

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: P266408

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5317.6 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 64
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

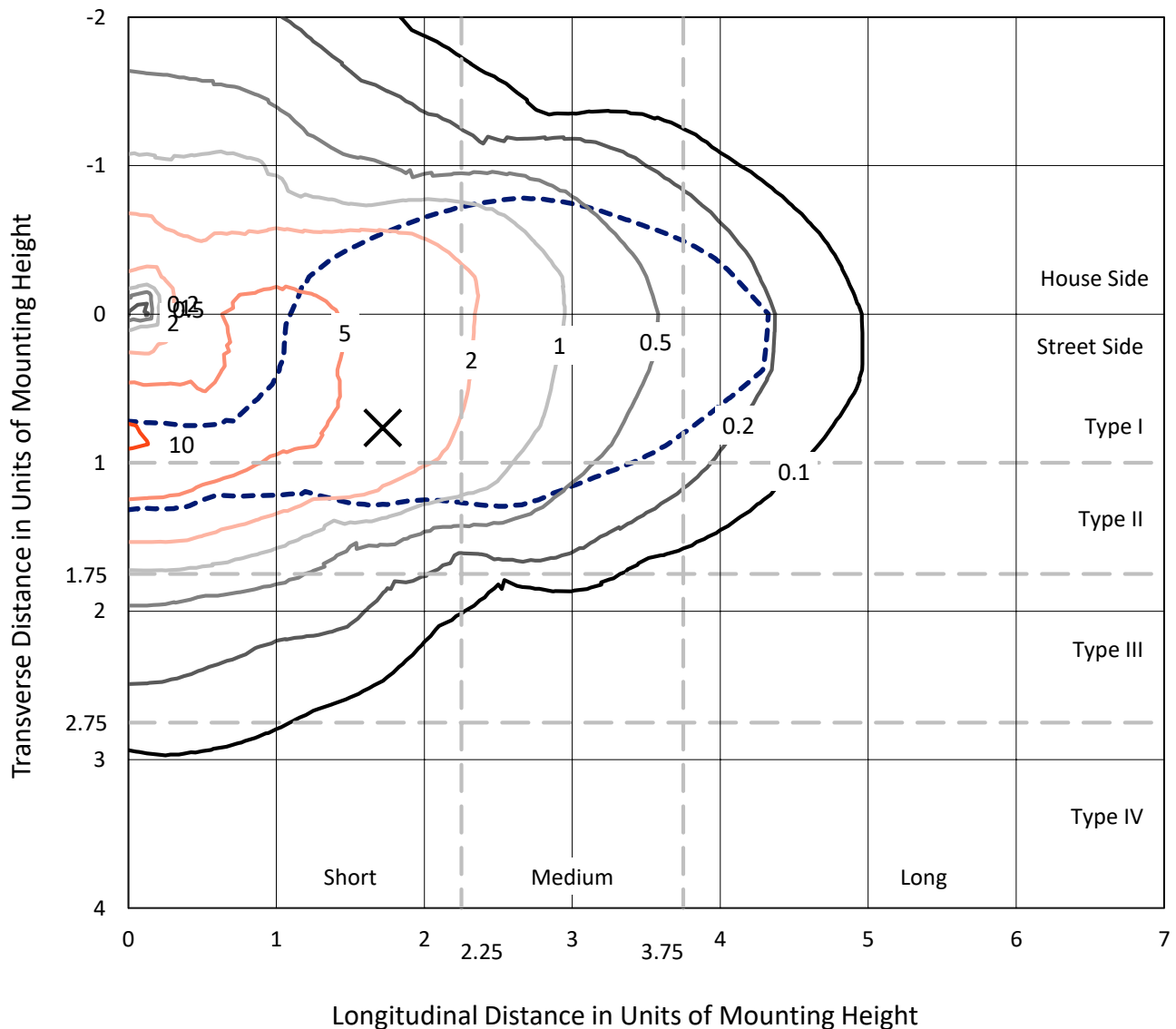


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

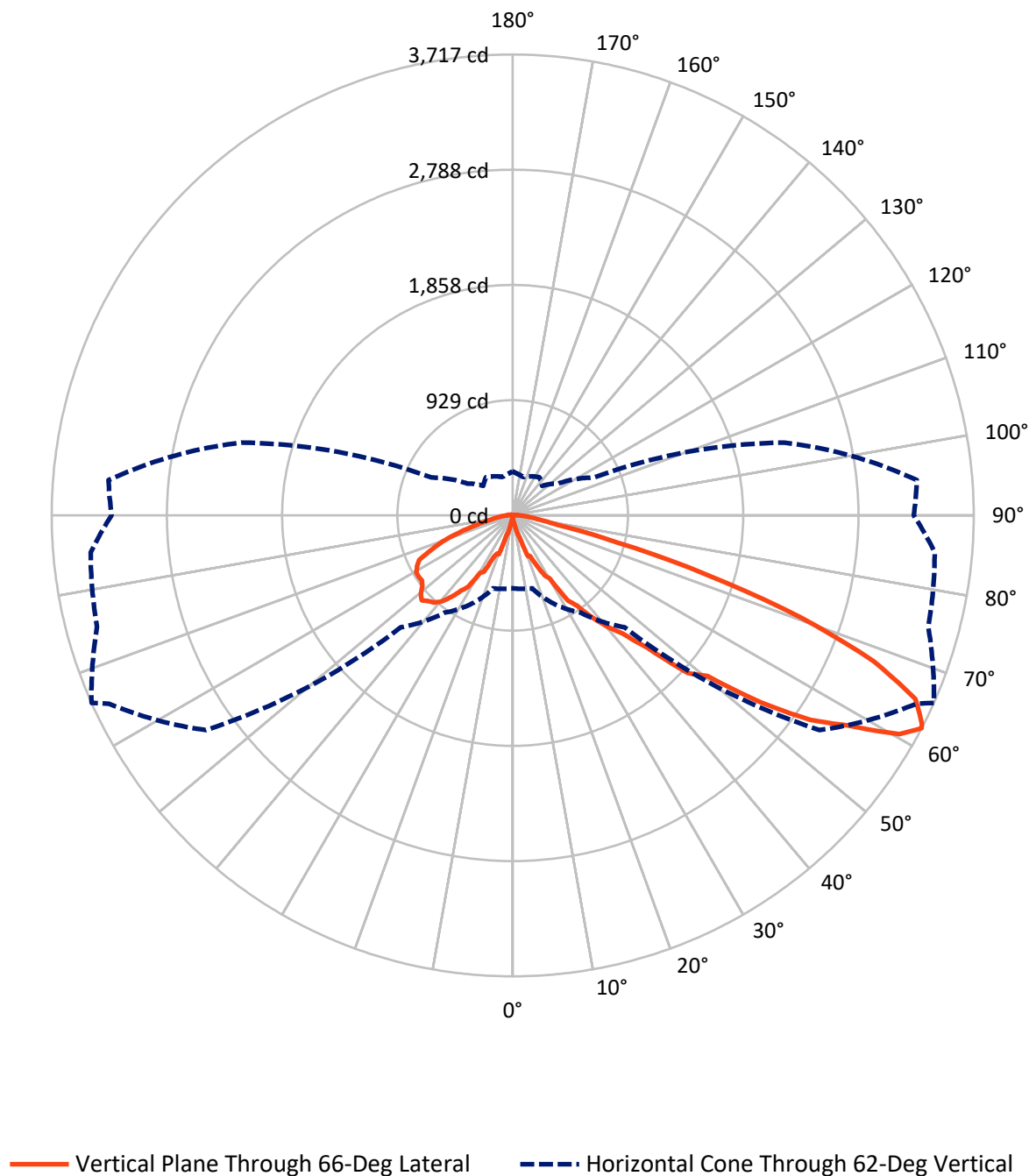


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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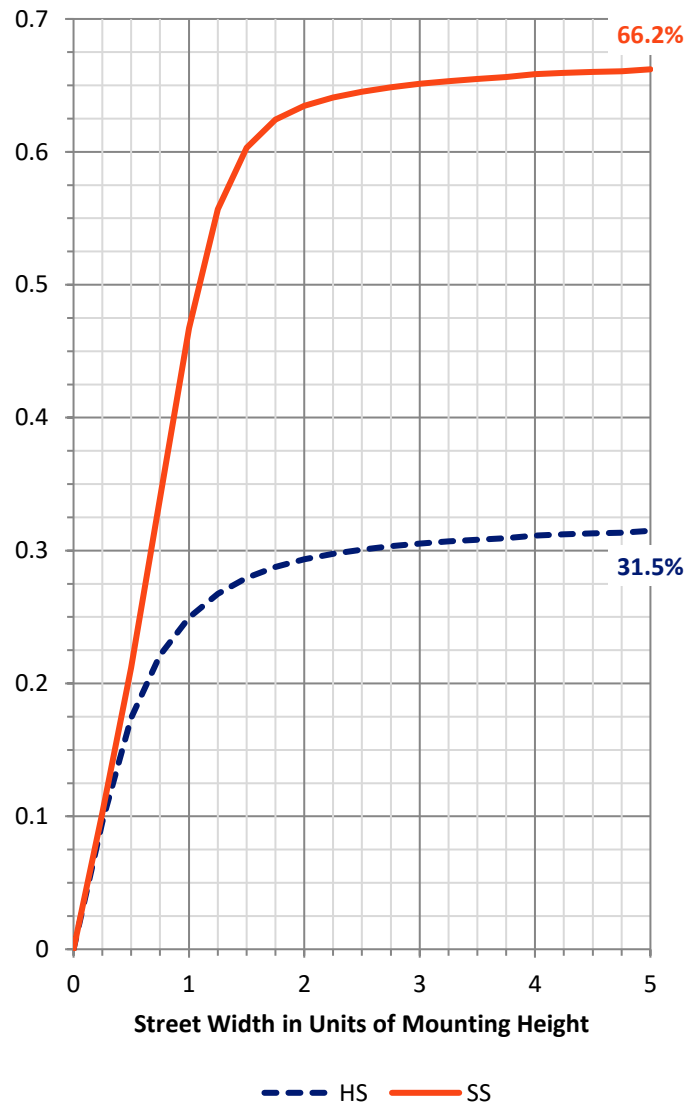
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1705.7	40.6	1746.3
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3541.4	29.9	3571.2
	% Fixture	66.6	0.6	67.2
Total	Lumens	5247.1	70.5	5317.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	54.0	1.0
20°-30°	213.8	4.0
30°-40°	532.6	10.0
40°-50°	1015.7	19.1
50°-60°	1385.2	26.1
60°-70°	1272.5	23.9
70°-80°	649.1	12.2
80°-90°	119.4	2.2
90°-100°	31.6	0.6
100°-110°	15.1	0.3
110°-120°	9.2	0.2
120°-130°	7.0	0.1
130°-140°	4.7	0.1
140°-150°	2.3	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5247.1	98.7
0°-180°	5317.6	100.0

Coefficient of Utilization



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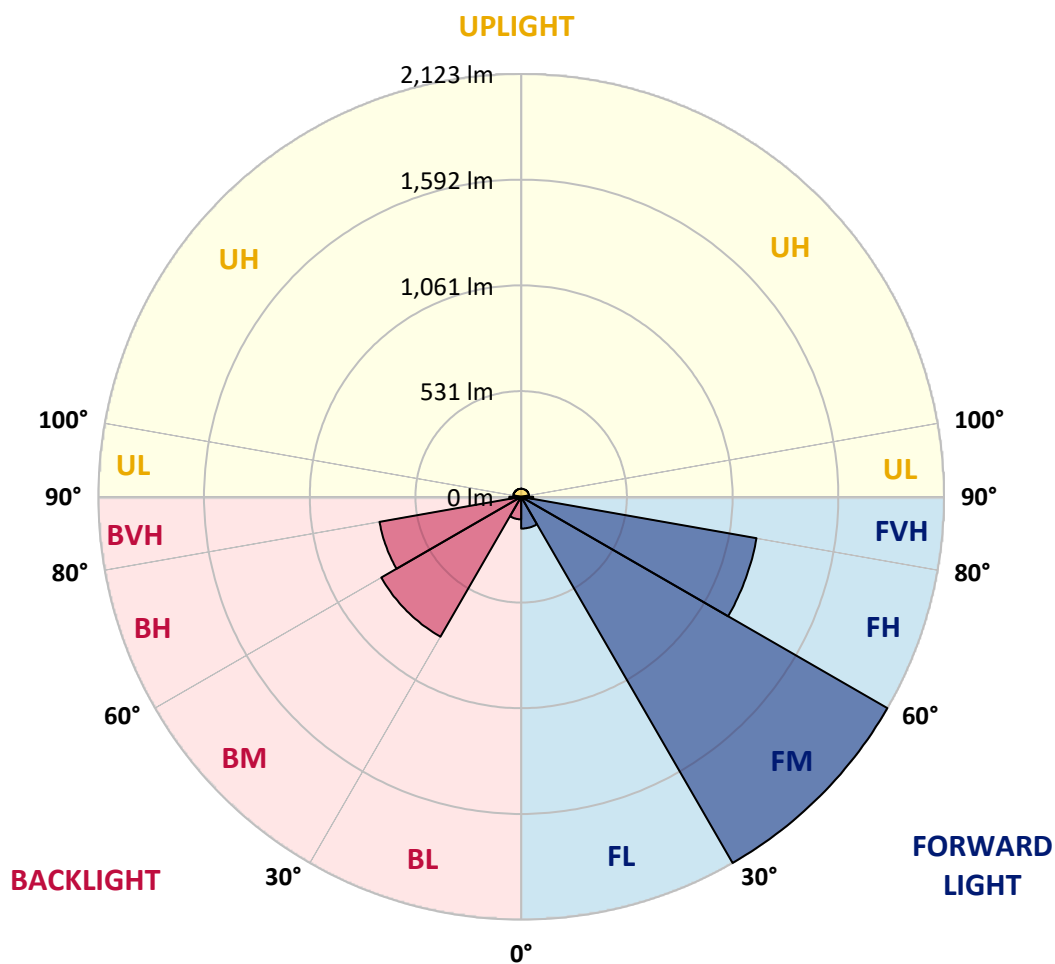
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.4	3.0			
FM	(30°-60°)	2122.6	39.9			
