

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: P266537

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6861.5 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 96
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

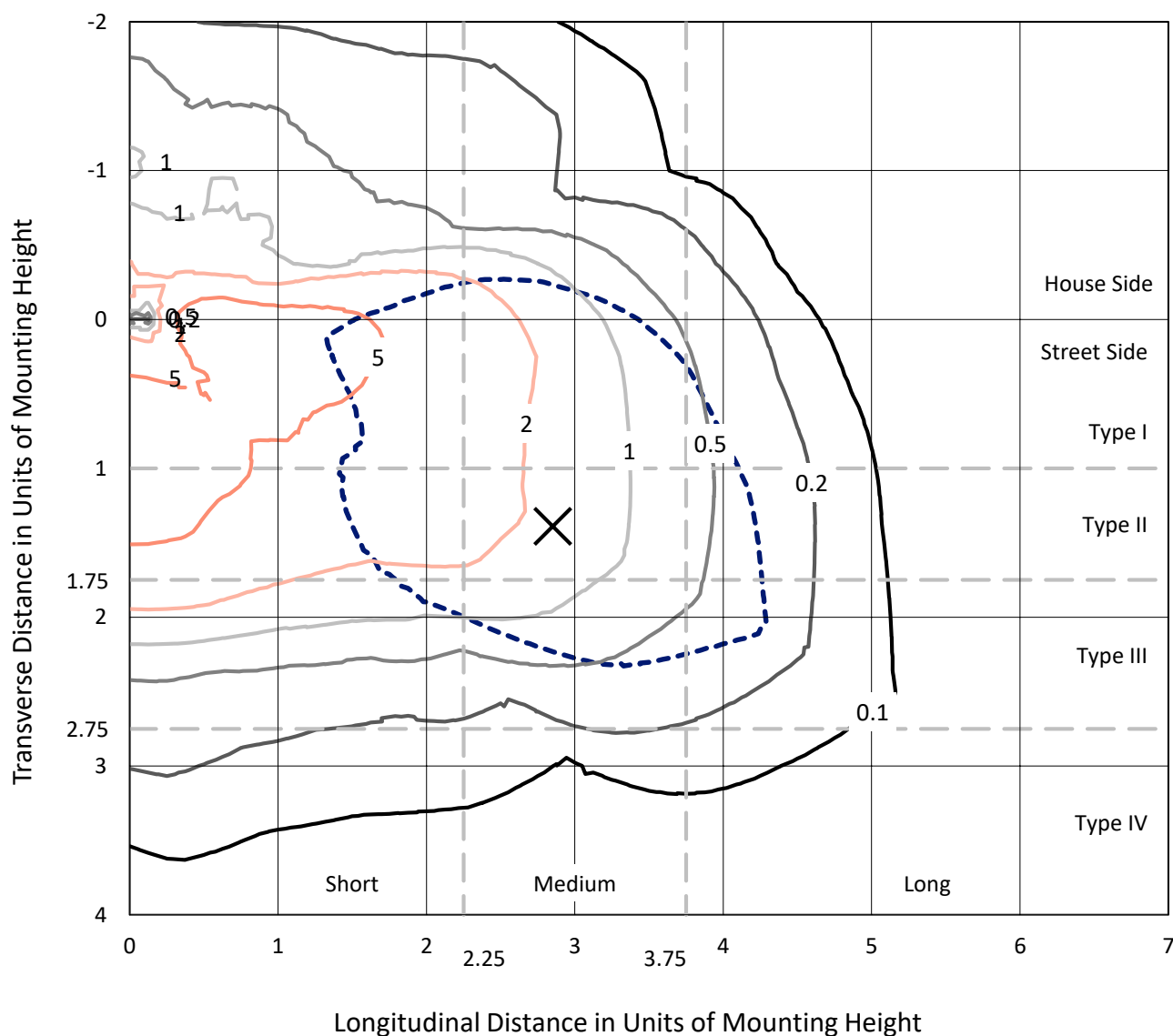


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

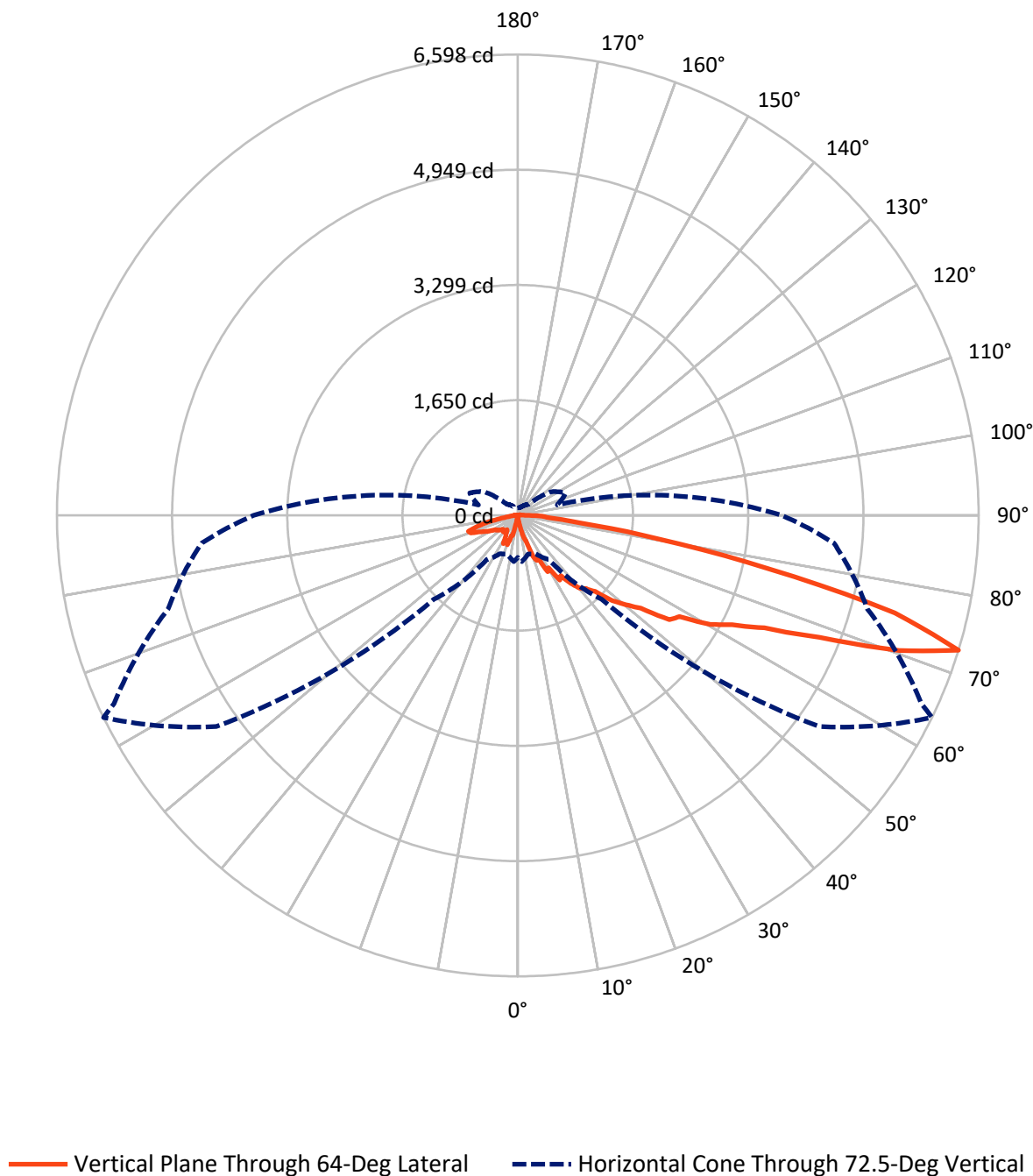


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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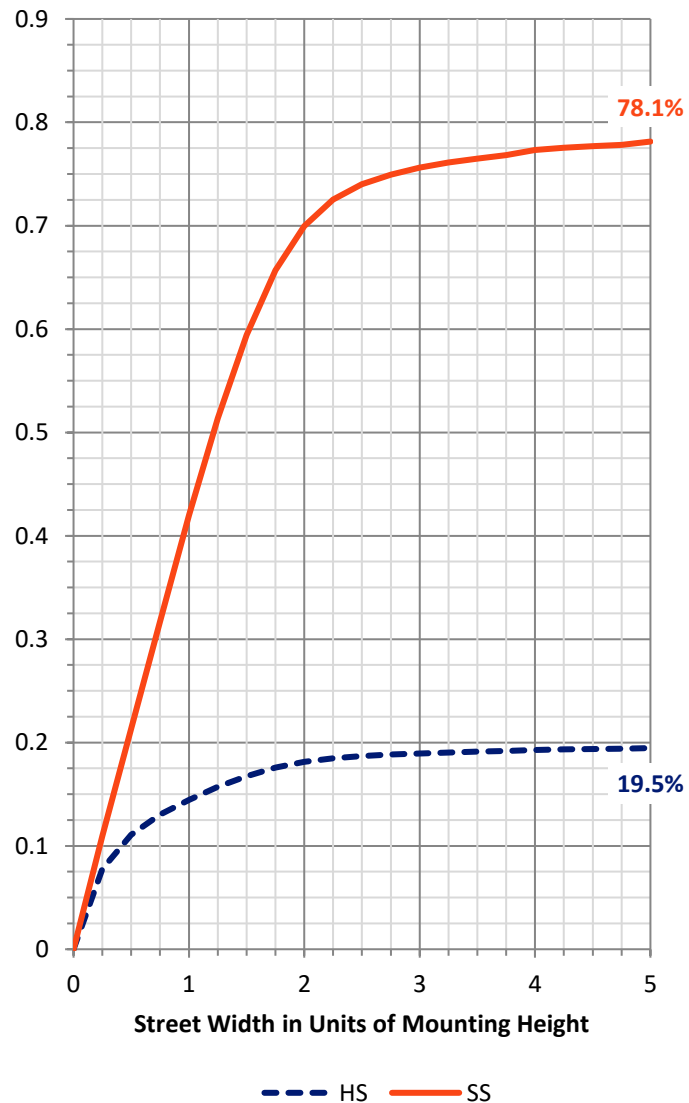
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.2	42.3	1400.5
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	5417.2	43.7	5460.9
	% Fixture	79.0	0.6	79.6
Total	Lumens	6775.5	86.0	6861.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	91.6	1.3
20°-30°	269.6	3.9
30°-40°	534.7	7.8
40°-50°	922.6	13.4
50°-60°	1491.5	21.7
60°-70°	1890.3	27.5
70°-80°	1354.3	19.7
80°-90°	212.4	3.1
90°-100°	42.8	0.6
100°-110°	19.0	0.3
110°-120°	9.8	0.1
120°-130°	7.2	0.1
130°-140°	4.5	0.1
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6775.5	98.7
0°-180°	6861.5	100.0

Coefficient of Utilization



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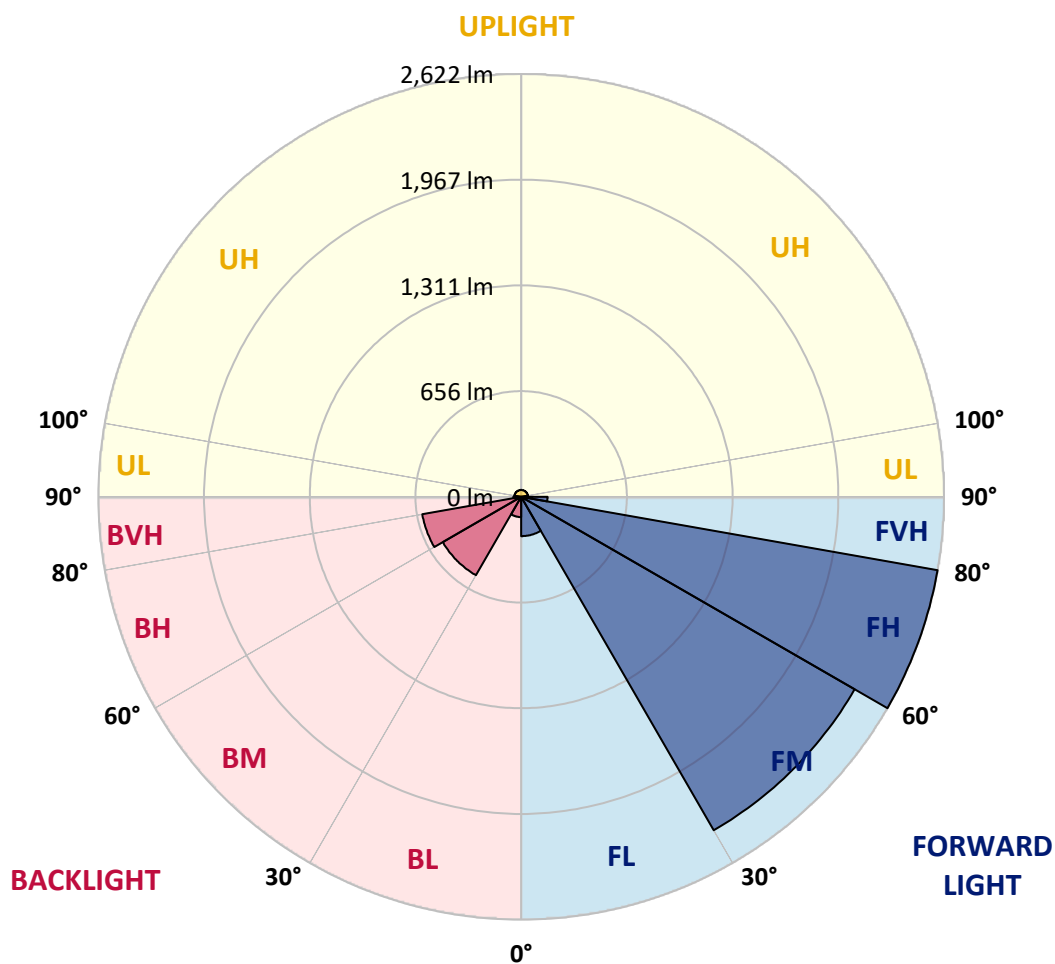
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.0	3.6			
FM	(30°-60°)	2387.7	34.8			
FH	(60°-80°)	2622.1	38.2			G2/5000
FVH	(80°-90°)	163.5	2.4			G2/225
BL	(0°-30°)	125.7	1.8	B1/500		
