

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: P179248

Luminaire Tested: **UTLD-E03-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179248
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E03-LED-E-U-SL2-HSS-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.1 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 75.2
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

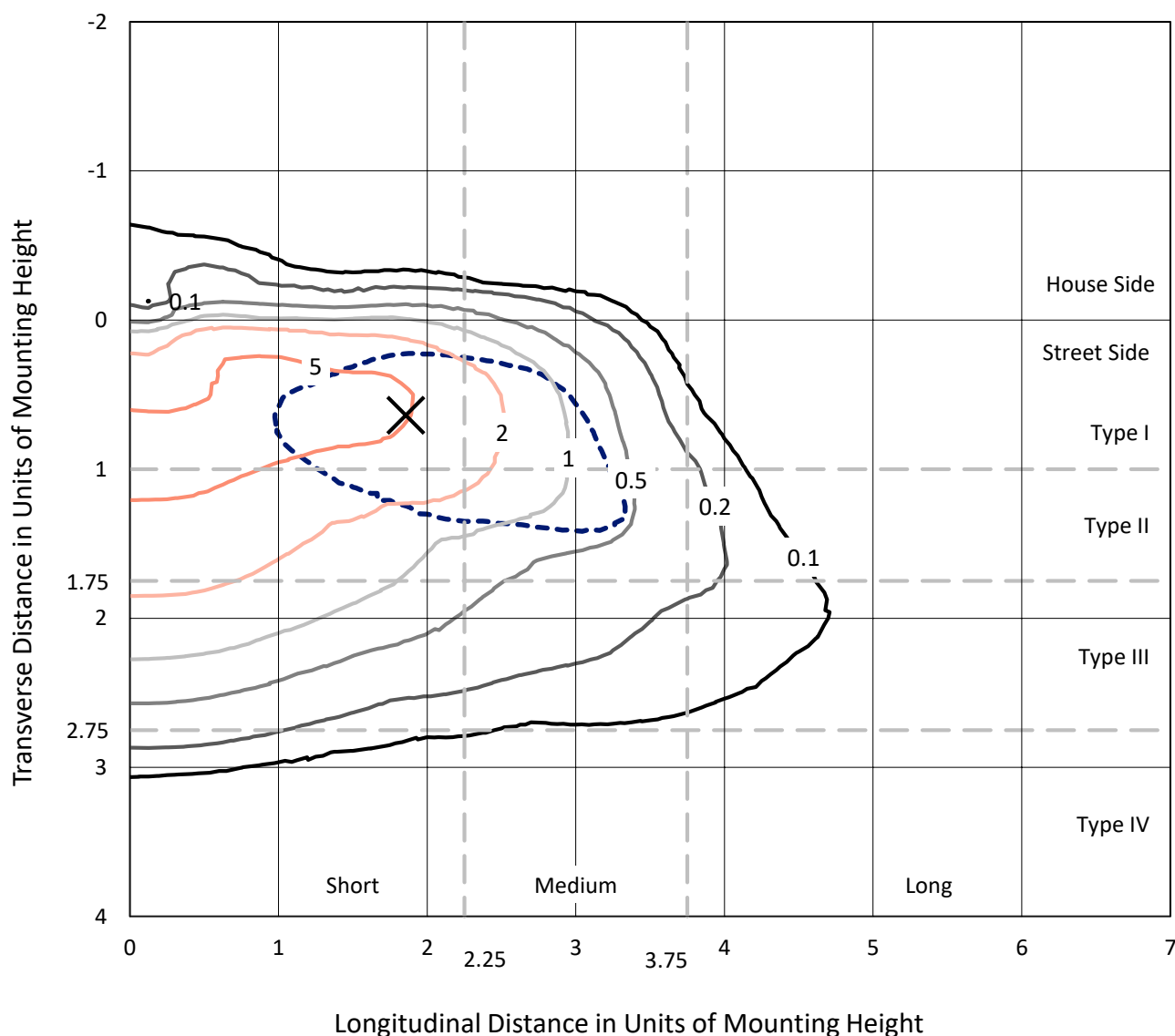


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

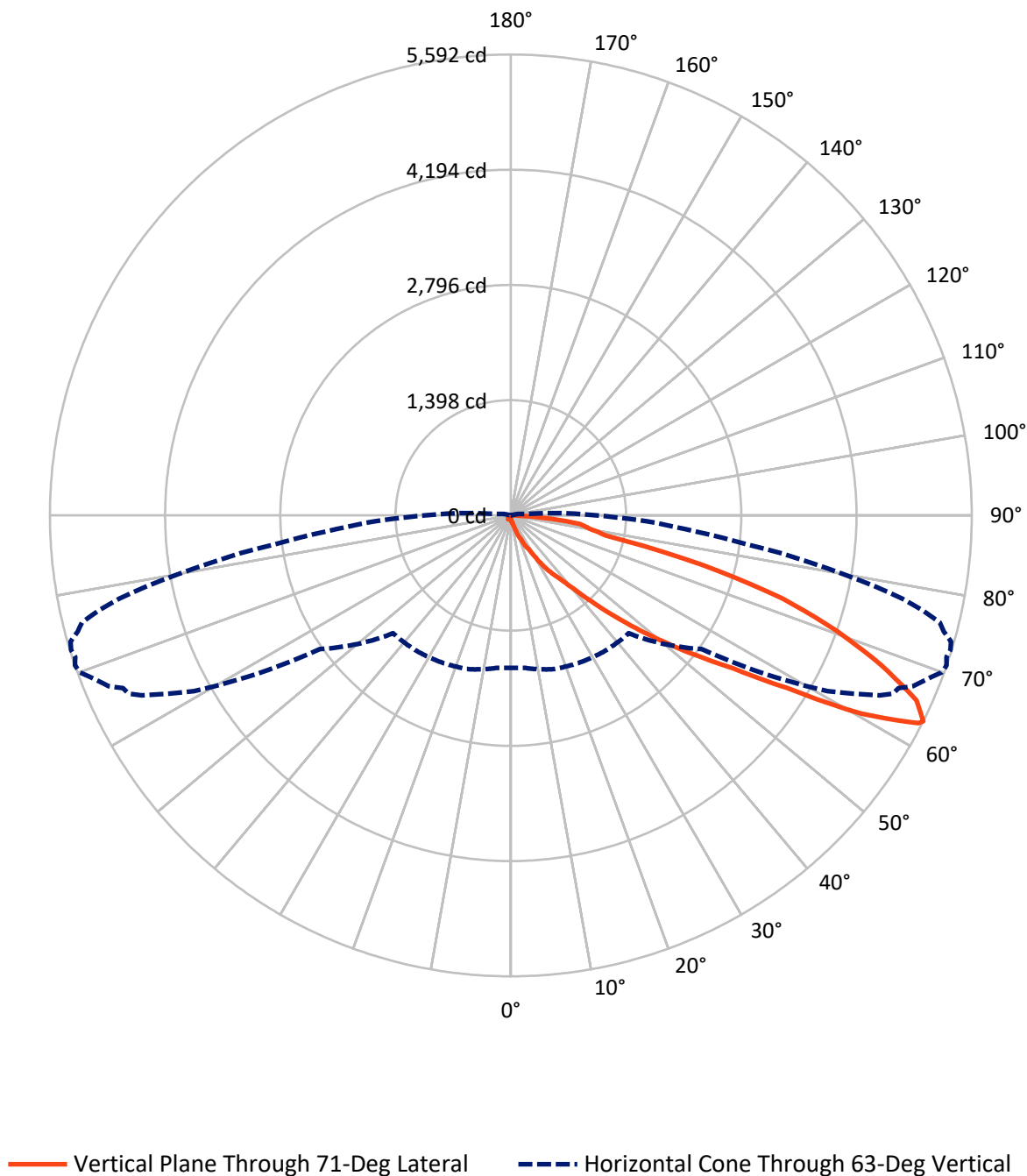


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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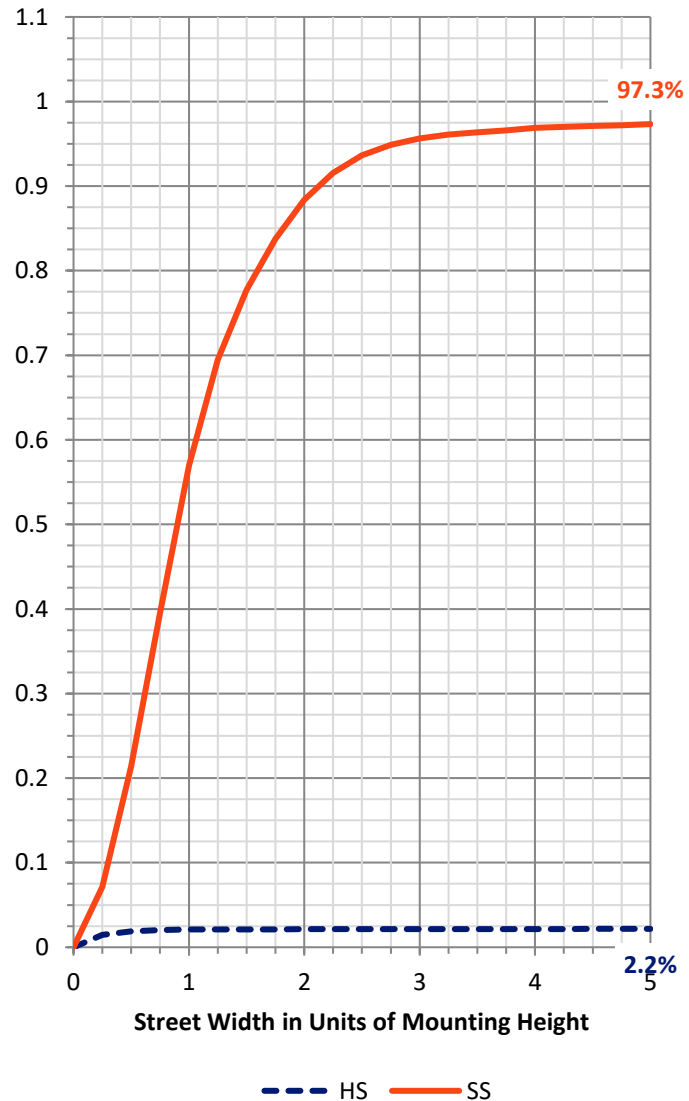
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.2	0.0	91.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4021.0	0.0	4021.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	4112.1	0.0	4112.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	32.6	0.8
20°-30°	99.8	2.4
30°-40°	307.5	7.5
40°-50°	730.7	17.8
50°-60°	1055.8	25.7
60°-70°	1306.5	31.8
70°-80°	496.0	12.1
80°-90°	77.4	1.9
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°	4112.1	100.0
0°-180°	4112.1	100.0

Coefficient of Utilization



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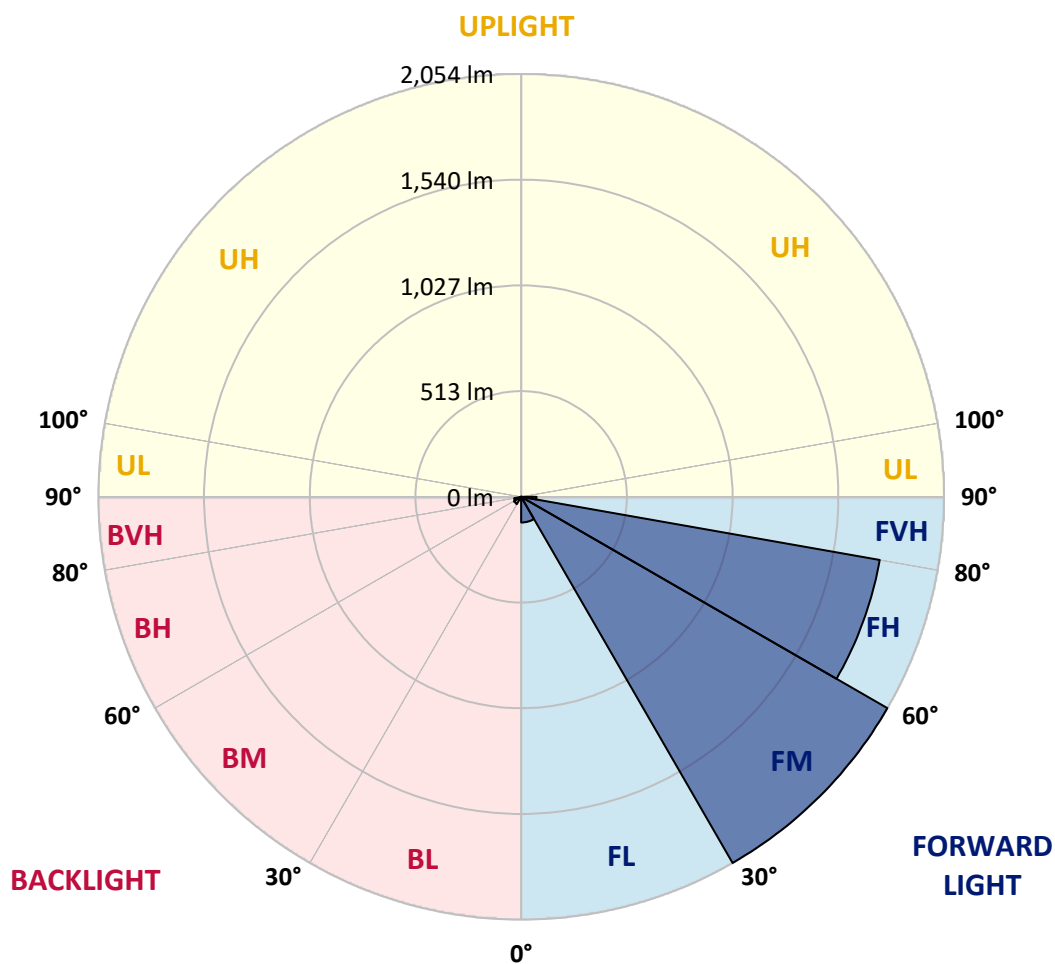
CATALOG NUMBER: UTLD-E03-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.6	3.0			
FM	(30°-60°)	2053.5	49.9			
FH	(60°-80°)	1768.2	43.0			G1/1800
FVH	(80°-90°)	74.6	1.8			G1/100
BL	(0°-30°)	13.6	0.3	B0/110		
BM	(30°-60°)	40.5	1.0	B0/220		
BH	(60°-80°)	34.3	0.8	B0/110		G0/110
