0	35.2			G2/5000
FVH	(80°-90°)	424.5	5.7			G3/500
BL	(0°-30°)	139.0	1.9	B1/500		
BM	(30°-60°)	524.2	7.1	B1/1000		
BH	(60°-80°)	525.9	7.1	B2/1000		G2/1000
BVH	(80°-90°)	118.6	1.6			G2/225
UL	(90°-100°)	166.3	2.2		U3/500	
UH	(100°-180°)	120.1	1.6		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°	68°	75°	85°
0°	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6
2.5°	276.7	277.6	277.6	274.7	273.7	270.9	265.9	264.1	262.1	260.1	256.3
5°	313.3	313.3	311.4	308.5	304.8	301.8	296.9	291.1	290.2	283.4	276.7
7.5°	355.0	355.9	356.9	352.1	346.3	341.4	335.7	327.9	325.9	319.1	306.6
10°	410.0	411.1	409.1	404.3	396.6	390.7	383.9	376.3	373.3	367.5	350.1
12.5°	476.8	475.9	470.1	463.3	454.6	447.9	439.1	433.3	431.3	425.6	407.2
15°	547.4	551.3	544.5	529.1	518.4	507.8	503.9	503.9	505.9	499.1	481.8
17.5°	638.4	641.3	629.7	608.3	591.0	579.4	575.5	583.2	586.1	589.0	573.6
20°	743.8	744.7	726.3	696.4	665.4	650.9	651.9	670.3	677.1	687.7	669.3
22.5°	872.4	864.7	838.6	792.1	747.7	724.4	733.1	769.9	775.7	797.9	788.3
25°	1006.9	1006.0	962.3	900.6	835.8	805.7	820.2	865.7	882.0	915.9	903.3
27.5°	1161.7	1157.7	1101.7	1025.3	937.2	892.7	905.3	970.1	989.5	1046.4	1032.9
30°	1326.1	1327.1	1261.3	1154.9	1045.6	983.7	991.4	1081.3	1106.5	1172.3	1168.4
32.5°	1522.4	1510.8	1437.3	1298.0	1163.6	1079.4	1090.1	1194.5	1229.2	1307.8	1296.1
35°	1719.7	1705.2	1607.5	1454.7	1286.4	1186.8	1191.6	1315.4	1352.2	1453.7	1431.6
37.5°	1901.5	1893.8	1796.1	1620.1	1423.7	1305.7	1311.5	1445.1	1491.4	1604.6	1577.4
40°	2096.9	2096.9	1997.3	1805.8	1576.6	1434.3	1443.1	1589.1	1645.2	1769.0	1723.6
42.5°	2304.0	2297.1	2191.7	1975.1	1728.4	1572.7	1590.0	1751.7	1814.5	1946.0	1899.6
45°	2507.9	2493.6	2384.1	2158.9	1880.3	1728.4	1754.4	1929.6	1995.4	2162.7	2097.9
47.5°	2684.1	2668.5	2561.1	2324.2	2039.9	1889.9	1926.7	2136.6	2206.2	2405.5	2306.8
50°	2809.7	2804.9	2700.5	2455.7	2182.0	2056.3	2133.8	2357.0	2440.3	2641.5	2548.6
52.5°	2883.3	2874.5	2791.3	2574.7	2324.2	2228.5	2346.5	2597.0	2684.9	2901.6	2793.3
55°	2866.9	2861.1	2802.1	2637.6	2435.4	2393.9	2582.5	2863.9	2946.1	3180.2	3051.5
57.5°	2737.2	2744.9	2727.5	2641.5	2517.7	2565.1	2824.3	3145.3	3232.4	3460.7	3323.3
60°	2506.1	2503.1	2552.6	2566.9	2550.5	2713.0	3116.4	3466.5	3533.2	3763.4	3588.4