FH	(60°-80°)	1199.5	22.6			G1/1800
FVH	(80°-90°)	59.9	1.1			G1/100
BL	(0°-30°)	113.1	2.1	B1/500		
BM	(30°-60°)	811.0	15.3	B1/1000		
BH	(60°-80°)	722.1	13.6	B2/1000		G2/1000
BVH	(80°-90°)	59.5	1.1			G1/100
UL	(90°-100°)	31.6	0.6		U2/50	
UH	(100°-180°)	40.6	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	66.1	62.8	47.2	41.2	34.8	28.1	21.6	18.3	17.6	16.3	15.0
5°	66.1	66.1	68.1	72.0	79.9	72.7	76.5	27.5	26.2	17.6	14.5
7.5°	126.3	123.1	154.5	109.4	68.7	64.1	97.6	59.6	59.6	27.5	16.3
10°	170.9	170.1	208.9	133.6	123.1	149.3	66.1	68.1	68.1	47.2	22.8
12.5°	167.7	166.2	168.9	184.0	154.5	131.0	132.9	87.0	108.7	171.5	176.1
15°	235.6	248.1	235.0	180.0	165.0	164.3	212.1	161.1	163.8	188.6	138.1
17.5°	314.2	315.6	343.7	291.9	229.7	242.9	224.5	225.2	199.1	208.9	233.6
20°	342.4	336.5	352.2	326.8	326.8	290.7	229.2	324.7	348.9	328.1	324.1
22.5°	587.9	585.2	511.9	358.2	370.6	339.7	346.9	378.5	355.5	333.9	328.1
25°	670.5	662.0	636.4	610.8	454.4	476.6	420.3	411.2	436.7	527.0	570.2
27.5°	891.7	901.4	769.9	687.5	612.9	512.7	480.6	590.5	548.0	576.8	570.2
30°	1122.2	1117.0	1070.4	919.1	769.9	636.4	637.6	620.0	591.3	679.6	772.0
32.5°	1454.7	1471.8	1259.1	1100.6	962.4	774.5	701.8	824.3	819.1	793.6	828.1
35°	1813.5	1811.0	1636.7	1375.6	1041.0	875.9	838.7	911.3	893.6	854.4	918.5