BVH	(80°-90°)	2.7	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	78.5	77.2	74.7	74.7	73.4	73.4	72.2	70.9	70.9	70.9	69.6
5°	92.4	91.2	87.4	83.6	83.6	81.0	76.0	74.7	73.4	72.2	72.2
7.5°	150.7	149.4	146.9	143.1	136.7	93.7	83.6	82.3	81.0	79.8	78.5
10°	168.4	168.4	167.1	162.0	155.7	145.6	132.9	96.2	93.7	94.9	98.7
12.5°	226.6	220.3	224.1	217.7	183.6	172.2	176.0	163.3	160.8	159.5	124.1
15°	241.8	235.5	224.1	225.3	230.4	244.3	198.8	187.4	181.0	177.2	177.2
17.5°	265.9	265.9	267.1	267.1	257.0	262.1	258.3	229.1	227.9	222.8	221.5
20°	326.6	324.1	288.6	272.2	300.0	306.4	307.6	264.6	255.7	254.5	262.1
22.5°	345.6	343.1	336.8	343.1	307.6	345.6	397.5	396.3	386.1	381.1	349.4
25°	440.6	436.8	414.0	354.5	378.5	379.8	430.4	434.2	431.7	440.6	467.1
27.5°	508.9	514.0	462.1	424.1	398.8	453.2	548.2	559.6	559.6	546.9	548.2
30°	648.2	645.7	588.7	492.5	481.1	487.4	603.9	643.1	676.0	655.8	678.6
32.5°	931.8	919.1	831.8	655.8	576.0	602.6	724.1	771.0	763.4	752.0	772.3
35°	1341.9	1333.1	1153.3	984.9	828.0	765.9	855.8	934.3	917.8	954.6	968.5
37.5°	1630.6	1607.8	1530.6	1360.9	1207.8	1105.2	1143.2	1112.8	1109.0	1134.3	1131.8
40°	1843.3	1844.5	1818.0	1680.0	1568.6	1511.6	1516.7	1404.0	1396.4	1405.2	1387.5
42.5°	1947.1	1955.9	1977.5	1909.1	1863.5	1869.9	1920.5	1825.6	1821.8	1799.0	1730.6
45°	2010.4	2021.8	2087.6	2110.4	2096.5	2159.8	2297.8	2220.5	2226.9	2247.1	2149.6
47.5°	2018.0	2034.4	2120.5	2188.9	2244.6	2372.5	2583.9	2601.6	2620.6	2637.0	2564.9
50°	1943.3	1949.6	2058.5	2157.2	2239.5	2480.1	2801.6	2911.8	2946.0	2946.0	2885.2
52.5°	1807.8	1816.7	1920.5	2028.1	2106.6	2475.0	2942.2	3142.2	3218.1	3220.7	3133.3
