

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: P240044

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-A-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6777.4 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U4 - 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

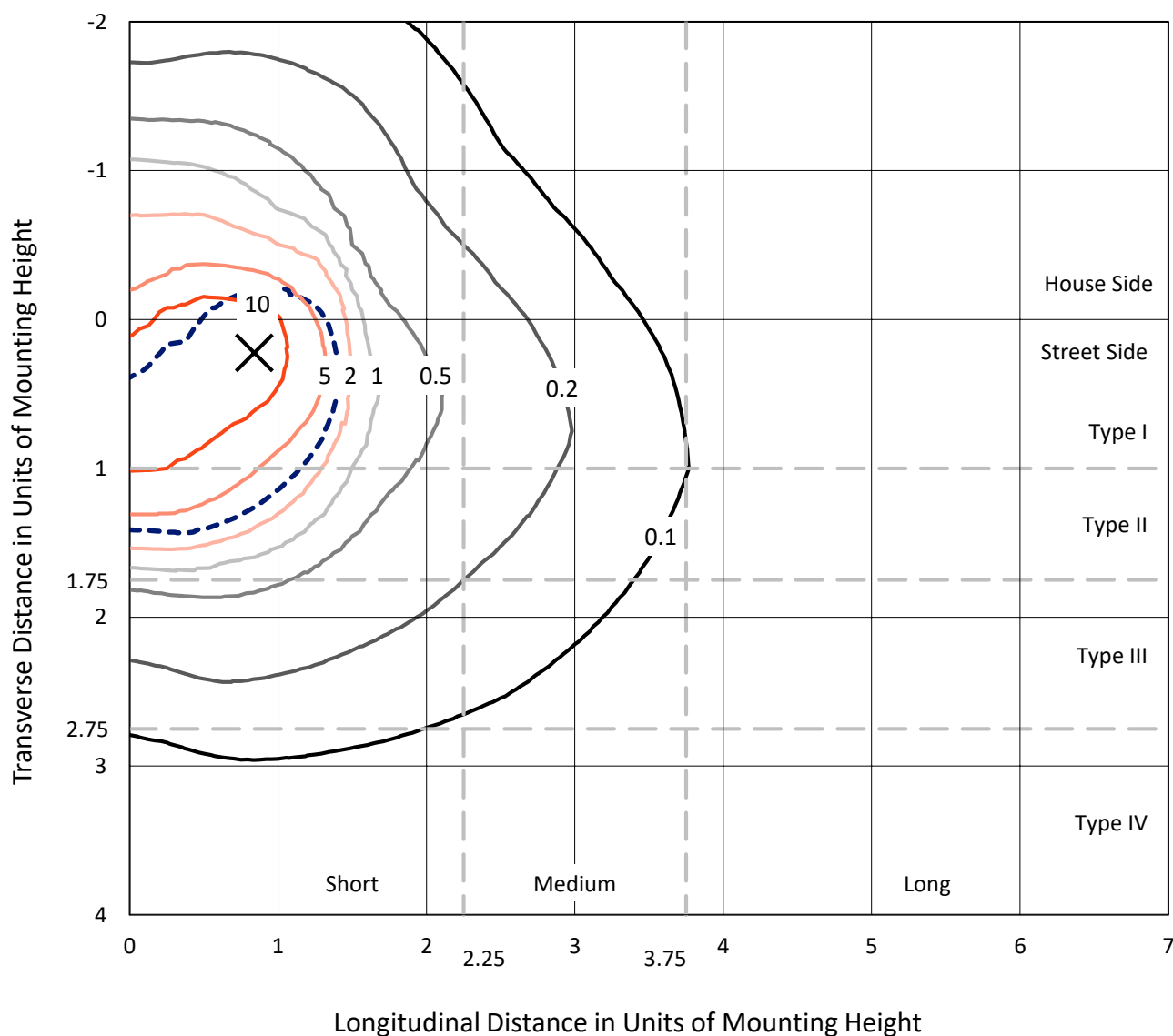


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

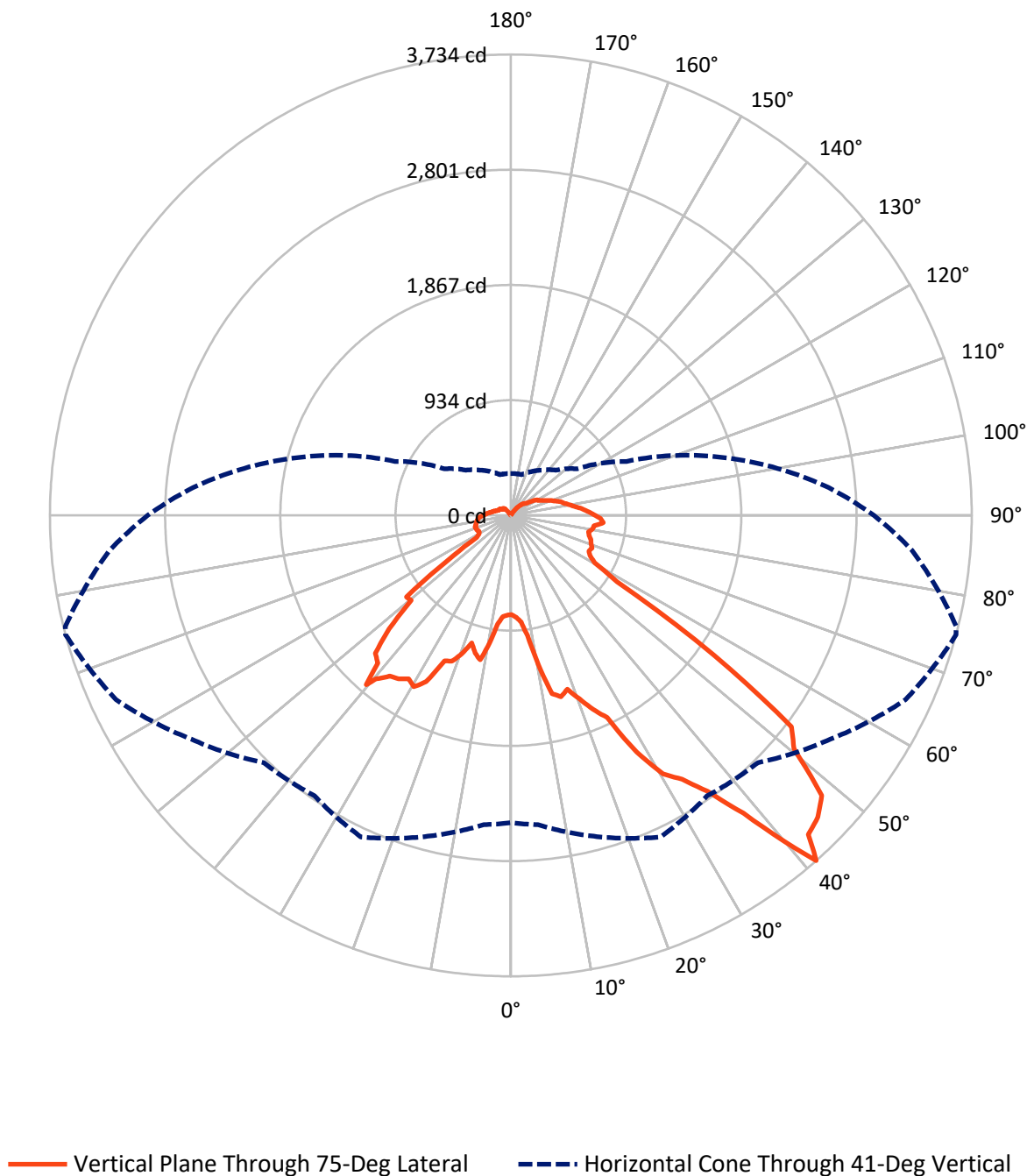


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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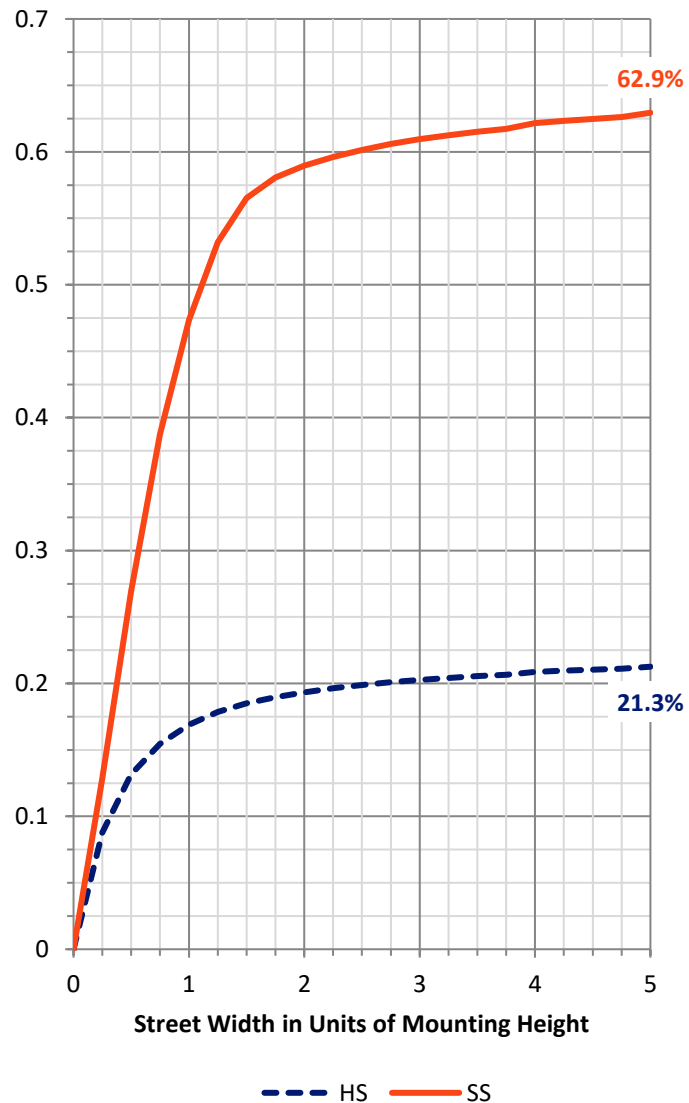
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.0	190.7	1685.7
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	4396.9	694.8	5091.7
	% Fixture	64.9	10.3	75.1
Total	Lumens	5891.9	885.5	6777.4
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.2
10°-20°	335.4	4.9
20°-30°	689.0	10.2
30°-40°	1121.8	16.6
40°-50°	1457.0	21.5
50°-60°	1033.0	15.2
60°-70°	419.9	6.2
70°-80°	379.9	5.6
80°-90°	371.1	5.5
90°-100°	318.4	4.7
100°-110°	230.6	3.4
110°-120°	157.3	2.3
120°-130°	102.2	1.5
130°-140°	60.9	0.9
140°-150°	15.5	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5891.9	86.9
0°-180°	6777.4	100.0

Coefficient of Utilization



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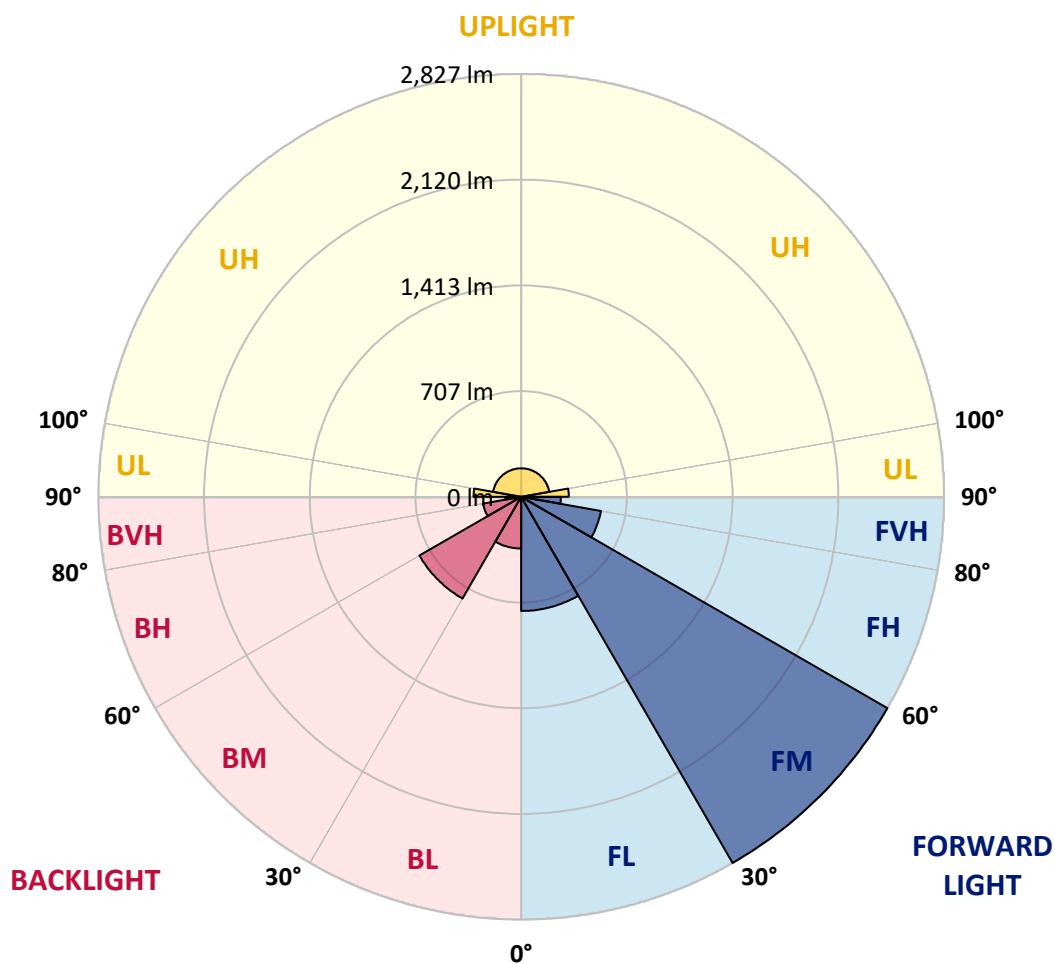
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.2	11.3			
FM	(30°-60°)	2826.6	41.7			
FH	(60°-80°)	541.2	8.0			G0/660
FVH	(80°-90°)	265.9	3.9			G3/500
BL	(0°-30°)	345.9	5.1	B1/500		
BM	(30°-60°)	785.2	11.6	B1/1000		
