

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: P179392

Luminaire Tested: **UTLD-E02-LED-E-U-T4-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179392
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-7060
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565 lumens
Efficiency: N/A
Efficacy: 68.4 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



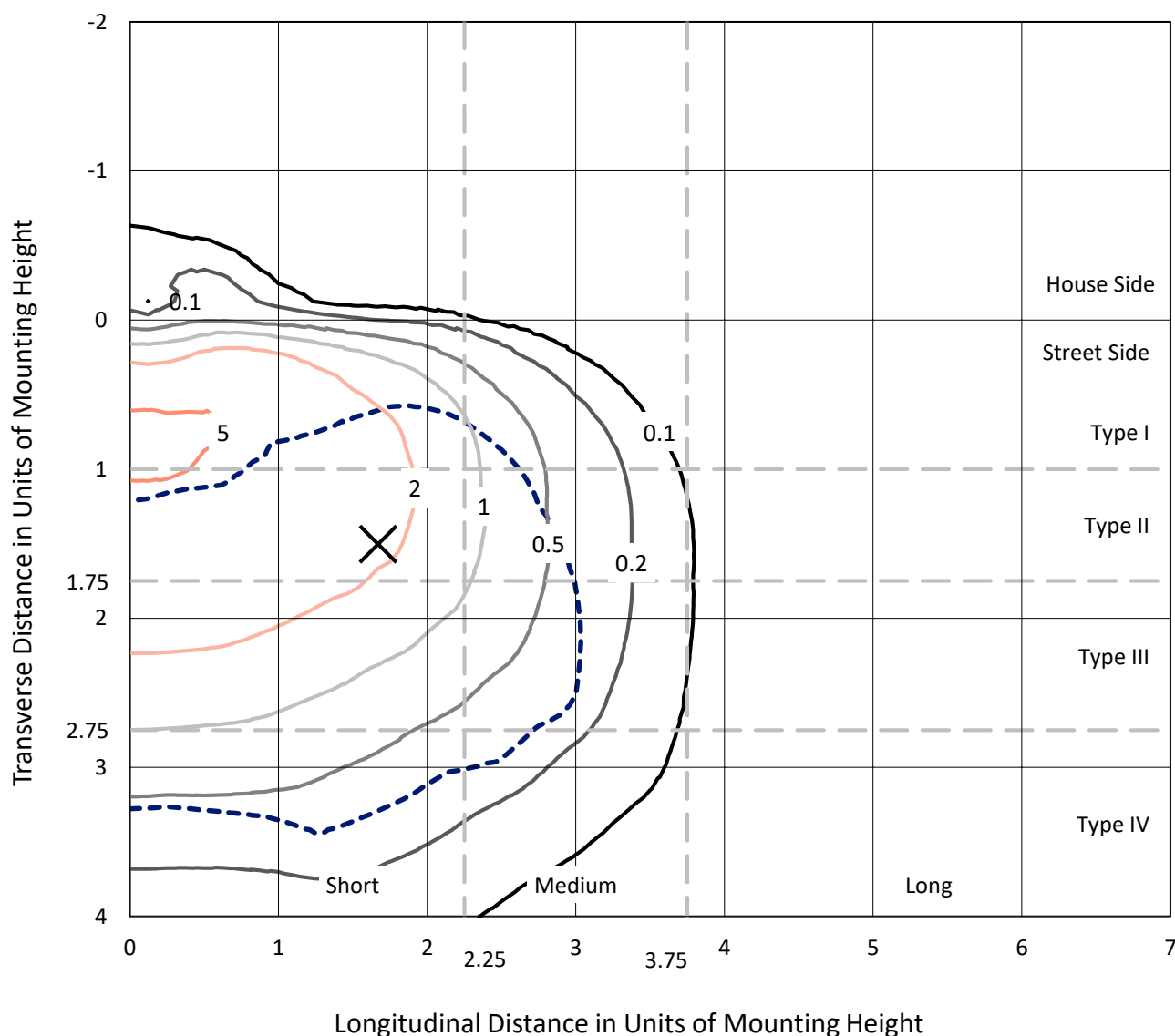
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

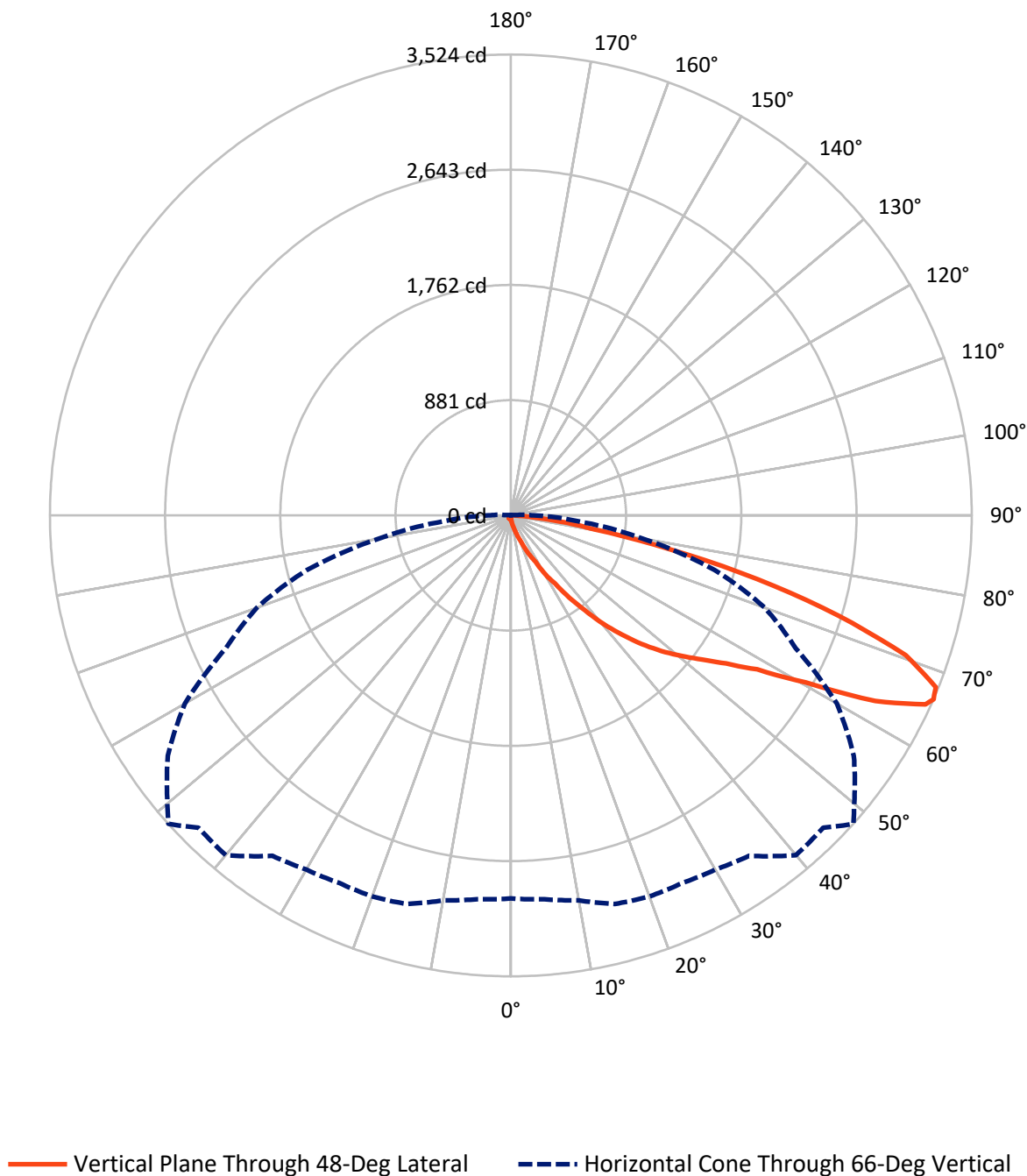


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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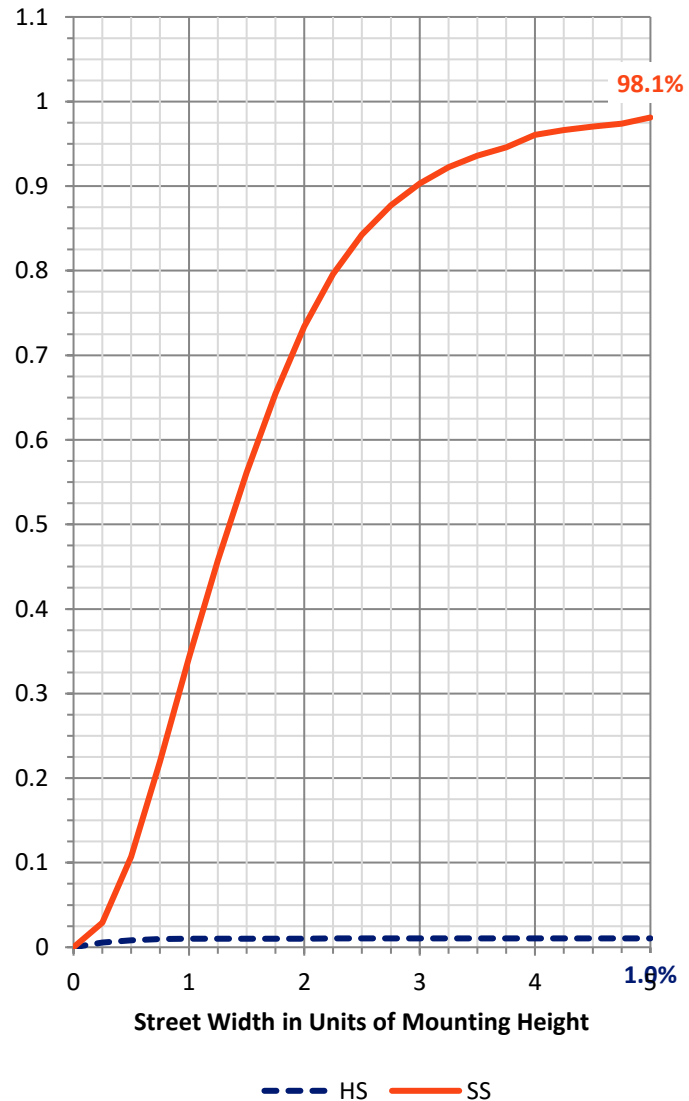
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.2	0.0	38.2
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	3526.8	0.0	3526.8
	% Fixture	98.9	0.0	98.9
Total	Lumens	3565.0	0.0	3565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	22.2	0.6
20°-30°	84.7	2.4
30°-40°	237.2	6.7
40°-50°	460.5	12.9
50°-60°	754.6	21.2
60°-70°	1230.0	34.5
70°-80°	693.2	19.4
80°-90°	79.3	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°	3565.0	100.0
0°-180°	3565.0	100.0

Coefficient of Utilization



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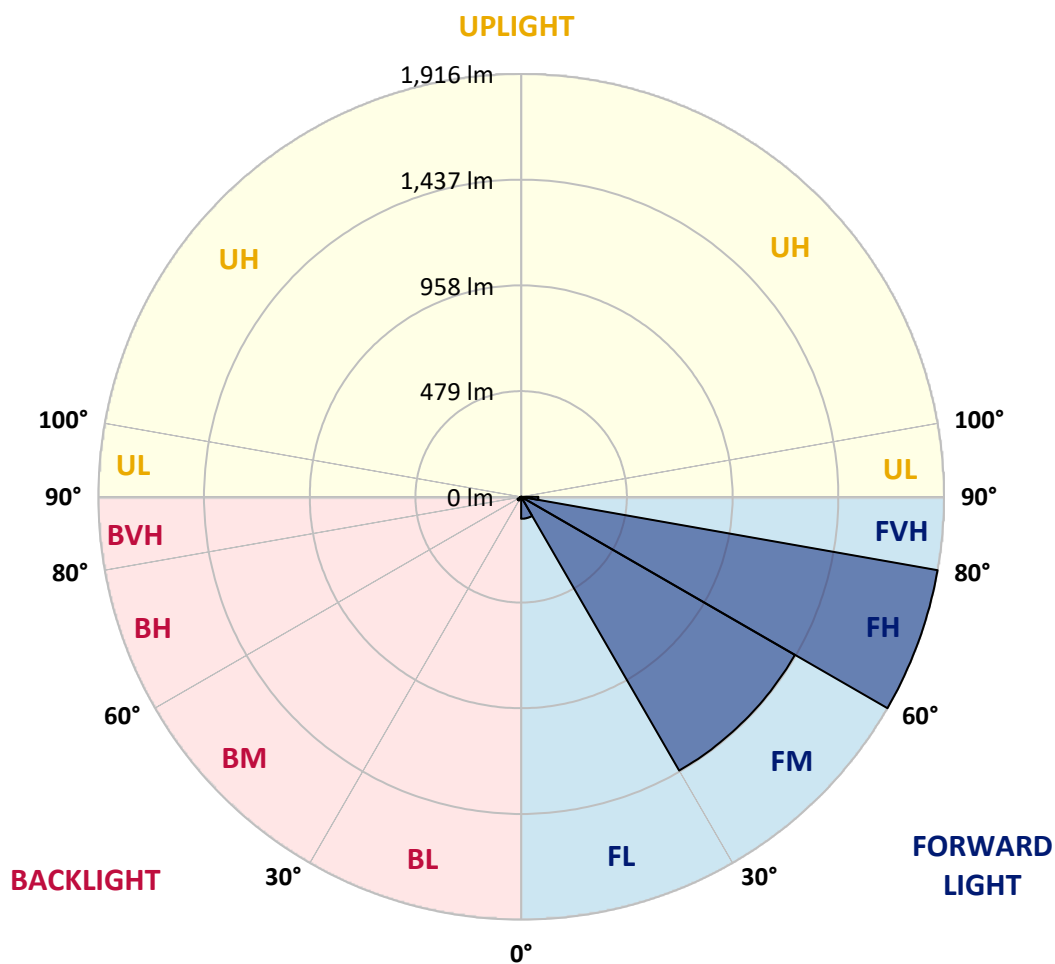
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.7	2.8			
FM	(30°-60°)	1432.7	40.2			
FH	(60°-80°)	1916.4	53.8			G2/5000
FVH	(80°-90°)	78.0	2.2			G1/100
BL	(0°-30°)	10.4	0.3	B0/110		
