

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: P179301

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179301
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-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.4 lumens
Efficiency: N/A
Efficacy: 70.4 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 - G2

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

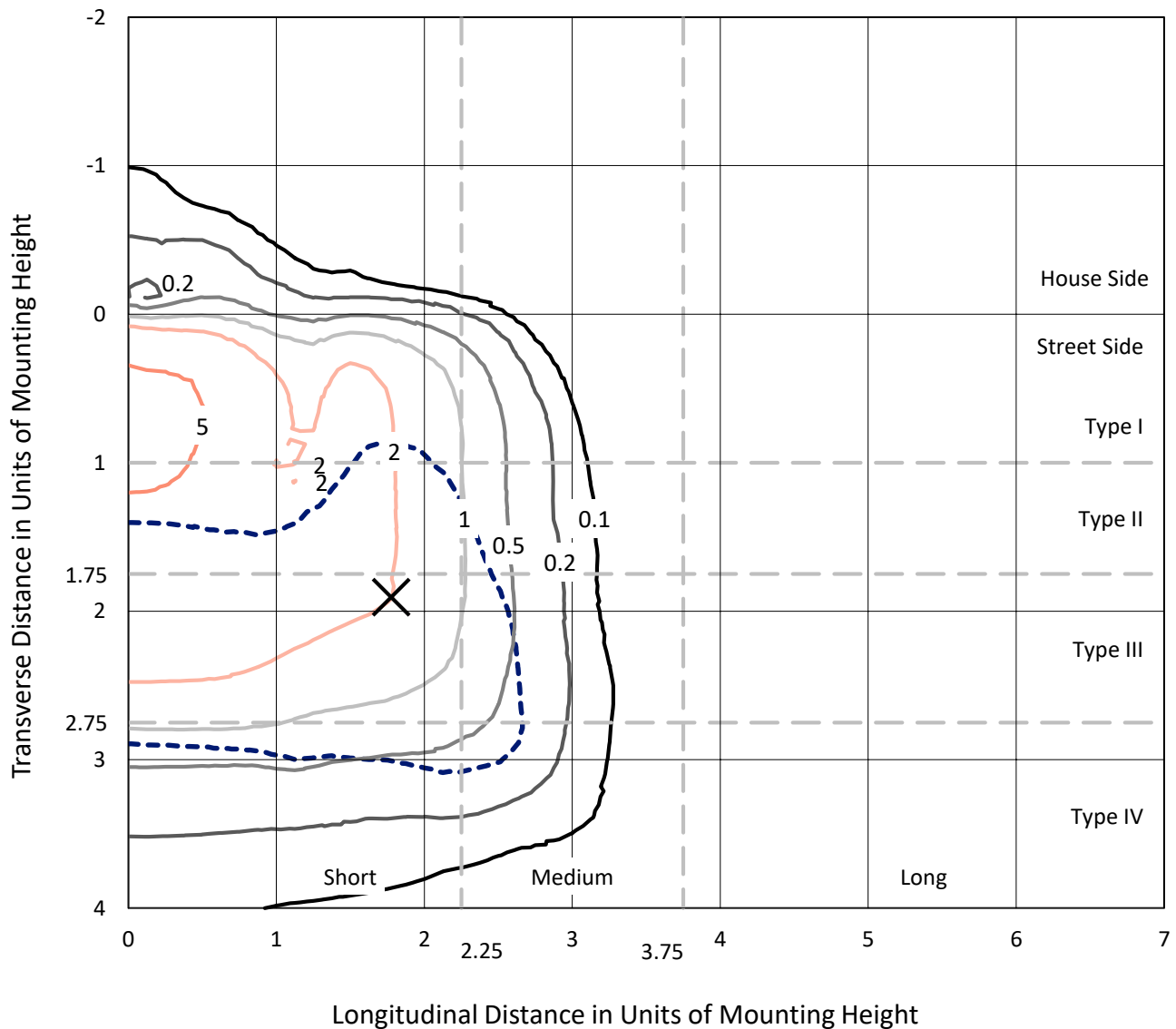


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

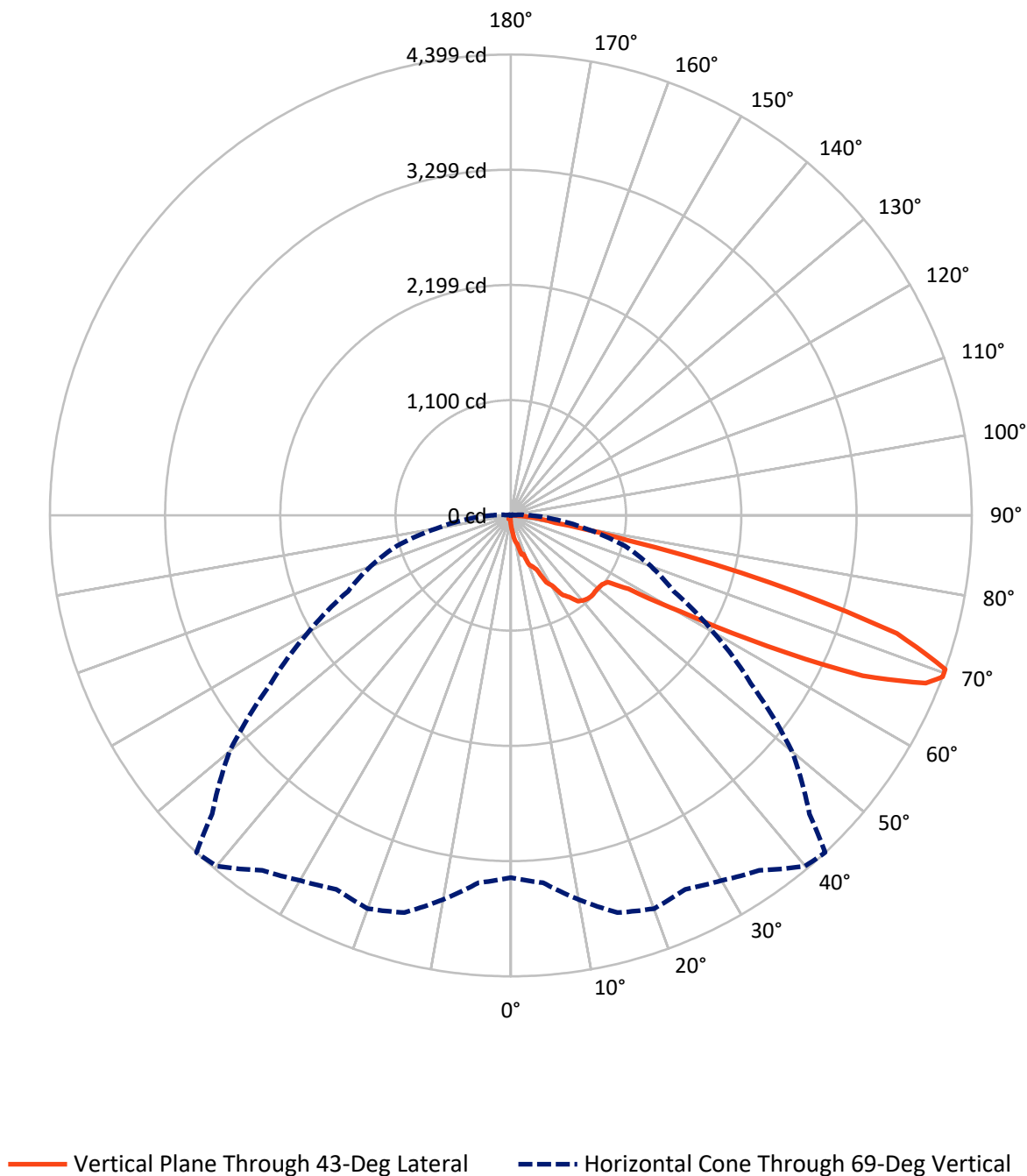


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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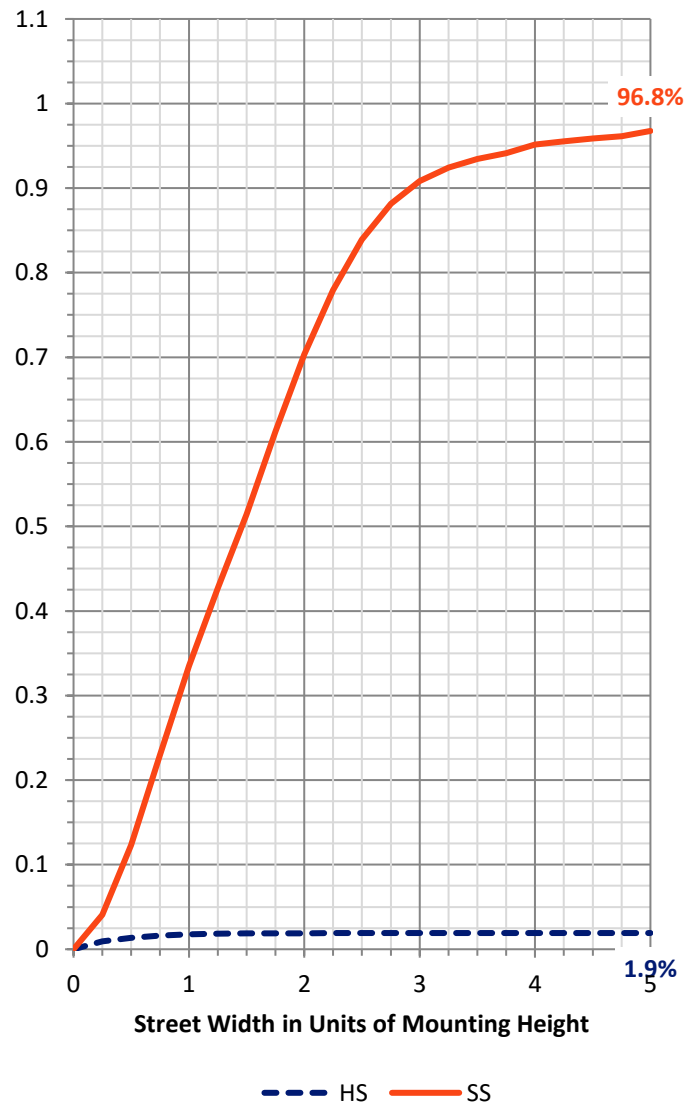
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.1	0.0	71.1
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	3597.2	0.0	3597.2
	% Fixture	98.1	0.0	98.1
Total	Lumens	3668.4	0.0	3668.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.3
10°-20°	50.9	1.4
20°-30°	140.6	3.8
30°-40°	294.5	8.0
40°-50°	425.4	11.6
50°-60°	660.0	18.0
60°-70°	1393.4	38.0
70°-80°	619.8	16.9
80°-90°	73.6	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°	3668.4	100.0
0°-180°	3668.4	100.0

Coefficient of Utilization



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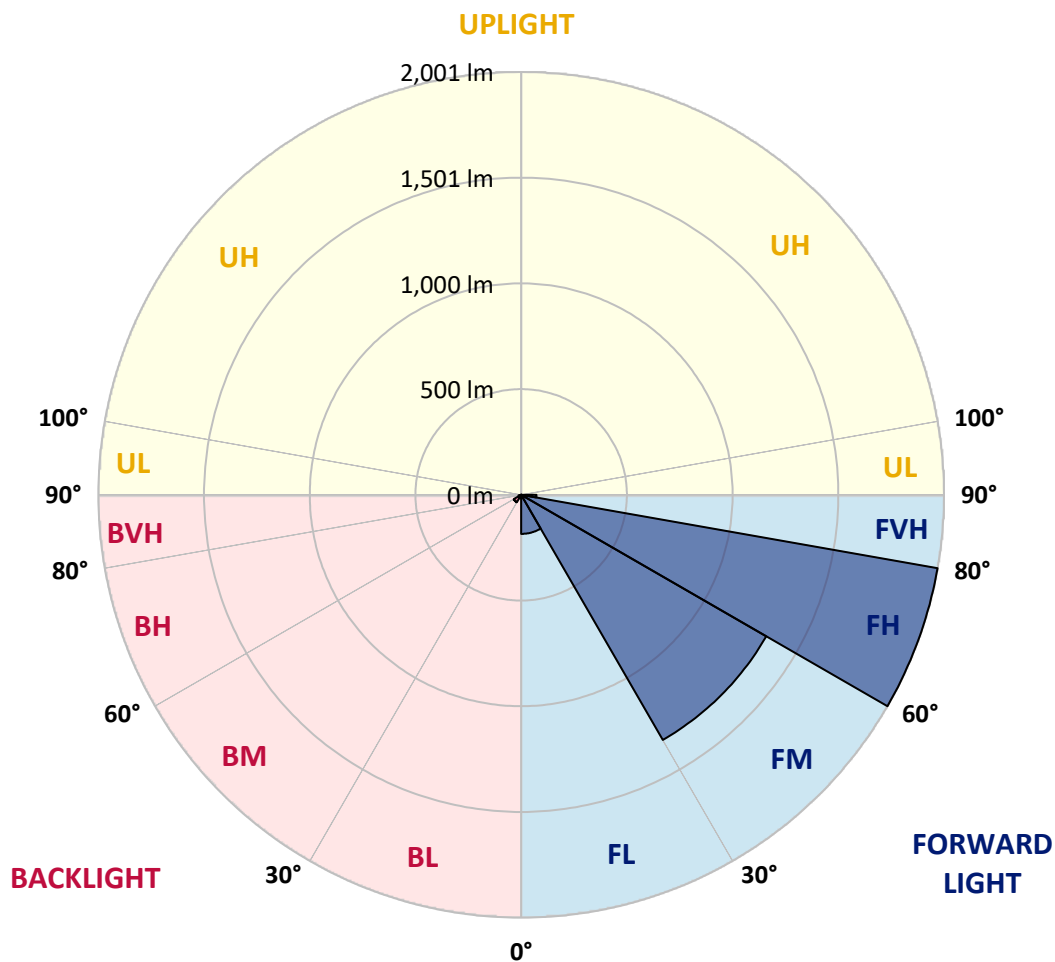
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.9	5.0			
FM	(30°-60°)	1339.3	36.5			
FH	(60°-80°)	2000.7	54.5			G2/5000
FVH	(80°-90°)	72.4	2.0			G1/100
