

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: P179388

Luminaire Tested: **UTLD-E02-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179388
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34331)
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-T4-HSS-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932.3 lumens
Efficiency: N/A
Efficacy: 56.3 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



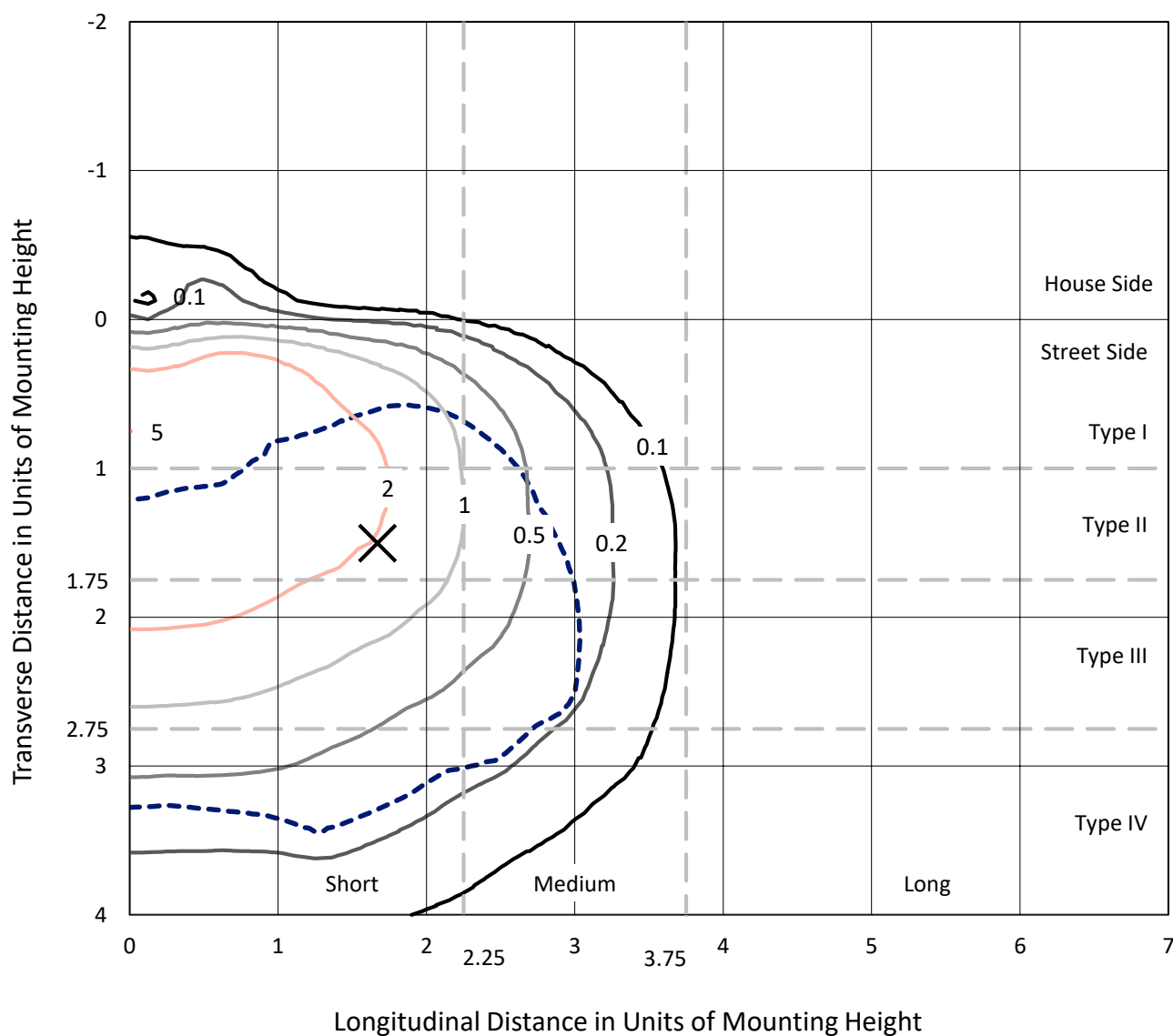
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

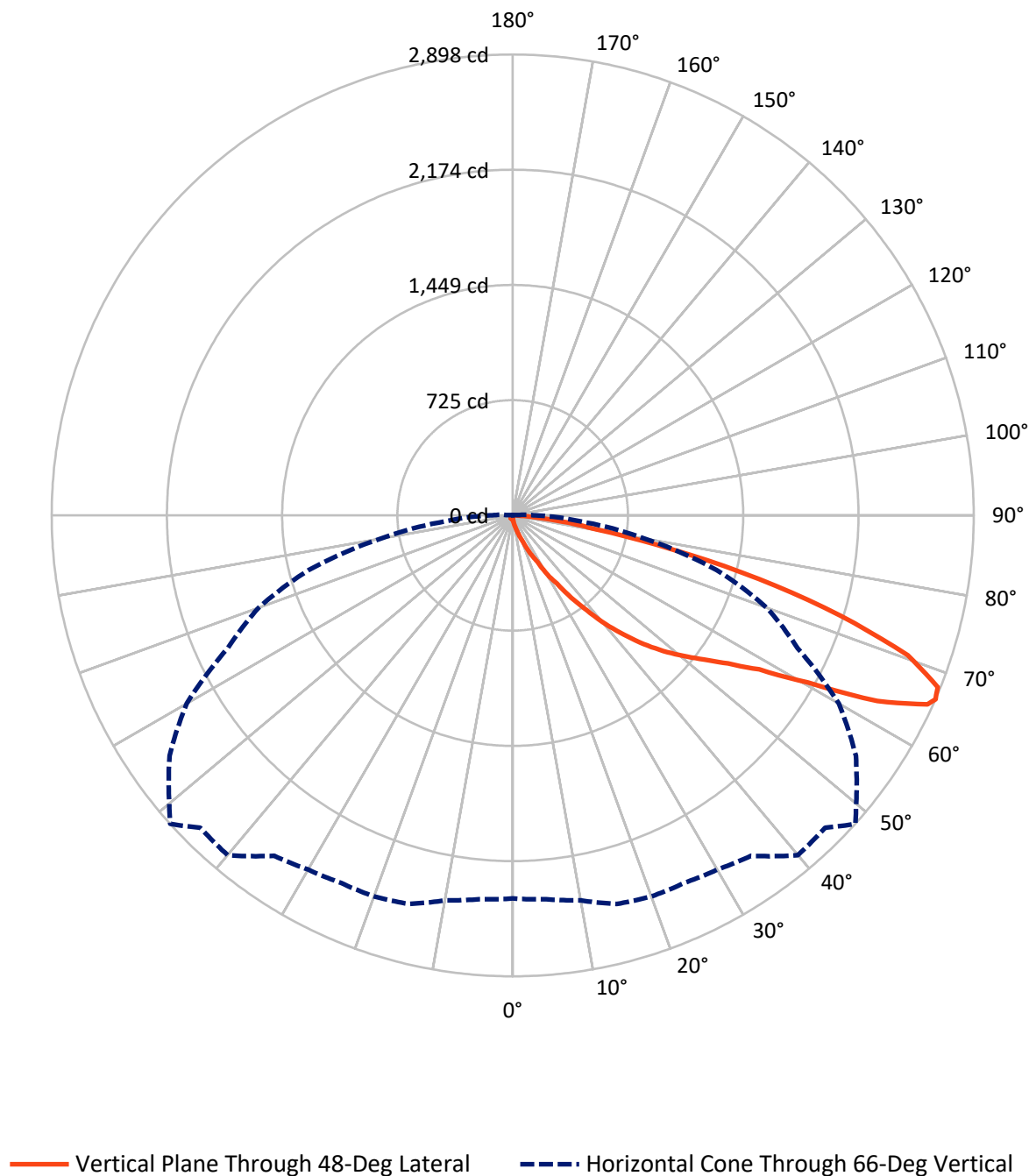


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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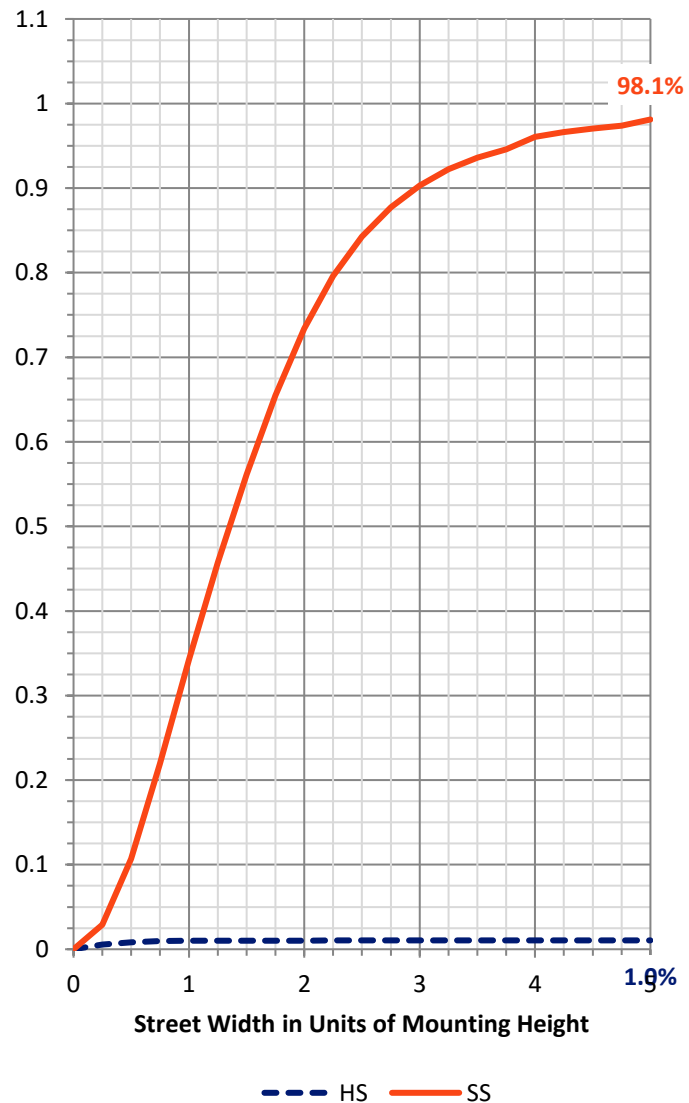
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.4	0.0	31.4
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	2900.9	0.0	2900.9
	% Fixture	98.9	0.0	98.9
Total	Lumens	2932.3	0.0	2932.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	18.2	0.6
20°-30°	69.7	2.4
30°-40°	195.1	6.7
40°-50°	378.8	12.9
50°-60°	620.7	21.2
60°-70°	1011.7	34.5
70°-80°	570.2	19.4
80°-90°	65.2	2.2
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°	2932.3	100.0
0°-180°	2932.3	100.0

Coefficient of Utilization



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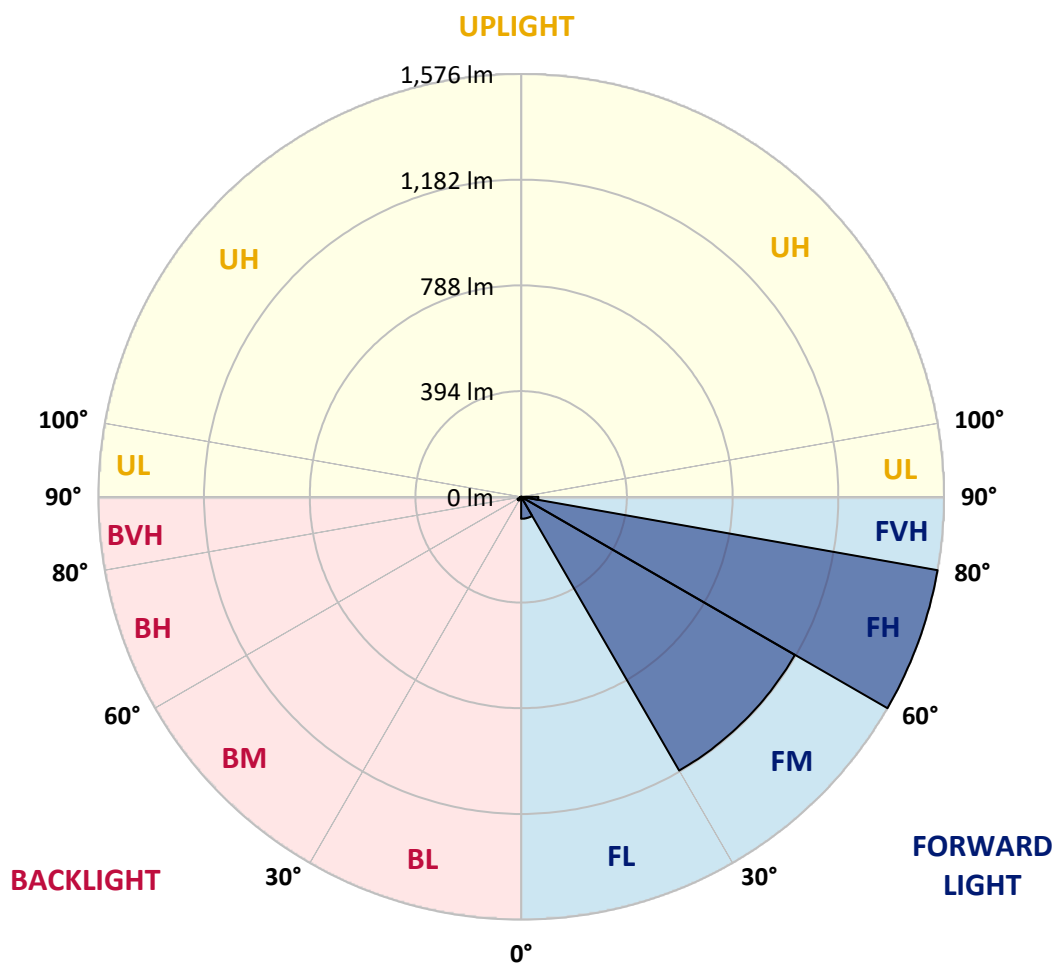
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.0	2.8			
FM	(30°-60°)	1178.4	40.2			
FH	(60°-80°)	1576.3	53.8			G1/1800