37.5°	2041.4	2015.8	1897.3	1672.7	1272.8	998.5	1011.5	1064.5	1046.9	995.1	1113.7
40°	2371.3	2343.1	2201.7	1896.7	1586.9	1209.8	1283.9	1240.6	1183.1	1173.8	1188.9
42.5°	2492.4	2493.8	2355.6	2133.7	1860.0	1512.3	1551.1	1361.1	1302.8	1400.4	1367.7
45°	2530.4	2525.1	2428.9	2262.7	2037.4	1873.8	1750.6	1580.5	1521.5	1610.7	1646.0
47.5°	2447.3	2426.3	2442.0	2256.2	2224.7	2031.5	2006.1	1885.5	1898.7	1848.3	1931.4
50°	2224.1	2193.2	2234.5	2186.0	2320.3	2202.5	2499.7	2043.4	2036.1	2127.1	2230.6
52.5°	1877.6	1854.8	1988.4	1948.5	2299.3	2389.0	2597.9	2497.6	2504.3	2512.7	2456.4
55°	1538.5	1550.4	1652.5	1628.8	1996.3	2429.6	2925.9	2870.3	2908.3	2697.4	2698.0
57.5°	1098.5	1124.8	1308.7	1322.6	1663.7	2137.0	3189.1	3100.1	3197.5	3000.5	3044.4
60°	756.8	772.5	872.1	1010.9	1248.6	1774.2	3048.9	3492.9	3581.3	3308.8	3306.9
62°	587.3	593.8	609.0	786.2	958.5	1275.4	3018.1	3591.8	3716.7	3468.6	3414.9
62.5°	544.7	551.9	561.7	713.7	883.8	1159.5	2903.0	3613.3	3702.4	3488.8	3433.2
65°	436.0	439.4	417.1	474.7	624.6	692.7	2085.9	3511.8	3568.7	3464.0	3380.2
67.5°	404.0	392.2	361.4	345.7	467.5	446.5	1135.3	2993.3	3140.7	3315.5	3228.4
70°	334.6	360.7	335.8	309.0	373.2	343.1	481.9	2422.4	2463.6	3035.3	3023.4
72.5°	255.9	275.1	294.6	291.3	287.4	276.3	320.2	1513.6	1634.7	2491.2	2799.5
75°	207.6	215.5	256.6	248.1	255.4	218.6	252.1	719.5	870.7	1763.2	2434.9