55°	1749.6	1759.7	1838.2	1933.2	1972.4	2352.2	3028.2	3351.1	3430.8	3444.7	3392.8
57.5°	1749.6	1761.0	1824.3	1880.0	1900.2	2209.1	3080.1	3595.4	3685.3	3771.4	3768.8
60°	1828.1	1840.7	1891.4	1887.6	1868.6	2107.9	3057.4	3894.2	4039.8	4184.1	4349.9
62.5°	1873.7	1880.0	1949.6	1969.9	1966.1	2033.2	2878.9	4117.0	4342.3	4552.5	4912.0
63°	1848.3	1855.9	1933.2	1969.9	2002.8	2021.8	2829.5	4141.0	4395.5	4581.6	4980.4
65°	1711.6	1712.9	1795.2	1840.7	2063.6	2020.5	2564.9	4094.2	4405.6	4590.5	5034.8
67.5°	1355.9	1363.5	1420.4	1497.7	1704.0	2050.9	2204.1	3557.4	3872.7	4020.8	4515.8
70°	714.0	745.7	792.5	895.1	1177.4	1742.0	1844.5	2620.6	2925.7	3146.0	3714.4
72.5°	216.5	201.3	262.1	383.6	598.8	1205.2	1617.9	1850.9	2026.8	2245.9	2851.0
75°	97.5	100.0	113.9	163.3	262.1	646.9	1414.1	1520.4	1544.5	1619.2	1986.3
77.5°	55.7	57.0	67.1	92.4	136.7	322.8	1071.0	1363.5	1344.5	1371.1	1438.2
80°	36.7	38.0	48.1	65.8	76.0	158.2	607.7	1063.4	1125.5	1193.8	1243.2
82.5°	20.3	20.3	30.4	53.2	49.4	76.0	239.3	696.3	807.7	878.6	1026.7
85°	8.9	10.1	17.7	35.4	30.4	35.4	115.2	236.7	270.9	284.8	354.5
87.5°	2.5	2.5	5.1	12.7	12.7	16.5	34.2	106.3	112.7	121.5	148.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	69.6	69.6	67.1	65.8	62.0	62.0	59.5	60.8	57.0	55.7	53.2
5°	70.9	70.9	70.9	70.9	69.6	69.6	69.6	69.6	69.6	69.6	68.4
7.5°	77.2	77.2	77.2	77.2	76.0	74.7	72.2	72.2	70.9	70.9	70.9
10°	98.7	97.5	94.9	93.7	92.4	91.2	88.6	89.9	87.4	88.6	86.1
12.5°	117.7	115.2	111.4	107.6	106.3	105.1	102.5	101.3	100.0	102.5	101.3
15°	183.6	182.3	183.6	177.2	144.3	143.1	144.3	141.8	139.3	135.5	130.4
17.5°	219.0	215.2	202.6	197.5	198.8	195.0	184.8	164.6	153.2	148.1	145.6
