

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: P179328

Luminaire Tested: **UTLD-E02-LED-E-U-T2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34326)
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-T2-HSS-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2430.3 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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



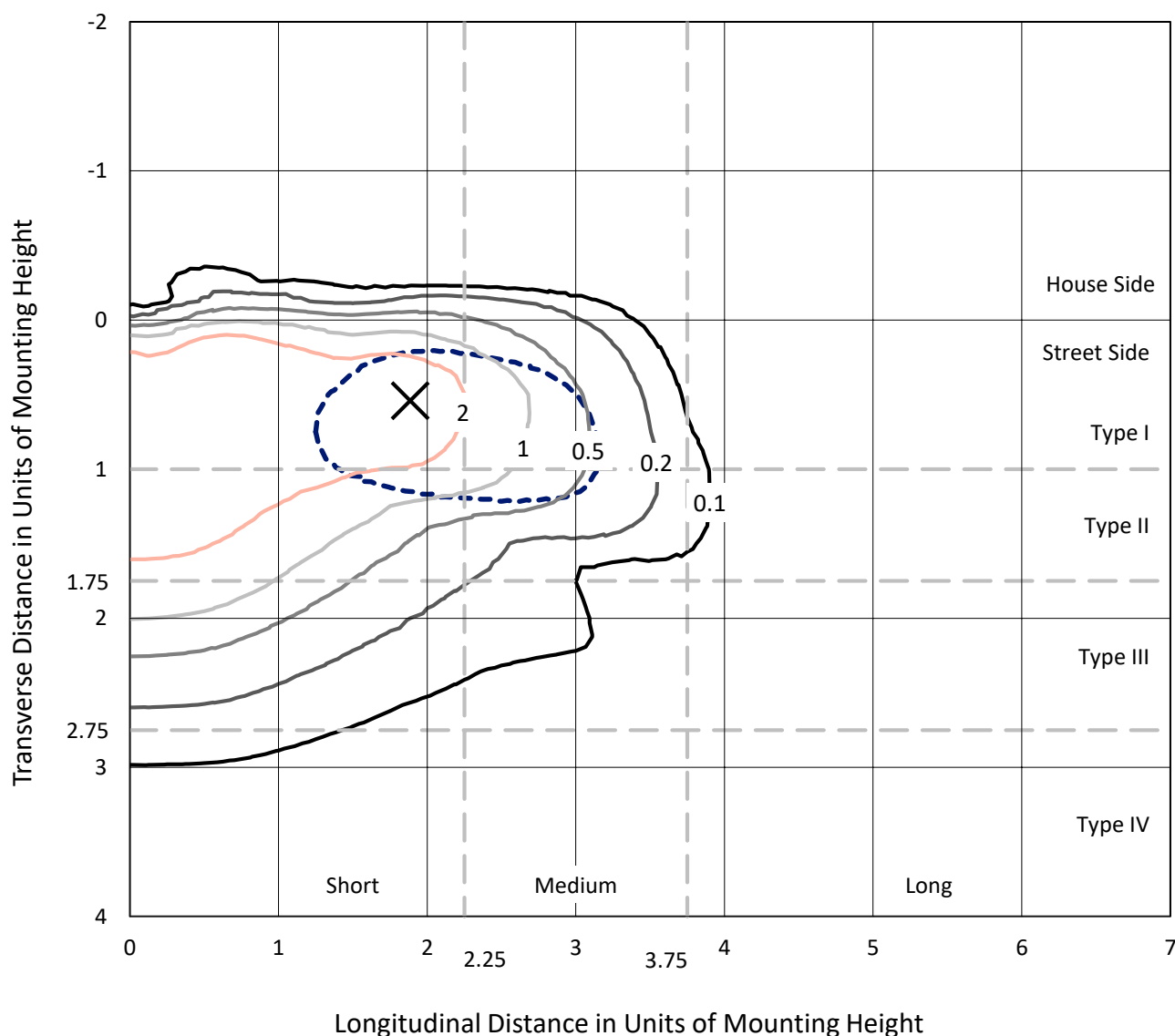
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

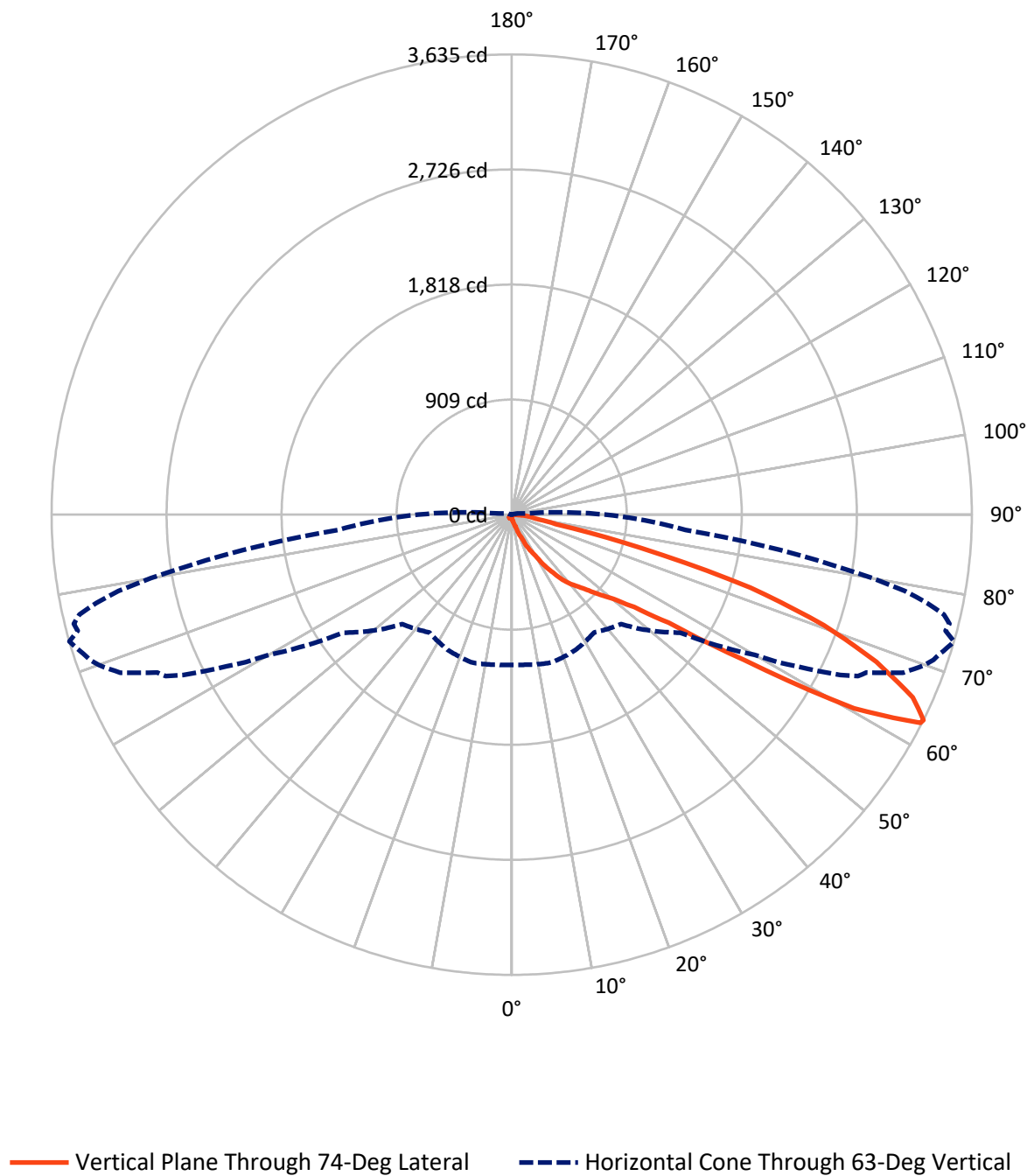


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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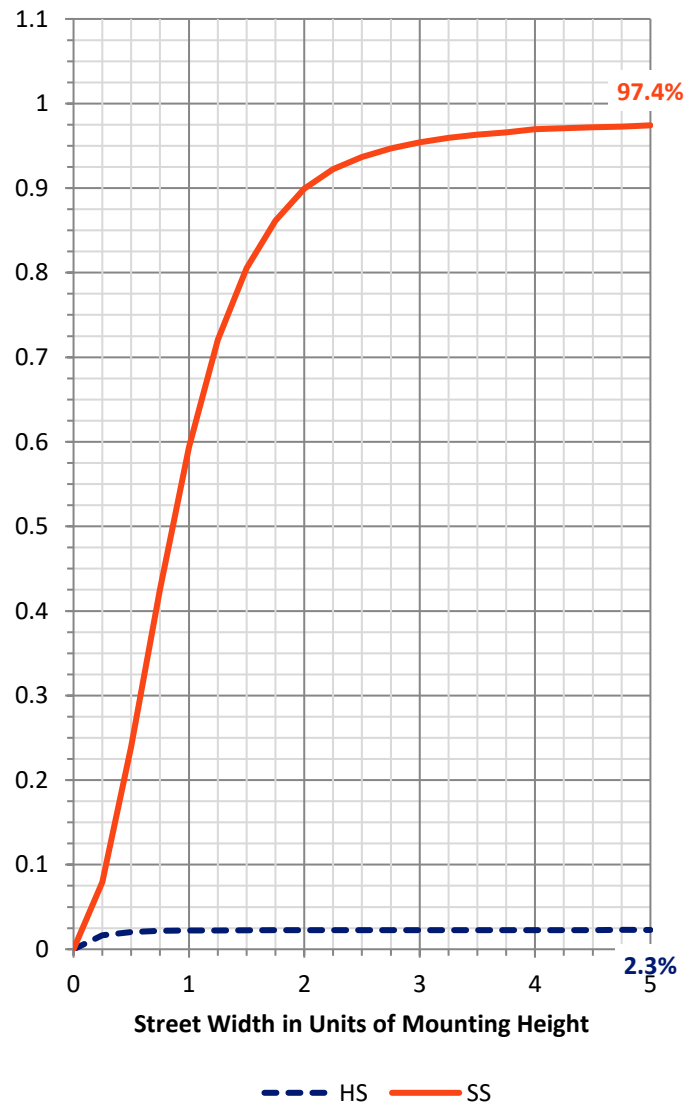
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.4	0.0	56.4
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2373.9	0.0	2373.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	2430.3	0.0	2430.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.2
10°-20°	28.0	1.2
20°-30°	90.7	3.7
30°-40°	216.8	8.9
40°-50°	407.1	16.8
50°-60°	639.9	26.3
60°-70°	751.6	30.9
70°-80°	258.1	10.6
80°-90°	34.2	1.4
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°	2430.3	100.0
0°-180°	2430.3	100.0

Coefficient of Utilization



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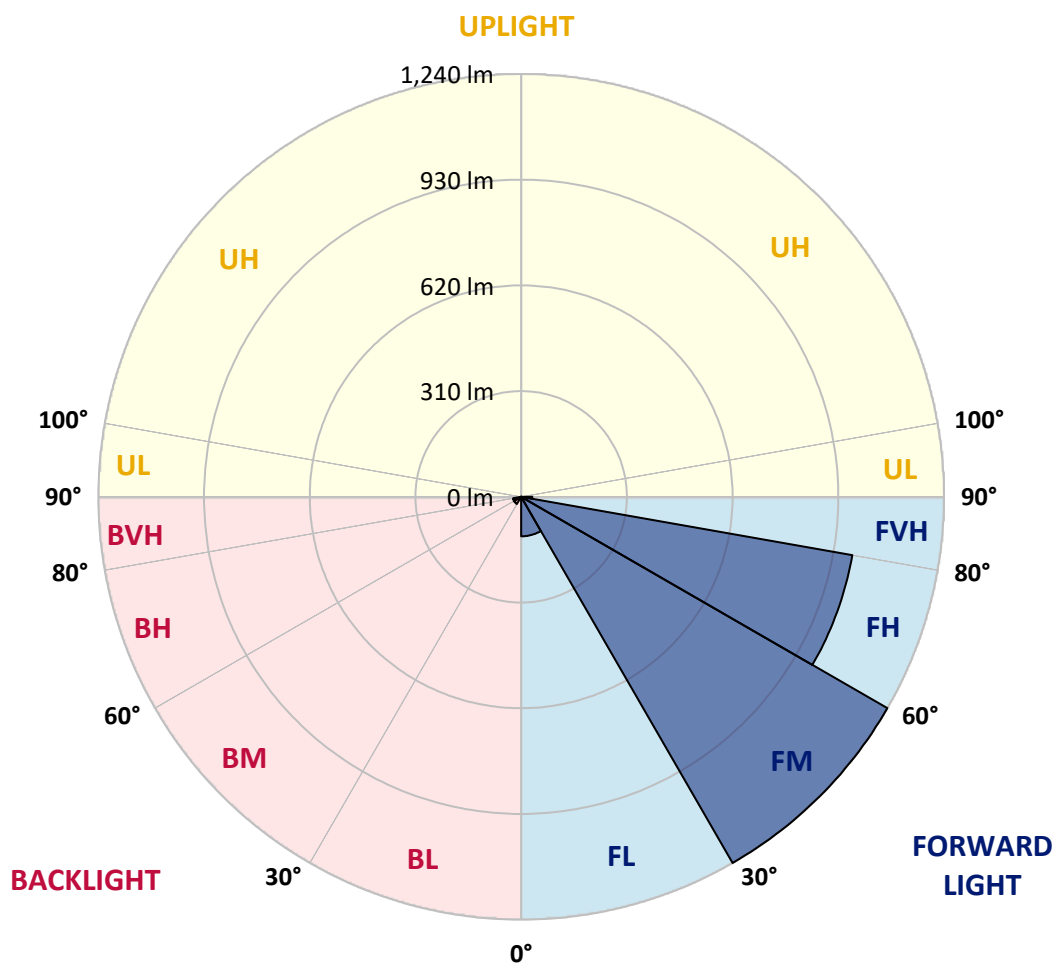
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.8	4.8			
FM	(30°-60°)	1239.6	51.0			
FH	(60°-80°)	985.8	40.6			G1/1800
FVH	(80°-90°)	32.7	1.3			G1/100
