

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: P157079

Luminaire Tested: **UTLD-E03-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157079
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33669)
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-SL3-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7202.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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

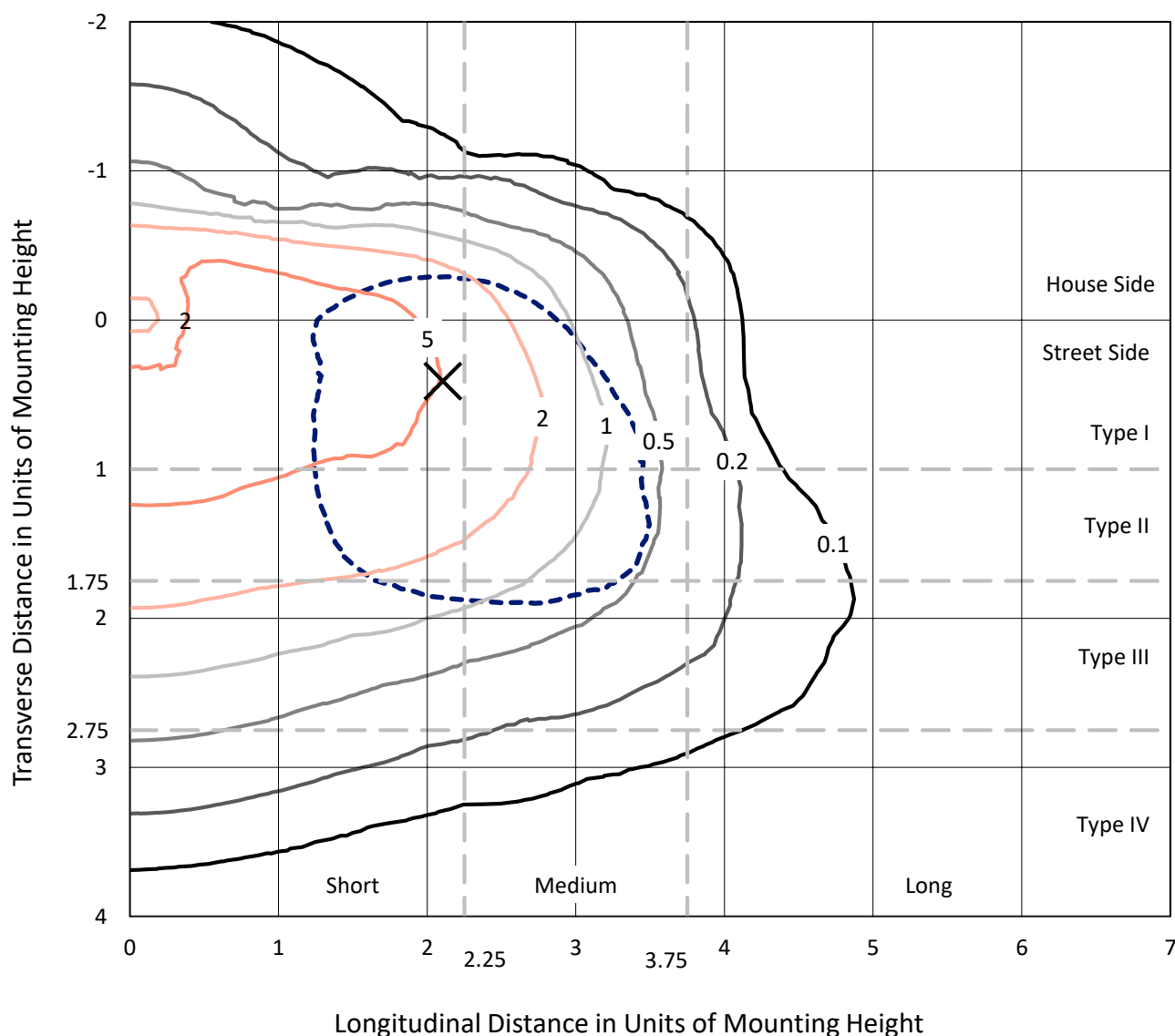


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

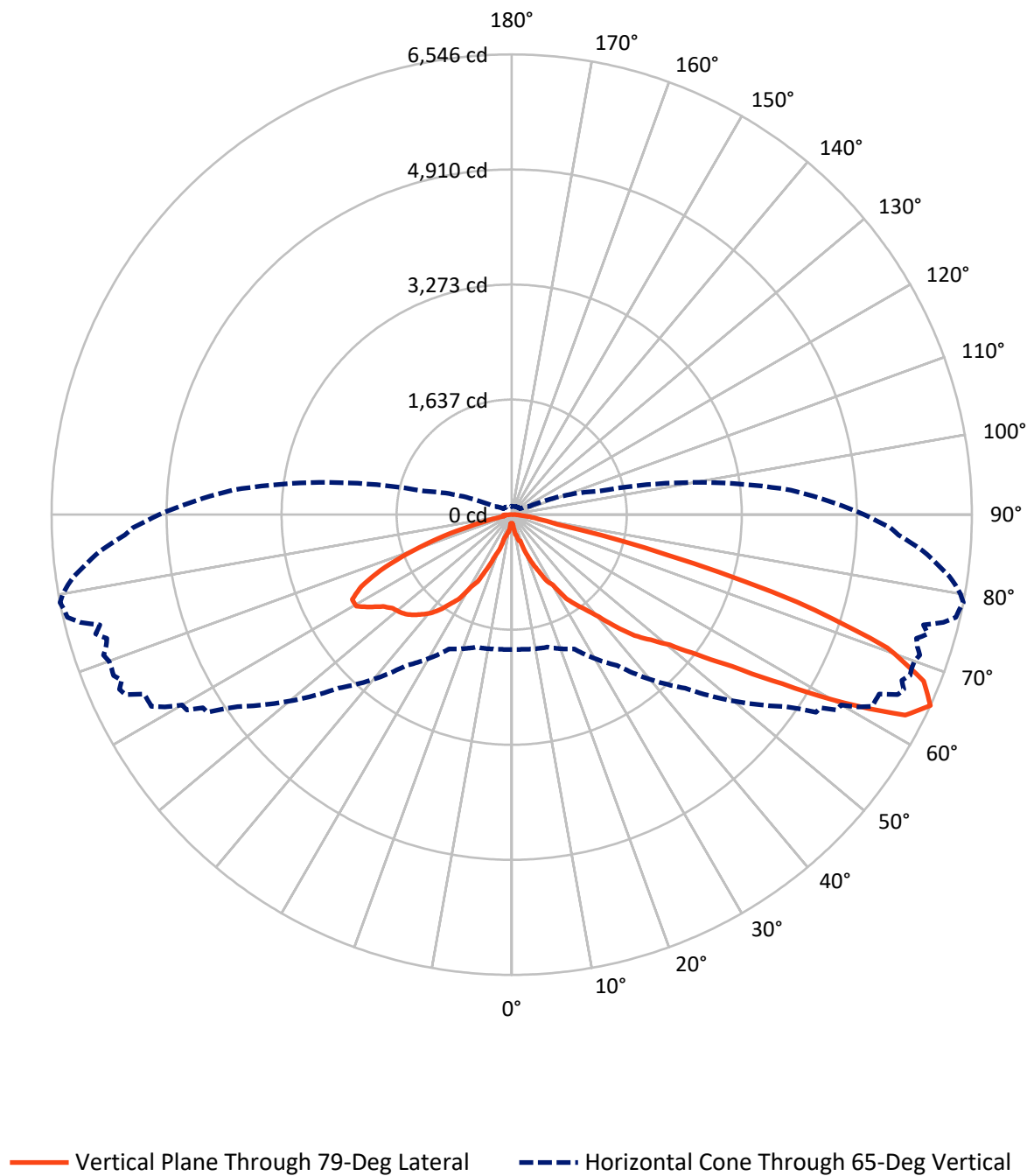


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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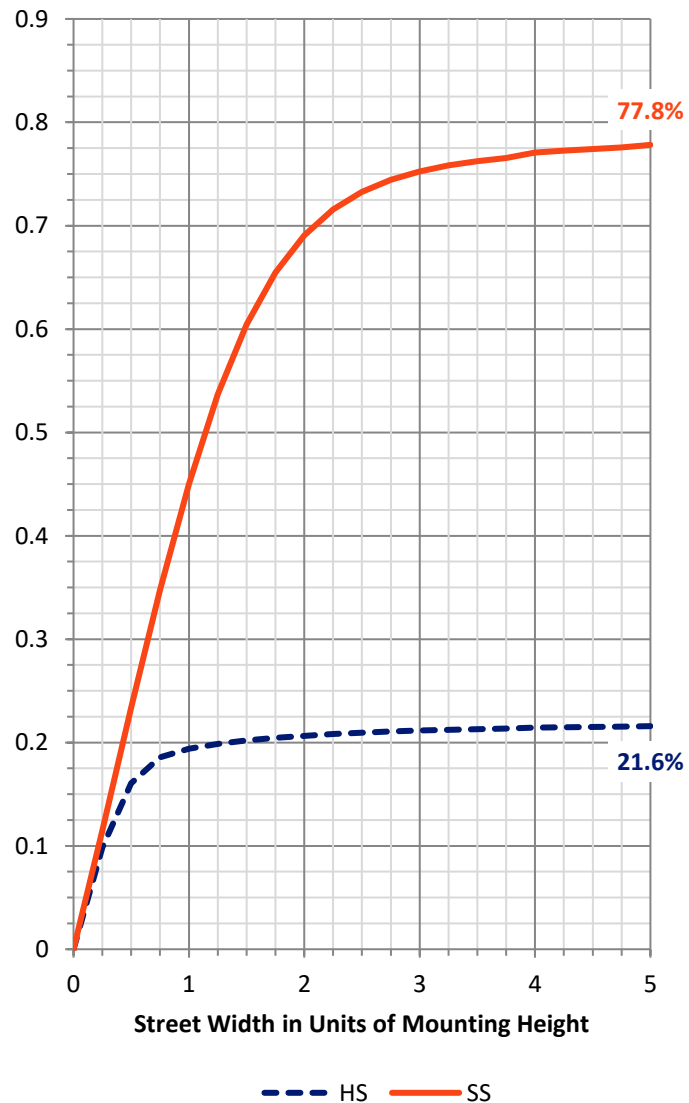
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1575.8	0.0	1575.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5627.2	0.0	5627.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	7202.9	0.0	7202.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	0.2
10°-20°	110.3	1.5
20°-30°	340.1	4.7
30°-40°	654.7	9.1
40°-50°	1082.1	15.0
50°-60°	1627.5	22.6
60°-70°	2179.9	30.3
70°-80°	1024.6	14.2
80°-90°	166.4	2.3
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°	7202.9	100.0
0°-180°	7202.9	100.0

Coefficient of Utilization



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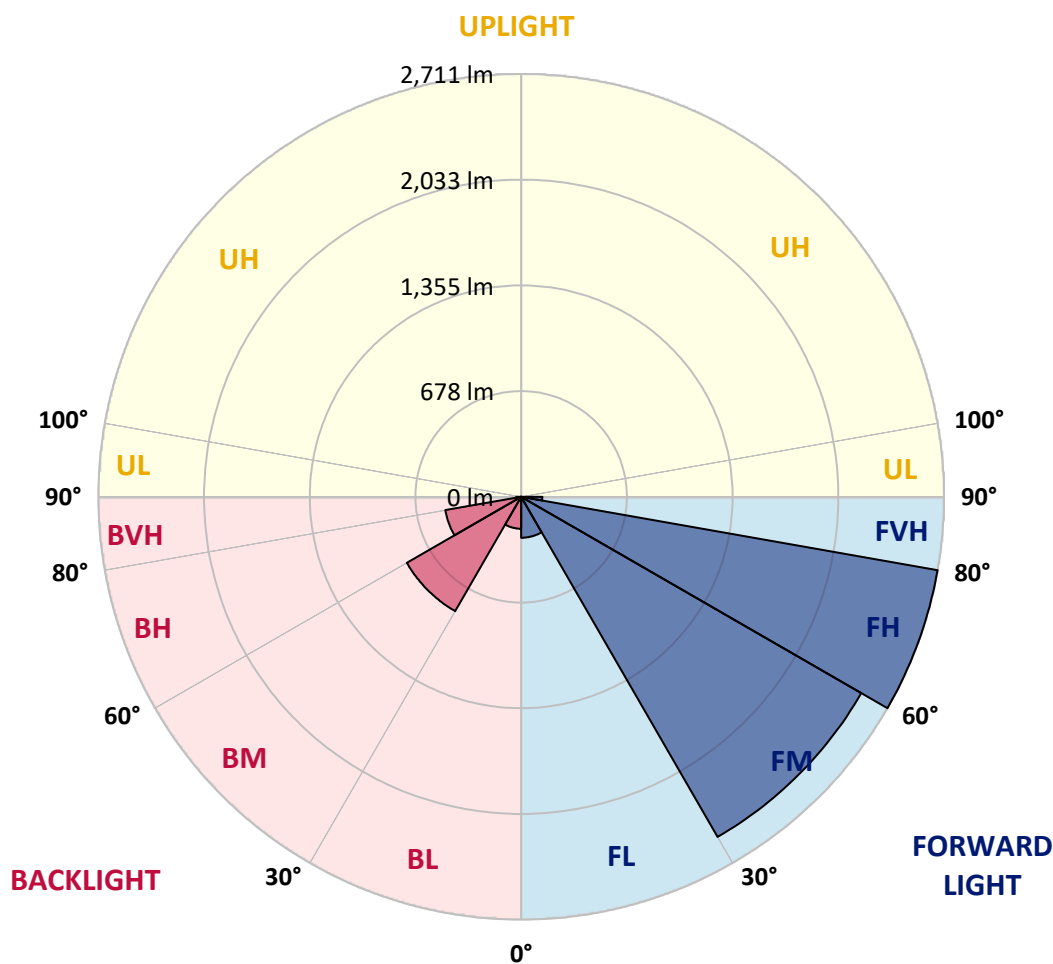
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.7	3.6			
FM	(30°-60°)	2517.7	35.0			
FH	(60°-80°)	2710.9	37.6			G2/5000
FVH	(80°-90°)	135.9	1.9			G2/225
BL	(0°-30°)	205.0	2.8	B1/500		
BM	(30°-60°)	846.6	11.8	B1/1000		
BH	(60°-80°)	493.7	6.9	B1/500		G1/500
BVH	(80°-90°)	30.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	205.5	204.1	204.1	205.5	202.8	201.4	175.4	169.9	164.4	160.3	156.2
5°	169.9	171.3	169.9	169.9	174.0	168.5	185.0	187.7	194.5	197.3	202.8