BM	(30°-60°)	19.7	0.6	B0/220		
BH	(60°-80°)	6.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	45°	48°
0°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	35.9	35.9	35.9	35.9	34.9	33.9	33.9	32.8	32.8	32.8	32.8
5°	52.3	52.3	49.3	48.2	46.2	45.1	43.1	42.1	41.0	39.0	39.0
7.5°	83.1	82.1	82.1	81.1	80.0	78.0	74.9	72.9	69.8	53.4	49.3
10°	105.7	106.7	104.7	103.6	97.5	94.4	90.3	86.2	85.2	78.0	73.9
12.5°	145.7	146.7	144.7	143.7	139.6	136.5	129.3	124.2	103.6	95.4	94.4
15°	208.3	208.3	198.0	177.5	171.4	164.2	152.9	150.8	151.9	138.5	121.1
17.5°	243.2	244.2	241.1	236.0	229.8	222.7	215.5	190.9	177.5	166.2	161.1
20°	331.4	331.4	325.3	315.0	278.1	263.7	262.7	250.4	241.1	212.4	201.1
22.5°	382.7	387.9	380.7	373.5	361.2	365.3	347.8	295.5	296.5	269.9	259.6
25°	502.8	503.8	492.5	484.3	480.2	418.7	402.2	410.4	378.6	344.8	336.6
27.5°	625.9	633.1	565.4	550.0	550.0	536.7	542.8	484.3	476.1	434.0	401.2
30°	718.3	721.4	710.1	683.4	673.1	670.0	616.7	620.8	570.5	505.9	527.4
32.5°	885.5	890.7	869.1	858.9	786.0	758.3	725.5	726.5	664.9	654.7	620.8
35°	1088.7	1093.8	1066.1	978.9	966.6	927.6	909.1	837.3	826.0	772.7	772.7
37.5°	1223.1	1205.7	1180.0	1147.2	1154.4	1103.1	1043.5	1032.3	970.7	930.7	919.4
40°	1323.7	1328.8	1326.8	1310.3	1274.4	1226.2	1206.7	1179.0	1128.7	1088.7	1093.8
42.5°	1410.9	1421.2	1429.4	1405.8	1377.0	1356.5	1328.8	1311.4	1270.3	1220.0	1244.7
45°	1498.1	1506.3	1523.8	1509.4	1488.9	1485.8	1419.1	1435.5	1402.7	1362.7	1403.7