BH	(60°-80°)	258.6	3.8	B1/500		G1/500
BVH	(80°-90°)	105.3	1.6			G2/225
UL	(90°-100°)	318.4	4.7		U3/500	
UH	(100°-180°)	190.7	2.8		U3/500	

BUG Rating: B1-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9
2.5°	860.0	861.8	858.0	855.1	853.2	847.5	842.6	835.9	826.1	825.2	821.3
5°	938.1	938.1	938.1	931.3	923.7	911.1	900.6	885.0	866.7	865.8	851.2
7.5°	1064.5	1064.5	1058.7	1049.1	1031.7	1012.4	1010.5	1008.6	983.5	980.6	954.5
10°	1200.6	1196.7	1199.6	1207.5	1216.0	1242.2	1258.5	1260.5	1233.4	1226.7	1189.1
12.5°	1253.8	1257.6	1291.3	1353.1	1457.4	1561.7	1615.6	1571.2	1481.4	1469.9	1381.1
15°	1334.8	1339.6	1395.6	1498.8	1672.5	1823.1	1776.8	1665.8	1523.9	1513.4	1376.3
17.5°	1551.9	1574.1	1628.2	1792.3	1968.9	1908.1	1751.8	1608.9	1480.6	1468.0	1353.1
20°	1704.5	1717.0	1821.3	1978.5	2103.0	2010.4	1903.3	1759.4	1586.7	1586.7	1497.0
22.5°	1830.8	1827.1	1911.9	2149.3	2221.8	2161.9	2037.3	1890.7	1707.2	1698.7	1581.8
25°	2029.7	2042.3	2188.9	2451.4	2384.8	2232.3	2068.3	1934.1	1813.4	1802.9	1686.1
27.5°	2145.6	2178.3	2347.2	2575.0	2532.5	2326.9	2183.1	2162.9	2171.5	2162.9	2035.5
30°	2174.5	2188.9	2397.3	2623.2	2594.3	2441.8	2441.8	2475.6	2431.1	2418.7	2247.8
32.5°	2246.8	2281.6	2481.4	2657.0	2586.6	2557.6	2573.0	2566.3	2547.0	2529.6	2330.8
35°	2364.6	2394.5	2581.7	2714.0	2585.6	2596.2	2735.2	2815.3	2745.8	2730.4	2434.1
37.5°	2674.4	2703.4	2872.2	2864.6	2654.1	2674.4	2926.3	3073.0	3060.5	3058.5	2765.2
40°	2612.6	2708.2	2912.8	2944.6	2756.4	2778.7	3079.8	3398.3	3544.9	3541.1	3177.3