7.5°	272.6	274.0	271.3	268.5	220.6	176.7	171.3	171.3	171.3	176.7	175.4
10°	289.1	289.1	286.3	283.6	275.4	263.0	191.8	193.2	226.1	201.4	238.4
12.5°	404.2	406.9	401.4	382.2	294.6	365.8	368.5	364.4	361.7	352.1	343.9
15°	435.7	445.3	428.8	408.3	475.4	404.2	387.7	383.6	380.9	380.9	402.8
17.5°	601.4	604.2	591.9	553.5	502.8	482.2	476.8	474.0	472.7	472.7	475.4
20°	717.9	726.1	634.3	661.7	612.4	557.6	538.4	538.4	539.8	528.8	513.8
22.5°	790.5	787.8	745.3	761.7	675.4	623.4	671.3	683.6	697.3	702.8	711.0
25°	938.5	937.1	831.6	760.4	739.8	700.1	709.7	722.0	731.6	753.5	794.6
27.5°	954.9	953.5	878.2	846.7	734.3	800.1	898.7	919.3	931.6	934.4	931.6
30°	1076.8	1074.1	1016.6	883.7	838.5	871.3	965.9	986.4	997.4	1005.6	1005.6
32.5°	1202.9	1202.9	1094.7	928.9	902.8	996.0	1135.8	1142.6	1150.8	1152.2	1154.9
35°	1296.0	1267.3	1142.6	1042.6	1002.9	1101.5	1276.9	1281.0	1305.6	1370.0	1389.2
37.5°	1345.4	1348.1	1301.5	1181.0	1185.1	1296.0	1568.7	1574.2	1578.3	1594.7	1618.0
40°	1424.8	1438.5	1405.6	1331.7	1364.5	1539.9	1822.1	1839.9	1855.0	1857.8	1903.0
42.5°	1505.7	1516.6	1518.0	1539.9	1568.7	1794.7	2067.4	2085.2	2082.4	2103.0	2171.5
45°	1641.3	1657.7	1685.1	1711.2	1775.6	2030.4	2311.2	2338.6	2316.7	2368.8	2412.6
47.5°	1815.3	1827.6	1874.2	1942.7	1968.7	2237.3	2566.1	2572.9	2592.1	2646.9	2663.3
50°	1968.7	1983.8	2042.7	2133.1	2164.6	2418.1	2760.6	2763.3	2794.9	2872.9	2841.4
52.5°	2085.2	2101.6	2152.3	2293.4	2342.7	2619.5	2911.3	2912.7	2967.5	3040.1	2975.7
55°	2149.6	2167.4	2201.6	2361.9	2457.8	2768.8	3089.4	3097.6	3175.7	3215.4	3166.1
57.5°	2152.3	2168.8	2208.5	2348.2	2507.1	2923.6	3336.0	3377.1	3459.3	3508.6	3508.6
60°	2127.6	2148.2	2186.6	2307.1	2553.7	3096.3	3715.5	3800.5	3932.0	3979.9	4088.2
62.5°	2063.3	2072.8	2096.1	2234.5	2622.2	3303.1	4262.1	4403.3	4597.8	4627.9	4848.5
