

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: P179395

Luminaire Tested: **UTLD-F02-LED-E-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179395
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-F02-LED-E-U-T4-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2868.2 lumens
Efficiency: N/A
Efficacy: 52.1 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): 55
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



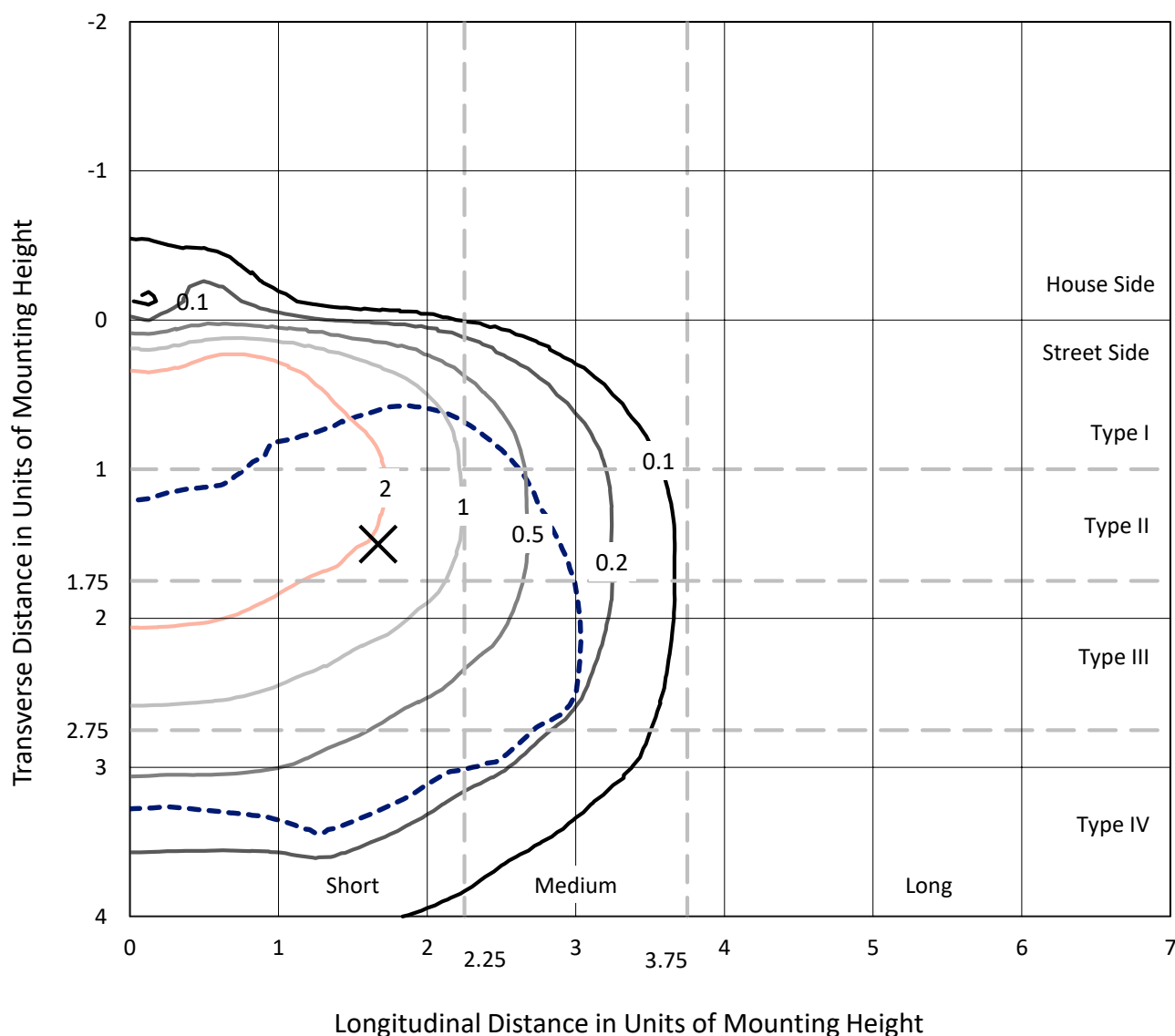
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

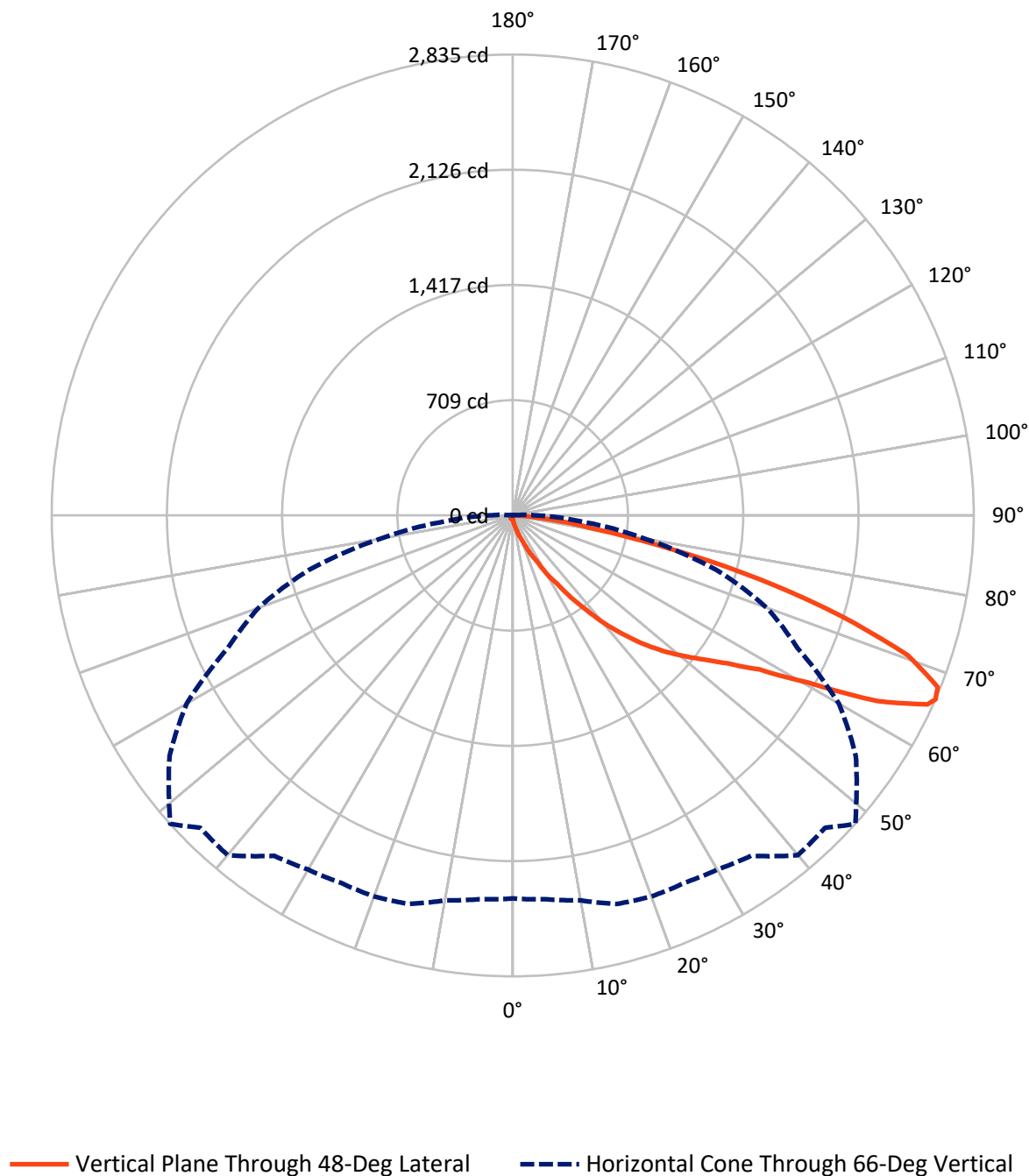


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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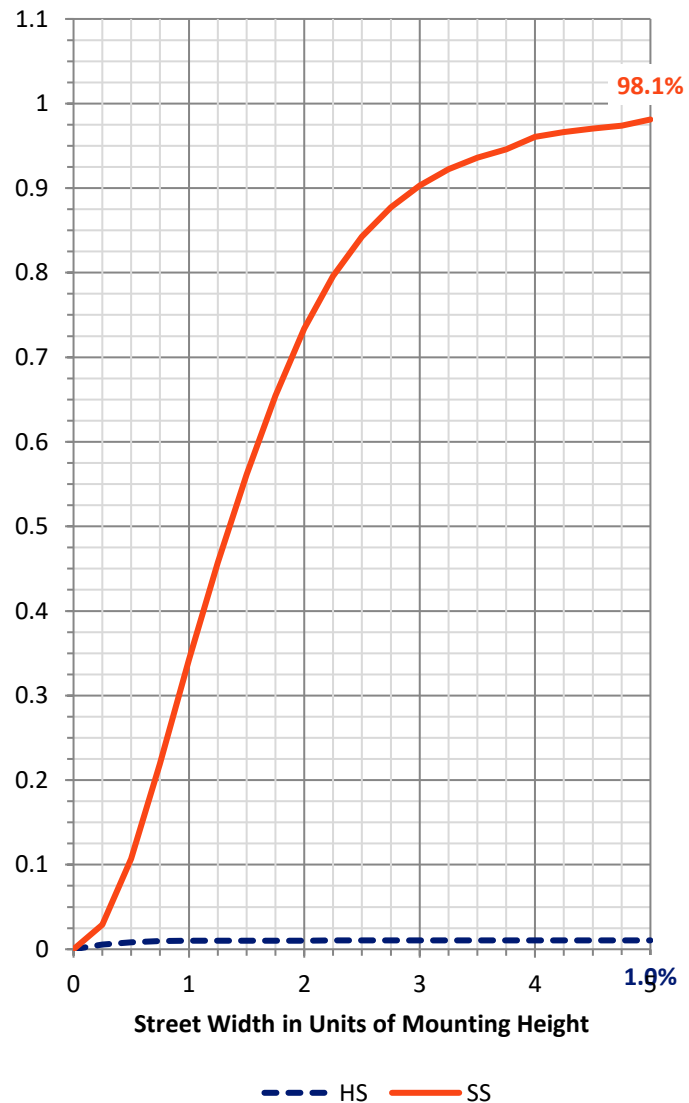
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30.7	0.0	30.7
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	2837.4	0.0	2837.4
	% Fixture	98.9	0.0	98.9
Total	Lumens	2868.2	0.0	2868.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	17.8	0.6
20°-30°	68.1	2.4
30°-40°	190.8	6.7
40°-50°	370.5	12.9
50°-60°	607.1	21.2
60°-70°	989.6	34.5
70°-80°	557.7	19.4
80°-90°	63.8	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°	2868.2	100.0
0°-180°	2868.2	100.0

Coefficient of Utilization



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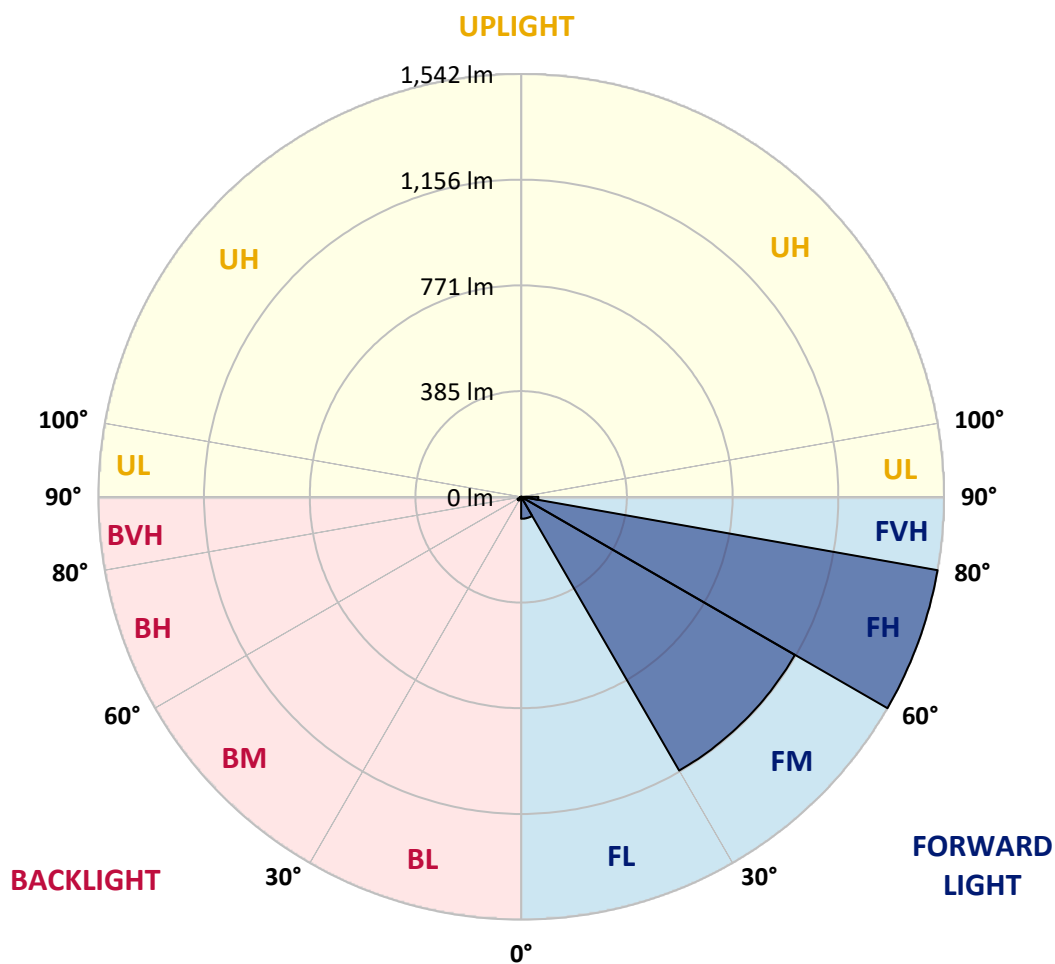