62.5°	2164.7	2156.9	2264.3	2402.5	2526.4	2837.8	3379.4	3808.9	3875.7	4061.2	3833.1
65°	1745.9	1780.6	1915.1	2143.3	2406.4	2885.2	3634.8	4158.1	4213.1	4311.8	4025.5
67.5°	1323.1	1357.0	1531.0	1820.3	2206.2	2830.1	3797.3	4471.4	4524.7	4550.7	4109.7
70°	966.3	999.1	1163.6	1480.8	1934.4	2670.6	3809.9	4606.8	4655.2	4591.4	3985.9
72.5°	687.7	705.0	846.3	1147.1	1624.9	2390.9	3651.2	4519.8	4559.4	4382.4	3659.0
75°	486.5	494.3	616.1	872.4	1323.1	2074.8	3274.1	4130.0	4160.9	3938.5	3111.4
77.5°	331.7	349.2	445.9	665.4	1061.0	1703.3	2774.9	3541.0	3541.0	3258.5	2461.5
80°	235.0	249.5	320.1	497.1	830.8	1364.7	2242.0	2813.7	2769.1	2448.9	1773.9
82.5°	169.3	180.9	237.0	379.1	645.1	1078.4	1701.2	2083.3	2022.4	1709.1	1172.3
85°	122.8	134.4	180.0	278.6	494.3	836.6	1274.8	1446.9	1386.9	1132.6	761.2
87.5°	89.9	97.7	134.4	209.9	374.3	633.4	935.3	982.7	929.5	732.1	488.4
90°	63.8	70.6	102.4	158.7	280.5	475.9	656.7	645.1	587.0	460.4	323.1
92.5°	46.4	51.3	76.4	121.0	208.9	349.2	451.7	416.9	383.9	296.0	224.4
95°	34.9	38.7	60.0	93.9	153.8	245.8	304.8	273.7	248.6	202.1	165.4
97.5°	28.1	30.9	49.2	75.4	119.0	178.9	210.9	180.9	169.3	146.1	127.8
100°	24.1	26.1	41.6	62.9	93.9	134.4	148.9	126.7	119.9	110.3	99.7
102.5°	22.3	23.2	36.7	54.2	76.4	100.6	107.4	94.8	89.9	84.1	78.3
105°	20.3	21.3	32.9	47.4	64.8	78.3	82.2	72.5	69.6	63.8	60.0
107.5°	19.3	19.3	29.1	41.6	55.1	64.8	64.8	57.1	54.2	48.4	46.4
110°	18.3	18.3	26.1	37.7	47.4	55.1	53.2	45.5	42.6	36.7	35.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	17.4	17.4	24.1	32.9	41.6	46.4	44.5	36.7	33.9	28.1	28.1
115°	16.4	16.4	21.3	29.1	36.7	39.7	37.7	29.9	28.1	22.3	23.2
117.5°	16.4	16.4	20.3	26.1	31.9	34.9	31.9	24.1	22.3	18.3	20.3
120°	15.6	15.6	18.3	23.2	28.1	29.9	27.1	20.3	18.3	15.6	17.4
122.5°	15.6	15.6	17.4	20.3	25.1	26.1	23.2	17.4	15.6	13.5	15.6
125°	14.5	14.5	16.4	18.3	21.3	22.3	19.3	14.5	13.5	12.6	13.5
127.5°	14.5	14.5	15.6	16.4	19.3	19.3	16.4	11.6	11.6	10.6	12.6
130°	13.5	14.5	14.5	15.6	16.4	16.4	13.5	9.8	9.8	9.8	11.6
132.5°	13.5	13.5	13.5	13.5	14.5	13.5	10.6	8.7	8.7	8.7	10.6
135°	12.6	12.6	12.6	12.6	11.6	10.6	8.7	6.8	6.8	7.7	9.8
137.5°	12.6	12.6	11.6	10.6	10.6	8.7	6.8	5.8	5.8	7.7	8.7
140°	11.6	11.6	10.6	9.8	7.7	6.8	4.8	4.8	4.8	5.8	6.8
142.5°	9.8	9.8	9.8	7.7	5.8	3.9	2.9	2.9	3.9	4.8	5.8