65°	1916.7	1922.1	1950.9	2108.5	2619.5	3492.2	4758.1	4943.1	5160.9	5181.4	5392.4
67.5°	1724.9	1737.2	1759.1	1909.8	2371.5	3419.6	4800.6	5041.7	5211.6	5218.4	5395.2
70°	1427.6	1422.1	1448.1	1555.0	1911.2	2867.5	4340.2	4566.3	4681.4	4729.3	4849.9
72.5°	935.7	938.5	919.3	985.0	1287.8	2019.4	3496.3	3748.4	3800.5	3916.9	3977.2
75°	526.1	515.1	535.7	590.5	726.1	1215.2	2379.7	2603.0	2711.3	2807.2	2859.2
77.5°	312.4	308.3	342.5	419.2	586.4	815.2	1372.8	1483.7	1572.8	1646.8	1741.3
80°	145.2	154.8	152.1	172.6	319.2	697.3	953.5	997.4	1035.7	1078.2	1135.8
82.5°	71.2	78.1	90.4	94.5	112.3	352.1	850.8	894.6	931.6	974.1	1031.6
85°	46.6	48.0	67.1	68.5	69.9	106.9	416.5	482.2	508.3	579.5	678.2
87.5°	16.4	23.3	49.3	43.8	43.8	52.1	141.1	154.8	161.7	176.7	197.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	154.8	154.8	149.3	143.9	141.1	141.1	137.0	137.0	135.6	134.3	131.5
5°	201.4	204.1	204.1	204.1	202.8	201.4	200.0	197.3	194.5	189.1	185.0
7.5°	171.3	168.5	165.8	160.3	161.7	165.8	169.9	175.4	183.6	187.7	189.1
10°	241.1	248.0	246.6	248.0	246.6	249.3	249.3	252.1	250.7	252.1	254.8
12.5°	330.2	302.8	276.7	271.3	269.9	268.5	271.3	269.9	276.7	280.9	280.9
15°	415.1	443.9	445.3	460.3	457.6	435.7	412.4	405.5	400.0	400.0	386.3
17.5°	476.8	486.4	487.7	483.6	489.1	487.7	480.9	472.7	463.1	445.3	419.2
20°	568.6	582.3	590.5	598.7	615.1	602.8	600.1	654.9	661.7	667.2	661.7
22.5°	722.0	720.6	716.5	694.6	683.6	682.3	686.4	697.3	696.0	700.1	704.2
25°	813.8	812.4	823.4	863.1	874.1	913.8	902.8	902.8	909.7	916.5	905.6
27.5°	924.8	937.1	952.2	950.8	970.0	964.5	963.1	974.1	974.1	960.4	968.6
30°	1012.4	1050.8	1102.9	1119.3	1108.4	1108.4	1123.4	1138.5	1134.4	1133.0	1135.8
32.5°	1171.4	1209.7	1176.9	1213.8	1191.9	1227.5	1283.7	1322.1	1335.8	1334.4	1355.0
35°	1427.6	1434.4	1413.9	1428.9	1455.0	1461.8	1467.3	1467.3	1450.9	1478.3	1490.6