BM	(30°-60°)	561.1	8.2	B1/1000		
BH	(60°-80°)	622.5	9.1	B2/1000		G2/1000
BVH	(80°-90°)	49.0	0.7			G1/100
UL	(90°-100°)	42.8	0.6		U2/50	
UH	(100°-180°)	42.3	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	47.8	42.6	44.2	39.0	33.0	26.9	22.5	20.0	20.0	19.1	17.3
5°	165.9	169.4	190.4	159.9	145.0	189.5	53.0	30.5	28.7	20.0	16.4
7.5°	221.5	231.9	165.9	138.1	129.4	208.4	155.4	85.1	70.3	26.1	18.2
10°	419.6	390.9	264.1	288.4	268.5	171.1	113.8	116.4	106.9	42.6	29.6
12.5°	375.3	379.7	388.3	352.8	363.2	269.3	138.1	226.7	242.5	272.7	256.2
15°	437.8	419.6	352.8	383.9	365.8	425.6	358.0	333.6	366.6	377.1	313.6
17.5°	594.3	581.3	675.0	460.4	334.4	478.6	425.6	390.0	371.0	413.5	499.5
20°	546.4	547.3	586.5	520.4	540.4	440.4	428.3	629.8	755.8	716.8	696.7
22.5°	822.8	797.5	662.9	517.0	570.9	504.8	602.0	702.8	667.3	650.7	702.8
25°	799.3	808.8	768.9	776.7	571.6	675.0	627.2	670.7	713.3	1023.3	1153.8
27.5°	982.6	928.7	882.7	804.5	787.2	635.1	606.4	911.3	935.7	1026.0	1081.6
30°	1292.8	1265.8	1181.5	918.2	821.9	682.8	829.7	872.3	887.9	1207.6	1494.3
32.5°	1641.2	1542.1	1298.8	1201.6	894.0	842.7	781.0	1103.4	1085.2	1338.7	1510.0
35°	1897.4	1838.3	1609.0	1306.7	1074.7	900.9	1051.2	1060.8	1153.8	1401.4	1523.9
37.5°	1843.5	1860.0	1765.3	1559.5	1182.3	973.9	1137.3	1235.3	1244.2	1517.7	1615.1
40°	1983.4	1993.9	1960.8	1730.7	1363.9	1120.7	1278.0	1370.0	1297.2	1661.1	1726.3
