

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: P157082

Luminaire Tested: **UTLD-E03-LED-E-U-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157082
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-SL3-7060
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8092.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - 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



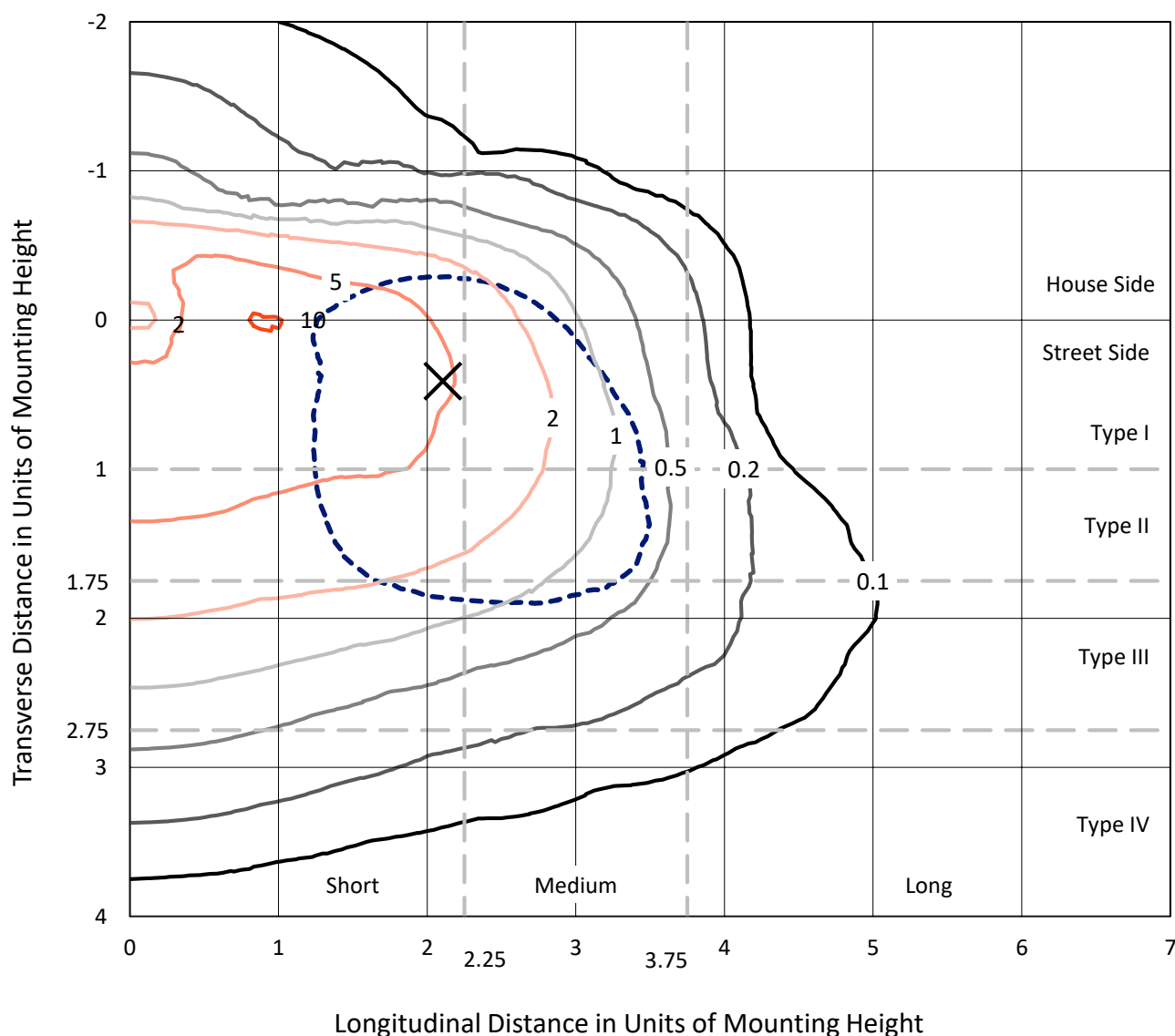
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

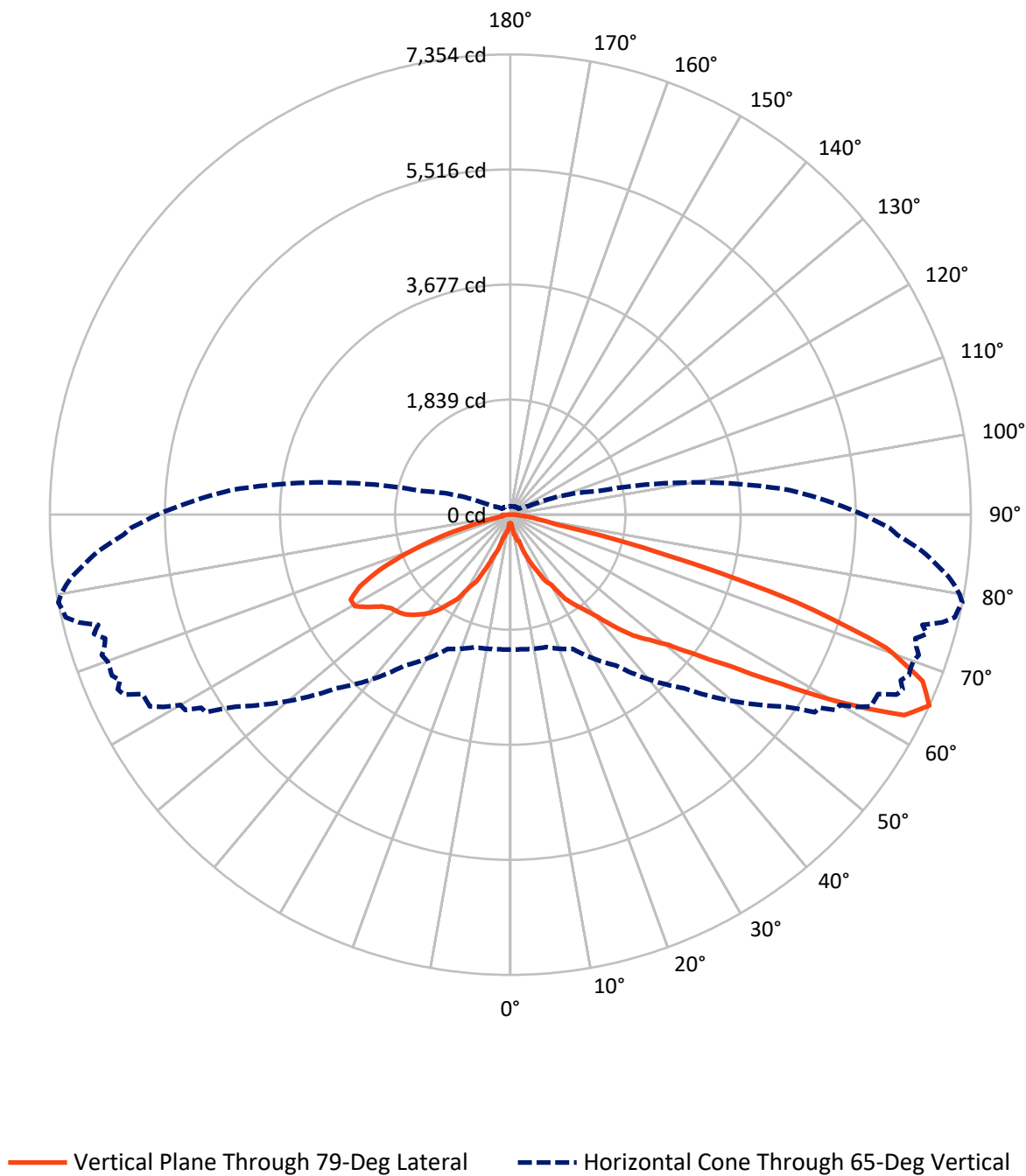


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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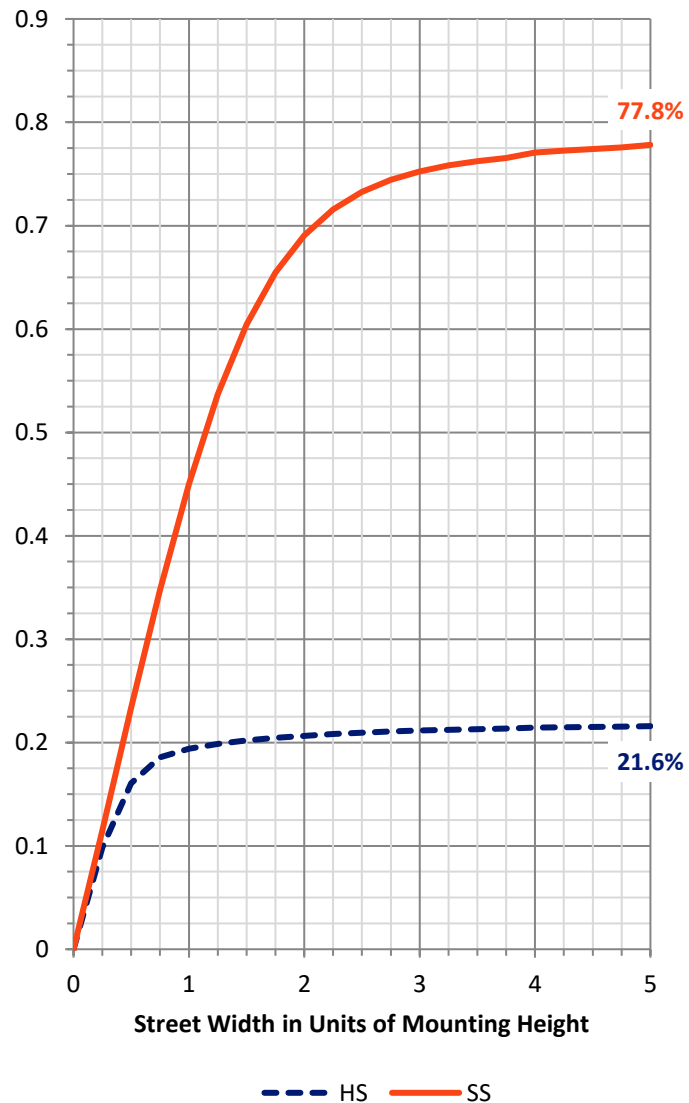
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.3	0.0	1770.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6321.8	0.0	6321.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	8092.1	0.0	8092.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	0.2
10°-20°	124.0	1.5
20°-30°	382.1	4.7
30°-40°	735.6	9.1
40°-50°	1215.7	15.0
50°-60°	1828.4	22.6
60°-70°	2449.1	30.3
70°-80°	1151.1	14.2
80°-90°	186.9	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°	8092.1	100.0
0°-180°	8092.1	100.0

Coefficient of Utilization



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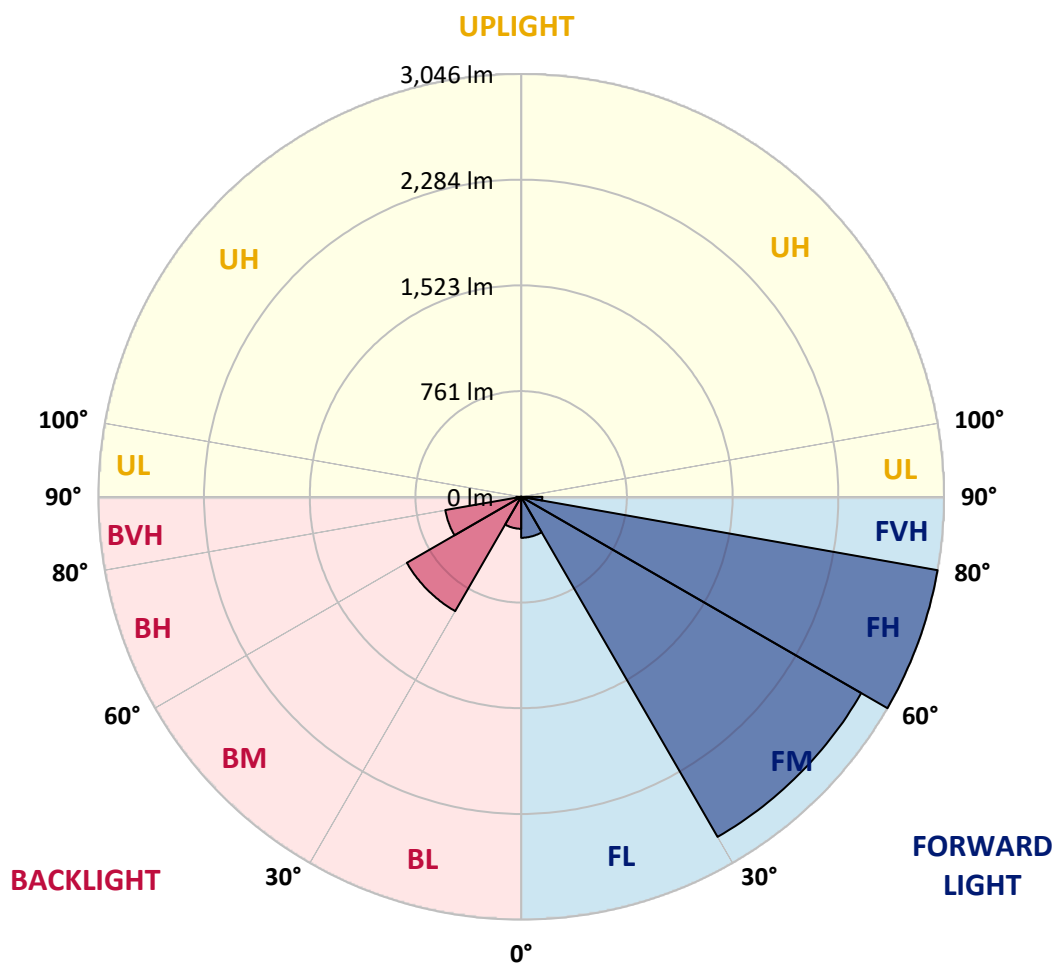
CATALOG NUMBER: UTLD-E03-LED-E-U-SL3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.1	3.6			
FM	(30°-60°)	2828.5	35.0			
FH	(60°-80°)	3045.5	37.6			G2/5000
FVH	(80°-90°)	152.7	1.9			G2/225
BL	(0°-30°)	230.3	2.8	B1/500		
BM	(30°-60°)	951.1	11.8	B1/1000		
BH	(60°-80°)	554.6	6.9	B2/1000		G2/1000
BVH	(80°-90°)	34.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	230.9	229.3	229.3	230.9	227.8	226.3	197.0	190.9	184.7	180.1	175.5
5°	190.9	192.4	190.9	190.9	195.5	189.3	207.8	210.9	218.6	221.6	227.8