37.5°	1645.4	1611.2	1641.3	1623.5	1642.7	1664.6	1661.8	1635.8	1627.6	1672.8	1668.7
40°	1922.1	1867.3	1905.7	1896.1	1907.1	1913.9	1883.8	1866.0	1887.9	1901.6	1898.9
42.5°	2126.3	2155.1	2156.4	2152.3	2161.9	2163.3	2108.5	2116.7	2142.7	2138.6	2124.9
45°	2346.9	2394.8	2368.8	2408.5	2412.6	2359.2	2346.9	2382.5	2390.7	2377.0	2360.6
47.5°	2615.4	2646.9	2603.0	2663.3	2664.7	2604.4	2631.8	2656.5	2662.0	2634.6	2659.2
50°	2846.9	2849.7	2840.1	2886.6	2859.2	2829.1	2889.4	2903.1	2890.8	2853.8	2892.1
52.5°	3037.3	3000.4	3038.7	3103.1	3029.1	3033.2	3123.7	3112.7	3074.3	3110.0	3083.9
55°	3244.2	3211.3	3303.1	3333.3	3264.8	3327.8	3390.8	3375.7	3331.9	3404.5	3353.8
57.5°	3555.2	3563.4	3644.3	3667.6	3638.8	3778.5	3808.7	3804.6	3805.9	3853.9	3832.0
60°	4115.6	4196.4	4289.5	4360.8	4407.4	4573.1	4575.9	4578.6	4632.1	4655.3	4733.4
62.5°	4833.4	5047.2	5099.2	5185.5	5358.2	5517.1	5482.8	5487.0	5555.5	5500.7	5602.0
65°	5413.0	5640.4	5804.8	5817.1	6058.3	6106.2	6028.1	6110.3	6096.6	6096.6	6140.5
67.5°	5467.8	5702.0	5850.0	5914.4	6193.9	6181.6	6106.2	6229.5	6156.9	6218.5	6200.7
70°	4977.3	5152.7	5306.1	5443.1	5695.2	5681.5	5685.6	5855.5	5845.9	5893.8	5844.5
72.5°	4119.7	4274.5	4359.4	4608.8	4674.5	4664.9	4767.7	4781.4	4858.1	4962.2	4897.8
75°	3085.3	3186.7	3193.5	3359.3	3333.3	3301.8	3316.8	3371.6	3229.2	3138.7	3066.1
77.5°	1883.8	1907.1	1885.2	1864.6	1797.5	1731.7	1767.3	1737.2	1645.4	1586.5	1516.6
80°	1186.4	1215.2	1226.2	1291.9	1274.1	1330.3	1372.8	1415.2	1427.6	1376.9	1327.6
82.5°	1098.8	1108.4	1141.2	1208.4	1220.7	1293.3	1302.9	1328.9	1283.7	1254.9	1165.9
85°	706.9	728.9	796.0	753.5	811.1	812.4	782.3	779.5	691.9	646.7	543.9
87.5°	216.5	221.9	248.0	249.3	282.2	287.7	297.3	287.7	257.6	216.5	179.5
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	130.2	128.8	127.4	127.4	127.4	126.0	126.0	126.0	126.0	124.7	124.7
