

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: P157161

Luminaire Tested: **UTLD-E02-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157161
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33662)
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-T3-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5531.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - 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

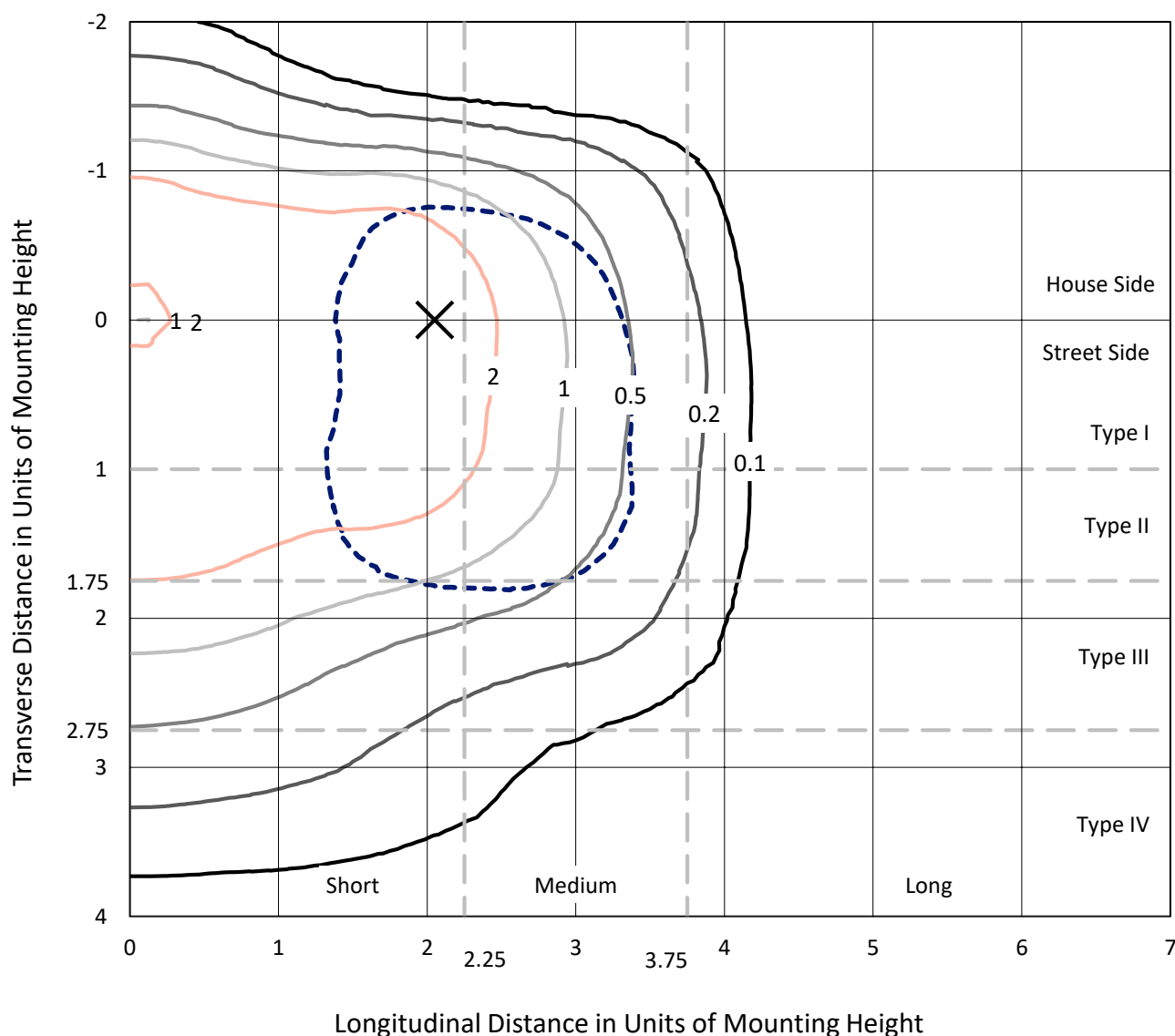


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

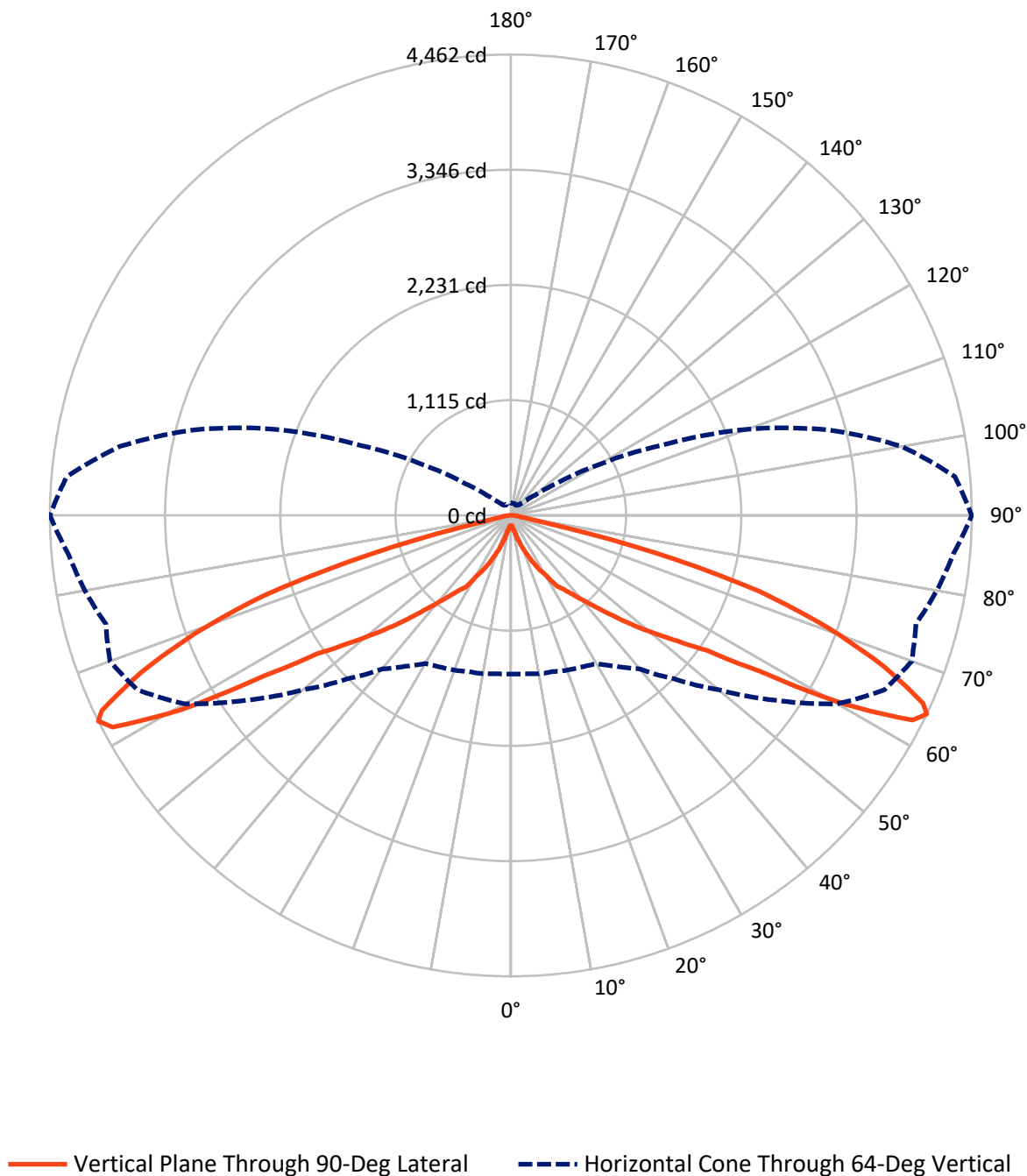


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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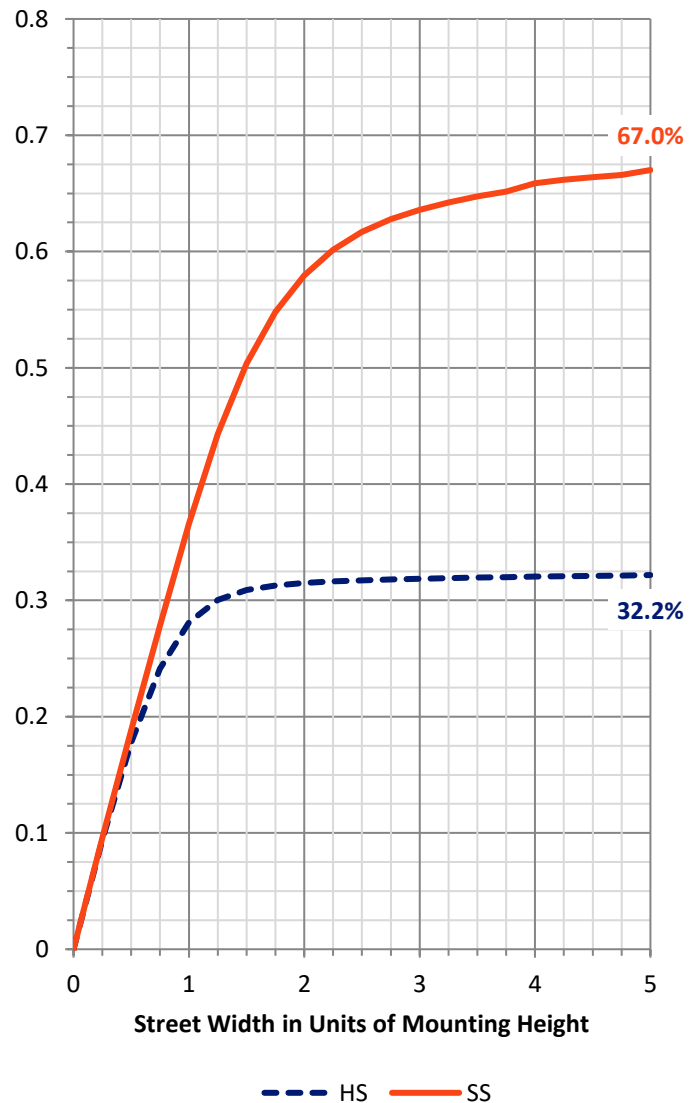
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1797.7	0.0	1797.7
	% Fixture	32.5	0.0	32.5
Street Side	Lumens	3734.0	0.0	3734.0
	% Fixture	67.5	0.0	67.5
Total	Lumens	5531.7	0.0	5531.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.2
10°-20°	72.7	1.3
20°-30°	214.2	3.9
30°-40°	452.7	8.2
40°-50°	793.5	14.3
50°-60°	1263.7	22.8
60°-70°	1772.2	32.0
70°-80°	802.7	14.5
80°-90°	146.6	2.6
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°	5531.7	100.0
0°-180°	5531.7	100.0

Coefficient of Utilization



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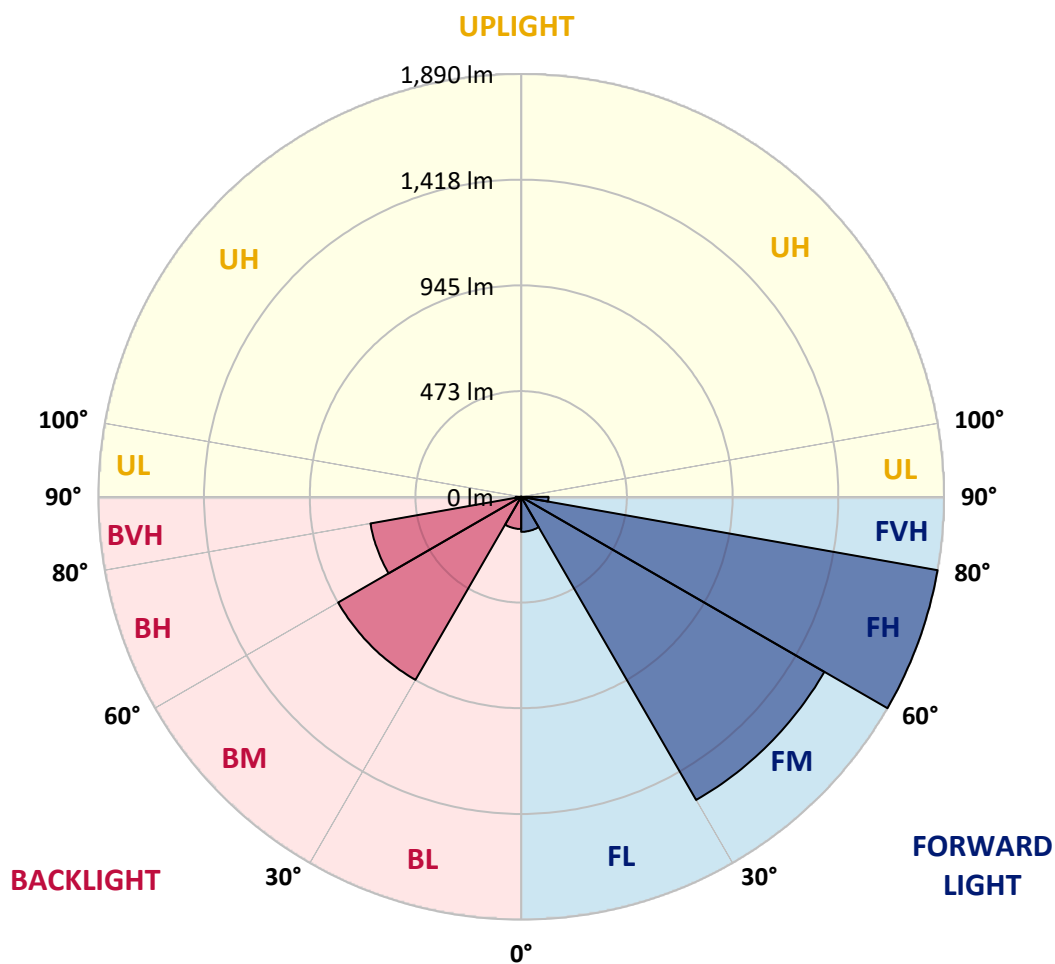
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.5	2.8			
FM	(30°-60°)	1565.0	28.3			
FH	(60°-80°)	1890.3	34.2			G2/5000
FVH	(80°-90°)	122.1	2.2			G2/225
BL	(0°-30°)	143.9	2.6	B1/500		
BM	(30°-60°)	944.9	17.1	B1/1000		