41°	2489.0	2515.1	2693.7	2874.2	2772.9	2831.7	3159.9	3529.5	3734.2	3719.6	3264.1
42.5°	2533.5	2579.8	2686.0	2745.8	2753.6	2871.4	3222.6	3545.9	3535.3	3528.5	3156.0
45°	2911.9	2931.1	2975.5	2860.6	2666.7	2813.4	3187.8	3488.0	3487.0	3456.2	3288.2
47.5°	2729.4	2784.5	2973.6	2871.4	2658.0	2656.1	2902.2	3308.5	3389.6	3345.2	2927.3
50°	2581.7	2621.3	2731.4	2622.2	2528.7	2526.7	2758.4	3064.2	2971.7	2959.1	2384.8
52.5°	2290.3	2328.9	2407.1	2380.0	2326.9	2321.1	2497.7	2818.3	2847.2	2837.5	2407.1
55°	1741.1	1768.2	2062.5	2070.3	2030.7	2049.9	2192.9	2323.1	1998.8	1946.7	1353.1
57.5°	1023.0	1092.5	1378.2	1556.7	1638.8	1654.3	1605.0	1374.4	1014.4	977.7	624.4
60°	504.8	540.5	739.2	928.4	1140.7	1148.6	992.2	878.2	778.9	756.6	546.3
62.5°	360.0	381.2	511.6	611.9	730.6	749.9	694.9	742.2	721.0	707.5	531.8
65°	326.2	344.6	453.7	506.8	555.9	585.8	599.4	678.5	694.9	686.2	527.9
67.5°	298.3	316.6	414.1	454.6	491.2	539.5	568.4	646.6	709.4	703.6	559.7
70°	263.6	284.7	373.5	422.8	468.0	523.2	562.6	644.7	690.1	682.4	542.4
72.5°	230.6	249.9	322.4	380.2	446.9	509.5	568.4	628.4	678.5	671.7	549.1
75°	200.7	220.0	282.8	342.6	418.9	513.4	572.3	623.5	655.3	645.7	539.5
77.5°	180.5	199.8	253.8	312.7	397.6	519.2	625.4	644.7	643.7	634.1	527.9
80°	164.1	183.3	234.6	291.5	378.4	531.8	668.8	688.2	670.8	658.2	530.8
82.5°	159.3	177.5	224.8	287.6	382.2	539.5	681.3	729.7	680.4	665.0	527.9
85°	176.7	188.3	237.4	307.9	407.3	553.1	676.6	752.8	751.8	735.5	576.3
87.5°	210.5	220.0	268.3	339.7	434.3	560.7	736.4	767.3	726.8	719.0	582.1
90°	260.6	267.3	317.5	383.2	462.2	556.9	607.1	646.6	673.7	667.9	552.1