5°	176.7	169.9	161.7	150.7	139.7	135.6	135.6	132.9	131.5	130.2	128.8
7.5°	189.1	187.7	187.7	187.7	185.0	182.2	179.5	167.1	142.5	131.5	130.2
10°	254.8	263.0	276.7	290.4	293.2	293.2	290.4	285.0	279.5	272.6	250.7
12.5°	279.5	279.5	275.4	271.3	276.7	289.1	301.4	306.9	305.5	302.8	301.4
15°	382.2	382.2	380.9	378.1	378.1	376.8	378.1	385.0	393.2	401.4	401.4
17.5°	419.2	416.5	417.9	422.0	405.5	401.4	400.0	393.2	391.8	397.3	401.4
20°	654.9	645.3	617.9	615.1	609.7	606.9	605.6	597.3	593.2	604.2	605.6
22.5°	698.7	711.0	702.8	743.9	676.8	679.5	723.4	748.0	748.0	743.9	737.1
25°	917.9	909.7	919.3	922.0	908.3	919.3	898.7	887.8	872.7	871.3	874.1
27.5°	971.3	994.6	998.7	1037.1	1060.4	1049.4	1091.9	1074.1	1059.0	1046.7	1057.7
30°	1153.6	1146.7	1157.7	1161.8	1176.9	1168.6	1153.6	1161.8	1174.1	1193.3	1178.2
32.5°	1372.8	1383.7	1393.3	1396.1	1404.3	1393.3	1394.7	1422.1	1439.9	1419.3	1387.8
35°	1504.3	1504.3	1522.1	1519.4	1504.3	1509.8	1556.3	1567.3	1548.1	1534.4	1556.3
37.5°	1672.8	1670.1	1671.4	1675.5	1666.0	1718.0	1742.7	1715.3	1694.7	1737.2	1719.4
40°	1879.7	1898.9	1882.4	1885.2	1926.3	1956.4	1930.4	1909.8	1960.5	1929.0	1903.0
42.5°	2137.2	2119.4	2096.1	2144.1	2182.5	2161.9	2131.8	2183.8	2168.8	2124.9	2200.3
45°	2392.1	2368.8	2372.9	2415.4	2430.4	2388.0	2415.4	2452.3	2383.8	2455.1	2482.5
47.5°	2616.7	2627.7	2675.7	2715.4	2663.3	2675.7	2716.8	2660.6	2712.7	2766.1	2760.6
50°	2853.8	2901.7	2934.6	2927.7	2892.1	2970.2	2933.2	2912.7	3023.6	3038.7	3055.2
52.5°	3077.1	3149.7	3156.5	3114.1	3168.9	3212.7	3162.0	3304.5	3351.1	3362.0	3408.6
55°	3393.6	3459.3	3431.9	3422.3	3559.3	3527.8	3630.6	3807.3	3829.2	3873.1	3881.3
57.5°	3919.6	3969.0	3940.2	4051.2	4162.1	4143.0	4449.8	4540.3	4664.9	4689.6	4712.9