BH	(60°-80°)	684.5	12.4	B2/1000		G2/1000
BVH	(80°-90°)	24.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
2.5°	160.1	162.1	161.1	162.1	163.2	162.1	162.1	161.1	162.1	163.2	163.2
5°	130.3	131.3	131.3	130.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3
7.5°	195.0	196.0	197.0	195.0	195.0	196.0	193.9	166.2	134.4	132.4	130.3
10°	195.0	196.0	196.0	193.9	195.0	196.0	196.0	195.0	188.8	187.8	187.8
12.5°	250.4	251.4	252.4	252.4	252.4	245.2	236.0	198.0	192.9	243.2	247.3
15°	253.4	253.4	253.4	249.3	249.3	245.2	248.3	293.5	290.4	255.5	251.4
17.5°	311.9	311.9	311.9	310.9	303.7	303.7	305.8	295.5	296.5	297.6	350.9
20°	379.7	381.7	354.0	324.2	313.0	348.9	349.9	343.7	377.6	336.6	354.0
22.5°	397.1	397.1	396.1	386.8	388.9	413.5	398.1	384.8	393.0	371.5	401.2
25°	472.0	472.0	465.9	457.6	445.3	434.0	446.4	444.3	425.8	423.8	473.0
27.5°	505.9	491.5	488.4	478.2	505.9	499.7	510.0	463.8	502.8	493.6	520.2
30°	580.8	579.7	569.5	578.7	578.7	555.1	536.7	558.2	566.4	549.0	609.5
32.5°	687.5	686.5	674.2	667.0	616.7	611.6	622.8	625.9	624.9	630.0	648.5
35°	803.4	802.4	734.7	721.4	702.9	698.8	697.8	681.3	700.8	676.2	725.5
37.5°	880.4	888.6	849.6	840.4	816.8	790.1	768.6	778.8	755.2	752.1	788.0
40°	1034.3	1037.4	1002.5	973.8	953.3	892.7	871.2	865.0	856.8	846.5	894.8
42.5°	1179.0	1174.9	1144.1	1121.5	1095.9	1037.4	974.8	967.6	965.6	956.3	998.4
45°	1319.6	1322.6	1286.7	1276.5	1235.4	1198.5	1112.3	1113.3	1107.2	1096.9	1134.9
47.5°	1447.8	1455.0	1435.5	1403.7	1370.9	1341.1	1275.4	1271.3	1257.0	1260.1	1305.2