92.5°	309.9	318.5	363.9	412.1	447.9	478.7	527.9	619.6	623.5	618.6	530.8
95°	367.7	373.5	399.6	423.7	431.5	442.1	491.2	531.8	576.3	570.5	511.6
97.5°	399.6	402.5	414.1	411.2	392.8	394.8	449.7	493.2	520.2	513.4	447.9
100°	391.8	394.8	396.7	379.3	354.2	361.9	407.3	459.4	480.6	477.8	414.9
102.5°	366.8	371.6	372.6	355.2	332.0	333.9	378.4	417.9	440.1	436.3	387.0
105°	360.0	361.9	353.2	330.1	303.0	306.9	349.4	391.8	417.9	415.9	365.8
107.5°	324.3	326.2	313.7	291.5	281.8	292.5	331.0	358.1	375.5	375.5	326.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	272.2	272.2	269.4	264.4	266.4	281.8	313.7	331.0	345.5	344.6	298.3
112.5°	263.6	261.5	258.6	254.8	249.0	261.5	282.8	304.1	306.9	305.9	266.4
115°	259.6	256.8	247.0	236.4	229.7	239.4	255.7	275.2	282.8	281.8	253.8
117.5°	229.7	229.7	222.1	214.2	211.4	223.9	244.2	256.8	257.8	259.6	232.6
120°	205.6	205.6	200.7	196.8	198.9	204.7	226.8	237.4	247.0	246.2	223.0
122.5°	187.3	188.3	184.3	176.7	183.3	189.1	201.7	212.3	223.0	222.1	205.6
125°	169.0	167.9	164.1	155.3	170.9	178.5	179.5	178.5	189.1	189.1	174.7
127.5°	149.5	148.6	144.8	140.0	160.2	170.9	169.0	153.5	160.2	159.3	152.5
130°	147.7	146.7	140.0	134.2	143.7	162.1	153.5	142.8	148.6	149.5	142.8
132.5°	146.7	145.8	139.0	129.4	126.4	145.8	130.3	132.2	139.0	139.0	133.2
135°	137.0	136.1	130.3	116.8	103.2	120.6	103.2	113.8	122.6	122.6	117.8
137.5°	120.6	119.6	113.8	102.2	83.0	85.9	78.2	95.6	105.2	106.2	102.2
140°	95.6	96.4	90.6	79.1	59.9	45.4	51.2	74.3	84.0	84.0	83.0
142.5°	71.4	71.4	65.7	54.1	34.8	16.4	29.0	45.4	57.0	57.9	59.9