FVH	(80°-90°)	64.1	2.2			G1/100
BL	(0°-30°)	8.6	0.3	B0/110		
BM	(30°-60°)	16.2	0.6	B0/220		
BH	(60°-80°)	5.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	45°	48°
0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	29.5	29.5	29.5	29.5	28.7	27.9	27.9	27.0	27.0	27.0	27.0
5°	43.0	43.0	40.5	39.7	38.0	37.1	35.4	34.6	33.8	32.1	32.1
7.5°	68.4	67.5	67.5	66.7	65.8	64.1	61.6	59.9	57.4	43.9	40.5
10°	86.9	87.8	86.1	85.2	80.2	77.6	74.3	70.9	70.1	64.1	60.8
12.5°	119.8	120.7	119.0	118.2	114.8	112.3	106.3	102.1	85.2	78.5	77.6
15°	171.3	171.3	162.9	146.0	140.9	135.0	125.8	124.1	124.9	113.9	99.6
17.5°	200.0	200.9	198.3	194.1	189.1	183.1	177.2	157.0	146.0	136.7	132.5
20°	272.6	272.6	267.5	259.1	228.7	216.9	216.1	205.9	198.3	174.7	165.4
22.5°	314.8	319.0	313.1	307.2	297.1	300.5	286.1	243.1	243.9	222.0	213.5
25°	413.6	414.4	405.1	398.4	395.0	344.3	330.8	337.6	311.4	283.6	276.8
27.5°	514.8	520.7	465.0	452.4	452.4	441.4	446.5	398.4	391.6	357.0	330.0
30°	590.8	593.3	584.0	562.1	553.7	551.1	507.2	510.6	469.3	416.1	433.8
32.5°	728.4	732.6	714.9	706.4	646.5	623.7	596.7	597.5	546.9	538.5	510.6
35°	895.5	899.7	876.9	805.2	795.0	763.0	747.8	688.7	679.4	635.5	635.5
37.5°	1006.0	991.7	970.6	943.6	949.5	907.3	858.3	849.1	798.4	765.5	756.2
40°	1088.7	1093.0	1091.3	1077.8	1048.2	1008.6	992.5	969.7	928.4	895.5	899.7
42.5°	1160.5	1168.9	1175.7	1156.3	1132.6	1115.8	1093.0	1078.6	1044.9	1003.5	1023.8