7.5°	306.3	307.8	304.8	301.7	247.8	198.6	192.4	192.4	192.4	198.6	197.0
10°	324.8	324.8	321.7	318.6	309.4	295.5	215.5	217.0	254.0	226.3	267.8
12.5°	454.1	457.1	451.0	429.4	330.9	411.0	414.0	409.4	406.3	395.6	386.3
15°	489.5	500.2	481.8	458.7	534.1	454.1	435.6	431.0	427.9	427.9	452.5
17.5°	675.7	678.8	664.9	621.8	564.9	541.8	535.6	532.5	531.0	531.0	534.1
20°	806.5	815.8	712.6	743.4	688.0	626.4	604.9	604.9	606.4	594.1	577.2
22.5°	888.1	885.0	837.3	855.8	758.8	700.3	754.2	768.0	783.4	789.6	798.8
25°	1054.3	1052.8	934.3	854.2	831.1	786.5	797.3	811.1	821.9	846.5	892.7
27.5°	1072.8	1071.3	986.6	951.2	825.0	898.9	1009.7	1032.8	1046.6	1049.7	1046.6
30°	1209.8	1206.7	1142.1	992.8	942.0	978.9	1085.1	1108.2	1120.5	1129.7	1129.7
32.5°	1351.4	1351.4	1229.8	1043.5	1014.3	1119.0	1276.0	1283.7	1292.9	1294.4	1297.5
35°	1456.0	1423.7	1283.7	1171.3	1126.7	1237.5	1434.5	1439.1	1466.8	1539.2	1560.7
37.5°	1511.5	1514.5	1462.2	1326.8	1331.4	1456.0	1762.3	1768.5	1773.1	1791.6	1817.7
40°	1600.7	1616.1	1579.2	1496.1	1533.0	1730.0	2047.1	2067.1	2084.0	2087.1	2137.9
42.5°	1691.5	1703.8	1705.4	1730.0	1762.3	2016.3	2322.6	2342.6	2339.5	2362.6	2439.6
45°	1843.9	1862.4	1893.2	1922.4	1994.7	2281.0	2596.6	2627.3	2602.7	2661.2	2710.5
47.5°	2039.4	2053.2	2105.6	2182.5	2211.8	2513.4	2882.8	2890.5	2912.1	2973.7	2992.1
50°	2211.8	2228.7	2294.9	2396.5	2431.9	2716.6	3101.4	3104.5	3139.9	3227.6	3192.2
52.5°	2342.6	2361.1	2418.0	2576.6	2632.0	2942.9	3270.7	3272.3	3333.8	3415.4	3343.1
55°	2414.9	2434.9	2473.4	2653.5	2761.2	3110.6	3470.8	3480.0	3567.8	3612.4	3557.0
57.5°	2418.0	2436.5	2481.1	2638.1	2816.7	3284.6	3747.9	3794.0	3886.4	3941.8	3941.8
60°	2390.3	2413.4	2456.5	2591.9	2869.0	3478.5	4174.2	4269.6	4417.4	4471.3	4592.8
62.5°	2318.0	2328.7	2354.9	2510.4	2945.9	3710.9	4788.3	4946.9	5165.4	5199.3	5447.1