CATALOG NUMBER: UTLD-F02-LED-E-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.2	2.8			
FM	(30°-60°)	1152.6	40.2			
FH	(60°-80°)	1541.8	53.8			G1/1800
FVH	(80°-90°)	62.7	2.2			G1/100
BL	(0°-30°)	8.4	0.3	B0/110		
BM	(30°-60°)	15.8	0.6	B0/220		
BH	(60°-80°)	5.5	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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	28.9	28.9	28.9	28.9	28.1	27.2	27.2	26.4	26.4	26.4	26.4
5°	42.1	42.1	39.6	38.8	37.1	36.3	34.7	33.8	33.0	31.4	31.4
7.5°	66.9	66.0	66.0	65.2	64.4	62.7	60.3	58.6	56.1	42.9	39.6
10°	85.0	85.9	84.2	83.4	78.4	75.9	72.6	69.3	68.5	62.7	59.4
12.5°	117.2	118.1	116.4	115.6	112.3	109.8	104.0	99.9	83.4	76.8	75.9
15°	167.6	167.6	159.3	142.8	137.9	132.1	123.0	121.4	122.2	111.4	97.4
17.5°	195.6	196.5	194.0	189.9	184.9	179.1	173.4	153.5	142.8	133.7	129.6
20°	266.6	266.6	261.7	253.4	223.7	212.2	211.3	201.4	194.0	170.9	161.8
22.5°	307.9	312.0	306.3	300.5	290.6	293.9	279.9	237.8	238.6	217.1	208.9
25°	404.5	405.3	396.3	389.6	386.3	336.8	323.6	330.2	304.6	277.4	270.8
27.5°	503.6	509.3	454.9	442.5	442.5	431.7	436.7	389.6	383.0	349.2	322.8
30°	577.9	580.3	571.3	549.8	541.5	539.1	496.1	499.4	459.0	407.0	424.3
32.5°	712.4	716.6	699.2	691.0	632.4	610.1	583.6	584.5	534.9	526.7	499.4
35°	875.9	880.0	857.7	787.6	777.6	746.3	731.4	673.6	664.5	621.6	621.6
37.5°	984.0	970.0	949.4	922.9	928.7	887.4	839.6	830.5	780.9	748.8	739.7
