

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: P240053

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240053
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 7167.8 lumens
Efficiency: N/A
Efficacy: 76.3 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



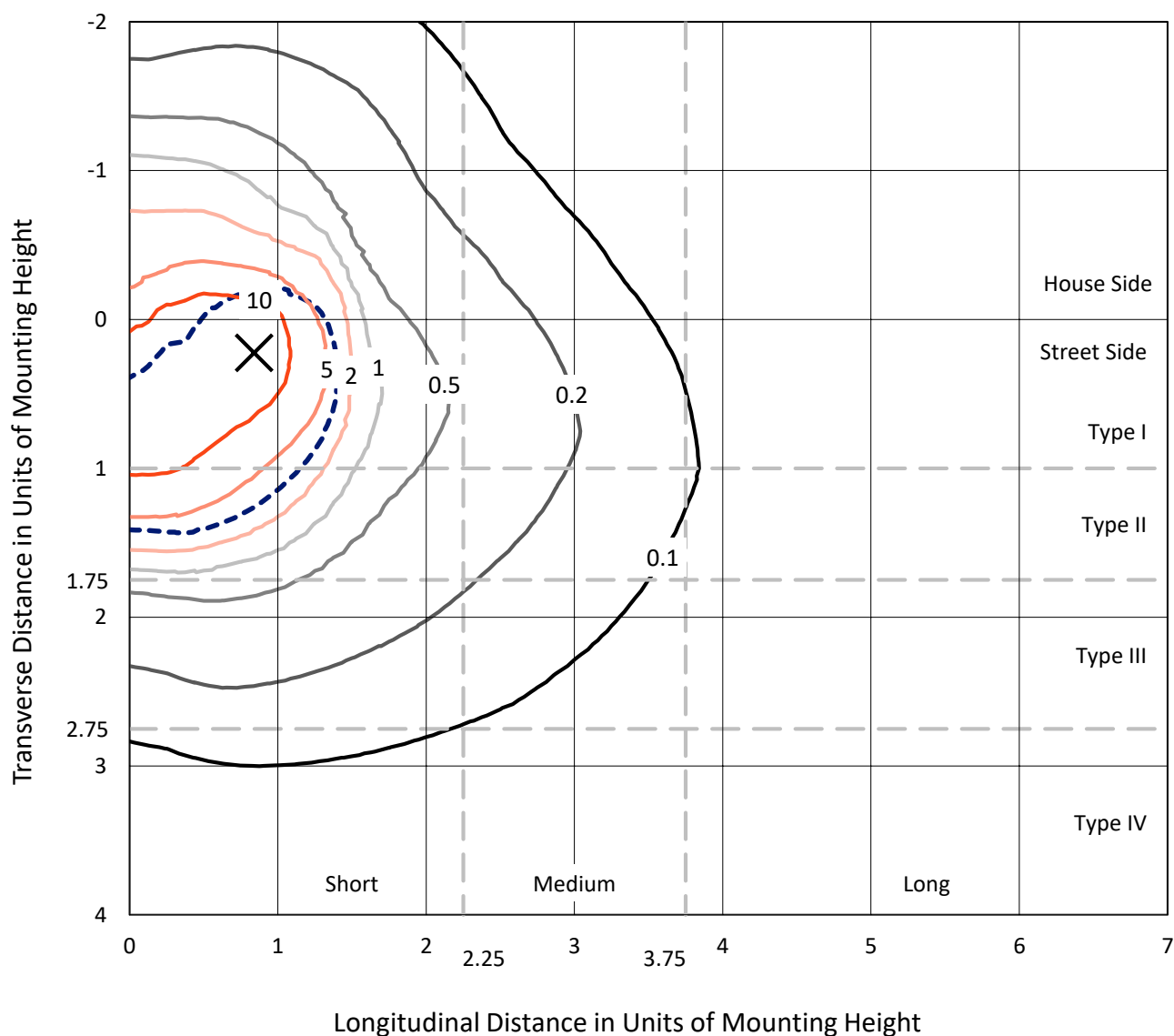
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

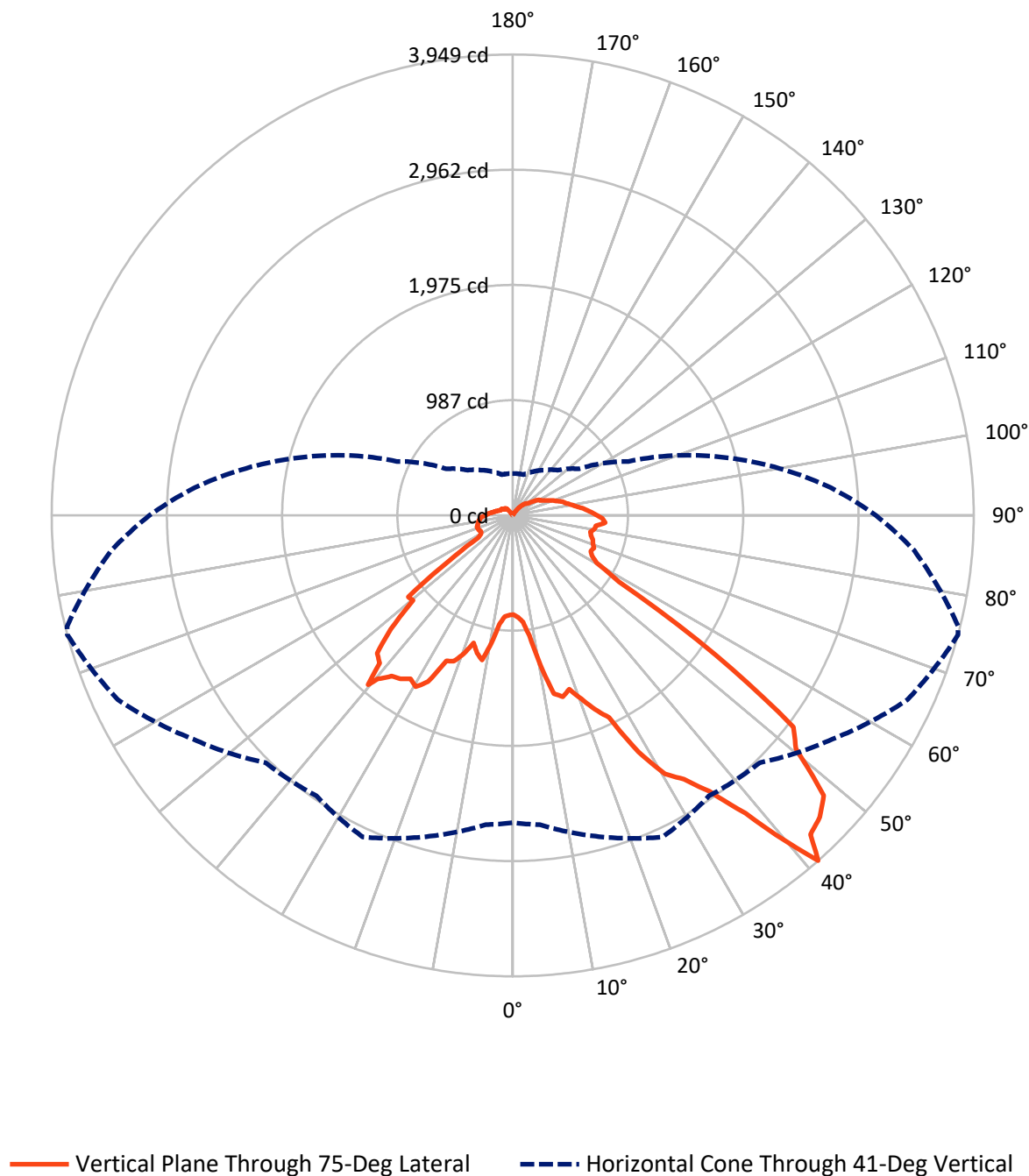


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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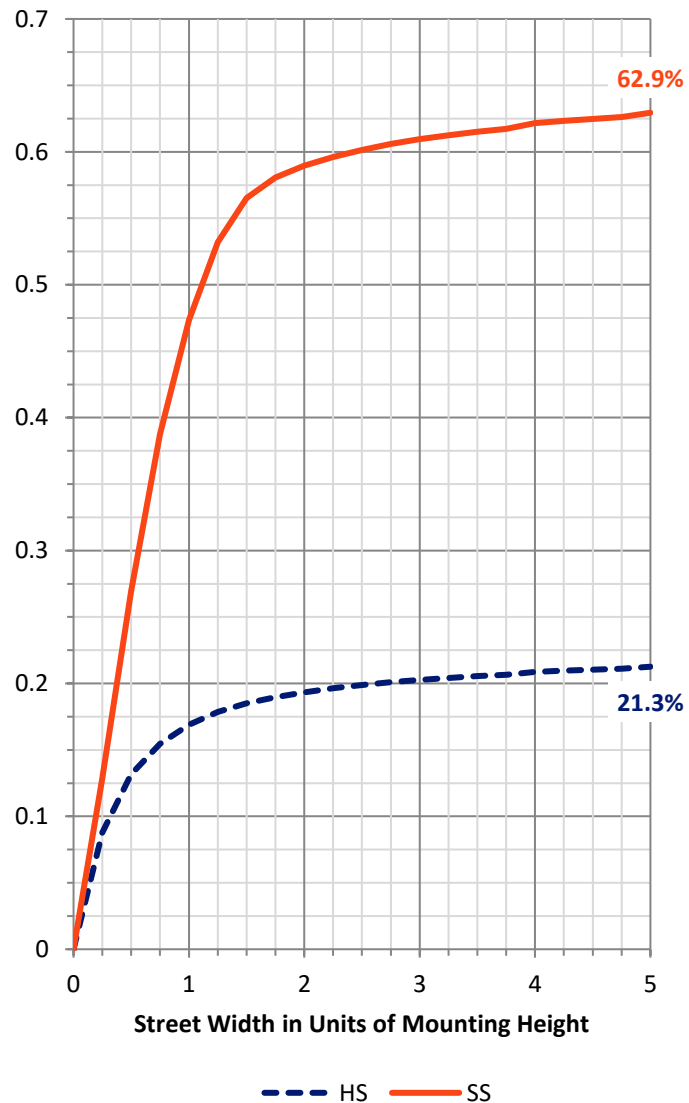
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1581.1	201.6	1782.8
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	4650.2	734.9	5385.0
	% Fixture	64.9	10.3	75.1
Total	Lumens	6231.3	936.5	7167.8
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.2
10°-20°	354.7	4.9
20°-30°	728.8	10.2
30°-40°	1186.4	16.6
40°-50°	1541.0	21.5
50°-60°	1092.6	15.2
60°-70°	444.1	6.2
70°-80°	401.8	5.6
80°-90°	392.5	5.5
90°-100°	336.7	4.7
100°-110°	243.8	3.4
110°-120°	166.4	2.3
120°-130°	108.1	1.5
130°-140°	64.4	0.9
140°-150°	16.4	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6231.3	86.9
0°-180°	7167.8	100.0

Coefficient of Utilization



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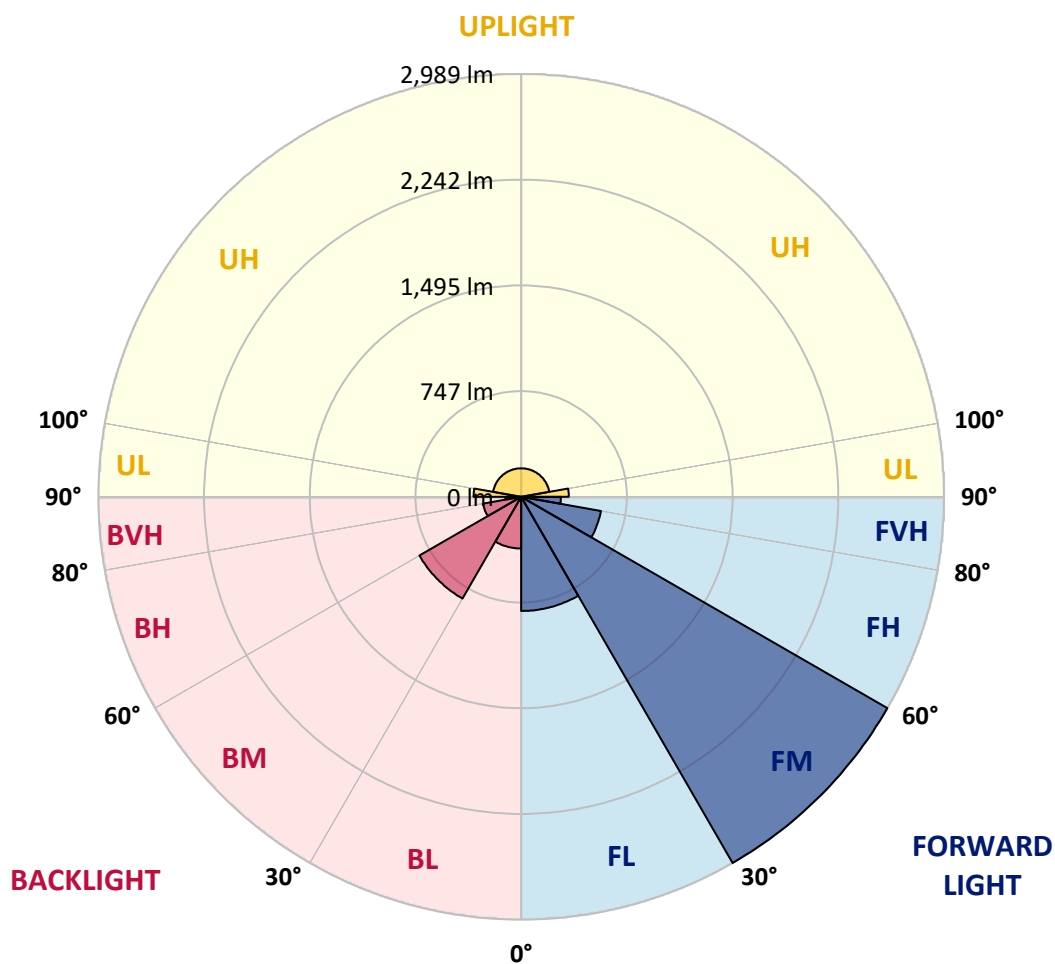
CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.2	11.3			