65°	2153.3	2159.4	2191.8	2368.8	2942.9	3923.3	5345.5	5553.3	5798.0	5821.1	6058.1
67.5°	1937.8	1951.7	1976.3	2145.6	2664.3	3841.7	5393.2	5664.1	5855.0	5862.7	6061.2
70°	1603.8	1597.6	1626.9	1746.9	2147.1	3221.5	4876.1	5130.0	5259.3	5313.2	5448.6
72.5°	1051.2	1054.3	1032.8	1106.7	1446.8	2268.7	3927.9	4211.1	4269.6	4400.5	4468.2
75°	591.0	578.7	601.8	663.4	815.8	1365.2	2673.5	2924.4	3046.0	3153.7	3212.2
77.5°	350.9	346.3	384.8	471.0	658.8	915.8	1542.2	1666.9	1767.0	1850.1	1956.3
80°	163.2	173.9	170.8	193.9	358.6	783.4	1071.3	1120.5	1163.6	1211.3	1276.0
82.5°	80.0	87.7	101.6	106.2	126.2	395.6	955.8	1005.1	1046.6	1094.3	1159.0
85°	52.3	53.9	75.4	77.0	78.5	120.1	467.9	541.8	571.0	651.1	761.9
87.5°	18.5	26.2	55.4	49.3	49.3	58.5	158.5	173.9	181.6	198.6	221.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	173.9	173.9	167.8	161.6	158.5	158.5	153.9	153.9	152.4	150.8	147.8
5°	226.3	229.3	229.3	229.3	227.8	226.3	224.7	221.6	218.6	212.4	207.8
7.5°	192.4	189.3	186.2	180.1	181.6	186.2	190.9	197.0	206.2	210.9	212.4
10°	270.9	278.6	277.0	278.6	277.0	280.1	280.1	283.2	281.7	283.2	286.3
12.5°	370.9	340.2	310.9	304.8	303.2	301.7	304.8	303.2	310.9	315.5	315.5
15°	466.4	498.7	500.2	517.2	514.1	489.5	463.3	455.6	449.4	449.4	434.0
17.5°	535.6	546.4	547.9	543.3	549.5	547.9	540.2	531.0	520.2	500.2	471.0
20°	638.8	654.1	663.4	672.6	691.1	677.2	674.2	735.7	743.4	749.6	743.4
22.5°	811.1	809.6	805.0	780.4	768.0	766.5	771.1	783.4	781.9	786.5	791.1
25°	914.3	912.7	925.0	969.7	982.0	1026.6	1014.3	1014.3	1022.0	1029.7	1017.4
27.5°	1038.9	1052.8	1069.7	1068.2	1089.7	1083.6	1082.0	1094.3	1094.3	1078.9	1088.2
30°	1137.4	1180.5	1239.0	1257.5	1245.2	1245.2	1262.1	1279.0	1274.4	1272.9	1276.0
32.5°	1316.0	1359.1	1322.1	1363.7	1339.1	1379.1	1442.2	1485.3	1500.7	1499.1	1522.2