40°	1064.9	1069.1	1067.4	1054.2	1025.3	986.5	970.8	948.5	908.1	875.9	880.0
42.5°	1135.1	1143.4	1150.0	1131.0	1107.9	1091.3	1069.1	1055.0	1022.0	981.5	1001.4
45°	1205.3	1211.9	1225.9	1214.3	1197.8	1195.4	1141.7	1154.9	1128.5	1096.3	1129.3
47.5°	1287.0	1293.6	1304.3	1305.2	1303.5	1268.8	1224.3	1244.1	1238.3	1199.5	1245.7
50°	1378.6	1379.5	1398.4	1411.6	1386.1	1358.8	1315.9	1325.8	1334.9	1305.2	1358.8
52.5°	1477.7	1488.4	1502.5	1511.5	1476.0	1462.8	1426.5	1424.9	1443.8	1413.3	1471.1
55°	1627.9	1632.9	1639.5	1642.8	1596.6	1601.5	1548.7	1543.7	1571.8	1538.8	1607.3
57.5°	1817.0	1830.2	1844.2	1837.6	1789.7	1785.6	1713.8	1689.8	1738.6	1718.7	1786.4
60°	2104.3	2116.6	2127.4	2134.8	2108.4	2092.7	1982.1	1964.7	2046.5	2006.0	2086.9
62.5°	2404.8	2418.0	2430.3	2482.4	2455.1	2435.3	2367.6	2367.6	2467.5	2437.8	2515.4
65°	2400.6	2419.6	2447.7	2516.2	2528.6	2519.5	2517.0	2548.4	2703.6	2693.7	2802.7
66°	2356.0	2369.3	2404.8	2474.1	2493.9	2494.7	2515.4	2555.8	2727.5	2716.8	2834.9
67.5°	2252.0	2268.5	2306.5	2389.1	2409.7	2425.4	2479.1	2511.2	2704.4	2697.8	2819.2
70°	2016.8	2024.2	2059.7	2145.5	2195.1	2186.8	2267.7	2280.1	2467.5	2491.4	2577.3
72.5°	1553.6	1543.7	1651.9	1770.8	1851.7	1820.3	1878.9	1882.2	2041.5	2039.0	2107.6
75°	826.4	832.1	899.8	1058.3	1354.7	1363.8	1375.3	1374.5	1504.1	1503.3	1564.4
77.5°	522.6	536.6	562.2	610.1	758.7	866.8	908.9	891.6	948.5	968.3	999.7