50°	1555.6	1568.9	1550.4	1526.8	1497.1	1476.6	1438.6	1429.4	1421.2	1429.4	1478.6
52.5°	1629.5	1640.7	1647.9	1618.2	1618.2	1591.5	1579.2	1569.9	1573.0	1597.6	1656.1
55°	1666.4	1676.7	1692.0	1671.5	1716.7	1677.7	1666.4	1679.7	1700.3	1744.4	1827.5
57.5°	1666.4	1672.6	1692.0	1696.2	1722.8	1695.1	1715.6	1744.4	1788.5	1865.5	1982.4
60°	1631.5	1636.6	1660.2	1663.3	1687.9	1681.8	1699.2	1781.3	1846.0	1973.2	2161.0
62.5°	1576.1	1579.2	1601.8	1607.9	1633.6	1645.9	1672.6	1791.6	1906.5	2128.1	2429.8
64°	1536.1	1538.1	1556.6	1565.8	1594.6	1618.2	1655.1	1783.4	1940.4	2236.9	2626.8
65°	1508.4	1508.4	1530.9	1535.1	1563.8	1594.6	1634.6	1763.9	1942.4	2278.0	2712.0
67.5°	1399.6	1394.5	1417.1	1427.3	1438.6	1463.2	1487.9	1622.3	1821.3	2213.3	2689.4
70°	1215.9	1203.6	1214.9	1206.7	1200.5	1189.3	1176.9	1270.3	1411.9	1805.9	2278.0
72.5°	852.7	852.7	843.5	863.0	877.3	891.7	842.4	853.7	930.7	1185.2	1605.9
75°	572.6	578.7	595.1	642.3	688.5	730.6	747.0	748.0	683.4	702.9	974.8
77.5°	339.6	353.0	365.3	420.7	480.2	568.5	646.4	722.4	739.8	729.6	706.0
80°	152.9	157.0	174.4	196.0	232.9	293.5	407.4	528.4	665.9	734.7	720.3
82.5°	52.3	57.5	68.7	82.1	97.5	124.2	184.7	249.3	380.7	539.7	671.1
85°	17.4	19.5	26.7	36.9	41.0	47.2	62.6	92.3	150.8	212.4	404.3
87.5°	7.2	9.2	12.3	18.5	20.5	20.5	21.5	27.7	27.7	27.7	110.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
2.5°	134.4	124.2	109.8	106.7	102.6	101.6	100.6	100.6	99.5	100.6	100.6
5°	143.7	151.9	158.0	153.9	113.9	108.8	100.6	99.5	100.6	100.6	105.7
7.5°	130.3	130.3	124.2	142.6	143.7	106.7	98.5	100.6	101.6	102.6	119.0
10°	140.6	178.5	177.5	180.6	206.2	202.1	150.8	147.8	148.8	156.0	206.2