FM	(30°-60°)	2989.5	41.7			
FH	(60°-80°)	572.4	8.0			G0/660
FVH	(80°-90°)	281.2	3.9			G3/500
BL	(0°-30°)	365.8	5.1	B1/500		
BM	(30°-60°)	830.5	11.6	B1/1000		
BH	(60°-80°)	273.5	3.8	B1/500		G1/500
BVH	(80°-90°)	111.4	1.6			G2/225
UL	(90°-100°)	336.7	4.7		U3/500	
UH	(100°-180°)	201.6	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°	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3
2.5°	909.5	911.6	907.5	904.4	902.3	896.2	891.1	883.9	873.8	872.8	868.7
5°	992.2	992.2	992.2	985.0	976.8	963.6	952.4	936.0	916.7	915.6	900.3
7.5°	1125.9	1125.9	1119.7	1109.6	1091.2	1070.7	1068.7	1066.6	1040.1	1037.1	1009.6
10°	1269.8	1265.7	1268.8	1276.9	1286.2	1313.7	1331.1	1333.1	1304.5	1297.4	1257.5
12.5°	1325.9	1330.0	1365.7	1431.1	1541.3	1651.6	1708.7	1661.8	1566.9	1554.6	1460.7
15°	1411.7	1416.8	1476.0	1585.2	1769.0	1928.2	1879.2	1761.8	1611.8	1600.5	1455.6
17.5°	1641.3	1664.9	1722.0	1895.5	2082.3	2018.0	1852.7	1701.6	1565.8	1552.5	1431.1
20°	1802.6	1815.9	1926.1	2092.5	2224.2	2126.2	2012.9	1860.8	1678.0	1678.0	1583.1
22.5°	1936.3	1932.3	2022.1	2273.2	2349.7	2286.5	2154.7	1999.7	1805.7	1796.5	1673.0
25°	2146.7	2159.9	2315.0	2592.7	2522.3	2361.0	2187.5	2045.6	1917.9	1906.8	1783.2
27.5°	2269.1	2303.8	2482.4	2723.3	2678.4	2461.0	2308.9	2287.5	2296.6	2287.5	2152.7
30°	2299.7	2315.0	2535.5	2774.3	2743.8	2582.4	2582.4	2618.2	2571.3	2558.0	2377.3