35°	1603.8	1611.5	1588.4	1605.3	1634.6	1642.3	1648.4	1648.4	1630.0	1660.8	1674.6
37.5°	1848.5	1810.0	1843.9	1823.9	1845.5	1870.1	1867.0	1837.8	1828.5	1879.3	1874.7
40°	2159.4	2097.9	2141.0	2130.2	2142.5	2150.2	2116.3	2096.3	2121.0	2136.4	2133.3
42.5°	2388.8	2421.1	2422.6	2418.0	2428.8	2430.3	2368.8	2378.0	2407.2	2402.6	2387.2
45°	2636.6	2690.4	2661.2	2705.8	2710.5	2650.4	2636.6	2676.6	2685.8	2670.4	2652.0
47.5°	2938.3	2973.7	2924.4	2992.1	2993.7	2925.9	2956.7	2984.4	2990.6	2959.8	2987.5
50°	3198.4	3201.4	3190.7	3243.0	3212.2	3178.4	3246.1	3261.5	3247.6	3206.1	3249.2
52.5°	3412.3	3370.8	3413.9	3486.2	3403.1	3407.7	3509.3	3497.0	3453.9	3493.9	3464.6
55°	3644.7	3607.8	3710.9	3744.8	3667.8	3738.6	3809.4	3792.5	3743.2	3824.8	3767.9
57.5°	3994.1	4003.4	4094.2	4120.3	4088.0	4245.0	4278.9	4274.2	4275.8	4329.7	4305.0
60°	4623.6	4714.4	4819.1	4899.1	4951.5	5137.7	5140.8	5143.9	5203.9	5230.1	5317.8
62.5°	5430.2	5670.3	5728.7	5825.7	6019.6	6198.2	6159.7	6164.3	6241.3	6179.7	6293.6
65°	6081.2	6336.7	6521.4	6535.3	6806.2	6860.0	6772.3	6864.6	6849.3	6849.3	6898.5
67.5°	6142.8	6406.0	6572.2	6644.5	6958.5	6944.7	6860.0	6998.6	6917.0	6986.2	6966.2
70°	5591.8	5788.8	5961.2	6115.1	6398.3	6382.9	6387.5	6578.4	6567.6	6621.5	6566.0
72.5°	4628.2	4802.2	4897.6	5177.7	5251.6	5240.8	5356.3	5371.7	5457.9	5574.8	5502.5
75°	3466.2	3580.1	3587.8	3774.0	3744.8	3709.4	3726.3	3787.9	3627.8	3526.2	3444.6
77.5°	2116.3	2142.5	2117.9	2094.8	2019.4	1945.5	1985.5	1951.7	1848.5	1782.3	1703.8
80°	1332.9	1365.2	1377.5	1451.4	1431.4	1494.5	1542.2	1590.0	1603.8	1546.9	1491.4
82.5°	1234.4	1245.2	1282.1	1357.5	1371.4	1453.0	1463.7	1493.0	1442.2	1409.9	1309.8
85°	794.2	818.8	894.3	846.5	911.2	912.7	878.9	875.8	777.3	726.5	611.0
87.5°	243.2	249.3	278.6	280.1	317.1	323.2	334.0	323.2	289.4	243.2	201.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	146.2	144.7	143.1	143.1	143.1	141.6	141.6	141.6	141.6	140.1	140.1