BL	(0°-30°)	16.9	0.5	B0/110		
BM	(30°-60°)	40.6	1.1	B0/220		
BH	(60°-80°)	12.5	0.3	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	43°	45°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	135.4	135.4	134.4	133.4	130.3	129.3	126.2	124.2	125.2	124.2	123.1
5°	173.4	170.3	166.2	160.1	158.0	154.9	152.9	147.8	145.7	144.7	142.6
7.5°	287.3	280.1	276.0	275.0	271.9	268.8	260.6	253.4	246.3	219.6	181.6
10°	308.9	309.9	310.9	304.8	306.8	296.5	286.3	280.1	276.0	260.6	251.4
12.5°	406.3	400.2	399.2	403.3	394.0	388.9	377.6	359.1	297.6	277.0	284.2
15°	471.0	479.2	449.4	413.5	405.3	397.1	373.5	377.6	405.3	386.8	366.3
17.5°	506.9	508.9	503.8	499.7	485.3	476.1	492.5	417.6	409.4	387.9	373.5
20°	635.2	637.2	628.0	584.9	531.5	504.8	520.2	491.5	481.2	502.8	427.9
22.5°	694.7	696.7	688.5	676.2	652.6	657.7	621.8	528.4	535.6	531.5	480.2
25°	852.7	857.8	848.6	828.1	808.6	716.2	677.2	677.2	617.7	570.5	542.8
27.5°	1018.9	999.4	937.9	911.2	896.8	849.6	846.5	740.8	708.0	723.4	630.0
30°	1131.8	1134.9	1124.6	1080.5	1052.8	1040.5	925.5	868.1	791.1	777.8	686.5
32.5°	1353.4	1354.5	1332.9	1312.4	1184.1	1129.7	1050.7	976.9	863.0	901.9	785.0
35°	1565.8	1571.0	1513.5	1398.6	1360.6	1258.0	1159.5	1034.3	958.4	956.3	834.2
37.5°	1691.0	1691.0	1647.9	1564.8	1524.8	1383.2	1225.2	1131.8	995.3	1038.4	900.9
40°	1850.1	1846.0	1809.0	1711.5	1595.6	1430.4	1304.2	1175.9	1060.0	1066.1	945.0
42.5°	1913.7	1908.6	1882.9	1784.4	1629.5	1488.9	1323.7	1188.2	1075.4	1083.6	965.6