47.5°	1599.7	1607.9	1621.2	1622.3	1620.2	1577.1	1521.7	1546.3	1539.2	1490.9	1548.4
50°	1713.6	1714.6	1738.2	1754.6	1722.8	1689.0	1635.6	1647.9	1659.2	1622.3	1689.0
52.5°	1836.7	1850.1	1867.5	1878.8	1834.7	1818.3	1773.1	1771.1	1794.7	1756.7	1828.5
55°	2023.5	2029.6	2037.8	2041.9	1984.5	1990.6	1925.0	1918.8	1953.7	1912.7	1997.8
57.5°	2258.5	2274.9	2292.3	2284.1	2224.6	2219.5	2130.2	2100.4	2161.0	2136.4	2220.5
60°	2615.5	2630.9	2644.3	2653.5	2620.7	2601.2	2463.7	2442.1	2543.7	2493.4	2594.0
62.5°	2989.0	3005.5	3020.9	3085.5	3051.6	3027.0	2942.9	2942.9	3067.0	3030.1	3126.5
65°	2983.9	3007.5	3042.4	3127.6	3143.0	3131.7	3128.6	3167.6	3360.5	3348.2	3483.6
66°	2928.5	2944.9	2989.0	3075.2	3099.9	3100.9	3126.5	3176.8	3390.3	3376.9	3523.6
67.5°	2799.2	2819.7	2866.9	2969.5	2995.2	3014.7	3081.4	3121.4	3361.5	3353.3	3504.2
70°	2506.8	2516.0	2560.1	2666.8	2728.4	2718.2	2818.7	2834.1	3067.0	3096.8	3203.5
72.5°	1931.1	1918.8	2053.2	2201.0	2301.6	2262.6	2335.4	2339.5	2537.6	2534.5	2619.6
75°	1027.1	1034.3	1118.5	1315.5	1683.8	1695.1	1709.5	1708.5	1869.6	1868.5	1944.5
77.5°	649.5	667.0	698.8	758.3	943.0	1077.4	1129.7	1108.2	1179.0	1203.6	1242.6
80°	262.7	274.0	311.9	409.4	630.0	682.4	698.8	667.0	680.3	647.5	647.5
82.5°	87.2	88.2	100.6	127.2	323.2	451.5	464.8	393.0	386.8	375.6	375.6
85°	47.2	47.2	49.3	66.7	125.2	243.2	266.8	179.6	176.5	149.8	138.5
87.5°	4.1	5.1	4.1	11.3	19.5	36.9	43.1	45.1	51.3	58.5	47.2