80°	211.3	220.4	251.0	329.4	506.9	549.0	562.2	536.6	547.3	520.9	520.9
82.5°	70.2	71.0	80.9	102.4	260.0	363.2	374.0	316.2	311.2	302.1	302.1
85°	38.0	38.0	39.6	53.7	100.7	195.6	214.6	144.5	142.0	120.5	111.4
87.5°	3.3	4.1	3.3	9.1	15.7	29.7	34.7	36.3	41.3	47.1	38.0
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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	26.4	26.4	26.4	27.2	27.2	26.4	25.6	23.1	22.3	20.6	19.0
5°	30.5	29.7	28.1	27.2	26.4	25.6	25.6	23.9	20.6	18.2	15.7
7.5°	38.8	34.7	32.2	30.5	28.1	25.6	24.8	24.8	19.8	16.5	14.9
10°	57.8	56.1	42.9	37.1	33.8	31.4	29.7	30.5	24.8	19.8	19.0
12.5°	74.3	70.2	62.7	49.5	38.8	35.5	32.2	28.9	24.8	19.8	17.3
15°	93.3	83.4	75.9	67.7	55.3	45.4	39.6	37.1	30.5	25.6	22.3
17.5°	125.5	122.2	94.1	82.6	71.0	51.2	44.6	36.3	32.2	24.8	22.3
20°	156.8	144.5	123.0	108.1	92.5	71.8	57.0	47.9	38.8	33.0	29.7
22.5°	199.0	187.4	164.3	128.8	109.8	91.6	65.2	57.0	44.6	37.1	33.0
25°	269.1	231.1	203.9	179.1	149.4	120.5	82.6	61.9	49.5	41.3	36.3
27.5°	323.6	301.3	267.5	228.7	175.0	139.5	104.0	71.0	55.3	45.4	38.8
30°	439.2	364.9	353.3	299.7	229.5	165.9	118.9	81.7	57.8	46.2	39.6
32.5°	510.2	485.4	427.6	369.0	301.3	222.9	149.4	90.8	61.9	47.1	42.1
35°	636.5	576.2	545.7	484.6	392.1	285.6	179.1	108.1	61.9	47.9	41.3
37.5°	766.9	703.3	644.7	582.0	473.9	340.1	216.3	122.2	66.0	45.4	38.8