12.5°	250.4	231.9	182.6	190.9	188.8	209.3	161.1	154.9	159.0	198.0	192.9
15°	251.4	288.3	294.5	259.6	246.3	260.6	235.0	223.7	216.5	257.6	221.6
17.5°	298.6	295.5	301.7	278.1	262.7	258.6	283.2	277.0	265.8	247.3	229.8
20°	330.4	353.0	360.2	406.3	378.6	367.3	375.6	354.0	341.7	346.8	345.8
22.5°	405.3	437.1	413.5	422.8	431.0	459.7	449.4	416.6	424.8	426.9	413.5
25°	428.9	481.2	515.1	532.5	538.7	520.2	545.9	507.9	520.2	502.8	515.1
27.5°	531.5	534.6	561.3	555.1	597.2	618.7	617.7	597.2	602.3	612.6	625.9
30°	561.3	572.6	625.9	644.4	668.0	684.4	664.9	673.1	657.7	679.3	682.4
32.5°	654.7	644.4	663.9	741.9	796.3	824.0	796.3	812.7	795.2	802.4	766.5
35°	710.1	758.3	771.6	808.6	849.6	888.6	880.4	877.3	875.3	889.6	814.7
37.5°	824.0	834.2	841.4	888.6	925.5	976.9	978.9	967.6	987.1	946.1	881.4
40°	898.9	915.3	924.5	956.3	1031.2	1072.3	1103.1	1080.5	1108.2	1026.1	979.9
42.5°	1010.7	1003.5	1019.9	1069.2	1161.6	1186.2	1229.3	1214.9	1257.0	1168.7	1077.4
45°	1157.4	1151.3	1154.4	1186.2	1311.4	1328.8	1371.9	1383.2	1403.7	1293.9	1200.5
47.5°	1322.6	1325.7	1325.7	1357.5	1460.1	1495.0	1544.3	1578.2	1571.0	1427.3	1333.9
50°	1508.4	1522.7	1501.2	1545.3	1622.3	1684.9	1712.6	1785.4	1758.7	1613.0	1509.4
52.5°	1713.6	1737.2	1717.7	1754.6	1827.5	1906.5	1952.7	2021.4	1975.3	1853.1	1670.5
55°	1916.8	1957.8	1980.4	2020.4	2113.8	2188.7	2209.2	2306.7	2242.0	2122.0	1847.0
57.5°	2130.2	2217.4	2298.5	2352.9	2509.9	2597.1	2641.2	2852.6	2773.6	2646.3	2221.5
60°	2406.2	2671.0	2891.6	3013.7	3220.9	3310.2	3486.7	3710.4	3654.0	3466.2	2892.6