60°	4829.3	4791.0	4791.0	5029.4	5000.6	5197.9	5419.8	5444.5	5578.7	5588.3	5615.7
62.5°	5615.7	5599.3	5728.1	5797.9	5784.2	6143.2	6200.7	6281.6	6266.5	6293.9	6128.1
65°	6067.8	6021.3	6156.9	6065.1	6326.8	6487.1	6507.6	6546.0	6481.6	6389.8	6285.7
67.5°	6073.3	6081.5	6095.2	6033.6	6332.3	6343.2	6377.5	6321.3	6266.5	6029.5	5922.6
70°	5736.3	5789.7	5673.3	5784.2	5903.4	5839.0	5817.1	5670.5	5526.7	5278.7	5067.7
72.5°	4800.6	4729.3	4659.5	4743.0	4685.5	4567.7	4426.6	4244.3	3977.2	3789.5	3586.7
75°	2899.0	2766.1	2836.0	2714.0	2541.4	2493.4	2333.2	2282.5	2068.7	1796.1	1693.4
77.5°	1446.7	1308.4	1326.2	1222.1	1090.5	982.3	816.5	668.6	532.9	412.4	337.0
80°	1211.1	1144.0	1076.8	967.2	856.3	711.0	563.1	398.7	271.3	198.7	169.9
82.5°	1042.6	1023.4	891.9	786.4	663.1	539.8	380.9	263.0	169.9	131.5	121.9
85°	482.2	434.3	376.8	360.3	283.6	231.5	172.6	127.4	98.6	87.7	80.8
87.5°	174.0	149.3	138.4	119.2	104.1	94.5	89.1	86.3	86.3	86.3	82.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	124.7	124.7	123.3	123.3	123.3	123.3	123.3	121.9	121.9	121.9	124.7
5°	128.8	127.4	127.4	126.0	126.0	126.0	124.7	124.7	123.3	127.4	171.3
7.5°	130.2	131.5	131.5	131.5	131.5	131.5	130.2	130.2	130.2	145.2	168.5
10°	223.3	215.1	213.7	211.0	208.2	206.9	204.1	200.0	205.5	279.5	194.5
12.5°	293.2	261.7	237.0	232.9	230.2	226.1	226.1	215.1	224.7	267.2	208.2
15°	398.7	389.1	361.7	335.7	338.4	338.4	335.7	334.3	309.6	312.4	316.5
17.5°	411.0	431.6	446.6	412.4	380.9	360.3	365.8	394.6	354.8	339.8	405.5
20°	604.2	611.0	613.8	594.6	552.1	552.1	559.0	565.8	534.3	528.8	527.5
22.5°	724.7	733.0	727.5	735.7	724.7	717.9	704.2	689.1	672.7	606.9	649.4
25°	876.8	897.4	908.3	890.5	864.5	833.0	823.4	824.8	852.2	848.0	898.7
27.5°	1071.4	1060.4	1046.7	1059.0	1070.0	1035.7	1023.4	1011.1	1004.2	1108.4	986.4
30°	1141.2	1133.0	1150.8	1133.0	1130.3	1145.3	1159.0	1137.1	1135.8	1219.3	1117.9