20°	281.0	282.3	284.8	284.8	279.8	273.5	267.1	265.9	258.3	231.7	221.5
22.5°	336.8	336.8	330.4	324.1	316.5	317.8	308.9	288.6	282.3	274.7	270.9
25°	483.6	476.0	458.3	452.0	445.6	429.2	407.6	396.3	392.5	387.4	370.9
27.5°	546.9	536.8	533.0	525.4	502.6	476.0	467.1	460.8	467.1	436.8	415.2
30°	662.1	660.8	657.0	640.6	612.7	591.2	592.5	586.2	544.4	512.7	492.5
32.5°	779.8	771.0	801.4	771.0	745.7	754.5	743.1	703.9	674.8	641.9	638.1
35°	964.7	964.7	939.4	906.4	910.2	916.6	862.1	821.6	802.6	788.7	760.9
37.5°	1134.3	1126.7	1079.9	1062.2	1082.4	1047.0	986.2	959.6	953.3	929.2	884.9
40°	1364.7	1319.2	1283.7	1279.9	1277.4	1195.1	1160.9	1163.4	1130.5	1082.4	1031.8
42.5°	1681.2	1607.8	1581.2	1583.7	1492.6	1426.8	1414.1	1382.5	1339.4	1285.0	1239.4
45°	2045.8	1974.9	1976.2	1896.4	1781.2	1724.3	1711.6	1662.2	1609.1	1545.8	1479.9
47.5°	2442.1	2391.4	2416.8	2257.3	2156.0	2123.1	2042.0	1964.8	1902.8	1825.6	1743.3
50°	2799.1	2825.7	2770.0	2630.7	2557.3	2513.0	2418.0	2321.8	2242.1	2124.3	2012.9
52.5°	3133.3	3184.0	3096.6	2968.7	2978.9	2894.0	2820.6	2723.1	2616.8	2477.5	2359.8
55°	3467.5	3478.9	3406.8	3365.0	3362.5	3308.0	3275.1	3205.5	3062.4	2921.9	2868.7
57.5°	3889.1	3875.2	3824.5	3890.4	3895.4	3913.2	3948.6	3876.5	3833.4	3730.9	3648.6
60°	4498.0	4486.7	4509.4	4703.1	4742.4	4860.1	4885.4	4888.0	4851.3	4884.2	4684.1
62.5°	5036.1	5081.7	5229.8	5319.7	5412.1	5526.0	5551.4	5504.5	5528.6	5531.1	5375.4
63°	5114.6	5150.0	5303.2	5380.4	5469.1	5564.0	5591.9	5556.4	5577.9	5556.4	5438.7
65°	5148.8	5165.2	5345.0	5324.7	5437.4	5479.2	5408.3	5394.4	5474.1	5360.2	5338.7