40°	873.4	812.3	732.2	671.2	542.4	397.1	260.9	131.3	63.6	43.8	35.5
42.5°	993.9	921.3	833.8	767.7	621.6	474.7	297.2	154.4	65.2	42.1	32.2
45°	1107.0	1028.6	940.3	847.8	698.4	549.0	339.3	167.6	71.0	41.3	28.9
47.5°	1212.7	1130.1	1046.8	917.2	793.3	627.4	403.7	199.8	75.9	38.8	26.4
50°	1307.6	1229.2	1136.7	989.8	870.9	686.0	465.6	222.9	81.7	35.5	23.9
52.5°	1415.8	1334.9	1214.3	1066.6	942.7	761.1	520.9	254.3	89.2	32.2	21.5
55°	1549.5	1448.0	1331.6	1192.9	1027.0	857.7	583.6	284.0	99.1	28.9	19.0
57.5°	1715.4	1629.6	1510.7	1348.1	1153.3	952.7	659.6	322.0	108.1	26.4	17.3
60°	2017.6	1906.1	1793.9	1602.3	1341.5	1104.6	751.2	371.5	123.0	23.9	15.7
62.5°	2446.0	2324.7	2143.1	1865.7	1586.7	1248.2	841.2	421.0	139.5	21.5	14.9
65°	2718.5	2551.7	2309.0	1948.2	1676.6	1314.2	848.6	420.2	141.2	19.8	13.2
66°	2757.3	2575.6	2314.8	1933.4	1663.4	1297.7	828.8	414.4	138.7	18.2	12.4
67.5°	2753.1	2552.5	2271.8	1871.5	1597.4	1239.1	764.4	385.5	131.3	17.3	11.6
70°	2537.7	2337.9	2041.5	1657.7	1396.8	1070.7	657.1	331.0	112.3	14.9	9.9
72.5°	2107.6	1918.5	1650.2	1314.2	1126.0	847.0	503.6	260.0	88.3	12.4	8.3
75°	1556.9	1376.2	1172.2	913.0	741.3	535.8	313.7	168.4	57.8	9.9	6.6
77.5°	971.6	818.9	621.6	464.8	345.9	222.9	110.6	57.0	24.8	8.3	5.0
80°	512.7	417.7	301.3	217.9	160.2	99.9	51.2	26.4	13.2	6.6	3.3
82.5°	295.5	248.5	184.1	137.0	107.3	70.2	38.0	21.5	9.9	4.1	2.5
85°	106.5	91.6	102.4	77.6	58.6	38.8	27.2	17.3	6.6	3.3	2.5