145°	8.7	8.7	7.7	6.8	3.9	1.9	1.0	1.9	2.9	3.9	4.8
147.5°	6.8	6.8	5.8	4.8	1.9	1.0	0.0	1.0	1.9	1.9	2.9
150°	4.8	4.8	4.8	2.9	1.0	0.0	0.0	1.0	1.0	1.0	1.9
152.5°	3.9	3.9	2.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.0	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°	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6	248.6
2.5°	253.4	252.4	247.6	243.7	239.0	235.0	231.2	228.3	227.3	225.4	226.2
5°	270.9	266.9	257.3	248.6	239.0	230.2	222.5	216.7	211.9	209.9	208.9
7.5°	300.8	295.0	277.6	262.1	246.6	231.2	218.6	208.9	203.1	199.3	199.3
10°	344.2	331.7	309.5	283.4	257.3	235.0	217.7	204.1	195.3	192.6	192.6
12.5°	397.4	383.9	349.2	309.5	272.7	241.8	218.6	204.1	195.3	191.5	190.5
15°	468.1	447.9	396.6	340.5	287.3	247.6	219.6	205.1	199.3	197.3	197.3
17.5°	551.3	526.2	451.7	374.3	303.7	250.5	222.5	210.9	207.9	207.9	207.9
20°	650.0	613.2	513.6	404.3	315.3	253.4	224.4	215.7	215.7	217.7	218.6
22.5°	755.4	709.0	573.6	432.3	319.1	255.3	223.4	217.7	222.5	227.3	228.3
25°	867.6	802.8	627.7	449.7	321.1	250.5	220.4	218.6	228.3	235.0	237.0
27.5°	986.6	898.5	674.1	456.4	315.3	241.8	215.7	216.7	231.2	240.8	242.8
30°	1095.9	988.5	710.9	454.6	302.7	231.2	209.9	213.7	231.2	244.7	247.6
32.5°	1209.1	1077.6	733.1	445.9	287.3	219.6	203.1	210.9	230.2	245.8	248.6
35°	1322.1	1155.9	743.8	428.6	269.9	208.9	196.3	206.1	227.3	244.7	246.6
37.5°	1435.3	1233.2	746.7	406.2	254.3	200.2	191.5	203.1	222.5	242.8	245.8
40°	1557.2	1309.6	740.9	383.9	239.9	194.4	187.6	199.3	218.6	239.9	243.7
42.5°	1693.6	1390.9	734.1	361.7	230.2	190.5	184.7	195.3	212.8	237.0	241.8
45°	1845.4	1479.8	730.3	344.2	224.4	188.6	183.8	192.6	209.9	235.0	239.9
47.5°	2009.0	1592.0	734.1	332.7	221.5	189.6	183.8	190.5	206.1	231.2	237.0
50°	2208.1	1720.8	748.7	324.1	220.4	190.5	184.7	188.6	202.1	225.4	231.2
52.5°	2414.2	1852.2	771.8	322.1	221.5	192.6	185.7	187.6	196.3	217.7	222.5
55°	2627.9	2026.3	811.5	324.9	223.4	195.3	186.8	185.7	191.5	207.9	213.7
57.5°	2869.7	2207.1	860.9	331.7	226.2	197.3	187.6	183.8	185.7	199.3	204.1
60°	3109.6	2390.9	911.1	340.5	232.1	200.2	188.6	182.8	182.8	193.4	197.3
62.5°	3327.2	2552.6	952.7	352.1	237.0	202.1	188.6	180.9	180.0	188.6	192.6
65°	3476.2	2637.6	962.3	358.8	241.8	203.1	186.8	178.9	178.0	184.7	188.6