77.5°	166.9	172.1	199.8	192.4	211.6	170.9	201.0	326.1	369.3	1013.5	1667.6
80°	110.6	113.2	145.3	144.1	154.5	151.3	152.0	228.4	231.1	473.9	872.8
82.5°	82.5	81.1	100.3	100.8	100.3	109.4	104.2	156.5	163.0	232.4	290.1
85°	53.7	51.7	59.6	63.5	60.8	60.2	78.5	110.0	114.5	165.6	172.8
87.5°	29.5	31.4	39.3	39.3	41.2	40.7	64.1	73.3	76.5	110.6	93.0
90°	19.7	19.7	21.6	20.9	22.3	21.6	33.3	43.2	43.8	55.7	49.8
92.5°	17.6	19.0	21.6	21.6	23.5	20.3	30.2	36.7	37.3	45.2	38.0
95°	15.7	16.3	18.3	19.0	20.3	14.5	22.8	30.2	30.8	37.3	30.8
97.5°	13.0	14.5	15.7	16.3	18.3	13.0	19.0	24.3	24.9	28.8	23.5
100°	13.0	13.7	13.7	13.7	15.7	11.0	16.3	20.9	21.6	23.5	19.7
102.5°	12.4	13.0	12.4	11.8	13.0	9.8	14.5	17.6	17.6	17.0	16.3
105°	12.4	12.4	10.5	9.2	11.0	9.2	12.4	13.0	13.0	13.0	15.0
107.5°	11.8	11.8	9.8	8.5	9.2	7.8	10.5	11.0	11.0	11.8	14.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	11.0	10.5	8.5	7.1	7.1	7.1	8.5	9.2	9.2	10.5	15.0
112.5°	9.8	9.8	7.1	6.6	6.6	6.6	7.8	8.5	8.5	9.8	14.5
115°	9.2	9.2	7.1	5.8	5.8	5.8	7.1	7.8	7.8	9.2	14.5
117.5°	9.8	9.2	6.6	5.8	5.2	5.2	5.8	7.1	7.1	9.2	14.5
120°	8.5	8.5	6.6	5.2	4.6	5.2	5.8	6.6	7.1	9.8	14.5
122.5°	9.2	8.5	6.6	4.6	4.6	4.6	5.2	6.6	6.6	9.2	13.0
125°	8.5	7.8	5.8	4.6	4.0	4.6	5.2	5.8	6.6	9.2	13.0
127.5°	8.5	7.8	5.8	4.6	4.0	4.0	5.2	5.8	5.8	8.5	12.4
130°	7.8	7.8	5.2	4.0	4.0	4.0	4.6	5.2	5.2	7.8	11.0