45°	1232.2	1239.0	1253.3	1241.5	1224.6	1222.1	1167.2	1180.7	1153.7	1120.8	1154.6
47.5°	1315.8	1322.5	1333.5	1334.3	1332.7	1297.2	1251.6	1271.9	1266.0	1226.3	1273.6
50°	1409.5	1410.3	1429.7	1443.2	1417.1	1389.2	1345.3	1355.4	1364.7	1334.3	1389.2
52.5°	1510.7	1521.7	1536.1	1545.3	1509.1	1495.6	1458.4	1456.7	1476.1	1444.9	1504.0
55°	1664.4	1669.4	1676.2	1679.5	1632.3	1637.3	1583.3	1578.3	1607.0	1573.2	1643.3
57.5°	1857.6	1871.1	1885.5	1878.7	1829.8	1825.6	1752.1	1727.6	1777.4	1757.2	1826.4
60°	2151.3	2164.0	2175.0	2182.6	2155.6	2139.5	2026.4	2008.7	2092.3	2050.9	2133.6
62.5°	2458.5	2472.0	2484.7	2537.9	2510.0	2489.8	2420.6	2420.6	2522.7	2492.3	2571.6
65°	2454.3	2473.7	2502.4	2572.5	2585.1	2575.9	2573.3	2605.4	2764.1	2753.9	2865.3
66°	2408.8	2422.3	2458.5	2529.4	2549.7	2550.5	2571.6	2613.0	2788.5	2777.6	2898.3
67.5°	2302.4	2319.3	2358.1	2442.5	2463.6	2479.6	2534.5	2567.4	2764.9	2758.2	2882.2
70°	2061.9	2069.5	2105.8	2193.5	2244.2	2235.7	2318.4	2331.1	2522.7	2547.2	2634.9
72.5°	1588.4	1578.3	1688.8	1810.4	1893.1	1861.0	1920.9	1924.3	2087.2	2084.7	2154.7
75°	844.8	850.7	920.0	1082.0	1385.0	1394.3	1406.1	1405.2	1537.8	1536.9	1599.4
77.5°	534.2	548.6	574.8	623.7	775.6	886.2	929.2	911.5	969.7	990.0	1022.1
80°	216.1	225.3	256.6	336.8	518.2	561.3	574.8	548.6	559.6	532.6	532.6
82.5°	71.7	72.6	82.7	104.7	265.9	371.4	382.3	323.2	318.2	308.9	308.9
85°	38.8	38.8	40.5	54.9	103.0	200.0	219.4	147.7	145.2	123.2	113.9
87.5°	3.4	4.2	3.4	9.3	16.0	30.4	35.4	37.1	42.2	48.1	38.8
