

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: P179298

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179298
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34323)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL4-HSS-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.3 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
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



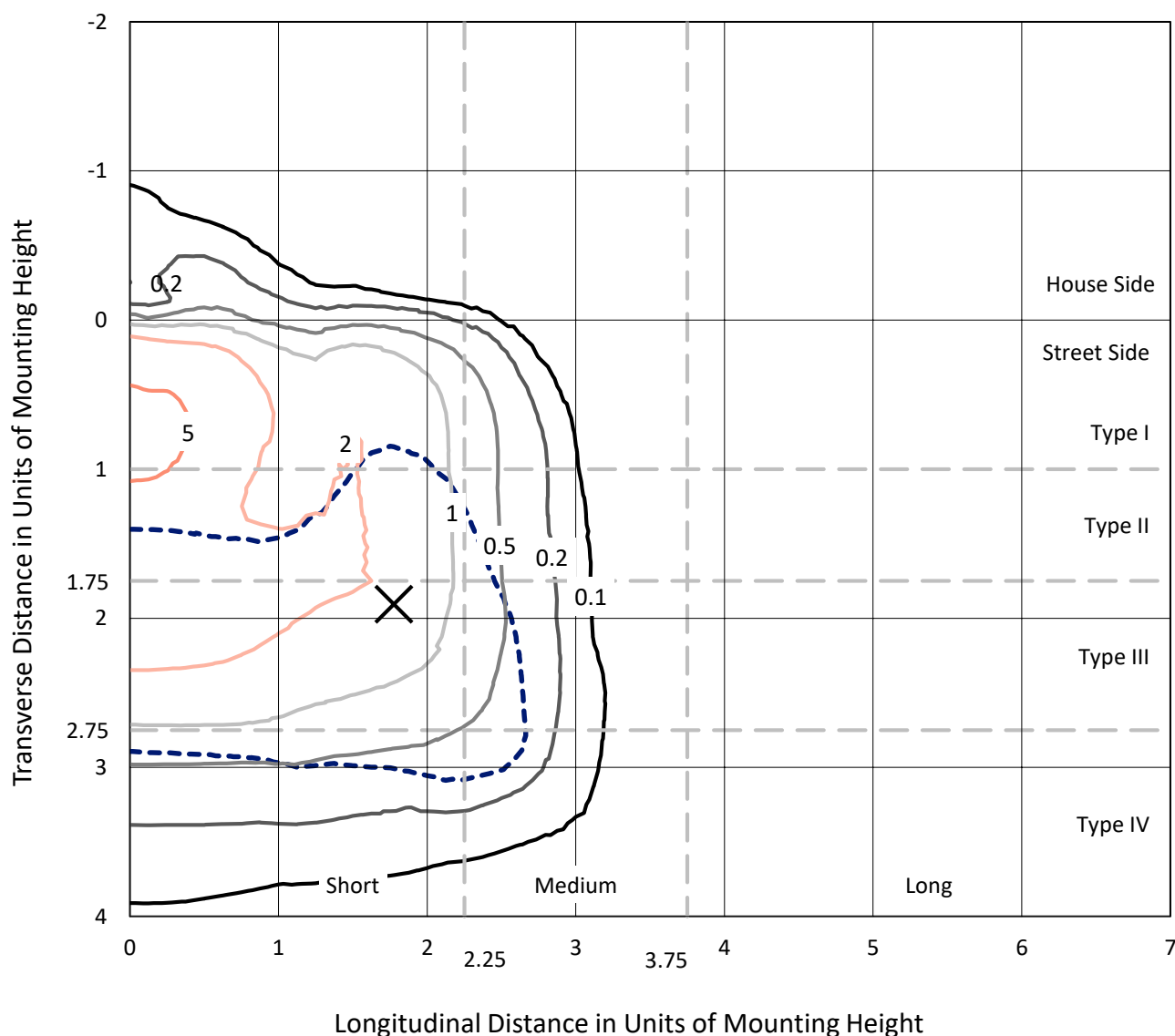
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

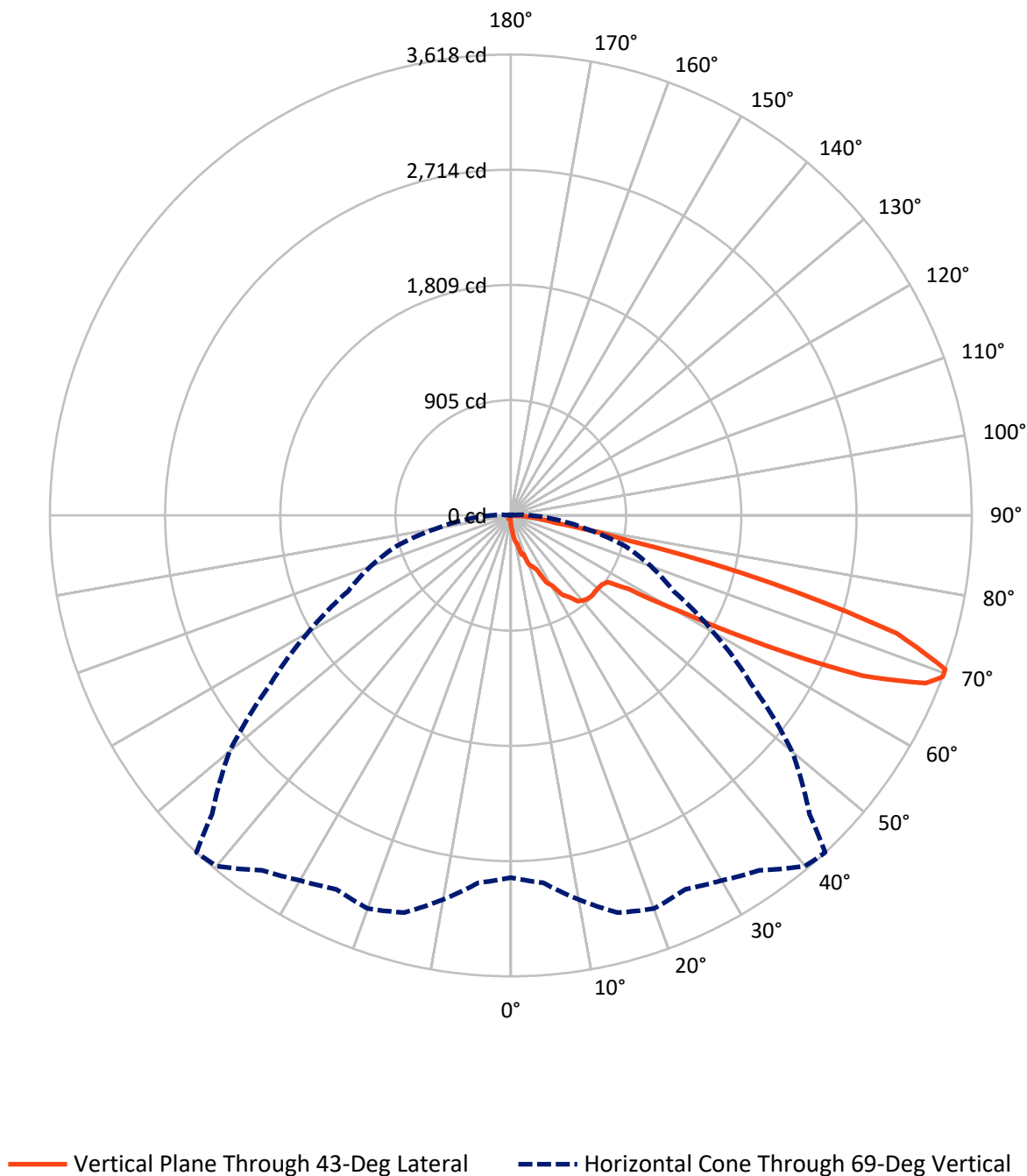


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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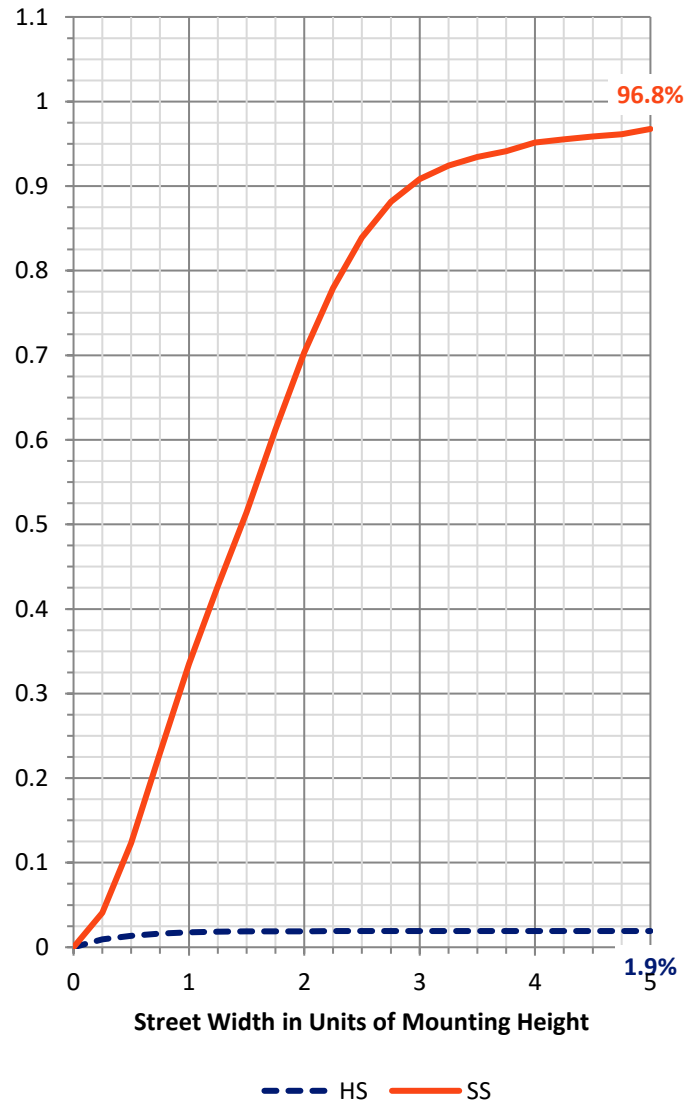
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	58.5	0.0	58.5
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2958.8	0.0	2958.8
	% Fixture	98.1	0.0	98.1
Total	Lumens	3017.3	0.0	3017.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.3
10°-20°	41.9	1.4
20°-30°	115.6	3.8
30°-40°	242.3	8.0
40°-50°	349.9	11.6
50°-60°	542.8	18.0
60°-70°	1146.1	38.0
70°-80°	509.8	16.9
80°-90°	60.5	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3017.3	100.0
0°-180°	3017.3	100.0

Coefficient of Utilization



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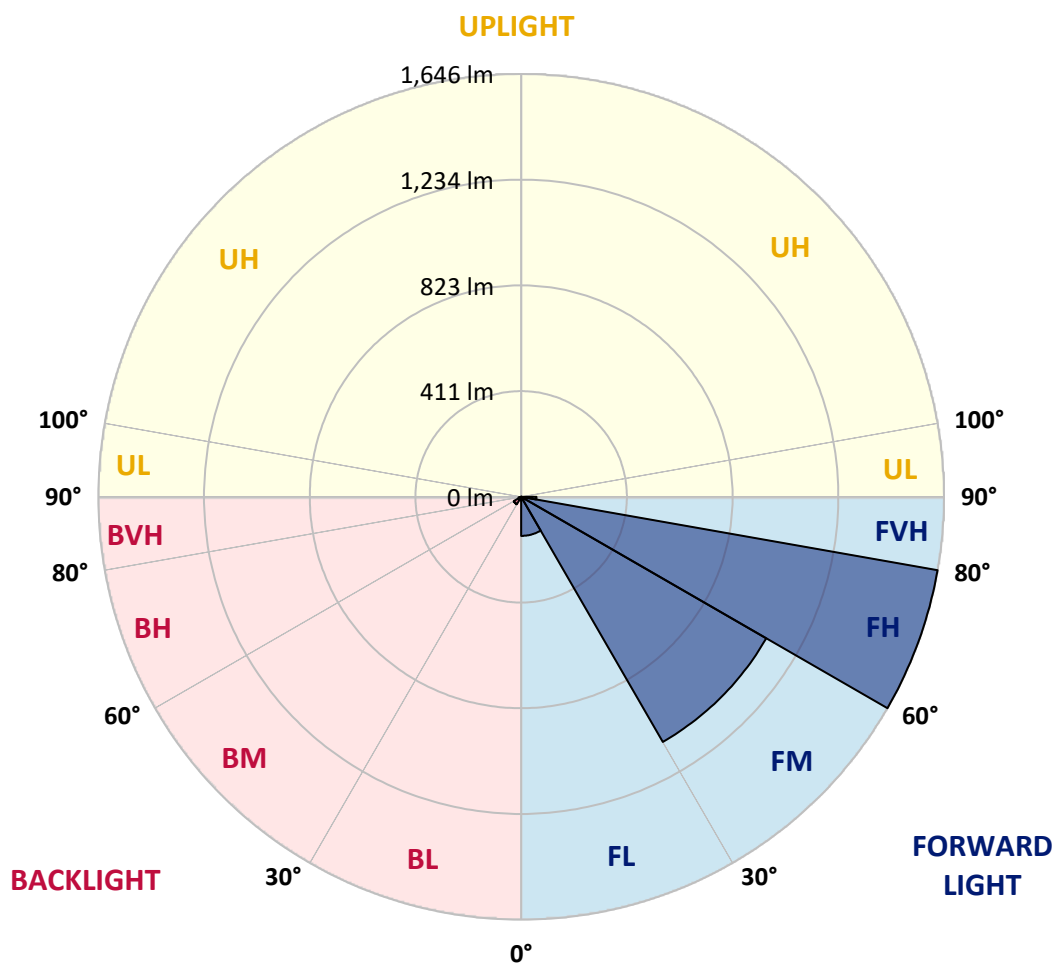
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.1	5.0			
FM	(30°-60°)	1101.6	36.5			
FH	(60°-80°)	1645.6	54.5			G1/1800