62.5°	2858.7	3329.7	3666.3	3823.3	3872.5	3988.5	4153.7	4365.1	4277.8	3844.8	3245.6
64°	3117.3	3648.8	3990.5	4129.0	4059.3	4186.5	4299.4	4461.5	4314.8	3841.7	3191.2
65°	3227.1	3767.9	4095.2	4226.5	4086.0	4190.6	4284.0	4385.6	4201.9	3741.2	3057.8
67.5°	3254.8	3776.1	4068.5	4146.5	3913.6	3882.8	3898.2	3887.9	3641.6	3220.9	2611.4
70°	2838.2	3337.9	3747.3	3846.9	3534.9	3369.7	3361.5	3263.0	3012.6	2681.2	2150.7
72.5°	2191.8	2627.9	3033.2	3167.6	2873.1	2742.8	2712.0	2518.1	2309.8	2003.0	1620.2
75°	1484.8	1837.8	1955.8	1964.0	1728.0	1658.2	1613.0	1437.6	1257.0	1125.6	950.2
77.5°	872.2	1017.9	910.2	801.4	628.0	445.3	331.4	276.0	301.7	300.6	283.2
80°	737.8	692.6	560.3	434.0	311.9	176.5	128.3	108.8	110.8	112.9	110.8
82.5°	793.2	844.5	716.2	508.9	381.7	224.7	108.8	78.0	89.3	98.5	94.4
85°	672.1	824.0	767.5	550.0	409.4	236.0	77.0	51.3	65.7	81.1	86.2
87.5°	260.6	380.7	308.9	212.4	142.6	79.0	45.1	36.9	46.2	64.6	70.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
2.5°	101.6	104.7	109.8	109.8	106.7	109.8	124.2	141.6	151.9	160.1	169.3
5°	105.7	138.5	161.1	164.2	160.1	115.9	107.7	107.7	111.8	115.9	106.7
7.5°	147.8	140.6	98.5	104.7	105.7	106.7	105.7	108.8	109.8	145.7	166.2
10°	168.3	152.9	148.8	124.2	115.9	162.1	162.1	163.2	169.3	170.3	169.3
12.5°	164.2	157.0	158.0	210.4	226.8	216.5	175.5	162.1	169.3	193.9	217.5
15°	219.6	234.0	248.3	217.5	227.8	220.6	259.6	269.9	222.7	219.6	226.8
17.5°	234.0	282.2	284.2	271.9	306.8	274.0	266.8	269.9	265.8	246.3	278.1
20°	385.8	359.1	334.5	306.8	332.5	322.2	316.0	319.1	316.0	317.1	280.1