45°	1945.5	1940.4	1912.7	1804.9	1642.8	1496.1	1317.5	1181.0	1078.4	1088.7	976.9
47.5°	1938.3	1931.1	1908.6	1818.3	1682.8	1490.9	1277.5	1165.7	1073.3	1083.6	981.0
50°	1899.3	1897.3	1876.7	1795.7	1678.7	1470.4	1254.9	1150.3	1072.3	1084.6	989.2
52.5°	1876.7	1878.8	1859.3	1802.9	1656.1	1463.2	1267.2	1155.4	1078.4	1092.8	1001.5
55°	2172.3	2134.3	2059.4	1941.4	1732.1	1524.8	1325.7	1192.3	1109.2	1123.6	1030.2
57.5°	3152.2	3117.3	2962.4	2676.1	2270.8	1861.4	1551.5	1363.7	1284.7	1323.7	1245.7
60°	3727.8	3687.8	3648.8	3519.5	3180.9	2815.6	2259.5	1953.7	1807.0	1868.5	1791.6
62.5°	3966.9	3963.8	3945.4	3921.8	3686.8	3519.5	3105.0	2809.5	2698.7	2743.8	2580.7
65°	4116.7	4136.2	4140.3	4152.6	3999.8	3872.5	3630.4	3554.4	3701.2	3690.9	3386.1
67.5°	4011.0	4022.3	4090.1	4195.7	4119.8	4001.8	3967.9	4030.5	4219.3	4272.7	3895.1
69°	3456.9	3518.5	3721.7	3923.8	3993.6	3937.2	4022.3	4135.2	4368.1	4398.9	4031.6
70°	2756.1	2866.9	3094.7	3517.5	3684.7	3691.9	3940.2	4117.8	4380.4	4397.9	4039.8
72.5°	1238.5	1259.0	1384.2	1608.9	2247.2	2464.7	3073.2	3626.3	3895.1	3854.1	3509.3
75°	836.3	845.5	838.3	848.6	970.7	1167.7	1489.9	2307.7	2630.9	2546.8	2225.6
77.5°	692.6	691.6	678.3	669.0	673.1	701.9	699.8	800.4	1109.2	1140.0	1001.5
80°	620.8	614.6	603.4	584.9	565.4	537.7	508.9	453.5	415.6	429.9	379.7
82.5°	336.6	325.3	350.9	375.6	432.0	455.6	418.7	349.9	314.0	294.5	262.7
85°	79.0	75.9	89.3	124.2	212.4	216.5	210.4	173.4	150.8	140.6	127.2