132.5°	7.1	6.6	5.2	4.0	3.2	4.0	4.6	4.6	4.6	7.1	10.5
135°	6.6	6.6	5.2	4.0	3.2	3.2	4.0	4.6	4.6	6.6	9.2
137.5°	5.8	5.8	5.2	4.0	3.2	3.2	3.2	4.0	4.0	5.8	7.8
140°	5.8	5.8	5.2	4.0	3.2	3.2	3.2	3.2	3.2	4.6	6.6
142.5°	5.8	5.8	5.2	4.0	3.2	2.6	2.6	2.6	2.6	4.0	5.2
145°	5.2	5.2	4.6	4.0	2.6	1.9	1.9	2.6	2.6	3.2	4.0
147.5°	5.2	5.2	4.6	3.2	1.9	1.3	1.3	1.9	1.9	2.6	3.2
150°	4.0	4.0	4.0	2.6	1.3	0.0	1.3	1.3	1.3	2.6	2.6
152.5°	2.6	2.6	1.9	1.3	0.7	0.7	0.7	1.3	1.3	1.3	1.9
155°	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.7	0.7	1.3	1.3
157.5°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
162.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7
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°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	15.0	14.5	14.5	14.5	15.0	15.0	15.0	14.5	13.7	13.7	13.7
5°	13.7	13.0	13.0	13.0	13.7	13.7	13.7	13.7	13.7	13.7	13.7
7.5°	15.0	13.7	13.7	13.0	13.0	13.7	15.0	22.3	38.6	54.3	63.5
10°	20.9	20.9	18.3	17.0	17.0	24.9	92.3	100.3	100.3	95.0	91.6
12.5°	189.8	149.9	132.2	46.5	38.0	77.3	88.5	83.2	115.3	134.1	142.1
15°	137.5	150.6	162.4	146.1	197.1	82.5	133.6	162.4	218.6	221.3	223.3
17.5°	231.1	249.4	180.0	157.2	184.0	244.2	199.8	206.9	206.9	206.9	207.6
20°	325.4	331.3	345.7	330.7	184.6	257.4	255.9	208.1	234.4	291.9	308.4
22.5°	345.7	357.4	340.5	329.9	390.3	240.2	264.6	331.3	335.2	319.4	327.3