FVH	(80°-90°)	59.5	2.0			G1/100
BL	(0°-30°)	13.9	0.5	B0/110		
BM	(30°-60°)	33.4	1.1	B0/220		
BH	(60°-80°)	10.3	0.3	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	43°	45°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	111.4	111.4	110.6	109.7	107.2	106.3	103.8	102.1	103.0	102.1	101.3
5°	142.6	140.1	136.7	131.7	130.0	127.4	125.8	121.5	119.8	119.0	117.3
7.5°	236.3	230.4	227.0	226.2	223.7	221.1	214.4	208.5	202.6	180.6	149.4
10°	254.0	254.9	255.7	250.7	252.4	243.9	235.5	230.4	227.0	214.4	206.8
12.5°	334.2	329.2	328.3	331.7	324.1	319.9	310.6	295.4	244.8	227.9	233.8
15°	387.4	394.1	369.7	340.1	333.4	326.6	307.2	310.6	333.4	318.2	301.3
17.5°	416.9	418.6	414.4	411.0	399.2	391.6	405.1	343.5	336.8	319.0	307.2
20°	522.4	524.1	516.5	481.1	437.2	415.2	427.9	404.3	395.8	413.6	351.9
22.5°	571.4	573.1	566.3	556.2	536.8	541.0	511.5	434.7	440.6	437.2	395.0
25°	701.4	705.6	698.0	681.1	665.1	589.1	557.0	557.0	508.1	469.3	446.5
27.5°	838.1	822.0	771.4	749.5	737.6	698.8	696.3	609.4	582.4	595.0	518.2
30°	930.9	933.5	925.0	888.7	865.9	855.8	761.3	714.0	650.7	639.7	564.6
32.5°	1113.2	1114.1	1096.3	1079.5	974.0	929.2	864.2	803.5	709.8	741.9	645.7
35°	1287.9	1292.2	1244.9	1150.4	1119.1	1034.7	953.7	850.7	788.3	786.6	686.2
37.5°	1390.9	1390.9	1355.4	1287.1	1254.2	1137.7	1007.7	930.9	818.7	854.1	741.0
40°	1521.7	1518.3	1488.0	1407.8	1312.4	1176.5	1072.7	967.2	871.8	876.9	777.3