32.5°	2376.3	2413.0	2624.3	2810.1	2735.6	2705.0	2721.3	2714.2	2693.7	2675.3	2465.1
35°	2500.8	2532.4	2730.5	2870.3	2734.6	2745.8	2892.8	2977.5	2904.1	2887.7	2574.4
37.5°	2828.5	2859.0	3037.8	3029.6	2807.1	2828.5	3094.9	3250.0	3236.8	3234.8	2924.4
40°	2763.2	2864.2	3080.6	3114.3	2915.2	2938.7	3257.2	3594.0	3749.2	3745.1	3360.3
41°	2632.5	2660.1	2848.9	3039.8	2932.6	2994.9	3341.9	3732.8	3949.2	3934.0	3452.2
42.5°	2679.4	2728.4	2840.7	2904.1	2912.1	3036.7	3408.3	3750.2	3739.0	3731.8	3337.8
45°	3079.6	3100.0	3146.9	3025.5	2820.3	2975.5	3371.5	3689.0	3687.9	3655.3	3477.6
47.5°	2886.7	2944.9	3144.9	3036.7	2811.2	2809.1	3069.4	3499.1	3584.8	3537.9	3095.9
50°	2730.5	2772.3	2888.7	2773.3	2674.3	2672.3	2917.3	3240.8	3142.8	3129.6	2522.3
52.5°	2422.2	2463.1	2545.7	2517.2	2461.0	2454.9	2641.7	2980.6	3011.2	3000.9	2545.7
55°	1841.4	1870.0	2181.3	2189.5	2147.7	2168.0	2319.1	2456.9	2113.9	2058.8	1431.1
57.5°	1082.0	1155.5	1457.6	1646.4	1733.2	1749.6	1697.5	1453.5	1072.8	1034.0	660.4
60°	533.9	571.6	781.8	981.9	1206.5	1214.7	1049.3	928.8	823.8	800.3	577.8
62.5°	380.7	403.1	541.0	647.1	772.7	793.1	734.9	784.9	762.5	748.2	562.4
65°	345.0	364.4	479.8	535.9	588.0	619.6	633.9	717.6	734.9	725.8	558.3
67.5°	315.4	334.8	437.9	480.8	519.6	570.6	601.2	683.9	750.2	744.1	592.0
70°	278.7	301.2	395.1	447.1	495.1	553.2	595.1	681.9	729.9	721.7	573.7