145°	50.1	50.1	44.4	34.8	17.4	2.9	13.5	27.0	35.7	35.7	38.6
147.5°	32.8	32.8	28.0	19.3	4.8	1.0	3.9	13.5	21.2	21.2	23.2
150°	20.3	20.3	15.4	5.8	1.0	0.0	1.0	2.9	9.7	9.7	12.6
152.5°	6.8	5.8	2.9	1.9	1.0	0.0	0.0	1.0	1.0	1.0	2.9
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9
2.5°	816.5	814.5	807.9	799.1	788.6	774.9	766.4	762.4	757.6	753.8	755.7
5°	843.5	836.8	821.3	793.3	767.3	748.0	732.6	719.0	712.3	706.5	706.5
7.5°	942.0	930.4	886.9	839.6	780.7	727.6	690.1	670.8	648.6	642.8	641.8
10°	1156.2	1141.8	1050.1	936.2	825.2	721.0	626.4	575.2	551.1	538.5	541.5
12.5°	1333.8	1301.0	1196.7	1067.5	914.0	746.0	614.8	523.2	482.6	467.1	461.3
15°	1319.3	1264.3	1151.4	1028.7	909.1	786.5	655.3	552.1	468.0	440.1	434.3
17.5°	1287.5	1229.6	1080.0	922.7	782.8	707.5	634.1	558.9	495.2	452.7	444.9
20°	1449.7	1384.0	1189.1	1032.7	835.9	645.7	561.7	519.2	478.7	457.5	452.7
22.5°	1519.1	1452.5	1273.0	1075.1	880.2	716.0	579.1	501.0	469.0	465.2	459.4
25°	1623.4	1539.4	1295.2	1046.1	858.0	723.9	580.0	502.8	455.5	455.5	452.7
27.5°	1960.2	1837.6	1512.3	1162.0	890.8	695.9	565.5	480.6	423.7	401.5	396.7
30°	2110.8	1994.0	1595.4	1191.9	905.3	702.6	538.5	441.1	403.3	387.0	385.1
32.5°	2219.8	2067.3	1560.7	1119.6	831.9	656.3	515.3	426.5	389.0	374.4	370.6
35°	2273.9	2073.0	1606.9	1093.4	787.5	602.2	488.4	410.2	387.0	375.5	375.5
37.5°	2537.3	2288.3	1630.1	1086.7	753.8	550.1	464.3	411.2	361.9	345.5	346.5
40°	2901.2	2547.0	1717.0	1036.6	688.2	531.8	448.8	392.8	347.5	336.8	333.0
41°	2941.7	2584.6	1803.9	1035.6	657.3	518.3	447.9	390.9	341.7	339.7	338.8