BL	(0°-30°)	6.9	0.3	B0/110		
BM	(30°-60°)	24.1	1.0	B0/220		
BH	(60°-80°)	23.9	1.0	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	46.4	45.6	43.9	42.2	41.4	39.7	38.8	37.1	37.1	36.3	37.1
5°	67.5	64.1	60.8	58.2	55.7	53.2	48.1	44.7	43.9	43.9	42.2
7.5°	127.4	122.4	119.0	113.9	104.7	79.3	59.1	54.9	54.0	53.2	51.5
10°	145.2	144.3	142.6	136.7	129.1	115.6	102.1	70.1	68.4	65.8	66.7
12.5°	208.5	205.9	207.6	196.6	180.6	147.7	134.2	119.8	116.5	113.9	104.7
15°	285.3	281.0	227.0	219.4	205.1	203.4	154.5	138.4	135.0	129.1	123.2
17.5°	302.1	304.7	300.5	282.7	251.5	225.3	220.3	175.6	170.5	168.0	161.2
20°	389.1	389.1	372.2	307.2	308.1	281.9	254.9	223.7	201.7	196.6	203.4
22.5°	401.7	403.4	398.4	403.4	330.8	333.4	335.9	317.3	309.7	300.5	288.6
25°	470.1	472.6	460.8	413.6	427.9	387.4	389.1	365.4	353.6	373.0	369.7
27.5°	534.2	535.9	468.4	467.6	452.4	466.7	487.0	465.9	460.0	451.5	435.5
30°	562.1	565.5	544.4	564.6	538.5	508.1	534.2	564.6	558.7	544.4	548.6
32.5°	682.8	684.5	672.7	607.7	606.0	606.8	645.7	624.6	617.0	600.1	602.6
35°	831.3	830.5	737.6	722.5	680.3	706.4	708.1	728.4	702.2	720.8	703.0
37.5°	950.3	945.3	884.5	868.5	812.8	790.0	806.0	791.7	773.9	789.1	783.2
40°	1055.0	1060.1	1032.2	968.1	936.0	902.2	898.0	858.3	875.2	862.6	860.9
42.5°	1137.7	1146.1	1129.3	1067.6	1022.9	1017.0	999.3	950.3	977.3	953.7	957.1
45°	1239.8	1237.3	1206.1	1141.9	1111.5	1119.1	1130.1	1092.1	1093.8	1085.4	1066.0
47.5°	1336.9	1336.0	1316.6	1226.3	1188.3	1207.8	1271.1	1262.6	1231.4	1244.0	1199.3
