

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: P179251

Luminaire Tested: **UTLD-E03-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179251
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-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.4 lumens
Efficiency: N/A
Efficacy: 66.5 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 - G2

Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): 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

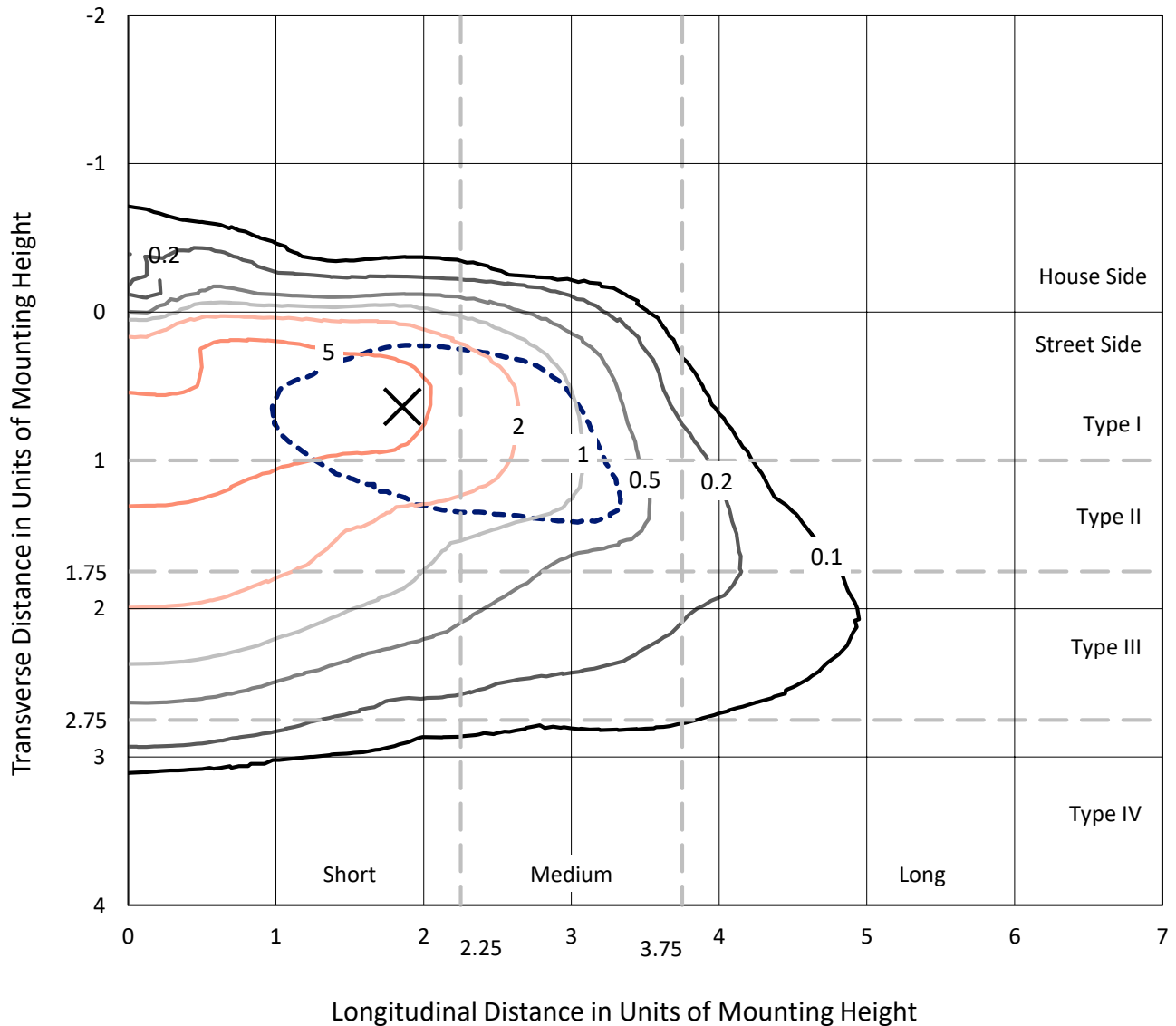


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

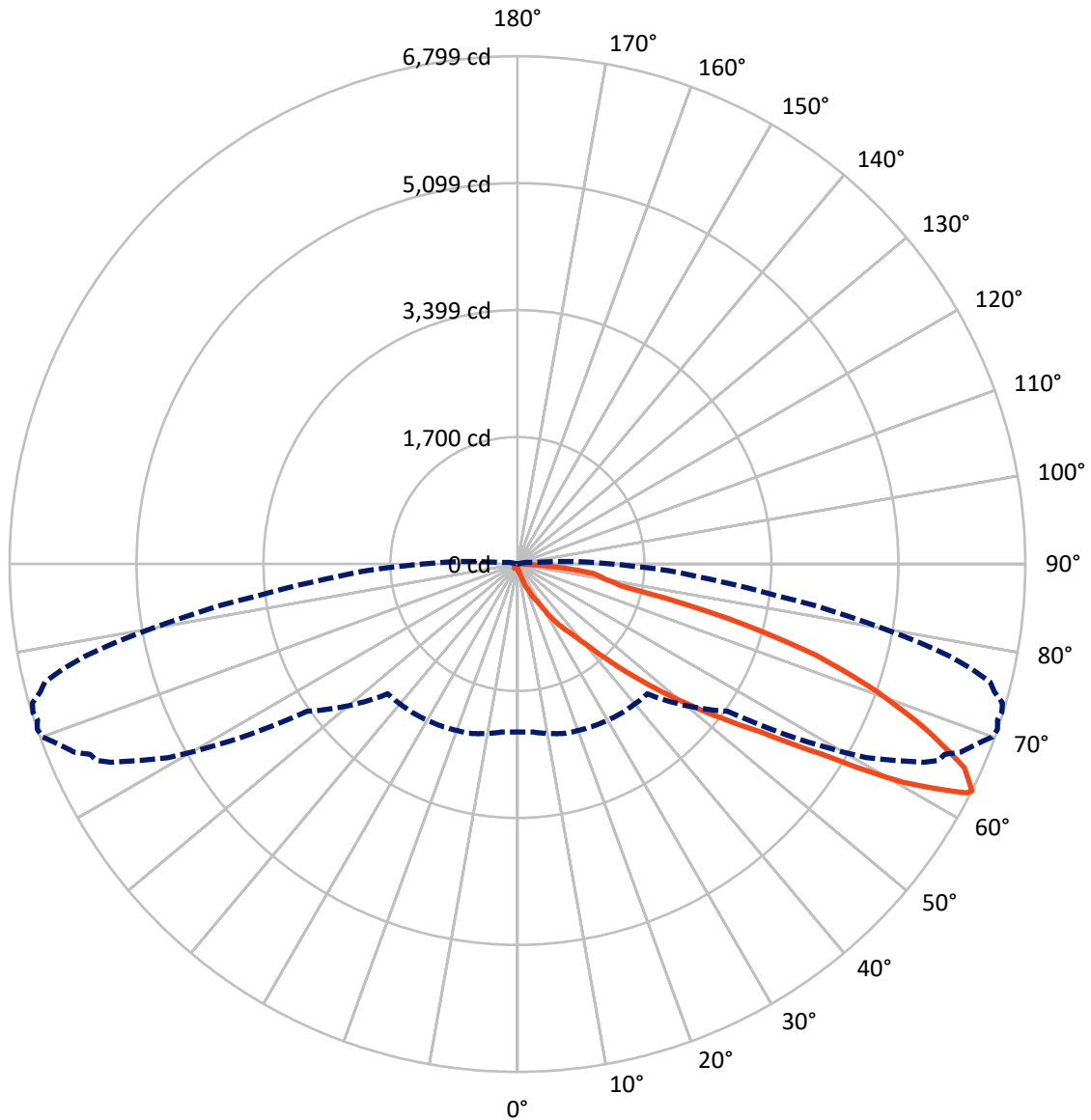


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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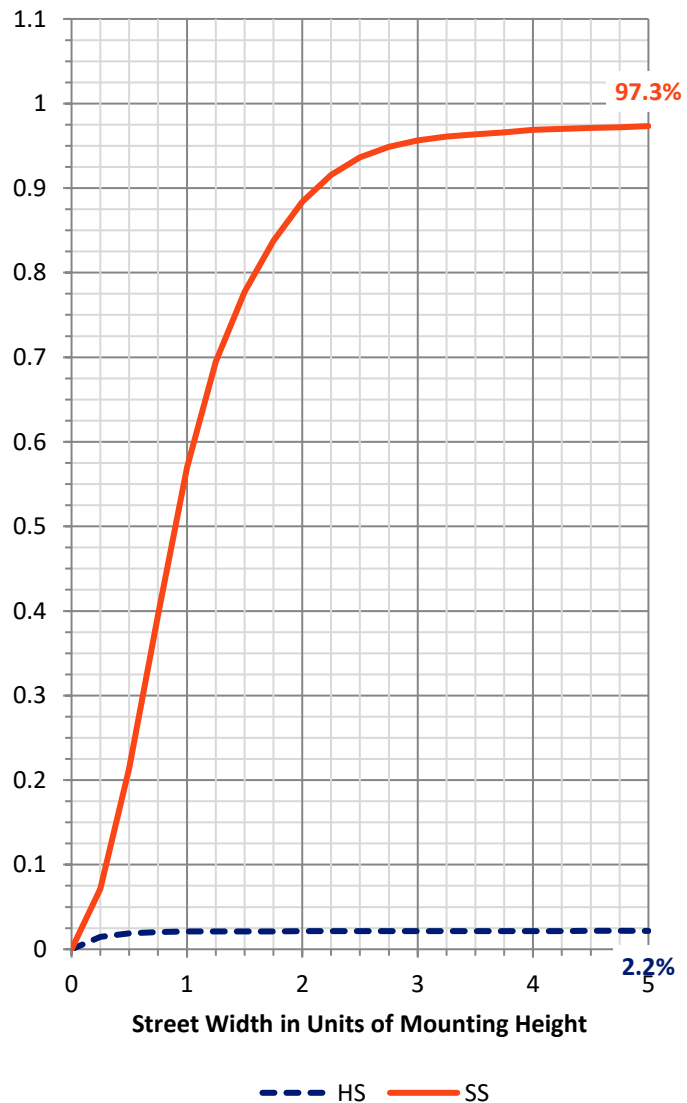
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.8	0.0	110.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4888.6	0.0	4888.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	4999.4	0.0	4999.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	39.6	0.8
20°-30°	121.3	2.4
30°-40°	373.9	7.5
40°-50°	888.4	17.8
50°-60°	1283.6	25.7
60°-70°	1588.4	31.8
70°-80°	603.1	12.1
80°-90°	94.1	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°	4999.4	100.0
0°-180°	4999.4	100.0

Coefficient of Utilization



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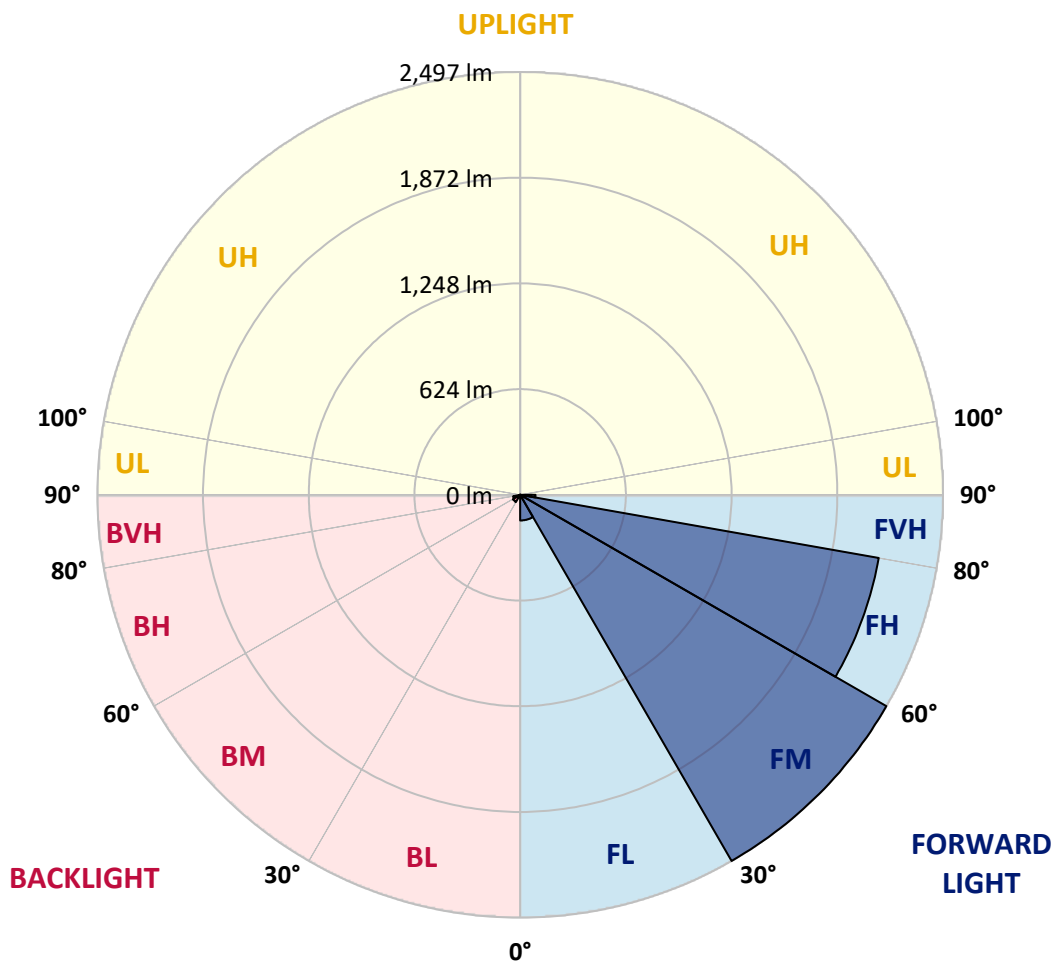
CATALOG NUMBER: UTLD-E03-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.5	3.0			
FM	(30°-60°)	2496.6	49.9			
FH	(60°-80°)	2149.7	43.0			G2/5000
FVH	(80°-90°)	90.7	1.8			G1/100
BL	(0°-30°)	16.5	0.3	B0/110		
BM	(30°-60°)	49.3	1.0	B0/220		