5°	198.6	190.9	181.6	169.3	157.0	152.4	152.4	149.3	147.8	146.2	144.7
7.5°	212.4	210.9	210.9	210.9	207.8	204.7	201.6	187.8	160.1	147.8	146.2
10°	286.3	295.5	310.9	326.3	329.4	329.4	326.3	320.1	314.0	306.3	281.7
12.5°	314.0	314.0	309.4	304.8	310.9	324.8	338.6	344.8	343.2	340.2	338.6
15°	429.4	429.4	427.9	424.8	424.8	423.3	424.8	432.5	441.7	451.0	451.0
17.5°	471.0	467.9	469.4	474.1	455.6	451.0	449.4	441.7	440.2	446.4	451.0
20°	735.7	724.9	694.2	691.1	684.9	681.8	680.3	671.1	666.5	678.8	680.3
22.5°	785.0	798.8	789.6	835.8	760.3	763.4	812.7	840.4	840.4	835.8	828.1
25°	1031.2	1022.0	1032.8	1035.9	1020.5	1032.8	1009.7	997.4	980.4	978.9	982.0
27.5°	1091.3	1117.4	1122.0	1165.1	1191.3	1179.0	1226.7	1206.7	1189.8	1175.9	1188.2
30°	1296.0	1288.3	1300.6	1305.2	1322.1	1312.9	1296.0	1305.2	1319.1	1340.6	1323.7
32.5°	1542.2	1554.5	1565.3	1568.4	1577.6	1565.3	1566.9	1597.6	1617.7	1594.6	1559.2
35°	1690.0	1690.0	1710.0	1706.9	1690.0	1696.2	1748.5	1760.8	1739.2	1723.9	1748.5
37.5°	1879.3	1876.2	1877.8	1882.4	1871.6	1930.1	1957.8	1927.0	1903.9	1951.7	1931.6
40°	2111.7	2133.3	2114.8	2117.9	2164.1	2197.9	2168.7	2145.6	2202.5	2167.1	2137.9
42.5°	2401.1	2381.1	2354.9	2408.8	2451.9	2428.8	2394.9	2453.4	2436.5	2387.2	2471.9
45°	2687.4	2661.2	2665.8	2713.5	2730.5	2682.8	2713.5	2755.1	2678.1	2758.2	2789.0
47.5°	2939.8	2952.1	3006.0	3050.6	2992.1	3006.0	3052.2	2989.0	3047.5	3107.6	3101.4
50°	3206.1	3259.9	3296.9	3289.2	3249.2	3336.9	3295.3	3272.3	3396.9	3413.9	3432.3
52.5°	3456.9	3538.5	3546.2	3498.5	3560.1	3609.3	3552.4	3712.4	3764.8	3777.1	3829.4
55°	3812.5	3886.4	3855.6	3844.8	3998.7	3963.3	4078.8	4277.3	4301.9	4351.2	4360.4
57.5°	4403.5	4458.9	4426.6	4551.3	4676.0	4654.4	4999.2	5100.8	5240.8	5268.5	5294.7