50°	1419.6	1420.4	1397.6	1297.2	1249.1	1294.7	1417.9	1428.0	1412.8	1417.1	1364.7
52.5°	1448.3	1450.0	1439.8	1337.7	1287.9	1357.1	1536.9	1589.2	1604.4	1608.6	1551.3
55°	1419.6	1425.5	1423.0	1334.3	1287.1	1385.0	1640.7	1747.1	1786.7	1808.7	1774.1
57.5°	1365.6	1370.6	1380.8	1325.1	1278.6	1394.3	1732.7	1963.1	2034.0	2079.6	2091.4
60°	1302.3	1308.2	1338.6	1314.9	1266.0	1378.2	1781.7	2158.1	2284.7	2385.1	2543.8
62.5°	1216.2	1222.1	1247.4	1223.8	1171.5	1266.0	1671.9	2212.1	2388.5	2532.0	2827.4
63°	1186.7	1190.0	1209.4	1182.4	1135.2	1222.1	1624.7	2215.5	2402.8	2553.1	2887.3
65°	933.5	940.2	962.1	933.5	923.3	1010.3	1355.4	2106.6	2364.9	2527.8	2938.8
67.5°	509.8	518.2	551.1	538.5	596.7	694.6	898.9	1537.8	1891.4	2122.6	2591.1
70°	370.5	370.5	398.4	406.8	435.5	511.5	593.3	781.5	987.5	1256.7	1855.1
72.5°	269.2	275.1	298.8	322.4	363.8	455.8	584.9	454.1	467.6	551.1	976.5
75°	134.2	146.0	172.2	200.0	243.1	346.9	619.5	470.9	427.9	416.9	498.8
77.5°	31.2	32.1	52.3	103.0	124.1	199.2	490.4	575.6	518.2	490.4	438.9
80°	16.0	16.9	21.1	51.5	56.5	71.7	257.4	607.7	614.4	597.5	492.9
82.5°	8.4	8.4	12.7	21.9	21.9	25.3	73.4	369.7	512.3	581.5	568.8
85°	3.4	3.4	7.6	11.0	11.8	11.0	20.3	145.2	256.6	333.4	446.5
87.5°	0.8	0.8	2.5	4.2	5.1	5.9	9.3	27.0	44.7	61.6	103.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	36.3	36.3	36.3	35.4	35.4	35.4	35.4	34.6	34.6	34.6	32.1
5°	41.4	41.4	40.5	39.7	39.7	38.8	38.8	38.8	38.0	38.0	37.1
7.5°	50.6	49.8	49.0	47.3	46.4	45.6	45.6	43.9	43.0	42.2	41.4