87.5°	20.5	20.5	21.5	21.5	104.7	120.1	97.5	44.1	33.9	29.8	25.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	121.1	120.1	118.0	118.0	115.9	110.8	96.5	83.1	74.9	71.8	68.7
5°	137.5	133.4	128.3	123.1	118.0	114.9	112.9	91.3	70.8	65.7	60.5
7.5°	157.0	147.8	139.6	131.3	124.2	112.9	106.7	101.6	68.7	60.5	55.4
10°	237.0	226.8	159.0	158.0	140.6	128.3	123.1	118.0	82.1	69.8	60.5
12.5°	282.2	267.8	241.1	198.0	146.7	138.5	121.1	108.8	78.0	61.6	56.4
15°	299.6	282.2	254.5	242.2	188.8	164.2	138.5	125.2	86.2	73.9	60.5
17.5°	370.4	361.2	287.3	260.6	226.8	163.2	142.6	110.8	86.2	65.7	57.5
20°	401.2	377.6	324.2	308.9	275.0	223.7	170.3	146.7	105.7	86.2	65.7
22.5°	450.5	444.3	408.4	326.3	288.3	243.2	176.5	153.9	114.9	83.1	62.6
25°	539.7	474.1	426.9	414.5	358.1	298.6	223.7	169.3	124.2	87.2	68.7
27.5°	583.9	549.0	495.6	448.4	368.4	308.9	250.4	184.7	133.4	94.4	70.8
30°	704.9	585.9	545.9	497.7	411.5	327.3	254.5	192.9	132.4	92.3	71.8
32.5°	753.2	673.1	601.3	523.3	462.8	367.3	282.2	196.0	137.5	95.4	79.0
35°	819.9	720.3	667.0	590.0	498.7	399.2	289.4	202.1	130.3	92.3	78.0
37.5°	876.3	769.6	682.4	611.6	513.1	408.4	298.6	208.3	134.4	90.3	74.9
40°	906.1	793.2	693.6	627.0	512.0	413.5	316.0	201.1	130.3	88.2	69.8
42.5°	930.7	818.8	712.1	643.4	532.5	436.1	321.2	211.4	129.3	88.2	64.6
45°	947.1	842.4	753.2	662.9	559.2	460.7	328.4	213.4	131.3	88.2	60.5
47.5°	956.3	871.2	794.2	691.6	606.4	508.9	370.4	232.9	134.4	85.2	56.4