60°	5425.5	5382.4	5382.4	5650.2	5617.9	5839.6	6088.9	6116.6	6267.5	6278.2	6309.0
62.5°	6309.0	6290.5	6435.2	6513.7	6498.3	6901.6	6966.2	7057.0	7040.1	7070.9	6884.7
65°	6816.9	6764.6	6917.0	6813.9	7107.8	7287.9	7311.0	7354.1	7281.8	7178.6	7061.7
67.5°	6823.1	6832.3	6847.7	6778.5	7114.0	7126.3	7164.8	7101.7	7040.1	6773.8	6653.8
70°	6444.5	6504.5	6373.7	6498.3	6632.2	6559.9	6535.3	6370.6	6209.0	5930.4	5693.3
72.5°	5393.2	5313.2	5234.7	5328.6	5263.9	5131.6	4973.0	4768.3	4468.2	4257.3	4029.5
75°	3256.9	3107.6	3186.1	3049.1	2855.1	2801.3	2621.2	2564.2	2324.1	2017.8	1902.4
77.5°	1625.4	1469.9	1489.9	1372.9	1225.2	1103.6	917.3	751.1	598.7	463.3	378.6
80°	1360.6	1285.2	1209.8	1086.6	962.0	798.8	632.6	447.9	304.8	223.2	190.9
82.5°	1171.3	1149.8	1002.0	883.5	745.0	606.4	427.9	295.5	190.9	147.8	137.0
85°	541.8	487.9	423.3	404.8	318.6	260.1	193.9	143.1	110.8	98.5	90.8
87.5°	195.5	167.8	155.5	133.9	117.0	106.2	100.0	97.0	97.0	97.0	92.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	140.1	140.1	138.5	138.5	138.5	138.5	138.5	137.0	137.0	137.0	140.1
5°	144.7	143.1	143.1	141.6	141.6	141.6	140.1	140.1	138.5	143.1	192.4
7.5°	146.2	147.8	147.8	147.8	147.8	147.8	146.2	146.2	146.2	163.2	189.3
10°	250.9	241.6	240.1	237.0	234.0	232.4	229.3	224.7	230.9	314.0	218.6
12.5°	329.4	294.0	266.3	261.7	258.6	254.0	254.0	241.6	252.4	300.1	234.0
15°	447.9	437.1	406.3	377.1	380.2	380.2	377.1	375.6	347.8	350.9	355.5
17.5°	461.7	484.8	501.8	463.3	427.9	404.8	411.0	443.3	398.6	381.7	455.6
20°	678.8	686.5	689.5	668.0	620.3	620.3	628.0	635.7	600.3	594.1	592.6
22.5°	814.2	823.4	817.3	826.5	814.2	806.5	791.1	774.2	755.7	681.8	729.6
25°	985.1	1008.1	1020.5	1000.5	971.2	935.8	925.0	926.6	957.4	952.7	1009.7
27.5°	1203.6	1191.3	1175.9	1189.8	1202.1	1163.6	1149.8	1135.9	1128.2	1245.2	1108.2