BH	(60°-80°)	41.7	0.8	B0/110		G0/110
BVH	(80°-90°)	3.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	95.4	93.9	90.8	90.8	89.3	89.3	87.7	86.2	86.2	86.2	84.7
5°	112.4	110.8	106.2	101.6	101.6	98.5	92.3	90.8	89.3	87.7	87.7
7.5°	183.2	181.6	178.5	173.9	166.2	113.9	101.6	100.0	98.5	97.0	95.4
10°	204.7	204.7	203.2	197.0	189.3	177.0	161.6	117.0	113.9	115.4	120.1
12.5°	275.5	267.8	272.4	264.7	223.2	209.3	213.9	198.6	195.5	193.9	150.8
15°	294.0	286.3	272.4	274.0	280.1	297.1	241.6	227.8	220.1	215.5	215.5
17.5°	323.2	323.2	324.8	324.8	312.4	318.6	314.0	278.6	277.0	270.9	269.4
20°	397.1	394.0	350.9	330.9	364.8	372.5	374.0	321.7	310.9	309.4	318.6
22.5°	420.2	417.1	409.4	417.1	374.0	420.2	483.3	481.8	469.4	463.3	424.8
25°	535.6	531.0	503.3	431.0	460.2	461.7	523.3	527.9	524.9	535.6	567.9
27.5°	618.7	624.9	561.8	515.6	484.8	551.0	666.5	680.3	680.3	664.9	666.5
30°	788.0	785.0	715.7	598.7	584.9	592.6	734.2	781.9	821.9	797.3	825.0
32.5°	1132.8	1117.4	1011.2	797.3	700.3	732.6	880.4	937.3	928.1	914.3	938.9
35°	1631.5	1620.7	1402.2	1197.5	1006.6	931.2	1040.5	1135.9	1115.9	1160.5	1177.5
37.5°	1982.4	1954.7	1860.8	1654.6	1468.4	1343.7	1389.9	1352.9	1348.3	1379.1	1376.0
40°	2241.0	2242.6	2210.2	2042.5	1907.0	1837.8	1843.9	1706.9	1697.7	1708.5	1686.9
42.5°	2367.2	2378.0	2404.2	2321.1	2265.6	2273.3	2334.9	2219.5	2214.8	2187.1	2104.0
45°	2444.2	2458.0	2538.1	2565.8	2548.8	2625.8	2793.6	2699.7	2707.4	2732.0	2613.5
47.5°	2453.4	2473.4	2578.1	2661.2	2728.9	2884.4	3141.4	3163.0	3186.1	3206.1	3118.3
50°	2362.6	2370.3	2502.7	2622.7	2722.8	3015.2	3406.2	3540.1	3581.6	3581.6	3507.7
52.5°	2197.9	2208.7	2334.9	2465.7	2561.2	3009.1	3577.0	3820.2	3912.5	3915.6	3809.4