42.5°	1574.0	1569.8	1548.7	1467.7	1340.3	1224.6	1088.7	977.3	884.5	891.3	794.2
45°	1600.2	1596.0	1573.2	1484.6	1351.2	1230.5	1083.7	971.4	887.0	895.5	803.5
47.5°	1594.3	1588.4	1569.8	1495.6	1384.1	1226.3	1050.8	958.8	882.8	891.3	806.9
50°	1562.2	1560.5	1543.7	1477.0	1380.8	1209.4	1032.2	946.1	882.0	892.1	813.6
52.5°	1543.7	1545.3	1529.3	1482.9	1362.2	1203.5	1042.3	950.3	887.0	898.9	823.7
55°	1786.7	1755.5	1693.9	1596.8	1424.7	1254.2	1090.4	980.7	912.4	924.2	847.4
57.5°	2592.7	2564.0	2436.6	2201.1	1867.8	1531.0	1276.1	1121.7	1056.7	1088.7	1024.6
60°	3066.2	3033.3	3001.2	2894.9	2616.4	2315.9	1858.5	1607.0	1486.3	1536.9	1473.6
62.5°	3262.9	3260.3	3245.1	3225.7	3032.5	2894.9	2553.9	2310.8	2219.7	2256.8	2122.6
65°	3386.1	3402.1	3405.5	3415.6	3289.9	3185.2	2986.0	2923.6	3044.3	3035.8	2785.2
67.5°	3299.2	3308.4	3364.1	3451.1	3388.6	3291.6	3263.7	3315.2	3470.5	3514.4	3203.8
69°	2843.4	2894.0	3061.2	3227.4	3284.8	3238.4	3308.4	3401.3	3592.9	3618.2	3316.0
70°	2267.0	2358.1	2545.5	2893.2	3030.8	3036.7	3240.9	3386.9	3603.0	3617.3	3322.8
72.5°	1018.7	1035.6	1138.5	1323.4	1848.3	2027.3	2527.8	2982.7	3203.8	3170.0	2886.4
75°	687.9	695.4	689.5	698.0	798.4	960.5	1225.5	1898.1	2164.0	2094.8	1830.6
77.5°	569.7	568.8	557.9	550.3	553.7	577.3	575.6	658.3	912.4	937.7	823.7
80°	510.6	505.6	496.3	481.1	465.0	442.3	418.6	373.0	341.8	353.6	312.3
82.5°	276.8	267.5	288.6	308.9	355.3	374.7	344.3	287.8	258.3	242.2	216.1
85°	65.0	62.5	73.4	102.1	174.7	178.1	173.0	142.6	124.1	115.6	104.7