72.5°	244.0	264.3	340.9	402.1	472.6	539.0	601.2	664.5	717.6	710.4	580.8
75°	212.4	232.7	299.1	362.3	443.0	543.1	605.3	659.4	693.0	682.9	570.6
77.5°	190.9	211.3	268.4	330.7	420.5	549.1	661.4	681.9	680.9	670.6	558.3
80°	173.5	194.0	248.1	308.2	400.2	562.4	707.4	727.8	709.4	696.1	561.4
82.5°	168.4	187.8	237.8	304.2	404.2	570.6	720.7	771.7	719.6	703.3	558.3
85°	186.8	199.1	251.1	325.6	430.8	584.9	715.6	796.2	795.1	777.9	609.4
87.5°	222.5	232.7	283.8	359.3	459.3	593.0	778.9	811.5	768.6	760.5	615.5
90°	275.6	282.7	335.8	405.2	489.0	589.0	642.0	683.9	712.5	706.3	583.9
92.5°	327.7	336.9	384.8	435.9	473.6	506.3	558.3	655.3	659.4	654.3	561.4
95°	388.9	395.1	422.6	448.2	456.2	467.5	519.6	562.4	609.4	603.2	541.0
97.5°	422.6	425.6	437.9	434.9	415.4	417.5	475.7	521.6	550.1	543.1	473.6
100°	414.4	417.5	419.5	401.2	374.6	382.8	430.8	485.9	508.3	505.2	438.9
102.5°	387.9	393.0	394.0	375.6	351.2	353.2	400.2	442.0	465.4	461.4	409.3
105°	380.7	382.8	373.6	349.1	320.5	324.6	369.5	414.4	442.0	440.0	386.9
107.5°	343.0	345.0	331.7	308.2	298.1	309.2	350.2	378.7	397.1	397.1	345.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	287.9	287.9	284.8	279.7	281.7	298.1	331.7	350.2	365.4	364.4	315.4
112.5°	278.7	276.6	273.5	269.4	263.3	276.6	299.1	321.5	324.6	323.6	281.7
115°	274.6	271.5	261.3	250.1	243.0	253.2	270.5	290.9	299.1	298.1	268.4