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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	32.8	32.8	32.8	33.9	33.9	32.8	31.8	28.7	27.7	25.7	23.6
5°	38.0	36.9	34.9	33.9	32.8	31.8	31.8	29.8	25.7	22.6	19.5
7.5°	48.2	43.1	40.0	38.0	34.9	31.8	30.8	30.8	24.6	20.5	18.5
10°	71.8	69.8	53.4	46.2	42.1	39.0	36.9	38.0	30.8	24.6	23.6
12.5°	92.3	87.2	78.0	61.6	48.2	44.1	40.0	35.9	30.8	24.6	21.5
15°	115.9	103.6	94.4	84.1	68.7	56.4	49.3	46.2	38.0	31.8	27.7
17.5°	156.0	151.9	117.0	102.6	88.2	63.6	55.4	45.1	40.0	30.8	27.7
20°	195.0	179.6	152.9	134.4	114.9	89.3	70.8	59.5	48.2	41.0	36.9
22.5°	247.3	232.9	204.2	160.1	136.5	113.9	81.1	70.8	55.4	46.2	41.0
25°	334.5	287.3	253.4	222.7	185.7	149.8	102.6	77.0	61.6	51.3	45.1
27.5°	402.2	374.5	332.5	284.2	217.5	173.4	129.3	88.2	68.7	56.4	48.2
30°	545.9	453.5	439.2	372.5	285.3	206.2	147.8	101.6	71.8	57.5	49.3
32.5°	634.1	603.4	531.5	458.7	374.5	277.0	185.7	112.9	77.0	58.5	52.3
35°	791.1	716.2	678.3	602.3	487.4	355.0	222.7	134.4	77.0	59.5	51.3
37.5°	953.3	874.2	801.4	723.4	589.0	422.8	268.8	151.9	82.1	56.4	48.2
40°	1085.6	1009.7	910.2	834.2	674.2	493.6	324.2	163.2	79.0	54.4	44.1
42.5°	1235.4	1145.1	1036.4	954.3	772.7	590.0	369.4	191.9	81.1	52.3	40.0
45°	1376.0	1278.5	1168.7	1053.8	868.1	682.4	421.7	208.3	88.2	51.3	35.9
47.5°	1507.3	1404.7	1301.1	1140.0	986.1	779.8	501.8	248.3	94.4	48.2	32.8
50°	1625.4	1527.9	1412.9	1230.3	1082.5	852.7	578.7	277.0	101.6	44.1	29.8