42.5°	2065.1	2081.6	2145.1	1979.1	1538.5	1281.4	1498.6	1433.4	1369.1	1784.5	1963.4
45°	2243.2	2234.4	2262.3	2065.1	1797.5	1612.5	1573.3	1553.3	1577.8	2005.9	2192.0
47.5°	2491.7	2526.5	2389.1	2106.7	1992.1	1694.2	1782.7	1821.0	1913.0	2292.7	2423.8
50°	2859.1	2814.7	2650.5	2291.8	2184.0	1801.8	2184.0	2008.6	1960.8	2554.2	2770.6
52.5°	3008.6	2979.9	2747.0	2370.0	2304.1	2005.9	2252.0	2207.6	2191.1	2915.5	3156.3
55°	3067.6	3046.8	2950.4	2383.9	2412.6	2310.9	2582.8	2634.1	2606.3	3145.0	3545.5
57.5°	2911.2	2946.0	2953.0	2440.3	2486.4	2346.6	3103.3	2732.3	2931.3	3432.6	3847.8
60°	2699.2	2701.1	2793.1	2433.5	2555.0	2574.2	3216.2	3165.7	3351.8	3584.5	3931.3
62.5°	2175.4	2237.0	2389.1	2384.8	2650.5	2869.5	3771.4	3446.4	3519.4	3739.3	4192.7
65°	1443.0	1476.1	1660.2	1977.3	2480.3	3105.0	4227.5	3882.6	3985.9	4033.7	4573.2
67.5°	860.9	901.8	927.9	1263.1	2071.1	3152.0	5173.6	4656.6	4562.9	4479.4	4954.6
70°	719.4	746.3	670.7	755.8	1265.8	2861.7	5629.7	5789.4	5484.6	5082.3	5035.4
72.5°	602.9	662.1	571.6	604.6	770.6	1698.4	5269.9	6598.3	6376.8	5183.1	4542.8
75°	447.4	530.0	476.1	542.9	711.5	872.3	3976.3	5575.8	5506.3	4492.5	3371.7
77.5°	349.3	364.1	298.0	410.0	683.7	721.1	2385.7	3675.8	3615.9	2864.3	1563.8
80°	245.0	251.0	235.4	213.7	528.3	676.0	1208.5	2038.2	1911.4	889.6	519.5
82.5°	154.7	165.1	184.2	145.0	256.2	630.7	666.4	897.4	799.3	302.3	258.1
85°	93.0	101.7	113.8	101.7	120.0	482.2	516.0	461.3	421.3	184.2	163.3