67.5°	4643.6	4743.7	4863.9	4863.9	4951.3	4942.4	4847.5	4867.7	4869.0	4824.7	4813.3
70°	3882.8	4085.3	4110.7	4201.8	4262.6	4209.4	4189.1	4203.1	4096.7	4120.8	4014.4
72.5°	3089.0	3306.8	3347.3	3516.9	3534.6	3414.4	3443.5	3359.9	3243.5	3171.3	3024.4
75°	2248.4	2386.4	2506.7	2554.8	2556.0	2442.1	2392.7	2200.3	2029.4	1824.3	1769.8
77.5°	1569.8	1554.6	1600.2	1573.6	1395.1	1338.1	1177.4	1083.7	996.3	844.4	760.9
80°	1268.5	1254.6	1276.1	1219.1	1141.9	1077.4	962.1	876.1	778.6	712.8	611.5
82.5°	1082.4	1139.4	1153.3	1072.3	1033.0	978.6	845.7	752.0	657.0	572.2	492.5
85°	412.7	492.5	486.1	506.4	507.7	479.8	422.8	335.5	265.9	215.2	174.7
87.5°	159.5	178.5	167.1	165.8	167.1	153.2	130.4	115.2	97.5	78.5	65.8
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	51.9	49.4	49.4	46.8	46.8	45.6	45.6	44.3	44.3	43.0	43.0
5°	68.4	68.4	67.1	64.6	58.2	55.7	50.6	46.8	45.6	44.3	43.0
7.5°	70.9	70.9	69.6	69.6	68.4	67.1	65.8	62.0	55.7	50.6	46.8
10°	86.1	83.6	84.8	87.4	86.1	86.1	84.8	83.6	81.0	78.5	63.3
12.5°	100.0	98.7	96.2	91.2	88.6	87.4	87.4	86.1	84.8	83.6	81.0
15°	126.6	122.8	121.5	117.7	115.2	111.4	112.7	111.4	108.9	103.8	92.4
17.5°	140.5	138.0	134.2	135.5	132.9	125.3	112.7	108.9	105.1	101.3	97.5
20°	217.7	214.0	206.4	193.7	178.5	170.9	164.6	158.2	159.5	158.2	148.1
22.5°	254.5	231.7	217.7	207.6	203.8	203.8	198.8	201.3	184.8	179.8	158.2
25°	341.8	325.4	307.6	297.5	292.4	281.0	259.5	244.3	227.9	222.8	206.4
27.5°	408.9	393.7	393.7	377.3	349.4	327.9	306.4	293.7	273.5	259.5	241.8
30°	492.5	473.5	449.4	419.0	392.5	372.2	357.0	326.6	307.6	288.6	253.2
32.5°	615.3	579.8	549.4	521.6	497.5	457.0	433.0	407.6	368.4	327.9	310.2