117.5°	243.0	243.0	234.8	226.6	223.5	236.8	258.3	271.5	272.5	274.6	246.0
120°	217.4	217.4	212.4	208.3	210.3	216.4	239.9	251.1	261.3	260.2	235.8
122.5°	198.0	199.1	195.0	186.8	194.0	200.1	213.3	224.5	235.8	234.8	217.4
125°	178.6	177.6	173.5	164.4	180.7	188.8	189.9	188.8	200.1	200.1	184.7
127.5°	158.3	157.2	153.1	148.0	169.4	180.7	178.6	162.3	169.4	168.4	161.3
130°	156.2	155.2	148.0	141.9	152.1	171.4	162.3	151.1	157.2	158.3	151.1
132.5°	155.2	154.2	147.0	136.8	133.7	154.2	137.8	139.8	147.0	147.0	140.9
135°	145.0	143.9	137.8	123.5	109.3	127.6	109.3	120.4	129.6	129.6	124.5
137.5°	127.6	126.5	120.4	108.2	87.8	90.8	82.7	101.1	111.3	112.3	108.2
140°	101.1	102.1	96.0	83.7	63.3	48.0	54.1	78.6	88.8	88.8	87.8
142.5°	75.5	75.5	69.5	57.2	36.7	17.4	30.6	48.0	60.3	61.3	63.3
145°	53.1	53.1	47.0	36.7	18.4	3.1	14.3	28.5	37.7	37.7	40.8
147.5°	34.7	34.7	29.6	20.5	5.1	1.0	4.1	14.3	22.5	22.5	24.4
150°	21.5	21.5	16.4	6.1	1.0	0.0	1.0	3.1	10.2	10.2	13.3
152.5°	7.2	6.1	3.1	2.0	1.0	0.0	0.0	1.0	1.0	1.0	3.1
155°	2.0	2.0	2.0	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°	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3	850.3
2.5°	863.6	861.5	854.4	845.2	833.9	819.7	810.5	806.4	801.3	797.2	799.2
5°	892.1	885.0	868.7	839.0	811.5	791.0	774.8	760.5	753.3	747.2	747.2
7.5°	996.3	984.0	938.0	888.0	825.8	769.7	729.9	709.4	685.9	679.9	678.8