87.5°	39.6	32.2	28.9	24.8	23.9	23.9	22.3	13.2	4.1	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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	18.2	16.5	16.5	15.7	15.7	14.9	14.9	14.9	14.9	14.9	15.7
5°	14.9	14.0	14.0	14.0	13.2	13.2	14.9	15.7	16.5	17.3	16.5
7.5°	14.9	14.0	13.2	14.0	15.7	12.4	9.9	9.1	8.3	9.1	9.1
10°	16.5	15.7	17.3	11.6	8.3	7.4	8.3	8.3	8.3	10.7	13.2
12.5°	16.5	17.3	13.2	11.6	11.6	10.7	13.2	11.6	11.6	11.6	11.6
15°	22.3	16.5	14.0	12.4	14.0	14.9	14.9	14.0	12.4	11.6	14.0
17.5°	19.0	17.3	16.5	19.8	18.2	15.7	14.0	15.7	16.5	14.9	13.2
20°	26.4	23.9	23.1	19.8	18.2	18.2	19.0	15.7	14.9	14.9	16.5
22.5°	28.1	25.6	26.4	24.8	23.9	19.0	18.2	17.3	17.3	15.7	15.7
25°	33.8	34.7	30.5	26.4	23.9	22.3	20.6	17.3	17.3	15.7	16.5
27.5°	36.3	33.8	30.5	28.9	26.4	21.5	20.6	18.2	16.5	16.5	14.9
30°	38.0	34.7	32.2	28.9	25.6	23.1	20.6	17.3	15.7	15.7	14.9
32.5°	40.5	36.3	30.5	27.2	24.8	20.6	19.8	16.5	14.9	13.2	13.2
35°	37.1	33.0	28.9	25.6	21.5	19.0	17.3	15.7	13.2	12.4	11.6
37.5°	33.0	28.9	25.6	22.3	19.8	17.3	15.7	13.2	11.6	10.7	9.9
40°	29.7	24.8	22.3	19.0	17.3	14.9	13.2	10.7	9.1	8.3	7.4
42.5°	26.4	21.5	19.0	16.5	14.0	12.4	10.7	8.3	6.6	5.8	5.0
45°	23.1	19.0	15.7	14.0	11.6	9.9	8.3	5.8	4.1	3.3	2.5
47.5°	20.6	16.5	14.0	11.6	9.9	7.4	5.8	3.3	2.5	1.7	0.8
50°	18.2	14.0	11.6	9.9	7.4	5.8	4.1	2.5	1.7	0.8	0.8