22.5°	409.4	398.1	419.7	408.4	384.8	359.1	369.4	363.2	329.4	365.3	337.6
25°	532.5	524.3	478.2	425.8	461.7	408.4	383.8	408.4	402.2	374.5	374.5
27.5°	560.3	558.2	550.0	559.2	491.5	462.8	492.5	421.7	425.8	435.1	433.0
30°	648.5	647.5	578.7	586.9	582.8	532.5	513.1	520.2	472.0	463.8	482.3
32.5°	742.9	681.3	662.9	669.0	620.8	588.0	577.7	537.7	519.2	510.0	480.2
35°	783.9	781.9	765.5	707.0	688.5	627.0	617.7	571.5	554.1	547.9	532.5
37.5°	838.3	836.3	818.8	788.0	743.9	671.1	639.3	608.5	569.5	544.9	564.4
40°	911.2	895.8	878.3	828.1	767.5	701.9	656.7	603.4	578.7	555.1	582.8
42.5°	1040.5	971.7	928.6	865.0	783.9	704.9	654.7	603.4	556.1	549.0	553.1
45°	1154.4	1044.6	970.7	888.6	791.1	698.8	635.2	576.7	543.8	516.1	515.1
47.5°	1253.9	1127.7	1009.7	907.1	787.0	682.4	606.4	543.8	502.8	476.1	463.8
50°	1347.3	1214.9	1049.7	913.2	769.6	650.6	565.4	498.7	447.4	417.6	414.5
52.5°	1440.7	1276.5	1083.6	904.0	735.7	602.3	505.9	435.1	379.7	355.0	349.9
55°	1573.0	1311.4	1101.0	871.2	682.4	536.7	435.1	360.2	304.8	292.4	285.3
57.5°	1851.1	1425.3	1118.5	819.9	603.4	451.5	352.0	287.3	246.3	234.0	227.8
60°	2298.5	1642.8	1158.5	741.9	495.6	356.1	268.8	215.5	187.8	180.6	177.5
62.5°	2508.8	1700.3	1096.9	623.9	379.7	253.4	188.8	151.9	137.5	135.4	137.5
64°	2442.1	1602.8	977.9	532.5	302.7	196.0	145.7	121.1	112.9	111.8	115.9
65°	2324.1	1492.0	887.6	470.0	251.4	162.1	122.1	104.7	98.5	100.6	103.6
67.5°	1919.8	1153.3	601.3	281.2	145.7	99.5	83.1	74.9	75.9	78.0	82.1
70°	1499.1	772.7	327.3	145.7	87.2	67.7	62.6	59.5	61.6	64.6	68.7
72.5°	1028.2	432.0	156.0	83.1	64.6	54.4	53.4	52.3	54.4	57.5	61.6