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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	27.0	27.0	27.0	27.9	27.9	27.0	26.2	23.6	22.8	21.1	19.4
5°	31.2	30.4	28.7	27.9	27.0	26.2	26.2	24.5	21.1	18.6	16.0
7.5°	39.7	35.4	32.9	31.2	28.7	26.2	25.3	25.3	20.3	16.9	15.2
10°	59.1	57.4	43.9	38.0	34.6	32.1	30.4	31.2	25.3	20.3	19.4
12.5°	76.0	71.7	64.1	50.6	39.7	36.3	32.9	29.5	25.3	20.3	17.7
15°	95.4	85.2	77.6	69.2	56.5	46.4	40.5	38.0	31.2	26.2	22.8
17.5°	128.3	124.9	96.2	84.4	72.6	52.3	45.6	37.1	32.9	25.3	22.8
20°	160.4	147.7	125.8	110.6	94.5	73.4	58.2	49.0	39.7	33.8	30.4
22.5°	203.4	191.6	168.0	131.7	112.3	93.7	66.7	58.2	45.6	38.0	33.8
25°	275.1	236.3	208.5	183.1	152.8	123.2	84.4	63.3	50.6	42.2	37.1
27.5°	330.8	308.1	273.5	233.8	178.9	142.6	106.3	72.6	56.5	46.4	39.7
30°	449.0	373.0	361.2	306.4	234.6	169.6	121.5	83.6	59.1	47.3	40.5
32.5°	521.6	496.3	437.2	377.3	308.1	227.9	152.8	92.8	63.3	48.1	43.0
35°	650.7	589.1	557.9	495.4	400.9	292.0	183.1	110.6	63.3	49.0	42.2
37.5°	784.1	719.1	659.2	595.0	484.5	347.7	221.1	124.9	67.5	46.4	39.7
40°	892.9	830.5	748.6	686.2	554.5	406.0	266.7	134.2	65.0	44.7	36.3
42.5°	1016.2	941.9	852.4	784.9	635.5	485.3	303.8	157.8	66.7	43.0	32.9
45°	1131.8	1051.6	961.3	866.8	714.0	561.3	346.9	171.3	72.6	42.2	29.5
47.5°	1239.8	1155.4	1070.2	937.7	811.1	641.4	412.7	204.2	77.6	39.7	27.0
50°	1336.9	1256.7	1162.2	1011.9	890.4	701.4	476.0	227.9	83.6	36.3	24.5