50°	968.6	901.9	828.1	728.5	656.7	536.7	402.2	243.2	138.5	80.0	53.4
52.5°	977.9	918.4	850.6	774.7	728.5	622.8	481.2	291.4	149.8	77.0	50.3
55°	1022.0	991.2	987.1	1008.7	1041.5	1021.0	827.0	500.7	230.9	90.3	57.5
57.5°	1314.4	1369.9	1470.4	1556.6	1532.0	1482.7	1189.3	692.6	313.0	98.5	66.7
60°	1913.7	1969.1	2009.1	1968.1	1830.6	1712.6	1341.1	785.0	348.9	82.1	52.3
62.5°	2561.2	2459.6	2336.4	2151.7	1996.8	1771.1	1411.9	837.3	358.1	69.8	39.0
65°	3123.5	2803.3	2524.2	2192.8	2001.9	1762.8	1394.5	815.8	342.7	57.5	31.8
67.5°	3464.1	2918.2	2483.2	2030.7	1752.6	1476.6	1077.4	627.0	262.7	46.2	26.7
69°	3503.1	2797.2	2234.9	1714.6	1425.3	1126.7	721.4	414.5	183.7	39.0	23.6
70°	3431.3	2629.9	1953.7	1435.5	1136.9	836.3	525.4	304.8	132.4	34.9	22.6
72.5°	2771.5	1822.4	1120.5	706.0	498.7	346.8	212.4	124.2	56.4	25.7	19.5
75°	1519.7	782.9	443.3	293.5	227.8	174.4	120.1	66.7	32.8	21.5	16.4
77.5°	559.2	353.0	253.4	201.1	132.4	75.9	51.3	38.0	26.7	17.4	12.3
80°	335.5	245.2	178.5	95.4	63.6	48.2	36.9	29.8	21.5	13.3	8.2
82.5°	214.5	145.7	77.0	56.4	45.1	35.9	28.7	24.6	15.4	9.2	4.1
85°	98.5	58.5	46.2	40.0	34.9	31.8	29.8	24.6	12.3	5.1	3.1
87.5°	22.6	21.5	25.7	23.6	22.6	21.5	19.5	16.4	6.2	4.1	3.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
2.5°	66.7	64.6	62.6	61.6	59.5	59.5	57.5	57.5	56.4	55.4	56.4
5°	56.4	54.4	52.3	50.3	48.2	46.2	47.2	48.2	48.2	49.3	43.1
7.5°	52.3	49.3	45.1	43.1	42.1	20.5	16.4	15.4	14.4	15.4	15.4
10°	53.4	48.2	45.1	18.5	13.3	13.3	13.3	13.3	14.4	17.4	21.5