42.5°	2833.6	2464.1	1608.9	941.0	616.8	496.0	445.9	389.0	335.9	340.7	339.7
45°	2957.2	2590.4	1565.4	861.8	546.3	459.4	422.8	378.4	332.0	323.3	324.3
47.5°	2569.2	2195.7	1347.3	749.9	483.6	419.9	390.9	354.2	322.4	317.5	317.5
50°	2046.1	1721.8	1059.7	659.2	425.7	387.0	360.0	335.9	303.0	290.5	294.4
52.5°	2084.6	1744.0	1074.2	613.8	387.0	353.2	335.9	305.9	267.3	244.2	248.0
55°	1146.5	994.0	628.4	471.0	359.0	328.1	307.9	277.0	234.6	208.4	211.4
57.5°	520.2	432.3	333.9	324.3	310.8	302.1	279.9	252.0	211.4	182.5	182.5
60°	465.2	381.2	298.3	271.2	277.9	278.9	255.7	228.8	189.1	155.3	156.3
62.5°	454.6	371.6	289.5	258.6	264.4	264.4	242.2	215.2	179.5	144.8	144.8
65°	452.7	367.7	290.5	254.8	258.6	259.6	237.4	215.2	191.1	166.0	167.9
67.5°	479.6	389.0	300.1	252.0	255.7	255.7	237.4	221.0	206.5	191.1	193.1
70°	465.2	382.2	298.3	252.0	249.9	249.9	236.4	222.1	214.2	200.7	201.7
72.5°	471.0	393.8	304.1	249.9	242.2	240.4	231.6	223.0	216.3	209.4	210.5
75°	462.2	389.9	294.4	240.4	230.6	226.8	221.0	219.1	220.0	217.2	215.2
77.5°	448.8	383.2	287.6	230.6	220.0	211.4	207.5	208.4	212.3	209.4	206.5
80°	446.9	384.1	284.7	224.8	206.5	192.1	187.3	189.1	190.1	184.3	178.5
82.5°	441.1	376.4	271.2	209.4	186.3	167.9	164.1	166.9	167.9	162.1	156.3
85°	474.8	396.7	267.3	194.9	169.0	149.5	142.8	143.7	137.0	128.4	122.6
87.5°	488.4	400.6	252.0	172.7	151.6	135.2	126.4	120.6	110.1	95.6	91.7
90°	464.3	380.2	226.8	148.6	133.2	120.6	110.1	102.2	88.8	74.3	69.5
92.5°	449.7	364.8	208.4	133.2	116.8	106.2	96.4	84.9	71.4	55.0	52.1
95°	441.1	359.0	196.8	118.8	104.3	93.6	84.0	73.3	59.9	47.3	45.4