10°	66.7	65.8	63.3	61.6	59.9	58.2	56.5	55.7	54.0	53.2	51.5
12.5°	91.2	79.3	76.8	74.3	70.9	68.4	66.7	65.0	64.1	61.6	62.5
15°	131.7	129.1	126.6	124.9	120.7	102.1	94.5	92.8	89.5	86.9	83.6
17.5°	159.5	157.0	151.1	141.8	140.1	136.7	132.5	128.3	108.0	97.9	94.5
20°	206.8	202.6	208.5	206.8	200.0	193.3	185.7	181.5	176.4	167.1	151.9
22.5°	259.1	259.1	251.5	246.4	238.0	227.0	226.2	216.9	199.2	192.4	189.9
25°	369.7	374.7	359.5	340.1	338.4	328.3	303.8	291.2	282.7	273.5	269.2
27.5°	438.9	422.8	408.5	407.6	397.5	366.3	352.8	346.0	350.3	328.3	314.8
30°	530.9	519.1	515.7	500.5	481.9	459.1	454.9	445.6	422.0	390.8	373.0
32.5°	594.2	600.1	611.0	594.2	572.2	566.3	563.8	538.5	506.4	485.3	465.0
35°	713.2	704.7	688.7	662.5	655.8	655.8	637.2	599.2	576.4	562.9	557.9
37.5°	781.5	768.9	745.2	732.6	736.0	730.1	687.0	665.9	655.8	652.4	619.5
40°	855.0	830.5	809.4	812.8	820.4	778.2	754.5	742.7	746.1	719.1	677.7
42.5°	937.7	905.6	894.6	914.0	874.4	843.1	824.6	831.3	817.0	778.2	751.2
45°	1033.0	1001.0	1007.7	1001.8	952.9	924.2	926.7	912.4	885.3	855.8	829.6
47.5°	1147.0	1130.9	1151.2	1092.1	1049.9	1040.6	1034.7	1006.0	970.6	947.0	922.5
50°	1315.8	1324.2	1305.7	1235.6	1196.8	1194.2	1160.5	1118.3	1089.6	1049.9	1011.9
52.5°	1540.3	1564.8	1509.1	1453.4	1429.7	1412.0	1356.3	1308.2	1260.1	1212.0	1155.4
55°	1782.5	1830.6	1768.2	1742.8	1735.2	1746.2	1680.4	1631.4	1572.4	1505.7	1436.5
57.5°	2187.6	2200.3	2158.9	2194.4	2222.2	2226.4	2243.3	2207.0	2184.2	2164.8	2097.3