30°	1282.1	1272.9	1292.9	1272.9	1269.8	1286.7	1302.1	1277.5	1276.0	1369.9	1256.0
32.5°	1576.1	1569.9	1523.8	1542.2	1562.2	1565.3	1563.8	1590.0	1574.6	1594.6	1319.1
35°	1717.7	1685.4	1730.0	1736.2	1714.6	1742.3	1742.3	1736.2	1777.7	1696.2	1371.4
37.5°	1908.6	1931.6	1960.9	1970.1	1993.2	1942.4	1984.0	1991.7	2056.3	1796.2	1332.9
40°	2213.3	2230.2	2248.7	2245.6	2222.5	2278.0	2224.1	2245.6	2318.0	1854.7	1289.8
42.5°	2496.5	2511.9	2539.6	2538.1	2547.3	2519.6	2562.7	2547.3	2556.5	1870.1	1235.9
45°	2796.7	2835.1	2809.0	2865.9	2850.5	2839.7	2865.9	2856.7	2762.8	1899.3	1145.1
47.5°	3136.8	3127.6	3153.7	3153.7	3164.5	3183.0	3155.3	3163.0	2941.3	1919.3	1046.6
50°	3433.9	3447.7	3473.9	3470.8	3493.9	3472.3	3498.5	3412.3	3089.1	1907.0	920.4
52.5°	3820.2	3875.6	3846.4	3861.7	3837.1	3875.6	3795.6	3755.5	3290.7	1848.5	791.1
55°	4462.0	4375.8	4431.2	4369.7	4374.3	4363.5	4261.9	4234.2	3584.7	1817.7	643.4
57.5°	5265.5	5256.2	5214.7	5137.7	5119.2	5053.1	4968.4	4869.9	4054.1	1808.5	521.8
60°	6239.7	6202.8	6073.5	6001.2	5868.8	5734.9	5661.0	5541.0	4554.4	1768.5	431.0
62.5°	6869.3	6712.3	6618.4	6446.0	6322.9	6167.4	6047.4	5824.2	4696.0	1679.2	381.7
65°	6900.0	6753.8	6593.8	6390.6	6192.0	6056.6	5839.6	5631.8	4483.6	1451.4	318.6
67.5°	6455.2	6296.7	5979.6	5828.8	5634.9	5474.8	5213.1	5031.5	3941.8	1165.1	252.4
70°	5561.0	5293.2	5000.7	4797.6	4632.9	4445.1	4198.8	4000.3	3146.0	857.3	195.5
72.5°	3851.0	3697.1	3427.7	3324.6	3163.0	3072.2	2941.3	2862.8	2225.6	589.5	161.6
75°	1873.2	1757.7	1596.1	1630.0	1516.1	1540.7	1557.6	1466.8	1229.8	334.0	140.1
77.5°	349.4	366.3	326.3	326.3	330.9	315.5	318.6	346.3	344.8	169.3	118.5
80°	178.5	175.5	169.3	166.2	158.5	153.9	147.8	144.7	140.1	121.6	103.1
82.5°	129.3	121.6	113.9	109.3	104.7	98.5	93.9	95.4	104.7	120.1	110.8
85°	83.1	80.0	73.9	72.3	70.8	69.3	70.8	73.9	100.0	143.1	109.3