32.5°	1402.9	1397.4	1356.3	1372.8	1390.6	1393.3	1391.9	1415.2	1401.5	1419.3	1174.1
35°	1528.9	1500.2	1539.9	1545.4	1526.2	1550.9	1550.9	1545.4	1582.4	1509.8	1220.7
37.5°	1698.8	1719.4	1745.4	1753.6	1774.2	1729.0	1766.0	1772.8	1830.4	1598.8	1186.4
40°	1970.1	1985.2	2001.6	1998.9	1978.3	2027.6	1979.7	1998.9	2063.3	1650.9	1148.1
42.5°	2222.2	2235.9	2260.5	2259.2	2267.4	2242.7	2281.1	2267.4	2275.6	1664.6	1100.1
45°	2489.3	2523.6	2500.3	2551.0	2537.3	2527.7	2551.0	2542.8	2459.2	1690.6	1019.3
47.5°	2792.1	2783.9	2807.2	2807.2	2816.8	2833.2	2808.6	2815.4	2618.1	1708.4	931.6
50°	3056.5	3068.9	3092.1	3089.4	3110.0	3090.8	3114.1	3037.3	2749.6	1697.5	819.3
52.5°	3400.4	3449.7	3423.7	3437.4	3415.5	3449.7	3378.5	3342.9	2929.1	1645.4	704.2
55°	3971.7	3895.0	3944.3	3889.5	3893.6	3884.0	3793.6	3768.9	3190.8	1618.0	572.7
57.5°	4686.9	4678.6	4641.6	4573.1	4556.7	4497.8	4422.4	4334.8	3608.6	1609.8	464.4
60°	5554.1	5521.2	5406.1	5341.7	5223.9	5104.7	5039.0	4932.1	4053.9	1574.2	383.6
62.5°	6114.4	5974.7	5891.1	5737.7	5628.1	5489.7	5382.8	5184.2	4179.9	1494.7	339.8
65°	6141.8	6011.7	5869.2	5688.3	5511.6	5391.1	5197.9	5012.9	3990.9	1291.9	283.6
67.5°	5745.9	5604.8	5322.5	5188.3	5015.7	4873.2	4640.3	4478.6	3508.6	1037.1	224.7
70°	4949.9	4711.5	4451.2	4270.4	4123.8	3956.6	3737.4	3560.7	2800.3	763.1	174.0
72.5°	3427.8	3290.8	3051.0	2959.3	2815.4	2734.6	2618.1	2548.2	1981.1	524.7	143.9
75°	1667.3	1564.6	1420.7	1450.9	1349.5	1371.4	1386.5	1305.6	1094.7	297.3	124.7
77.5°	311.0	326.1	290.4	290.4	294.6	280.9	283.6	308.3	306.9	150.7	105.5
80°	158.9	156.2	150.7	148.0	141.1	137.0	131.5	128.8	124.7	108.2	91.8
82.5°	115.1	108.2	101.4	97.3	93.2	87.7	83.6	84.9	93.2	106.9	98.6
85°	74.0	71.2	65.8	64.4	63.0	61.7	63.0	65.8	89.1	127.4	97.3
87.5°	79.5	72.6	65.8	63.0	61.7	58.9	57.5	61.7	94.5	138.4	83.6