35°	729.2	684.9	650.7	621.6	572.2	544.4	507.7	450.7	408.9	388.7	348.1
37.5°	840.6	798.8	765.9	709.0	664.6	617.8	557.0	515.3	478.5	427.9	372.2
40°	986.2	939.4	872.3	822.9	764.7	686.2	640.6	589.9	527.9	465.9	419.0
42.5°	1177.4	1102.7	1048.2	986.2	879.9	829.2	767.2	677.3	598.8	543.1	465.9
45°	1407.8	1330.6	1272.3	1150.8	1073.6	996.3	902.6	797.6	719.1	631.7	565.9
47.5°	1652.1	1598.9	1474.9	1353.3	1277.4	1162.2	1054.6	945.7	836.8	759.6	640.6
50°	1957.2	1823.0	1686.3	1598.9	1476.1	1347.0	1220.4	1082.4	987.5	868.5	753.3
52.5°	2262.3	2077.5	1978.7	1849.6	1682.5	1534.4	1387.5	1253.3	1119.1	991.3	854.5
55°	2673.8	2488.9	2340.8	2154.7	1964.8	1795.2	1643.3	1477.4	1330.6	1166.0	1016.6
57.5°	3425.8	3221.9	3009.2	2730.7	2499.1	2294.0	2088.9	1892.6	1673.6	1496.4	1315.4
60°	4550.0	4336.0	4043.6	3718.2	3359.9	3040.9	2748.5	2454.7	2183.8	1966.1	1686.3
62.5°	5289.3	5069.0	4798.1	4412.0	4033.4	3610.6	3246.0	2838.3	2535.8	2223.1	1964.8
63°	5362.7	5128.5	4856.3	4490.5	4090.4	3694.1	3324.5	2880.1	2570.0	2256.0	1988.9
65°	5250.0	5104.5	4851.3	4544.9	4234.7	3848.6	3444.7	3008.0	2657.3	2338.3	2025.6
67.5°	4691.7	4624.6	4460.1	4293.0	4015.7	3747.3	3377.7	2992.8	2620.6	2318.0	2029.4
70°	3973.9	3881.5	3752.4	3685.3	3494.1	3266.2	3011.8	2710.5	2442.1	2144.6	1882.5
72.5°	2970.0	2787.7	2683.9	2571.2	2449.7	2290.2	2142.0	1972.4	1754.7	1596.4	1333.1
75°	1554.6	1352.1	1214.1	1052.0	921.6	788.7	717.8	669.7	596.3	515.3	455.8
77.5°	630.5	526.7	425.4	362.1	272.2	217.7	186.1	164.6	151.9	135.5	125.3
80°	529.2	422.8	340.6	258.3	189.9	138.0	102.5	79.8	68.4	59.5	54.4
82.5°	427.9	367.1	305.1	240.5	184.8	149.4	110.1	78.5	57.0	45.6	39.2