55°	2127.1	2139.4	2234.9	2350.3	2398.0	2859.8	3681.7	4074.2	4171.1	4188.0	4124.9
57.5°	2127.1	2141.0	2217.9	2285.6	2310.3	2685.8	3744.8	4371.2	4480.5	4585.2	4582.1
60°	2222.5	2237.9	2299.5	2294.9	2271.8	2562.7	3717.1	4734.5	4911.5	5086.9	5288.5
62.5°	2278.0	2285.6	2370.3	2394.9	2390.3	2471.9	3500.0	5005.3	5279.3	5534.8	5971.9
63°	2247.2	2256.4	2350.3	2394.9	2434.9	2458.0	3440.0	5034.6	5344.0	5570.2	6055.0
65°	2080.9	2082.5	2182.5	2237.9	2508.8	2456.5	3118.3	4977.6	5356.3	5581.0	6121.2
67.5°	1648.4	1657.7	1726.9	1820.8	2071.7	2493.4	2679.7	4325.0	4708.3	4888.4	5490.2
70°	868.1	906.6	963.5	1088.2	1431.4	2117.9	2242.6	3186.1	3557.0	3824.8	4515.9
72.5°	263.2	244.7	318.6	466.4	728.0	1465.3	1967.0	2250.2	2464.2	2730.5	3466.2
75°	118.5	121.6	138.5	198.6	318.6	786.5	1719.2	1848.5	1877.8	1968.6	2414.9
77.5°	67.7	69.3	81.6	112.4	166.2	392.5	1302.1	1657.7	1634.6	1666.9	1748.5
80°	44.6	46.2	58.5	80.0	92.3	192.4	738.8	1292.9	1368.3	1451.4	1511.5
82.5°	24.6	24.6	36.9	64.6	60.0	92.3	290.9	846.5	982.0	1068.2	1248.3
85°	10.8	12.3	21.5	43.1	36.9	43.1	140.1	287.8	329.4	346.3	431.0
87.5°	3.1	3.1	6.2	15.4	15.4	20.0	41.6	129.3	137.0	147.8	180.1
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°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	84.7	84.7	81.6	80.0	75.4	75.4	72.3	73.9	69.3	67.7	64.6
5°	86.2	86.2	86.2	86.2	84.7	84.7	84.7	84.7	84.7	84.7	83.1
7.5°	93.9	93.9	93.9	93.9	92.3	90.8	87.7	87.7	86.2	86.2	86.2
10°	120.1	118.5	115.4	113.9	112.4	110.8	107.7	109.3	106.2	107.7	104.7
12.5°	143.1	140.1	135.4	130.8	129.3	127.8	124.7	123.1	121.6	124.7	123.1
15°	223.2	221.6	223.2	215.5	175.5	173.9	175.5	172.4	169.3	164.7	158.5