12.5°	50.3	44.1	23.6	21.5	19.5	18.5	21.5	20.5	20.5	20.5	20.5
15°	56.4	31.8	24.6	21.5	23.6	25.7	25.7	24.6	20.5	20.5	24.6
17.5°	35.9	29.8	27.7	32.8	31.8	26.7	24.6	27.7	28.7	26.7	23.6
20°	47.2	42.1	38.0	32.8	30.8	30.8	33.9	28.7	26.7	27.7	28.7
22.5°	48.2	45.1	47.2	44.1	41.0	32.8	31.8	30.8	31.8	29.8	28.7
25°	60.5	61.6	55.4	45.1	43.1	40.0	36.9	30.8	31.8	28.7	30.8
27.5°	64.6	60.5	55.4	53.4	49.3	40.0	40.0	33.9	31.8	31.8	27.7
30°	67.7	61.6	57.5	52.3	47.2	44.1	39.0	34.9	31.8	30.8	29.8
32.5°	71.8	63.6	55.4	51.3	47.2	41.0	40.0	34.9	31.8	28.7	28.7
35°	66.7	59.5	54.4	50.3	43.1	39.0	36.9	33.9	29.8	28.7	26.7
37.5°	60.5	54.4	50.3	45.1	41.0	35.9	34.9	30.8	28.7	26.7	25.7
40°	55.4	49.3	45.1	41.0	36.9	32.8	30.8	27.7	24.6	23.6	23.6
42.5°	52.3	45.1	40.0	36.9	32.8	29.8	27.7	24.6	22.6	21.5	21.5
45°	48.2	41.0	35.9	31.8	28.7	26.7	24.6	21.5	19.5	19.5	19.5
47.5°	46.2	38.0	32.8	28.7	25.7	23.6	21.5	18.5	16.4	17.4	17.4
50°	43.1	34.9	28.7	26.7	23.6	21.5	19.5	16.4	15.4	15.4	15.4
52.5°	40.0	30.8	25.7	23.6	21.5	19.5	16.4	13.3	12.3	13.3	12.3
55°	40.0	27.7	22.6	20.5	18.5	16.4	13.3	11.3	10.3	9.2	8.2
57.5°	47.2	27.7	19.5	18.5	16.4	13.3	10.3	8.2	7.2	5.1	4.1
60°	41.0	27.7	17.4	16.4	14.4	11.3	8.2	6.2	4.1	3.1	2.1
62.5°	28.7	21.5	15.4	14.4	11.3	8.2	5.1	3.1	2.1	1.0	1.0
65°	24.6	17.4	14.4	12.3	9.2	6.2	3.1	2.1	1.0	1.0	1.0
67.5°	21.5	16.4	12.3	10.3	8.2	4.1	2.1	1.0	1.0	1.0	1.0
69°	19.5	15.4	12.3	9.2	7.2	3.1	2.1	1.0	1.0	1.0	1.0