25°	586.7	569.5	500.1	352.2	389.5	335.8	341.7	310.4	318.9	309.6	315.6
27.5°	582.0	572.8	517.2	508.0	409.2	397.4	317.6	358.2	380.4	394.7	392.2
30°	813.1	759.4	599.1	524.4	483.2	380.4	348.9	339.1	336.5	353.6	354.8
32.5°	817.1	809.3	690.1	678.3	496.9	385.0	329.3	309.6	353.6	377.1	373.2
35°	948.0	907.4	788.9	731.9	571.0	362.0	293.9	309.6	316.9	333.9	333.2
37.5°	1065.2	1052.8	955.8	808.6	549.9	329.9	332.0	329.9	321.5	324.1	324.1
40°	1221.1	1152.3	1065.8	879.9	514.5	353.6	358.2	311.6	303.1	298.5	298.5
42.5°	1406.2	1289.7	1209.8	914.7	489.0	416.4	339.1	304.4	295.9	282.8	280.9
45°	1624.9	1480.2	1360.5	925.8	410.4	431.5	352.2	346.3	318.2	306.4	301.8
47.5°	1816.8	1700.2	1533.9	944.1	476.0	411.9	463.5	393.5	307.0	324.1	321.5
50°	2104.9	1954.9	1655.8	897.5	508.7	400.0	481.9	344.4	316.3	339.1	337.9
52.5°	2359.6	2216.8	1783.5	827.6	481.2	553.3	427.6	394.7	366.7	354.8	353.6
55°	2626.0	2483.3	1869.8	792.1	475.4	442.5	444.5	427.6	331.3	356.7	356.2
57.5°	2932.3	2853.8	2057.7	777.2	487.2	390.9	444.5	357.4	377.7	356.7	360.7
60°	3096.1	3096.1	2167.2	762.1	449.8	401.4	381.7	392.7	328.1	332.0	342.4
62°	3233.5	3270.3	2267.2	722.1	448.4	336.5	375.1	346.9	320.9	340.5	353.6
62.5°	3280.2	3308.2	2297.3	714.3	459.7	318.9	347.6	346.3	332.6	335.2	346.9
65°	3325.3	3455.5	2369.4	664.6	422.9	301.1	297.2	328.7	288.0	275.6	276.3