17.5°	266.3	261.7	246.3	240.1	241.6	237.0	224.7	200.1	186.2	180.1	177.0
20°	341.7	343.2	346.3	346.3	340.2	332.5	324.8	323.2	314.0	281.7	269.4
22.5°	409.4	409.4	401.7	394.0	384.8	386.3	375.6	350.9	343.2	334.0	329.4
25°	588.0	578.7	557.2	549.5	541.8	521.8	495.6	481.8	477.1	471.0	451.0
27.5°	664.9	652.6	648.0	638.8	611.0	578.7	567.9	560.3	567.9	531.0	504.8
30°	805.0	803.4	798.8	778.8	745.0	718.8	720.3	712.6	661.8	623.4	598.7
32.5°	948.1	937.3	974.3	937.3	906.6	917.3	903.5	855.8	820.4	780.4	775.7
35°	1172.8	1172.8	1142.1	1102.0	1106.7	1114.4	1048.2	998.9	975.8	958.9	925.0
37.5°	1379.1	1369.9	1312.9	1291.4	1316.0	1272.9	1199.0	1166.7	1159.0	1129.7	1075.9
40°	1659.2	1603.8	1560.7	1556.1	1553.0	1453.0	1411.4	1414.5	1374.5	1316.0	1254.4
42.5°	2044.0	1954.7	1922.4	1925.5	1814.7	1734.6	1719.2	1680.8	1628.4	1562.2	1506.8
45°	2487.3	2401.1	2402.6	2305.7	2165.6	2096.3	2080.9	2020.9	1956.3	1879.3	1799.3
47.5°	2969.0	2907.5	2938.3	2744.3	2621.2	2581.2	2482.7	2388.8	2313.4	2219.5	2119.4
50°	3403.1	3435.4	3367.7	3198.4	3109.1	3055.2	2939.8	2822.8	2725.8	2582.7	2447.3
52.5°	3809.4	3871.0	3764.8	3609.3	3621.6	3518.5	3429.2	3310.7	3181.4	3012.1	2869.0
55°	4215.8	4229.6	4141.9	4091.1	4088.0	4021.8	3981.8	3897.1	3723.2	3552.4	3487.7
57.5°	4728.3	4711.4	4649.8	4729.8	4736.0	4757.5	4800.6	4712.9	4660.6	4535.9	4435.9
60°	5468.6	5454.8	5482.5	5718.0	5765.7	5908.8	5939.6	5942.7	5898.1	5938.1	5694.9
62.5°	6122.8	6178.2	6358.3	6467.5	6579.9	6718.4	6749.2	6692.3	6721.5	6724.6	6535.3
63°	6218.2	6261.3	6447.5	6541.4	6649.2	6764.6	6798.5	6755.4	6781.5	6755.4	6612.2