60°	2707.5	2729.5	2768.3	2893.2	2943.8	3015.6	3033.3	3080.6	3090.7	3107.6	3052.7
62.5°	2984.4	3032.5	3156.5	3303.4	3367.5	3435.9	3490.7	3533.8	3567.5	3622.4	3527.0
63°	3017.3	3066.2	3197.0	3334.6	3402.1	3472.2	3523.7	3557.4	3596.2	3635.1	3548.1
65°	3012.2	3066.2	3232.5	3305.9	3378.5	3417.3	3463.7	3466.3	3538.0	3483.2	3473.9
67.5°	2671.2	2813.9	2930.3	3009.7	3071.3	3101.7	3121.1	3144.7	3192.8	3106.7	3154.8
70°	2095.6	2277.9	2381.7	2479.6	2559.0	2581.8	2598.6	2672.9	2607.1	2614.7	2601.2
72.5°	1192.6	1475.3	1651.7	1757.2	1888.0	1911.6	1951.3	2013.8	1929.4	1972.4	1934.4
75°	639.7	750.3	903.9	1011.9	1064.3	1114.9	1163.9	1126.7	1103.1	1051.6	1041.5
77.5°	460.8	472.6	485.3	476.0	462.5	459.1	438.0	397.5	386.5	354.5	338.4
80°	461.7	417.8	367.1	303.0	235.5	205.1	192.4	188.2	188.2	188.2	177.2
82.5°	522.4	467.6	402.6	322.4	249.8	196.6	162.9	157.8	154.5	154.5	144.3
85°	424.5	418.6	371.4	297.1	232.9	176.4	136.7	111.4	102.1	91.2	86.9
87.5°	103.0	107.2	93.7	81.9	68.4	54.0	47.3	38.0	32.1	29.5	27.9
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):

	76°	77°	78°	79°	80°	85°	95°	105°	115°	125°	135°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	32.1	31.2	30.4	30.4	29.5	25.3	21.9	19.4	17.7	16.9	16.0
5°	37.1	36.3	36.3	35.4	35.4	28.7	19.4	16.9	15.2	13.5	13.5
7.5°	40.5	39.7	39.7	38.8	38.0	34.6	19.4	16.0	12.7	13.5	6.8
10°	50.6	49.8	48.1	47.3	46.4	43.9	23.6	16.9	15.2	5.9	5.1
12.5°	61.6	59.1	57.4	55.7	52.3	44.7	23.6	17.7	9.3	7.6	8.4