85°	136.7	120.3	93.7	78.5	64.6	54.4	45.6	36.7	32.9	30.4	27.9
87.5°	57.0	44.3	40.5	36.7	35.4	34.2	34.2	31.6	29.1	25.3	22.8
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	41.8	41.8	40.5	41.8	39.2	36.7	35.4	34.2	32.9	32.9	32.9
5°	43.0	41.8	40.5	39.2	35.4	32.9	30.4	27.9	31.6	27.9	19.0
7.5°	44.3	43.0	40.5	39.2	35.4	31.6	29.1	17.7	11.4	11.4	12.7
10°	59.5	55.7	54.4	50.6	46.8	34.2	21.5	11.4	10.1	15.2	17.7
12.5°	64.6	60.8	57.0	53.2	44.3	36.7	17.7	15.2	19.0	15.2	16.5
15°	87.4	74.7	70.9	67.1	59.5	43.0	20.3	20.3	19.0	16.5	19.0
17.5°	96.2	82.3	78.5	76.0	58.2	27.9	22.8	24.1	19.0	21.5	17.7
20°	139.3	124.1	112.7	107.6	78.5	40.5	31.6	22.8	24.1	19.0	21.5
22.5°	159.5	148.1	136.7	134.2	88.6	44.3	36.7	31.6	22.8	22.8	20.3
25°	197.5	182.3	163.3	146.9	93.7	55.7	44.3	31.6	26.6	21.5	20.3
27.5°	224.1	198.8	182.3	172.2	101.3	58.2	43.0	35.4	26.6	20.3	17.7
30°	234.2	220.3	197.5	172.2	102.5	60.8	45.6	34.2	26.6	20.3	19.0
32.5°	286.1	254.5	221.5	202.6	110.1	64.6	44.3	34.2	25.3	19.0	17.7
35°	306.4	276.0	240.5	214.0	115.2	62.0	43.0	30.4	22.8	17.7	13.9
37.5°	339.3	295.0	260.8	227.9	116.5	58.2	39.2	29.1	20.3	15.2	12.7
40°	363.3	326.6	276.0	239.3	116.5	54.4	36.7	25.3	17.7	12.7	10.1
42.5°	420.3	355.7	305.1	262.1	119.0	49.4	32.9	21.5	15.2	8.9	7.6
45°	481.1	419.0	351.9	300.0	121.5	45.6	29.1	19.0	11.4	6.3	3.8
47.5°	567.2	486.1	410.2	344.3	122.8	41.8	26.6	16.5	8.9	3.8	2.5
50°	649.5	562.1	469.7	402.6	125.3	38.0	22.8	13.9	6.3	2.5	1.3
52.5°	745.7	638.1	544.4	449.4	126.6	35.4	20.3	11.4	3.8	1.3	0.0
55°	882.4	768.5	636.8	536.8	129.1	31.6	16.5	8.9	2.5	1.3	0.0