87.5°	53.9	56.5	68.6	70.3	89.6	280.6	411.9	343.2	301.6	122.4	106.0
90°	37.4	34.8	34.8	36.6	46.1	122.4	201.6	120.0	120.7	64.3	55.7
92.5°	28.7	28.7	31.4	31.4	44.2	107.7	93.0	64.3	60.8	53.9	44.2
95°	21.6	23.4	23.4	25.2	30.5	33.0	46.1	47.8	47.8	48.7	39.0
97.5°	18.2	20.0	20.0	20.8	24.3	25.2	32.2	41.7	41.7	40.9	32.2
100°	17.3	18.2	17.3	17.3	20.0	19.1	26.1	35.7	37.4	35.7	27.8
102.5°	16.4	17.3	15.6	14.0	17.3	14.0	21.6	32.2	33.0	26.1	21.6
105°	16.4	16.4	14.0	11.3	14.0	11.3	18.2	22.5	22.5	18.2	20.8
107.5°	16.4	15.6	12.1	9.5	10.4	9.5	14.7	14.7	14.7	14.0	20.0
110°	14.7	14.0	11.3	8.8	7.8	7.8	10.4	10.4	10.4	12.1	20.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	13.0	12.1	9.5	6.9	6.1	6.1	6.9	7.8	7.8	11.3	19.1
115°	11.3	11.3	8.8	6.9	5.2	5.2	6.1	6.9	6.9	10.4	18.2
117.5°	11.3	11.3	7.8	6.1	4.3	4.3	5.2	6.1	6.1	10.4	19.1
120°	11.3	11.3	7.8	5.2	4.3	3.5	4.3	5.2	5.2	11.3	20.0
122.5°	10.4	10.4	7.8	5.2	3.5	3.5	3.5	5.2	5.2	10.4	18.2
125°	10.4	10.4	6.9	5.2	3.5	3.5	3.5	4.3	5.2	11.3	18.2
127.5°	9.5	9.5	7.8	5.2	3.5	2.6	3.5	4.3	4.3	10.4	17.3
130°	9.5	9.5	6.9	4.3	2.6	2.6	2.6	3.5	4.3	9.5	15.6
132.5°	8.8	8.8	6.1	4.3	2.6	1.7	2.6	3.5	3.5	8.8	14.0
135°	8.8	8.8	6.9	4.3	2.6	1.7	2.6	3.5	3.5	7.8	12.1
137.5°	7.8	7.8	6.1	4.3	2.6	1.7	1.7	2.6	3.5	7.8	11.3
140°	7.8	7.8	6.9	5.2	2.6	1.7	1.7	2.6	2.6	6.1	8.8
142.5°	8.8	8.8	6.9	4.3	2.6	1.7	1.7	1.7	2.6	4.3	6.9
145°	7.8	7.8	6.1	4.3	2.6	0.9	0.9	1.7	2.6	4.3	6.1
147.5°	7.8	7.8	6.9	4.3	1.7	0.9	0.9	1.7	1.7	3.5	5.2