87.5°	16.9	16.9	17.7	17.7	86.1	98.7	80.2	36.3	27.9	24.5	21.1
90°	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	99.6	98.7	97.1	97.1	95.4	91.2	79.3	68.4	61.6	59.1	56.5
5°	113.1	109.7	105.5	101.3	97.1	94.5	92.8	75.1	58.2	54.0	49.8
7.5°	129.1	121.5	114.8	108.0	102.1	92.8	87.8	83.6	56.5	49.8	45.6
10°	195.0	186.5	130.8	130.0	115.6	105.5	101.3	97.1	67.5	57.4	49.8
12.5°	232.1	220.3	198.3	162.9	120.7	113.9	99.6	89.5	64.1	50.6	46.4
15°	246.4	232.1	209.3	199.2	155.3	135.0	113.9	103.0	70.9	60.8	49.8
17.5°	304.7	297.1	236.3	214.4	186.5	134.2	117.3	91.2	70.9	54.0	47.3
20°	330.0	310.6	266.7	254.0	226.2	184.0	140.1	120.7	86.9	70.9	54.0
22.5°	370.5	365.4	335.9	268.4	237.2	200.0	145.2	126.6	94.5	68.4	51.5
25°	443.9	389.9	351.1	341.0	294.6	245.6	184.0	139.3	102.1	71.7	56.5
27.5°	480.2	451.5	407.6	368.8	303.0	254.0	205.9	151.9	109.7	77.6	58.2
30°	579.8	481.9	449.0	409.3	338.4	269.2	209.3	158.7	108.9	76.0	59.1
32.5°	619.5	553.7	494.6	430.4	380.6	302.1	232.1	161.2	113.1	78.5	65.0
35°	674.3	592.5	548.6	485.3	410.2	328.3	238.0	166.3	107.2	76.0	64.1
37.5°	720.8	633.0	561.3	503.0	422.0	335.9	245.6	171.3	110.6	74.3	61.6
40°	745.2	652.4	570.5	515.7	421.2	340.1	259.9	165.4	107.2	72.6	57.4
42.5°	765.5	673.5	585.7	529.2	438.0	358.7	264.2	173.9	106.3	72.6	53.2
45°	779.0	692.9	619.5	545.2	460.0	379.0	270.1	175.6	108.0	72.6	49.8
47.5°	786.6	716.5	653.2	568.8	498.8	418.6	304.7	191.6	110.6	70.1	46.4