75°	538.7	180.6	88.2	65.7	56.4	49.3	50.3	49.3	51.3	54.4	57.5
77.5°	170.3	97.5	73.9	60.5	53.4	46.2	47.2	48.2	50.3	52.3	54.4
80°	92.3	81.1	66.7	56.4	50.3	43.1	45.1	46.2	49.3	50.3	50.3
82.5°	84.1	70.8	58.5	51.3	48.2	42.1	46.2	46.2	46.2	46.2	46.2
85°	73.9	57.5	48.2	45.1	45.1	40.0	43.1	43.1	41.0	41.0	39.0
87.5°	57.5	42.1	41.0	45.1	42.1	28.7	36.9	34.9	31.8	31.8	30.8
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):

	165°	170°	175°	180°
0°	101.6	101.6	101.6	101.6
2.5°	168.3	169.3	165.2	165.2
5°	105.7	106.7	105.7	105.7
7.5°	172.4	170.3	176.5	170.3
10°	173.4	168.3	167.3	168.3
12.5°	225.7	225.7	226.8	226.8
15°	225.7	224.7	226.8	225.7
17.5°	283.2	285.3	286.3	285.3
20°	286.3	287.3	295.5	289.4
22.5°	339.6	345.8	345.8	344.8
25°	354.0	399.2	408.4	407.4
27.5°	406.3	411.5	412.5	411.5
30°	462.8	464.8	470.0	467.9
32.5°	487.4	520.2	526.4	524.3
35°	528.4	519.2	540.8	562.3
37.5°	553.1	550.0	555.1	554.1
40°	575.6	580.8	586.9	581.8
42.5°	554.1	551.0	554.1	552.0
45°	510.0	511.0	508.9	506.9
47.5°	454.6	454.6	452.5	452.5
50°	396.1	398.1	389.9	390.9
52.5°	334.5	336.6	330.4	324.2
55°	277.0	278.1	269.9	267.8
57.5°	223.7	226.8	219.6	216.5
60°	177.5	178.5	176.5	176.5
62.5°	140.6	138.5	136.5	137.5
64°	119.0	120.1	117.0	119.0
65°	106.7	108.8	106.7	108.8
67.5°	85.2	88.2	87.2	88.2
70°	72.9	73.9	72.9	72.9
72.5°	64.6	65.7	63.6	62.6
75°	60.5	59.5	58.5	57.5
77.5°	55.4	55.4	53.4	52.3
80°	49.3	48.2	46.2	44.1
82.5°	45.1	43.1	38.0	34.9
85°	38.0	34.9	28.7	22.6
87.5°	30.8	27.7	17.4	9.2
90°	0.0	0.0	0.0	0.0

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