150°	6.9	6.9	5.2	2.6	0.9	0.0	0.9	1.7	1.7	2.6	4.3
152.5°	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.9	0.9	1.7	2.6
155°	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
157.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	17.3	17.3	17.3	17.3	16.4	16.4	15.6	15.6	15.6	15.6	15.6
5°	16.4	16.4	16.4	15.6	14.7	14.0	14.7	14.0	14.0	14.0	14.0
7.5°	17.3	17.3	15.6	14.7	14.7	14.7	19.1	115.5	255.4	218.9	227.6
10°	32.2	30.5	26.1	21.6	20.0	114.7	218.9	200.7	152.9	127.6	131.2
12.5°	318.9	286.6	185.1	128.5	147.7	152.1	137.4	150.2	245.0	224.1	225.0
15°	318.9	326.7	267.5	301.6	260.6	121.6	234.5	279.7	271.9	250.2	262.3
17.5°	538.7	535.2	333.6	306.7	252.0	254.6	220.7	192.0	178.1	175.4	178.1
20°	798.5	665.5	635.9	463.0	283.2	259.8	182.4	154.7	197.2	243.3	249.3
22.5°	702.8	702.8	570.9	413.5	350.1	222.4	199.0	197.2	236.3	233.6	245.0
25°	1186.8	1031.3	739.3	398.8	305.9	225.8	201.6	183.3	205.9	237.2	234.5
27.5°	1094.7	1015.7	730.6	479.5	239.8	245.9	185.9	180.6	231.9	249.3	251.0
30°	1381.4	1272.8	738.4	360.5	241.6	189.5	172.0	184.2	193.8	210.3	212.0
32.5°	1430.9	1295.4	708.9	324.9	254.6	182.4	174.6	173.7	197.2	226.7	229.3
35°	1400.5	1243.3	668.1	273.7	255.4	184.2	178.9	198.0	180.6	211.1	215.5
37.5°	1609.0	1269.2	602.9	255.4	234.5	189.5	234.5	189.5	188.6	198.0	199.9
40°	1606.3	1327.4	529.1	311.9	234.5	311.9	245.0	197.2	169.4	185.9	186.8
42.5°	1735.9	1360.6	464.0	321.5	252.9	361.4	228.4	192.0	201.6	212.0	222.4