50°	796.7	741.9	681.1	599.2	540.2	441.4	330.8	200.0	113.9	65.8	43.9
52.5°	804.3	755.4	699.7	637.2	599.2	512.3	395.8	239.7	123.2	63.3	41.4
55°	840.6	815.3	811.9	829.6	856.7	839.8	680.3	411.9	189.9	74.3	47.3
57.5°	1081.2	1126.7	1209.4	1280.3	1260.1	1219.6	978.2	569.7	257.4	81.0	54.9
60°	1574.0	1619.6	1652.5	1618.8	1505.7	1408.6	1103.1	645.7	287.0	67.5	43.0
62.5°	2106.6	2023.0	1921.8	1769.8	1642.4	1456.7	1161.3	688.7	294.6	57.4	32.1
65°	2569.1	2305.8	2076.2	1803.6	1646.6	1450.0	1147.0	671.0	281.9	47.3	26.2
67.5°	2849.3	2400.3	2042.5	1670.3	1441.5	1214.5	886.2	515.7	216.1	38.0	21.9
69°	2881.4	2300.7	1838.2	1410.3	1172.3	926.7	593.3	341.0	151.1	32.1	19.4
70°	2822.3	2163.1	1607.0	1180.7	935.1	687.9	432.1	250.7	108.9	28.7	18.6
72.5°	2279.6	1498.9	921.6	580.7	410.2	285.3	174.7	102.1	46.4	21.1	16.0
75°	1250.0	644.0	364.6	241.4	187.4	143.5	98.7	54.9	27.0	17.7	13.5
77.5°	460.0	290.3	208.5	165.4	108.9	62.5	42.2	31.2	21.9	14.3	10.1
80°	276.0	201.7	146.9	78.5	52.3	39.7	30.4	24.5	17.7	11.0	6.8
82.5°	176.4	119.8	63.3	46.4	37.1	29.5	23.6	20.3	12.7	7.6	3.4
85°	81.0	48.1	38.0	32.9	28.7	26.2	24.5	20.3	10.1	4.2	2.5
87.5°	18.6	17.7	21.1	19.4	18.6	17.7	16.0	13.5	5.1	3.4	2.5
90°	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	54.9	53.2	51.5	50.6	49.0	49.0	47.3	47.3	46.4	45.6	46.4
5°	46.4	44.7	43.0	41.4	39.7	38.0	38.8	39.7	39.7	40.5	35.4
7.5°	43.0	40.5	37.1	35.4	34.6	16.9	13.5	12.7	11.8	12.7	12.7
10°	43.9	39.7	37.1	15.2	11.0	11.0	11.0	11.0	11.8	14.3	17.7