87.5°	89.3	81.6	73.9	70.8	69.3	66.2	64.6	69.3	106.2	155.5	93.9
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°	138.5	138.5	138.5	138.5	138.5	138.5	138.5
2.5°	143.1	153.9	189.3	217.0	220.1	220.1	218.6
5°	215.5	149.3	138.5	141.6	135.4	137.0	135.4
7.5°	137.0	137.0	140.1	193.9	218.6	227.8	221.6
10°	163.2	217.0	220.1	229.3	230.9	229.3	227.8
12.5°	317.1	312.4	238.6	254.0	330.9	335.5	334.0
15°	341.7	338.6	412.5	341.7	354.0	357.1	354.0
17.5°	446.4	446.4	444.8	409.4	460.2	460.2	458.7
20°	527.9	549.5	534.1	512.5	451.0	452.5	452.5
22.5°	748.0	611.0	583.3	558.7	506.4	506.4	504.8
25°	771.1	686.5	612.6	535.6	491.0	537.2	532.5
27.5°	994.3	717.2	575.6	544.9	487.9	474.1	474.1
30°	978.9	757.3	643.4	497.1	471.0	451.0	441.7
32.5°	1035.9	749.6	567.9	452.5	383.3	375.6	366.3
35°	1003.5	711.1	486.4	360.2	294.0	280.1	280.1
37.5°	969.7	606.4	392.5	267.8	234.0	223.2	224.7
40°	854.2	487.9	272.4	206.2	206.2	207.8	207.8
42.5°	729.6	338.6	200.1	177.0	186.2	192.4	190.9
45°	574.1	227.8	161.6	163.2	175.5	180.1	180.1
47.5°	409.4	169.3	147.8	152.4	166.2	172.4	170.8
50°	278.6	144.7	138.5	146.2	160.1	163.2	163.2
52.5°	201.6	137.0	132.4	140.1	153.9	157.0	157.0
55°	167.8	133.9	129.3	135.4	147.8	150.8	152.4
57.5°	158.5	133.9	127.8	133.9	143.1	146.2	146.2
60°	158.5	135.4	130.8	133.9	138.5	141.6	143.1
62.5°	161.6	143.1	137.0	137.0	137.0	138.5	138.5
65°	167.8	157.0	147.8	143.1	137.0	132.4	133.9
67.5°	175.5	170.8	163.2	150.8	133.9	124.7	124.7
70°	181.6	184.7	181.6	157.0	130.8	115.4	113.9
72.5°	180.1	195.5	184.7	158.5	127.8	107.7	106.2
75°	169.3	181.6	160.1	143.1	120.1	101.6	98.5
77.5°	147.8	133.9	110.8	110.8	100.0	90.8	87.7
80°	118.5	89.3	73.9	78.5	75.4	56.9	49.3
82.5°	93.9	58.5	55.4	58.5	56.9	41.6	35.4
85°	77.0	40.0	40.0	44.6	40.0	30.8	23.1
87.5°	60.0	23.1	26.2	24.6	24.6	18.5	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)