65°	6259.8	6279.8	6498.3	6473.7	6610.7	6661.5	6575.3	6558.4	6655.3	6516.8	6490.6
67.5°	5645.6	5767.2	5913.4	5913.4	6019.6	6008.9	5893.4	5918.1	5919.6	5865.7	5851.9
70°	4720.6	4966.9	4997.6	5108.5	5182.3	5117.7	5093.1	5110.0	4980.7	5010.0	4880.7
72.5°	3755.5	4020.3	4069.5	4275.8	4297.3	4151.1	4186.5	4084.9	3943.3	3855.6	3677.0
75°	2733.5	2901.3	3047.5	3106.0	3107.6	2969.0	2909.0	2675.1	2467.3	2217.9	2151.7
77.5°	1908.6	1890.1	1945.5	1913.2	1696.2	1626.9	1431.4	1317.5	1211.3	1026.6	925.0
80°	1542.2	1525.3	1551.5	1482.2	1388.3	1309.8	1169.8	1065.1	946.6	866.5	743.4
82.5°	1316.0	1385.2	1402.2	1303.7	1256.0	1189.8	1028.2	914.3	798.8	695.7	598.7
85°	501.8	598.7	591.0	615.7	617.2	583.3	514.1	407.9	323.2	261.7	212.4
87.5°	193.9	217.0	203.2	201.6	203.2	186.2	158.5	140.1	118.5	95.4	80.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	63.1	60.0	60.0	56.9	56.9	55.4	55.4	53.9	53.9	52.3	52.3
5°	83.1	83.1	81.6	78.5	70.8	67.7	61.6	56.9	55.4	53.9	52.3
7.5°	86.2	86.2	84.7	84.7	83.1	81.6	80.0	75.4	67.7	61.6	56.9
10°	104.7	101.6	103.1	106.2	104.7	104.7	103.1	101.6	98.5	95.4	77.0
12.5°	121.6	120.1	117.0	110.8	107.7	106.2	106.2	104.7	103.1	101.6	98.5
15°	153.9	149.3	147.8	143.1	140.1	135.4	137.0	135.4	132.4	126.2	112.4
17.5°	170.8	167.8	163.2	164.7	161.6	152.4	137.0	132.4	127.8	123.1	118.5
20°	264.7	260.1	250.9	235.5	217.0	207.8	200.1	192.4	193.9	192.4	180.1
22.5°	309.4	281.7	264.7	252.4	247.8	247.8	241.6	244.7	224.7	218.6	192.4
25°	415.6	395.6	374.0	361.7	355.5	341.7	315.5	297.1	277.0	270.9	250.9
27.5°	497.1	478.7	478.7	458.7	424.8	398.6	372.5	357.1	332.5	315.5	294.0
30°	598.7	575.6	546.4	509.5	477.1	452.5	434.0	397.1	374.0	350.9	307.8