12.5°	41.4	36.3	19.4	17.7	16.0	15.2	17.7	16.9	16.9	16.9	16.9
15°	46.4	26.2	20.3	17.7	19.4	21.1	21.1	20.3	16.9	16.9	20.3
17.5°	29.5	24.5	22.8	27.0	26.2	21.9	20.3	22.8	23.6	21.9	19.4
20°	38.8	34.6	31.2	27.0	25.3	25.3	27.9	23.6	21.9	22.8	23.6
22.5°	39.7	37.1	38.8	36.3	33.8	27.0	26.2	25.3	26.2	24.5	23.6
25°	49.8	50.6	45.6	37.1	35.4	32.9	30.4	25.3	26.2	23.6	25.3
27.5°	53.2	49.8	45.6	43.9	40.5	32.9	32.9	27.9	26.2	26.2	22.8
30°	55.7	50.6	47.3	43.0	38.8	36.3	32.1	28.7	26.2	25.3	24.5
32.5°	59.1	52.3	45.6	42.2	38.8	33.8	32.9	28.7	26.2	23.6	23.6
35°	54.9	49.0	44.7	41.4	35.4	32.1	30.4	27.9	24.5	23.6	21.9
37.5°	49.8	44.7	41.4	37.1	33.8	29.5	28.7	25.3	23.6	21.9	21.1
40°	45.6	40.5	37.1	33.8	30.4	27.0	25.3	22.8	20.3	19.4	19.4
42.5°	43.0	37.1	32.9	30.4	27.0	24.5	22.8	20.3	18.6	17.7	17.7
45°	39.7	33.8	29.5	26.2	23.6	21.9	20.3	17.7	16.0	16.0	16.0
47.5°	38.0	31.2	27.0	23.6	21.1	19.4	17.7	15.2	13.5	14.3	14.3
50°	35.4	28.7	23.6	21.9	19.4	17.7	16.0	13.5	12.7	12.7	12.7
52.5°	32.9	25.3	21.1	19.4	17.7	16.0	13.5	11.0	10.1	11.0	10.1
55°	32.9	22.8	18.6	16.9	15.2	13.5	11.0	9.3	8.4	7.6	6.8
57.5°	38.8	22.8	16.0	15.2	13.5	11.0	8.4	6.8	5.9	4.2	3.4
60°	33.8	22.8	14.3	13.5	11.8	9.3	6.8	5.1	3.4	2.5	1.7
62.5°	23.6	17.7	12.7	11.8	9.3	6.8	4.2	2.5	1.7	0.8	0.8
65°	20.3	14.3	11.8	10.1	7.6	5.1	2.5	1.7	0.8	0.8	0.8
67.5°	17.7	13.5	10.1	8.4	6.8	3.4	1.7	0.8	0.8	0.8	0.8
69°	16.0	12.7	10.1	7.6	5.9	2.5	1.7	0.8	0.8	0.8	0.8