52.5°	1447.4	1364.7	1241.5	1090.4	963.8	778.2	532.6	259.9	91.2	32.9	21.9
55°	1584.2	1480.4	1361.4	1219.6	1049.9	876.9	596.7	290.3	101.3	29.5	19.4
57.5°	1753.8	1666.0	1544.5	1378.2	1179.1	974.0	674.3	329.2	110.6	27.0	17.7
60°	2062.7	1948.8	1834.0	1638.2	1371.5	1129.3	768.0	379.8	125.8	24.5	16.0
62.5°	2500.7	2376.7	2191.0	1907.4	1622.2	1276.1	860.0	430.4	142.6	21.9	15.2
65°	2779.3	2608.8	2360.6	1991.8	1714.1	1343.6	867.6	429.6	144.3	20.3	13.5
66°	2818.9	2633.3	2366.6	1976.6	1700.6	1326.8	847.4	423.7	141.8	18.6	12.7
67.5°	2814.7	2609.6	2322.7	1913.3	1633.1	1266.8	781.5	394.1	134.2	17.7	11.8
70°	2594.4	2390.2	2087.2	1694.7	1428.0	1094.7	671.8	338.4	114.8	15.2	10.1
72.5°	2154.7	1961.4	1687.1	1343.6	1151.2	865.9	514.8	265.9	90.3	12.7	8.4
75°	1591.8	1406.9	1198.5	933.5	757.9	547.8	320.7	172.2	59.1	10.1	6.8
77.5°	993.4	837.2	635.5	475.2	353.6	227.9	113.1	58.2	25.3	8.4	5.1
80°	524.1	427.1	308.1	222.8	163.7	102.1	52.3	27.0	13.5	6.8	3.4
82.5°	302.1	254.0	188.2	140.1	109.7	71.7	38.8	21.9	10.1	4.2	2.5
85°	108.9	93.7	104.7	79.3	59.9	39.7	27.9	17.7	6.8	3.4	2.5
87.5°	40.5	32.9	29.5	25.3	24.5	24.5	22.8	13.5	4.2	2.5	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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	18.6	16.9	16.9	16.0	16.0	15.2	15.2	15.2	15.2	15.2	16.0
5°	15.2	14.3	14.3	14.3	13.5	13.5	15.2	16.0	16.9	17.7	16.9
7.5°	15.2	14.3	13.5	14.3	16.0	12.7	10.1	9.3	8.4	9.3	9.3
10°	16.9	16.0	17.7	11.8	8.4	7.6	8.4	8.4	8.4	11.0	13.5