32.5°	748.0	704.9	668.0	634.1	604.9	555.6	526.4	495.6	447.9	398.6	377.1
35°	886.6	832.7	791.1	755.7	695.7	661.8	617.2	547.9	497.1	472.5	423.3
37.5°	1022.0	971.2	931.2	861.9	808.1	751.1	677.2	626.4	581.8	520.2	452.5
40°	1199.0	1142.1	1060.5	1000.5	929.7	834.2	778.8	717.2	641.8	566.4	509.5
42.5°	1431.4	1340.6	1274.4	1199.0	1069.7	1008.1	932.7	823.4	728.0	660.3	566.4
45°	1711.5	1617.7	1546.9	1399.1	1305.2	1211.3	1097.4	969.7	874.2	768.0	688.0
47.5°	2008.6	1944.0	1793.1	1645.4	1553.0	1412.9	1282.1	1149.8	1017.4	923.5	778.8
50°	2379.5	2216.4	2050.2	1944.0	1794.7	1637.7	1483.7	1316.0	1200.5	1055.9	915.8
52.5°	2750.5	2525.8	2405.7	2248.7	2045.5	1865.5	1686.9	1523.8	1360.6	1205.2	1038.9
55°	3250.7	3026.0	2845.9	2619.6	2388.8	2182.5	1997.8	1796.2	1617.7	1417.6	1235.9
57.5°	4165.0	3917.2	3658.6	3320.0	3038.3	2789.0	2539.6	2301.0	2034.8	1819.3	1599.2
60°	5531.7	5271.6	4916.1	4520.5	4084.9	3697.1	3341.5	2984.4	2655.0	2390.3	2050.2
62.5°	6430.6	6162.8	5833.4	5364.0	4903.8	4389.7	3946.4	3450.8	3082.9	2702.8	2388.8
63°	6519.9	6235.1	5904.2	5459.4	4973.0	4491.3	4041.8	3501.6	3124.5	2742.8	2418.0
65°	6382.9	6205.9	5898.1	5525.6	5148.5	4679.0	4188.0	3657.0	3230.7	2842.8	2462.7
67.5°	5704.1	5622.5	5422.5	5219.3	4882.2	4555.9	4106.5	3638.6	3186.1	2818.2	2467.3
70°	4831.4	4719.1	4562.1	4480.5	4248.1	3971.0	3661.7	3295.3	2969.0	2607.3	2288.7
72.5°	3610.9	3389.2	3263.0	3126.0	2978.3	2784.3	2604.3	2398.0	2133.3	1940.9	1620.7
75°	1890.1	1643.8	1476.1	1279.0	1120.5	958.9	872.7	814.2	724.9	626.4	554.1
77.5°	766.5	640.3	517.2	440.2	330.9	264.7	226.3	200.1	184.7	164.7	152.4
80°	643.4	514.1	414.0	314.0	230.9	167.8	124.7	97.0	83.1	72.3	66.2