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):

	125°	135°	145°	155°	165°	175°	180°
0°	123.3	123.3	123.3	123.3	123.3	123.3	123.3
2.5°	127.4	137.0	168.5	193.2	195.9	195.9	194.5
5°	191.8	132.9	123.3	126.0	120.6	121.9	120.6
7.5°	121.9	121.9	124.7	172.6	194.5	202.8	197.3
10°	145.2	193.2	195.9	204.1	205.5	204.1	202.8
12.5°	282.2	278.1	212.4	226.1	294.6	298.7	297.3
15°	304.1	301.4	367.2	304.1	315.1	317.8	315.1
17.5°	397.3	397.3	395.9	364.4	409.6	409.6	408.3
20°	469.9	489.1	475.4	456.2	401.4	402.8	402.8
22.5°	665.8	543.9	519.2	497.3	450.7	450.7	449.4
25°	686.4	611.0	545.3	476.8	437.0	478.1	474.0
27.5°	885.0	638.4	512.4	485.0	434.3	422.0	422.0
30°	871.3	674.1	572.7	442.5	419.2	401.4	393.2
32.5°	922.0	667.2	505.5	402.8	341.1	334.3	326.1
35°	893.3	633.0	432.9	320.6	261.7	249.3	249.3
37.5°	863.1	539.8	349.4	238.4	208.2	198.7	200.0
40°	760.4	434.3	242.5	183.6	183.6	185.0	185.0
42.5°	649.4	301.4	178.1	157.6	165.8	171.3	169.9
45°	511.0	202.8	143.9	145.2	156.2	160.3	160.3
47.5°	364.4	150.7	131.5	135.6	148.0	153.4	152.1
50°	248.0	128.8	123.3	130.2	142.5	145.2	145.2
52.5°	179.5	121.9	117.8	124.7	137.0	139.7	139.7
55°	149.3	119.2	115.1	120.6	131.5	134.3	135.6
57.5°	141.1	119.2	113.7	119.2	127.4	130.2	130.2
60°	141.1	120.6	116.5	119.2	123.3	126.0	127.4
62.5°	143.9	127.4	121.9	121.9	121.9	123.3	123.3
65°	149.3	139.7	131.5	127.4	121.9	117.8	119.2
67.5°	156.2	152.1	145.2	134.3	119.2	111.0	111.0
70°	161.7	164.4	161.7	139.7	116.5	102.8	101.4
72.5°	160.3	174.0	164.4	141.1	113.7	95.9	94.5
75°	150.7	161.7	142.5	127.4	106.9	90.4	87.7
77.5°	131.5	119.2	98.6	98.6	89.1	80.8	78.1
80°	105.5	79.5	65.8	69.9	67.1	50.7	43.8
82.5°	83.6	52.1	49.3	52.1	50.7	37.0	31.5
85°	68.5	35.6	35.6	39.7	35.6	27.4	20.6
87.5°	53.4	20.6	23.3	21.9	21.9	16.4	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)