52.5°	1759.8	1659.2	1509.4	1325.7	1171.8	946.1	647.5	316.0	110.8	40.0	26.7
55°	1926.0	1799.8	1655.1	1482.7	1276.5	1066.1	725.5	353.0	123.1	35.9	23.6
57.5°	2132.2	2025.5	1877.8	1675.6	1433.5	1184.1	819.9	400.2	134.4	32.8	21.5
60°	2507.8	2369.3	2229.7	1991.7	1667.4	1372.9	933.8	461.7	152.9	29.8	19.5
62.5°	3040.4	2889.5	2663.8	2319.0	1972.2	1551.5	1045.6	523.3	173.4	26.7	18.5
65°	3379.0	3171.7	2870.0	2421.6	2084.0	1633.6	1054.8	522.3	175.5	24.6	16.4
66°	3427.2	3201.4	2877.2	2403.1	2067.6	1613.0	1030.2	515.1	172.4	22.6	15.4
67.5°	3422.1	3172.7	2823.8	2326.2	1985.5	1540.2	950.2	479.2	163.2	21.5	14.4
70°	3154.2	2905.9	2537.6	2060.4	1736.2	1330.9	816.8	411.5	139.6	18.5	12.3
72.5°	2619.6	2384.7	2051.2	1633.6	1399.6	1052.8	625.9	323.2	109.8	15.4	10.3
75°	1935.2	1710.5	1457.1	1134.9	921.4	665.9	389.9	209.3	71.8	12.3	8.2
77.5°	1207.7	1017.9	772.7	577.7	429.9	277.0	137.5	70.8	30.8	10.3	6.2
80°	637.2	519.2	374.5	270.9	199.1	124.2	63.6	32.8	16.4	8.2	4.1
82.5°	367.3	308.9	228.8	170.3	133.4	87.2	47.2	26.7	12.3	5.1	3.1
85°	132.4	113.9	127.2	96.5	72.9	48.2	33.9	21.5	8.2	4.1	3.1
87.5°	49.3	40.0	35.9	30.8	29.8	29.8	27.7	16.4	5.1	3.1	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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	22.6	20.5	20.5	19.5	19.5	18.5	18.5	18.5	18.5	18.5	19.5
5°	18.5	17.4	17.4	17.4	16.4	16.4	18.5	19.5	20.5	21.5	20.5
7.5°	18.5	17.4	16.4	17.4	19.5	15.4	12.3	11.3	10.3	11.3	11.3
10°	20.5	19.5	21.5	14.4	10.3	9.2	10.3	10.3	10.3	13.3	16.4