10°	1222.8	1207.5	1110.5	990.1	872.8	762.5	662.5	608.3	582.9	569.6	572.6
12.5°	1410.6	1376.0	1265.7	1128.9	966.7	789.0	650.2	553.2	510.4	494.1	487.9
15°	1395.3	1337.2	1217.7	1088.1	961.6	831.9	693.0	583.9	495.1	465.4	459.3
17.5°	1361.6	1300.4	1142.2	975.8	827.8	748.2	670.6	591.0	523.6	478.7	470.6
20°	1533.2	1463.7	1257.5	1092.2	883.9	682.9	594.0	549.1	506.3	483.9	478.7
22.5°	1606.6	1536.2	1346.4	1137.1	930.9	757.4	612.4	529.8	496.1	492.0	485.9
25°	1716.9	1628.1	1369.8	1106.5	907.5	765.6	613.5	531.8	481.8	481.8	478.7
27.5°	2073.1	1943.5	1599.5	1229.0	942.1	735.9	598.1	508.3	448.2	424.6	419.5
30°	2232.4	2108.8	1687.3	1260.6	957.5	743.1	569.6	466.5	426.7	409.3	407.2
32.5°	2347.7	2186.5	1650.5	1184.1	879.8	694.1	545.0	451.1	411.3	396.1	392.0
35°	2404.9	2192.6	1699.5	1156.5	832.9	637.0	516.5	433.8	409.3	397.1	397.1
37.5°	2683.5	2420.2	1724.1	1149.4	797.2	581.9	491.0	434.9	382.8	365.4	366.4
40°	3068.3	2693.7	1815.9	1096.3	727.8	562.4	474.6	415.4	367.4	356.2	352.2
41°	3111.2	2733.5	1907.8	1095.3	695.1	548.1	473.6	413.4	361.3	359.3	358.2
42.5°	2996.9	2606.0	1701.6	995.2	652.2	524.7	471.6	411.3	355.2	360.3	359.3
45°	3127.6	2739.7	1655.6	911.6	577.8	485.9	447.1	400.2	351.2	342.0	343.0
47.5°	2717.3	2322.2	1425.0	793.1	511.4	444.1	413.4	374.6	340.9	335.8	335.8
50°	2164.0	1821.0	1120.7	697.1	450.1	409.3	380.7	355.2	320.5	307.2	311.3
52.5°	2204.8	1844.5	1136.1	649.2	409.3	373.6	355.2	323.6	282.7	258.3	262.3