97.5°	384.1	310.8	173.7	106.2	91.7	82.1	73.3	62.8	50.1	40.5	38.6
100°	357.1	289.5	161.1	95.6	81.1	72.4	64.7	55.9	45.4	38.6	37.7
102.5°	333.9	269.4	146.7	85.9	72.4	63.7	57.0	49.2	41.5	35.7	36.7
105°	316.6	256.8	141.0	79.1	64.7	57.9	50.1	44.4	36.7	32.8	32.8
107.5°	280.9	227.8	124.5	71.4	58.9	52.1	46.3	40.5	34.8	31.9	32.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	259.6	211.4	118.8	68.5	55.9	48.3	42.5	36.7	30.9	30.9	30.9
112.5°	230.6	190.1	110.1	64.7	52.1	45.4	39.6	32.8	27.0	28.0	29.0
115°	221.0	183.3	106.2	61.7	50.1	43.4	36.7	30.9	24.1	26.1	27.0
117.5°	203.7	169.9	103.2	61.7	48.3	40.5	34.8	29.0	23.2	25.1	25.1
120°	197.9	166.9	103.2	60.8	46.3	38.6	32.8	25.1	21.2	23.2	23.2
122.5°	184.3	156.3	98.5	59.9	44.4	36.7	31.9	21.2	18.3	20.3	20.3
125°	158.3	136.1	88.8	55.9	42.5	36.7	30.9	17.4	17.4	19.3	19.3
127.5°	138.0	119.6	81.1	55.0	43.4	38.6	29.0	14.5	15.4	17.4	17.4
130°	131.2	116.8	84.0	59.9	47.3	40.5	21.2	13.5	14.5	16.4	17.4
132.5°	124.5	113.0	85.9	64.7	50.1	39.6	17.4	12.6	13.5	15.4	15.4
135°	111.0	102.2	80.1	61.7	47.3	31.9	12.6	10.6	12.6	14.5	14.5
137.5°	97.5	90.6	73.3	57.0	43.4	25.1	8.7	9.7	10.6	11.6	11.6
140°	80.1	74.3	60.8	46.3	31.9	13.5	5.8	7.7	8.7	9.7	9.7
142.5°	57.9	54.1	43.4	30.9	18.3	4.8	3.9	5.8	6.8	7.7	7.7
145°	38.6	35.7	28.0	19.3	6.8	2.9	1.9	3.9	5.8	5.8	6.8
147.5°	23.2	22.2	16.4	8.7	2.9	1.9	1.9	2.9	3.9	4.8	4.8
150°	11.6	11.6	7.7	2.9	1.9	1.0	1.0	1.0	1.9	2.9	2.9
152.5°	2.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	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)