82.5°	520.2	446.4	370.9	292.4	224.7	181.6	133.9	95.4	69.3	55.4	47.7
85°	166.2	146.2	113.9	95.4	78.5	66.2	55.4	44.6	40.0	36.9	33.9
87.5°	69.3	53.9	49.3	44.6	43.1	41.6	41.6	38.5	35.4	30.8	27.7
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	50.8	50.8	49.3	50.8	47.7	44.6	43.1	41.6	40.0	40.0	40.0
5°	52.3	50.8	49.3	47.7	43.1	40.0	36.9	33.9	38.5	33.9	23.1
7.5°	53.9	52.3	49.3	47.7	43.1	38.5	35.4	21.5	13.9	13.9	15.4
10°	72.3	67.7	66.2	61.6	56.9	41.6	26.2	13.9	12.3	18.5	21.5
12.5°	78.5	73.9	69.3	64.6	53.9	44.6	21.5	18.5	23.1	18.5	20.0
15°	106.2	90.8	86.2	81.6	72.3	52.3	24.6	24.6	23.1	20.0	23.1
17.5°	117.0	100.0	95.4	92.3	70.8	33.9	27.7	29.2	23.1	26.2	21.5
20°	169.3	150.8	137.0	130.8	95.4	49.3	38.5	27.7	29.2	23.1	26.2
22.5°	193.9	180.1	166.2	163.2	107.7	53.9	44.6	38.5	27.7	27.7	24.6
25°	240.1	221.6	198.6	178.5	113.9	67.7	53.9	38.5	32.3	26.2	24.6
27.5°	272.4	241.6	221.6	209.3	123.1	70.8	52.3	43.1	32.3	24.6	21.5
30°	284.7	267.8	240.1	209.3	124.7	73.9	55.4	41.6	32.3	24.6	23.1
32.5°	347.8	309.4	269.4	246.3	133.9	78.5	53.9	41.6	30.8	23.1	21.5
35°	372.5	335.5	292.4	260.1	140.1	75.4	52.3	36.9	27.7	21.5	16.9
37.5°	412.5	358.6	317.1	277.0	141.6	70.8	47.7	35.4	24.6	18.5	15.4
40°	441.7	397.1	335.5	290.9	141.6	66.2	44.6	30.8	21.5	15.4	12.3
42.5°	511.0	432.5	370.9	318.6	144.7	60.0	40.0	26.2	18.5	10.8	9.2
45°	584.9	509.5	427.9	364.8	147.8	55.4	35.4	23.1	13.9	7.7	4.6
47.5°	689.5	591.0	498.7	418.7	149.3	50.8	32.3	20.0	10.8	4.6	3.1
50°	789.6	683.4	571.0	489.5	152.4	46.2	27.7	16.9	7.7	3.1	1.5
52.5°	906.6	775.7	661.8	546.4	153.9	43.1	24.6	13.9	4.6	1.5	0.0
55°	1072.8	934.3	774.2	652.6	157.0	38.5	20.0	10.8	3.1	1.5	0.0