55°	1212.6	1051.4	664.5	498.1	379.7	347.1	325.6	293.0	248.1	220.4	223.5
57.5°	550.1	457.3	353.2	343.0	328.7	319.5	296.0	266.4	223.5	192.9	192.9
60°	492.0	403.1	315.4	286.8	294.0	295.0	270.5	241.9	200.1	164.4	165.4
62.5°	480.8	393.0	306.3	273.5	279.7	279.7	256.2	227.6	189.9	153.1	153.1
65°	478.7	388.9	307.2	269.4	273.5	274.6	251.1	227.6	202.1	175.5	177.6
67.5°	507.3	411.3	317.4	266.4	270.5	270.5	251.1	233.7	218.4	202.1	204.2
70°	492.0	404.2	315.4	266.4	264.3	264.3	250.1	234.8	226.6	212.4	213.3
72.5°	498.1	416.4	321.5	264.3	256.2	254.2	245.0	235.8	228.6	221.5	222.5
75°	489.0	412.4	311.3	254.2	244.0	239.9	233.7	231.7	232.7	229.7	227.6
77.5°	474.6	405.2	304.2	244.0	232.7	223.5	219.4	220.4	224.5	221.5	218.4
80°	472.6	406.2	301.2	237.8	218.4	203.2	198.0	200.1	201.1	195.0	188.8
82.5°	466.5	398.1	286.8	221.5	197.0	177.6	173.5	176.6	177.6	171.4	165.4
85°	502.2	419.5	282.7	206.2	178.6	158.3	151.1	152.1	145.0	135.7	129.6
87.5°	516.5	423.6	266.4	182.7	160.3	142.9	133.7	127.6	116.4	101.1	97.0
90°	491.0	402.1	239.9	157.2	140.9	127.6	116.4	108.2	93.9	78.6	73.4
92.5°	475.7	385.9	220.4	140.9	123.5	112.3	102.1	89.8	75.5	58.2	55.1
95°	466.5	379.7	208.3	125.5	110.3	99.0	88.8	77.5	63.3	50.0	48.0
97.5°	406.2	328.7	183.7	112.3	97.0	86.7	77.5	66.4	53.1	42.9	40.8
100°	377.7	306.3	170.4	101.1	85.7	76.5	68.4	59.2	48.0	40.8	39.8