15°	79.3	76.0	72.6	70.1	67.5	58.2	31.2	21.9	10.1	9.3	9.3
17.5°	90.3	86.1	82.7	81.9	80.2	58.2	30.4	15.2	11.8	11.8	9.3
20°	138.4	137.6	130.0	120.7	112.3	86.1	41.4	19.4	16.0	11.8	11.8
22.5°	181.5	159.5	148.5	135.0	127.4	103.0	42.2	21.1	18.6	14.3	11.0
25°	248.1	224.5	211.8	193.3	186.5	129.1	46.4	27.0	21.1	15.2	12.7
27.5°	302.1	285.3	277.7	268.4	245.6	160.4	54.0	28.7	21.1	16.9	12.7
30°	351.9	352.8	330.0	301.3	278.5	191.6	57.4	31.2	21.9	16.0	12.7
32.5°	462.5	435.5	396.7	371.4	347.7	220.3	62.5	33.8	21.1	16.0	12.7
35°	526.7	485.3	463.4	440.6	410.2	262.5	68.4	32.9	21.1	15.2	11.8
37.5°	579.0	547.8	525.8	492.9	460.8	294.6	71.7	30.4	20.3	14.3	10.1
40°	644.8	622.9	583.2	554.5	521.6	308.1	74.3	27.9	18.6	12.7	8.4
42.5°	721.6	689.5	652.4	625.4	569.7	350.3	81.9	26.2	16.9	11.0	7.6
45°	801.8	760.4	736.8	680.3	615.3	380.6	87.8	25.3	15.2	9.3	5.9
47.5°	876.9	851.6	800.1	728.4	698.8	427.9	86.1	23.6	13.5	7.6	4.2
50°	980.7	946.1	876.1	835.6	787.4	465.9	83.6	22.8	11.8	6.8	3.4
52.5°	1125.9	1052.5	997.6	951.2	870.2	519.1	81.9	21.1	10.1	5.1	1.7
55°	1360.5	1245.7	1178.2	1091.3	1002.7	581.5	77.6	18.6	9.3	4.2	1.7
57.5°	1929.4	1805.3	1660.1	1494.7	1336.9	727.5	76.0	16.9	7.6	2.5	0.8
60°	2937.9	2856.9	2643.4	2375.8	2152.2	1023.8	81.9	14.3	5.9	1.7	0.8
62.5°	3526.2	3451.9	3300.0	3106.7	2806.3	1334.3	92.0	11.8	4.2	1.7	0.8
63°	3564.2	3504.3	3354.9	3165.0	2894.0	1377.4	97.1	11.8	4.2	1.7	0.8
65°	3493.3	3441.0	3357.4	3209.7	3033.3	1502.3	112.3	11.0	3.4	1.7	0.8
67.5°	3137.1	3081.4	3024.0	2962.4	2836.7	1542.8	123.2	10.1	2.5	1.7	0.8