57.5°	1403.7	1215.9	1018.9	843.5	172.4	33.9	16.9	7.7	1.5	1.5	0.0
60°	1807.0	1597.6	1337.5	1083.6	203.2	29.2	13.9	4.6	1.5	0.0	0.0
62.5°	2099.4	1830.1	1520.7	1246.7	224.7	24.6	12.3	3.1	1.5	1.5	0.0
63°	2147.1	1856.2	1534.5	1257.5	226.3	24.6	10.8	3.1	1.5	0.0	0.0
65°	2182.5	1880.9	1553.0	1274.4	230.9	21.5	9.2	3.1	1.5	1.5	0.0
67.5°	2153.3	1827.0	1508.4	1242.1	234.0	18.5	7.7	3.1	1.5	1.5	1.5
70°	1953.2	1662.3	1383.7	1134.4	217.0	15.4	6.2	3.1	1.5	1.5	1.5
72.5°	1403.7	1251.3	995.8	818.8	166.2	13.9	6.2	4.6	1.5	3.1	3.1
75°	472.5	423.3	352.5	312.4	97.0	9.2	4.6	4.6	1.5	3.1	3.1
77.5°	135.4	126.2	109.3	100.0	49.3	7.7	4.6	4.6	1.5	4.6	4.6
80°	58.5	53.9	47.7	41.6	21.5	6.2	4.6	6.2	1.5	6.2	4.6
82.5°	43.1	38.5	33.9	27.7	12.3	6.2	6.2	7.7	1.5	6.2	6.2
85°	30.8	27.7	23.1	20.0	9.2	6.2	6.2	7.7	3.1	7.7	7.7
87.5°	24.6	21.5	18.5	13.9	9.2	6.2	6.2	9.2	3.1	9.2	7.7
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):

	165°	175°	180°
0°	50.8	50.8	50.8
2.5°	40.0	41.6	41.6
5°	20.0	21.5	21.5
7.5°	16.9	18.5	18.5
10°	23.1	23.1	23.1
12.5°	21.5	23.1	23.1
15°	24.6	26.2	26.2
17.5°	21.5	27.7	29.2
20°	24.6	24.6	24.6
22.5°	24.6	26.2	26.2
25°	23.1	23.1	23.1
27.5°	23.1	23.1	23.1
30°	20.0	23.1	23.1
32.5°	20.0	20.0	20.0
35°	18.5	18.5	18.5
37.5°	15.4	16.9	16.9
40°	12.3	12.3	12.3
42.5°	7.7	7.7	7.7
45°	4.6	4.6	4.6
47.5°	3.1	3.1	3.1
50°	1.5	1.5	1.5
52.5°	1.5	1.5	1.5
55°	0.0	1.5	1.5
57.5°	0.0	0.0	1.5
60°	0.0	0.0	1.5
62.5°	0.0	0.0	1.5
63°	0.0	0.0	1.5
65°	1.5	0.0	1.5
67.5°	1.5	1.5	1.5
70°	1.5	1.5	1.5
72.5°	3.1	1.5	3.1
75°	3.1	3.1	3.1
77.5°	4.6	3.1	3.1
80°	4.6	4.6	3.1
82.5°	6.2	4.6	1.5
85°	6.2	6.2	3.1
87.5°	7.7	7.7	3.1
90°	0.0	0.0	0.0

(END OF REPORT)