70°	15.2	11.8	9.3	7.6	5.1	2.5	0.8	0.8	0.8	0.8	0.8
72.5°	12.7	9.3	7.6	6.8	4.2	1.7	0.8	0.8	0.8	0.8	0.8
75°	9.3	7.6	5.1	5.1	3.4	1.7	0.8	0.8	0.8	0.8	0.0
77.5°	6.8	5.1	3.4	3.4	2.5	1.7	0.8	0.8	0.8	0.8	0.0
80°	4.2	3.4	2.5	2.5	1.7	1.7	0.0	0.8	0.8	0.8	0.8
82.5°	2.5	2.5	2.5	1.7	1.7	1.7	0.8	1.7	0.8	0.8	0.8
85°	2.5	2.5	2.5	1.7	1.7	1.7	0.8	1.7	1.7	1.7	0.8
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	0.8	2.5	2.5	1.7	1.7
90°	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):

	160°	165°	170°	175°	180°
0°	66.7	66.7	66.7	66.7	66.7
2.5°	46.4	46.4	47.3	48.1	48.1
5°	27.0	18.6	19.4	19.4	19.4
7.5°	12.7	12.7	13.5	13.5	13.5
10°	19.4	19.4	19.4	19.4	20.3
12.5°	17.7	18.6	18.6	18.6	19.4
15°	21.1	21.9	22.8	22.8	23.6
17.5°	19.4	19.4	21.1	21.1	21.1
20°	22.8	22.8	22.8	22.8	22.8
22.5°	20.3	21.1	23.6	24.5	25.3
25°	23.6	22.8	22.8	22.8	22.8
27.5°	23.6	23.6	24.5	24.5	24.5
30°	23.6	21.9	21.9	22.8	23.6
32.5°	23.6	23.6	22.8	22.8	22.8
35°	21.9	23.6	23.6	23.6	23.6
37.5°	21.1	21.1	23.6	24.5	24.5
40°	20.3	21.1	21.9	25.3	25.3
42.5°	19.4	21.1	22.8	24.5	24.5
45°	18.6	20.3	21.1	22.8	22.8
47.5°	16.9	18.6	19.4	20.3	20.3
50°	15.2	15.2	16.0	16.0	15.2
52.5°	11.0	11.0	10.1	10.1	10.1
55°	6.8	5.9	5.9	5.9	5.1
57.5°	3.4	3.4	2.5	2.5	2.5
60°	1.7	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0	0.0
69°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	0.0	0.0	0.0	0.0
85°	0.8	0.8	0.8	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)