70°	2594.4	2543.8	2481.3	2454.3	2386.0	1442.4	129.1	9.3	2.5	1.7	0.8
72.5°	1893.9	1835.7	1785.0	1711.6	1646.6	1091.3	95.4	9.3	1.7	1.7	0.8
75°	962.1	901.4	784.1	729.2	672.7	457.4	38.8	7.6	1.7	1.7	0.8
77.5°	281.0	252.4	204.2	165.4	125.8	81.9	14.3	5.1	1.7	1.7	0.8
80°	166.3	140.9	116.5	92.0	74.3	39.7	8.4	3.4	1.7	2.5	0.8
82.5°	135.9	121.5	100.4	82.7	65.0	29.5	5.9	3.4	2.5	2.5	0.8
85°	78.5	70.9	59.9	48.1	40.5	21.1	4.2	3.4	2.5	3.4	0.8
87.5°	28.7	26.2	24.5	23.6	21.9	15.2	4.2	4.2	3.4	4.2	0.8
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):

	145°	155°	165°	175°	180°
0°	23.6	23.6	23.6	23.6	23.6
2.5°	15.2	16.0	16.0	16.0	16.0
5°	14.3	14.3	12.7	10.1	10.1
7.5°	5.9	6.8	6.8	6.8	6.8
10°	5.1	8.4	9.3	9.3	9.3
12.5°	7.6	7.6	8.4	8.4	9.3
15°	7.6	9.3	10.1	10.1	10.1
17.5°	10.1	8.4	9.3	9.3	10.1
20°	9.3	10.1	10.1	10.1	10.1
22.5°	11.0	10.1	9.3	10.1	10.1
25°	10.1	10.1	9.3	9.3	9.3
27.5°	10.1	9.3	9.3	9.3	9.3
30°	10.1	9.3	8.4	8.4	8.4
32.5°	9.3	8.4	8.4	7.6	7.6
35°	8.4	6.8	7.6	7.6	7.6
37.5°	7.6	5.9	5.9	6.8	5.9
40°	5.9	5.1	4.2	5.1	5.1
42.5°	4.2	3.4	3.4	3.4	3.4
45°	3.4	1.7	1.7	1.7	1.7
47.5°	1.7	0.8	0.8	0.8	0.8
50°	0.8	0.0	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
63°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.8	0.0	0.0
75°	0.8	0.8	0.8	0.8	0.8
77.5°	1.7	1.7	1.7	0.8	0.8
80°	2.5	1.7	1.7	0.8	0.8
82.5°	2.5	2.5	2.5	1.7	0.8
85°	3.4	2.5	2.5	2.5	0.8
87.5°	4.2	3.4	3.4	2.5	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)