12.5°	20.5	21.5	16.4	14.4	14.4	13.3	16.4	14.4	14.4	14.4	14.4
15°	27.7	20.5	17.4	15.4	17.4	18.5	18.5	17.4	15.4	14.4	17.4
17.5°	23.6	21.5	20.5	24.6	22.6	19.5	17.4	19.5	20.5	18.5	16.4
20°	32.8	29.8	28.7	24.6	22.6	22.6	23.6	19.5	18.5	18.5	20.5
22.5°	34.9	31.8	32.8	30.8	29.8	23.6	22.6	21.5	21.5	19.5	19.5
25°	42.1	43.1	38.0	32.8	29.8	27.7	25.7	21.5	21.5	19.5	20.5
27.5°	45.1	42.1	38.0	35.9	32.8	26.7	25.7	22.6	20.5	20.5	18.5
30°	47.2	43.1	40.0	35.9	31.8	28.7	25.7	21.5	19.5	19.5	18.5
32.5°	50.3	45.1	38.0	33.9	30.8	25.7	24.6	20.5	18.5	16.4	16.4
35°	46.2	41.0	35.9	31.8	26.7	23.6	21.5	19.5	16.4	15.4	14.4
37.5°	41.0	35.9	31.8	27.7	24.6	21.5	19.5	16.4	14.4	13.3	12.3
40°	36.9	30.8	27.7	23.6	21.5	18.5	16.4	13.3	11.3	10.3	9.2
42.5°	32.8	26.7	23.6	20.5	17.4	15.4	13.3	10.3	8.2	7.2	6.2
45°	28.7	23.6	19.5	17.4	14.4	12.3	10.3	7.2	5.1	4.1	3.1
47.5°	25.7	20.5	17.4	14.4	12.3	9.2	7.2	4.1	3.1	2.1	1.0
50°	22.6	17.4	14.4	12.3	9.2	7.2	5.1	3.1	2.1	1.0	1.0
52.5°	19.5	15.4	13.3	10.3	8.2	5.1	3.1	2.1	1.0	1.0	0.0
55°	17.4	14.4	11.3	8.2	6.2	4.1	2.1	1.0	1.0	0.0	0.0
57.5°	16.4	13.3	9.2	6.2	5.1	3.1	2.1	1.0	1.0	0.0	0.0
60°	15.4	11.3	7.2	5.1	4.1	2.1	1.0	1.0	1.0	0.0	0.0
62.5°	14.4	9.2	6.2	4.1	3.1	2.1	1.0	1.0	1.0	1.0	0.0
65°	11.3	7.2	4.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
66°	10.3	6.2	4.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
67.5°	9.2	6.2	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