52.5°	15.7	12.4	10.7	8.3	6.6	4.1	2.5	1.7	0.8	0.8	0.0
55°	14.0	11.6	9.1	6.6	5.0	3.3	1.7	0.8	0.8	0.0	0.0
57.5°	13.2	10.7	7.4	5.0	4.1	2.5	1.7	0.8	0.8	0.0	0.0
60°	12.4	9.1	5.8	4.1	3.3	1.7	0.8	0.8	0.8	0.0	0.0
62.5°	11.6	7.4	5.0	3.3	2.5	1.7	0.8	0.8	0.8	0.8	0.0
65°	9.1	5.8	3.3	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
66°	8.3	5.0	3.3	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
67.5°	7.4	5.0	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
70°	5.8	3.3	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
72.5°	5.0	3.3	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
75°	4.1	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
77.5°	3.3	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	3.3	3.3	1.7	3.3	3.3	3.3	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°	22.3	22.3	22.3	22.3	22.3
2.5°	15.7	16.5	16.5	16.5	16.5
5°	16.5	14.9	15.7	15.7	15.7
7.5°	9.9	9.9	9.9	9.9	9.9
10°	14.0	14.0	14.0	14.0	14.0
12.5°	12.4	13.2	13.2	13.2	13.2
15°	14.9	15.7	15.7	15.7	16.5
17.5°	13.2	13.2	14.9	14.0	14.9
20°	15.7	15.7	15.7	15.7	15.7
22.5°	14.0	14.0	15.7	16.5	16.5
25°	15.7	14.9	14.9	14.9	14.9
27.5°	14.9	15.7	15.7	15.7	15.7
30°	14.0	13.2	14.0	14.0	14.9
32.5°	13.2	13.2	13.2	13.2	13.2
35°	11.6	11.6	11.6	12.4	12.4
37.5°	9.1	9.1	9.9	9.9	9.9
40°	7.4	6.6	6.6	7.4	7.4
42.5°	5.0	4.1	4.1	4.1	4.1
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)