102.5°	353.2	284.8	155.2	90.8	76.5	67.4	60.3	52.1	43.9	37.7	38.8
105°	334.8	271.5	149.0	83.7	68.4	61.3	53.1	47.0	38.8	34.7	34.7
107.5°	297.1	240.9	131.7	75.5	62.3	55.1	49.0	42.9	36.7	33.7	34.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	274.6	223.5	125.5	72.4	59.2	51.0	44.9	38.8	32.6	32.6	32.6
112.5°	244.0	201.1	116.4	68.4	55.1	48.0	41.8	34.7	28.5	29.6	30.6
115°	233.7	194.0	112.3	65.4	53.1	45.9	38.8	32.6	25.5	27.5	28.5
117.5°	215.3	179.6	109.3	65.4	51.0	42.9	36.7	30.6	24.4	26.5	26.5
120°	209.3	176.6	109.3	64.3	49.0	40.8	34.7	26.5	22.5	24.4	24.4
122.5°	195.0	165.4	104.1	63.3	47.0	38.8	33.7	22.5	19.4	21.5	21.5
125°	167.4	143.9	93.9	59.2	44.9	38.8	32.6	18.4	18.4	20.5	20.5
127.5°	146.0	126.5	85.7	58.2	45.9	40.8	30.6	15.3	16.4	18.4	18.4
130°	138.8	123.5	88.8	63.3	50.0	42.9	22.5	14.3	15.3	17.4	18.4
132.5°	131.7	119.4	90.8	68.4	53.1	41.8	18.4	13.3	14.3	16.4	16.4
135°	117.4	108.2	84.7	65.4	50.0	33.7	13.3	11.3	13.3	15.3	15.3
137.5°	103.1	96.0	77.5	60.3	45.9	26.5	9.2	10.2	11.3	12.3	12.3
140°	84.7	78.6	64.3	49.0	33.7	14.3	6.1	8.2	9.2	10.2	10.2
142.5°	61.3	57.2	45.9	32.6	19.4	5.1	4.1	6.1	7.2	8.2	8.2
145°	40.8	37.7	29.6	20.5	7.2	3.1	2.0	4.1	6.1	6.1	7.2
147.5°	24.4	23.5	17.4	9.2	3.1	2.0	2.0	3.1	4.1	5.1	5.1
150°	12.3	12.3	8.2	3.1	2.0	1.0	1.0	1.0	2.0	3.1	3.1
152.5°	3.1	2.0	2.0	2.0	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)