57.5°	1154.6	1000.1	838.1	693.8	141.8	27.9	13.9	6.3	1.3	1.3	0.0
60°	1486.3	1314.1	1100.1	891.3	167.1	24.1	11.4	3.8	1.3	0.0	0.0
62.5°	1726.8	1505.3	1250.8	1025.4	184.8	20.3	10.1	2.5	1.3	1.3	0.0
63°	1766.1	1526.8	1262.2	1034.3	186.1	20.3	8.9	2.5	1.3	0.0	0.0
65°	1795.2	1547.0	1277.4	1048.2	189.9	17.7	7.6	2.5	1.3	1.3	0.0
67.5°	1771.1	1502.7	1240.7	1021.7	192.4	15.2	6.3	2.5	1.3	1.3	1.3
70°	1606.5	1367.3	1138.1	933.0	178.5	12.7	5.1	2.5	1.3	1.3	1.3
72.5°	1154.6	1029.2	819.1	673.5	136.7	11.4	5.1	3.8	1.3	2.5	2.5
75°	388.7	348.1	289.9	257.0	79.8	7.6	3.8	3.8	1.3	2.5	2.5
77.5°	111.4	103.8	89.9	82.3	40.5	6.3	3.8	3.8	1.3	3.8	3.8
80°	48.1	44.3	39.2	34.2	17.7	5.1	3.8	5.1	1.3	5.1	3.8
82.5°	35.4	31.6	27.9	22.8	10.1	5.1	5.1	6.3	1.3	5.1	5.1
85°	25.3	22.8	19.0	16.5	7.6	5.1	5.1	6.3	2.5	6.3	6.3
87.5°	20.3	17.7	15.2	11.4	7.6	5.1	5.1	7.6	2.5	7.6	6.3
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):

	165°	175°	180°
0°	41.8	41.8	41.8
2.5°	32.9	34.2	34.2
5°	16.5	17.7	17.7
7.5°	13.9	15.2	15.2
10°	19.0	19.0	19.0
12.5°	17.7	19.0	19.0
15°	20.3	21.5	21.5
17.5°	17.7	22.8	24.1
20°	20.3	20.3	20.3
22.5°	20.3	21.5	21.5
25°	19.0	19.0	19.0
27.5°	19.0	19.0	19.0
30°	16.5	19.0	19.0
32.5°	16.5	16.5	16.5
35°	15.2	15.2	15.2
37.5°	12.7	13.9	13.9
40°	10.1	10.1	10.1
42.5°	6.3	6.3	6.3
45°	3.8	3.8	3.8
47.5°	2.5	2.5	2.5
50°	1.3	1.3	1.3
52.5°	1.3	1.3	1.3
55°	0.0	1.3	1.3
57.5°	0.0	0.0	1.3
60°	0.0	0.0	1.3
62.5°	0.0	0.0	1.3
63°	0.0	0.0	1.3
65°	1.3	0.0	1.3
67.5°	1.3	1.3	1.3
70°	1.3	1.3	1.3
72.5°	2.5	1.3	2.5
75°	2.5	2.5	2.5
77.5°	3.8	2.5	2.5
80°	3.8	3.8	2.5
82.5°	5.1	3.8	1.3
85°	5.1	5.1	2.5
87.5°	6.3	6.3	2.5
90°	0.0	0.0	0.0

(END OF REPORT)