67.5°	3515.9	2624.1	943.0	361.7	244.7	203.1	186.8	177.0	178.0	183.8	186.8
70°	3361.1	2483.8	879.2	355.9	243.7	202.1	184.7	175.1	177.0	182.8	184.7
72.5°	2991.6	2193.6	780.5	341.4	239.0	198.3	180.9	172.2	175.1	181.8	183.8
75°	2510.9	1817.4	663.5	318.2	230.2	193.4	177.0	168.3	173.1	180.0	180.9
77.5°	1931.4	1392.8	542.6	288.2	218.6	186.8	171.2	162.5	169.3	177.0	176.0
80°	1371.5	1015.6	428.6	257.3	203.1	177.0	163.5	155.7	163.5	171.2	169.3
82.5°	945.0	688.7	342.4	227.3	186.8	166.4	154.7	147.9	156.7	163.5	160.6
85°	619.1	465.2	269.9	199.3	171.2	155.7	145.1	138.3	147.1	152.9	148.9
87.5°	399.5	324.1	215.7	173.1	154.7	144.1	134.4	128.6	137.3	142.1	138.3
90°	277.6	236.0	178.0	149.9	139.3	131.5	123.8	118.0	125.7	129.6	127.8
92.5°	198.3	180.9	147.9	131.5	125.7	119.0	112.2	107.4	115.0	118.0	116.1
95°	154.7	144.1	125.7	116.1	113.2	108.2	101.6	96.7	102.4	104.5	103.5
97.5°	123.8	119.0	108.2	102.4	100.6	96.7	91.9	87.1	90.9	91.9	90.9
100°	99.7	97.7	92.9	89.9	88.9	86.1	81.3	77.3	79.3	78.3	78.3
102.5°	79.3	79.3	78.3	77.3	77.3	74.6	70.6	66.7	66.7	64.8	64.8
105°	62.9	64.8	64.8	65.8	66.7	64.8	60.9	56.0	55.1	52.2	52.2
107.5°	49.2	51.3	54.2	55.1	56.0	54.2	51.3	46.4	43.4	40.7	41.6
110°	38.7	40.7	44.5	46.4	47.4	46.4	42.6	38.7	33.9	31.9	32.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.9	32.9	36.7	38.7	39.7	38.7	34.9	30.9	26.1	25.1	25.1
115°	25.1	27.1	30.9	32.9	32.9	31.9	29.1	24.1	20.3	19.3	20.3
117.5°	21.3	23.2	26.1	28.1	28.1	27.1	24.1	19.3	16.4	16.4	16.4
120°	18.3	20.3	22.3	24.1	24.1	23.2	20.3	15.6	13.5	13.5	13.5
122.5°	16.4	17.4	19.3	20.3	20.3	19.3	16.4	12.6	10.6	11.6	11.6
125°	14.5	15.6	17.4	18.3	17.4	16.4	13.5	9.8	8.7	9.8	9.8
127.5°	13.5	14.5	15.6	15.6	15.6	13.5	11.6	7.7	7.7	8.7	8.7
130°	12.6	12.6	13.5	13.5	12.6	11.6	8.7	5.8	5.8	7.7	7.7
132.5°	11.6	11.6	12.6	11.6	11.6	9.8	6.8	4.8	5.8	6.8	6.8
135°	9.8	9.8	10.6	10.6	8.7	7.7	4.8	3.9	3.9	4.8	5.8
137.5°	8.7	9.8	9.8	8.7	7.7	5.8	3.9	2.9	3.9	3.9	4.8
140°	7.7	7.7	7.7	6.8	5.8	3.9	1.9	1.9	2.9	2.9	2.9
142.5°	5.8	6.8	6.8	5.8	3.9	1.9	1.0	1.0	1.9	1.9	1.9
145°	4.8	4.8	4.8	3.9	2.9	1.9	1.0	1.0	1.0	1.0	1.0
147.5°	2.9	3.9	3.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
150°	1.9	1.9	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	1.0	1.0	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

(END OF REPORT)