12.5°	16.9	17.7	13.5	11.8	11.8	11.0	13.5	11.8	11.8	11.8	11.8
15°	22.8	16.9	14.3	12.7	14.3	15.2	15.2	14.3	12.7	11.8	14.3
17.5°	19.4	17.7	16.9	20.3	18.6	16.0	14.3	16.0	16.9	15.2	13.5
20°	27.0	24.5	23.6	20.3	18.6	18.6	19.4	16.0	15.2	15.2	16.9
22.5°	28.7	26.2	27.0	25.3	24.5	19.4	18.6	17.7	17.7	16.0	16.0
25°	34.6	35.4	31.2	27.0	24.5	22.8	21.1	17.7	17.7	16.0	16.9
27.5°	37.1	34.6	31.2	29.5	27.0	21.9	21.1	18.6	16.9	16.9	15.2
30°	38.8	35.4	32.9	29.5	26.2	23.6	21.1	17.7	16.0	16.0	15.2
32.5°	41.4	37.1	31.2	27.9	25.3	21.1	20.3	16.9	15.2	13.5	13.5
35°	38.0	33.8	29.5	26.2	21.9	19.4	17.7	16.0	13.5	12.7	11.8
37.5°	33.8	29.5	26.2	22.8	20.3	17.7	16.0	13.5	11.8	11.0	10.1
40°	30.4	25.3	22.8	19.4	17.7	15.2	13.5	11.0	9.3	8.4	7.6
42.5°	27.0	21.9	19.4	16.9	14.3	12.7	11.0	8.4	6.8	5.9	5.1
45°	23.6	19.4	16.0	14.3	11.8	10.1	8.4	5.9	4.2	3.4	2.5
47.5°	21.1	16.9	14.3	11.8	10.1	7.6	5.9	3.4	2.5	1.7	0.8
50°	18.6	14.3	11.8	10.1	7.6	5.9	4.2	2.5	1.7	0.8	0.8
52.5°	16.0	12.7	11.0	8.4	6.8	4.2	2.5	1.7	0.8	0.8	0.0
55°	14.3	11.8	9.3	6.8	5.1	3.4	1.7	0.8	0.8	0.0	0.0
57.5°	13.5	11.0	7.6	5.1	4.2	2.5	1.7	0.8	0.8	0.0	0.0
60°	12.7	9.3	5.9	4.2	3.4	1.7	0.8	0.8	0.8	0.0	0.0
62.5°	11.8	7.6	5.1	3.4	2.5	1.7	0.8	0.8	0.8	0.8	0.0
65°	9.3	5.9	3.4	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
66°	8.4	5.1	3.4	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
67.5°	7.6	5.1	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