45°	1885.3	1464.7	434.4	289.3	284.9	279.7	238.1	250.2	182.4	292.8	305.0
47.5°	2089.4	1598.5	394.4	283.2	386.6	281.4	453.6	232.8	200.7	346.7	353.7
50°	2394.3	1834.0	397.9	311.1	354.4	301.6	305.0	252.9	271.1	360.5	362.2
52.5°	2719.3	2031.2	374.5	343.2	348.5	370.1	324.9	377.8	266.6	346.7	346.7
55°	3006.8	2322.2	385.7	361.4	364.1	322.3	457.9	278.8	265.9	348.5	357.0
57.5°	3382.2	2633.2	463.0	377.8	373.5	344.1	353.7	345.8	312.8	354.4	359.7
60°	3581.2	2860.1	580.3	424.8	390.9	397.1	418.8	332.7	284.0	414.4	430.8
62.5°	3896.5	3186.6	735.1	481.3	496.0	406.7	357.0	362.2	302.3	330.1	333.6
65°	4260.5	3526.3	811.3	536.8	534.3	451.8	404.9	281.4	196.3	181.5	180.6
67.5°	4534.1	3657.4	742.8	600.2	666.4	433.5	278.0	199.9	151.2	142.6	145.0
70°	4357.8	3357.9	635.9	720.3	674.2	336.2	239.8	159.0	129.4	121.6	125.9
72.5°	3780.8	2713.2	583.8	760.1	591.7	226.7	178.9	139.9	116.4	108.5	110.3
75°	2672.4	1743.6	599.4	643.7	420.4	164.2	154.7	116.4	103.3	93.0	93.0
77.5°	1173.7	747.1	470.1	464.0	269.3	130.3	131.2	96.5	89.6	79.9	79.9
80°	472.6	395.3	276.3	268.5	179.8	102.4	104.3	79.9	80.8	67.7	63.4
82.5°	250.2	225.8	153.8	144.2	128.5	79.1	73.8	68.6	67.7	55.7	48.7
85°	164.2	148.6	100.8	93.9	95.6	58.2	61.7	65.1	59.9	46.1	32.2
87.5°	101.7	100.8	71.2	67.7	71.2	41.7	50.3	53.0	50.3	34.8	20.8
90°	47.8	52.1	47.8	46.9	46.9	20.0	39.0	41.7	40.9	27.8	16.4
92.5°	37.4	42.6	44.2	45.2	45.2	20.8	40.9	43.5	41.7	28.7	18.2