70°	18.5	14.4	11.3	9.2	6.2	3.1	1.0	1.0	1.0	1.0	1.0
72.5°	15.4	11.3	9.2	8.2	5.1	2.1	1.0	1.0	1.0	1.0	1.0
75°	11.3	9.2	6.2	6.2	4.1	2.1	1.0	1.0	1.0	1.0	0.0
77.5°	8.2	6.2	4.1	4.1	3.1	2.1	1.0	1.0	1.0	1.0	0.0
80°	5.1	4.1	3.1	3.1	2.1	2.1	0.0	1.0	1.0	1.0	1.0
82.5°	3.1	3.1	3.1	2.1	2.1	2.1	1.0	2.1	1.0	1.0	1.0
85°	3.1	3.1	3.1	2.1	2.1	2.1	1.0	2.1	2.1	2.1	1.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.0	3.1	3.1	2.1	2.1
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):

	160°	165°	170°	175°	180°
0°	81.1	81.1	81.1	81.1	81.1
2.5°	56.4	56.4	57.5	58.5	58.5
5°	32.8	22.6	23.6	23.6	23.6
7.5°	15.4	15.4	16.4	16.4	16.4
10°	23.6	23.6	23.6	23.6	24.6
12.5°	21.5	22.6	22.6	22.6	23.6
15°	25.7	26.7	27.7	27.7	28.7
17.5°	23.6	23.6	25.7	25.7	25.7
20°	27.7	27.7	27.7	27.7	27.7
22.5°	24.6	25.7	28.7	29.8	30.8
25°	28.7	27.7	27.7	27.7	27.7
27.5°	28.7	28.7	29.8	29.8	29.8
30°	28.7	26.7	26.7	27.7	28.7
32.5°	28.7	28.7	27.7	27.7	27.7
35°	26.7	28.7	28.7	28.7	28.7
37.5°	25.7	25.7	28.7	29.8	29.8
40°	24.6	25.7	26.7	30.8	30.8
42.5°	23.6	25.7	27.7	29.8	29.8
45°	22.6	24.6	25.7	27.7	27.7
47.5°	20.5	22.6	23.6	24.6	24.6
50°	18.5	18.5	19.5	19.5	18.5
52.5°	13.3	13.3	12.3	12.3	12.3
55°	8.2	7.2	7.2	7.2	6.2
57.5°	4.1	4.1	3.1	3.1	3.1
60°	2.1	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	0.0	0.0	0.0
65°	1.0	1.0	0.0	0.0	0.0
67.5°	1.0	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°	1.0	0.0	0.0	0.0	0.0
85°	1.0	1.0	1.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)