70°	5.9	3.4	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
72.5°	5.1	3.4	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
75°	4.2	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
77.5°	3.4	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
80°	2.5	2.5	1.7	1.7	1.7	1.7	0.8	1.7	1.7	0.8	0.8
82.5°	2.5	1.7	1.7	1.7	1.7	2.5	0.8	1.7	1.7	1.7	1.7
85°	2.5	1.7	1.7	2.5	2.5	2.5	0.8	2.5	2.5	2.5	1.7
87.5°	2.5	2.5	2.5	2.5	3.4	3.4	1.7	3.4	3.4	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):

	160°	165°	170°	175°	180°
0°	22.8	22.8	22.8	22.8	22.8
2.5°	16.0	16.9	16.9	16.9	16.9
5°	16.9	15.2	16.0	16.0	16.0
7.5°	10.1	10.1	10.1	10.1	10.1
10°	14.3	14.3	14.3	14.3	14.3
12.5°	12.7	13.5	13.5	13.5	13.5
15°	15.2	16.0	16.0	16.0	16.9
17.5°	13.5	13.5	15.2	14.3	15.2
20°	16.0	16.0	16.0	16.0	16.0
22.5°	14.3	14.3	16.0	16.9	16.9
25°	16.0	15.2	15.2	15.2	15.2
27.5°	15.2	16.0	16.0	16.0	16.0
30°	14.3	13.5	14.3	14.3	15.2
32.5°	13.5	13.5	13.5	13.5	13.5
35°	11.8	11.8	11.8	12.7	12.7
37.5°	9.3	9.3	10.1	10.1	10.1
40°	7.6	6.8	6.8	7.6	7.6
42.5°	5.1	4.2	4.2	4.2	4.2
45°	2.5	1.7	1.7	1.7	1.7
47.5°	0.8	0.8	0.8	0.8	0.8
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
66°	0.8	0.0	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.0	0.0	0.0
75°	0.8	0.8	0.0	0.0	0.0
77.5°	0.8	0.8	0.8	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0
82.5°	0.8	0.8	0.8	0.8	0.0
85°	1.7	1.7	1.7	1.7	0.0
87.5°	2.5	2.5	2.5	2.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)