95°	32.2	37.4	43.5	43.5	42.6	16.4	38.2	42.6	40.0	26.9	17.3
97.5°	26.9	31.4	37.4	37.4	40.9	14.0	35.7	40.9	40.0	28.7	18.2
100°	25.2	29.6	33.0	33.9	37.4	13.0	32.2	36.6	35.7	23.4	19.1
102.5°	23.4	25.2	26.1	26.9	27.8	12.1	25.2	27.8	26.9	17.3	17.3
105°	21.6	21.6	19.1	18.2	18.2	11.3	15.6	19.1	15.6	14.0	15.6
107.5°	21.6	20.8	15.6	14.0	14.0	10.4	12.1	12.1	10.4	14.0	14.7
110°	21.6	20.0	14.0	12.1	11.3	9.5	9.5	8.8	8.8	14.0	14.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.8	19.1	12.1	10.4	10.4	8.8	7.8	6.9	7.8	14.0	15.6
115°	20.0	18.2	11.3	10.4	9.5	7.8	6.9	5.2	7.8	14.7	16.4
117.5°	20.0	18.2	11.3	9.5	8.8	6.9	6.1	5.2	7.8	14.7	16.4
120°	20.8	18.2	11.3	8.8	7.8	6.1	5.2	5.2	7.8	14.7	16.4
122.5°	20.0	17.3	10.4	7.8	6.9	6.1	5.2	5.2	7.8	14.7	15.6
125°	19.1	17.3	10.4	6.9	6.1	5.2	4.3	4.3	8.8	14.7	15.6
127.5°	18.2	16.4	9.5	6.1	5.2	5.2	4.3	4.3	8.8	14.0	14.7
130°	16.4	14.7	9.5	6.1	4.3	4.3	3.5	3.5	8.8	14.0	14.7
132.5°	14.7	14.0	8.8	5.2	3.5	3.5	3.5	3.5	7.8	12.1	13.0
135°	13.0	11.3	7.8	4.3	3.5	2.6	2.6	2.6	6.9	10.4	11.3
137.5°	11.3	10.4	6.9	4.3	2.6	2.6	1.7	1.7	6.1	9.5	10.4
140°	9.5	8.8	6.1	3.5	2.6	2.6	1.7	1.7	4.3	6.9	7.8
142.5°	6.9	6.9	5.2	3.5	2.6	1.7	1.7	1.7	4.3	6.1	6.9
145°	6.1	6.1	5.2	3.5	2.6	1.7	0.9	0.9	2.6	4.3	4.3
147.5°	5.2	5.2	4.3	3.5	1.7	0.9	0.9	0.9	1.7	2.6	2.6
150°	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.9	1.7	1.7
152.5°	2.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)