70°	7.2	4.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
72.5°	6.2	4.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
75°	5.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
77.5°	4.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
80°	3.1	3.1	2.1	2.1	2.1	2.1	1.0	2.1	2.1	1.0	1.0
82.5°	3.1	2.1	2.1	2.1	2.1	3.1	1.0	2.1	2.1	2.1	2.1
85°	3.1	2.1	2.1	3.1	3.1	3.1	1.0	3.1	3.1	3.1	2.1
87.5°	3.1	3.1	3.1	3.1	4.1	4.1	2.1	4.1	4.1	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):

	160°	165°	170°	175°	180°
0°	27.7	27.7	27.7	27.7	27.7
2.5°	19.5	20.5	20.5	20.5	20.5
5°	20.5	18.5	19.5	19.5	19.5
7.5°	12.3	12.3	12.3	12.3	12.3
10°	17.4	17.4	17.4	17.4	17.4
12.5°	15.4	16.4	16.4	16.4	16.4
15°	18.5	19.5	19.5	19.5	20.5
17.5°	16.4	16.4	18.5	17.4	18.5
20°	19.5	19.5	19.5	19.5	19.5
22.5°	17.4	17.4	19.5	20.5	20.5
25°	19.5	18.5	18.5	18.5	18.5
27.5°	18.5	19.5	19.5	19.5	19.5
30°	17.4	16.4	17.4	17.4	18.5
32.5°	16.4	16.4	16.4	16.4	16.4
35°	14.4	14.4	14.4	15.4	15.4
37.5°	11.3	11.3	12.3	12.3	12.3
40°	9.2	8.2	8.2	9.2	9.2
42.5°	6.2	5.1	5.1	5.1	5.1
45°	3.1	2.1	2.1	2.1	2.1
47.5°	1.0	1.0	1.0	1.0	1.0
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°	1.0	0.0	0.0	0.0	0.0
67.5°	1.0	0.0	0.0	0.0	0.0
70°	1.0	0.0	0.0	0.0	0.0
72.5°	1.0	1.0	0.0	0.0	0.0
75°	1.0	1.0	0.0	0.0	0.0
77.5°	1.0	1.0	1.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	0.0
85°	2.1	2.1	2.1	2.1	0.0
87.5°	3.1	3.1	3.1	3.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)