67.5°	3282.0	3461.3	2345.1	534.9	343.1	258.6	262.6	274.3	259.9	255.4	258.0
70°	3124.2	3196.9	2098.4	441.2	295.9	237.1	252.1	242.3	238.3	237.6	237.1
72.5°	2908.3	2770.1	1647.9	332.0	254.7	205.6	216.0	223.3	224.5	221.3	217.4
75°	2453.2	2175.5	1075.0	248.8	203.6	174.1	197.1	202.9	208.1	199.1	195.8
77.5°	1684.0	1371.6	556.5	197.7	176.1	146.1	172.8	181.9	187.2	173.6	175.4
80°	781.7	625.8	257.4	161.8	146.1	121.1	146.7	158.5	165.6	147.3	140.8
82.5°	263.8	240.9	155.1	125.0	119.8	92.3	118.4	132.2	134.1	122.3	104.2
85°	157.2	157.8	108.7	96.3	88.5	57.6	85.1	104.2	104.2	86.4	70.6
87.5°	90.4	101.5	83.2	73.3	66.1	39.3	63.5	71.3	70.1	54.9	39.3
90°	45.2	53.0	49.0	48.5	49.8	24.9	49.8	53.7	53.7	38.0	24.3
92.5°	33.3	40.7	43.8	41.2	42.0	19.0	40.0	40.7	40.0	29.5	19.0
95°	28.1	35.4	43.8	41.2	40.0	15.7	36.7	37.3	38.0	28.8	20.9
97.5°	22.3	26.8	34.0	33.3	36.0	13.0	33.3	33.3	32.1	23.5	17.6
100°	20.3	23.5	28.8	28.8	31.4	11.8	29.5	26.8	25.5	19.0	16.3
102.5°	17.0	19.0	22.3	21.6	23.5	11.0	21.6	20.9	19.7	16.3	15.7
105°	16.3	17.0	17.0	15.7	16.3	10.5	15.0	14.5	13.7	13.7	14.5
107.5°	15.7	15.7	14.5	13.0	13.0	9.8	11.0	10.5	11.0	14.5	15.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.7	15.7	13.0	11.8	10.5	9.2	9.8	8.5	9.8	14.5	15.7
112.5°	15.7	15.7	11.8	9.8	9.8	8.5	8.5	7.8	9.2	14.5	15.7
115°	15.0	15.0	11.0	9.2	8.5	7.8	7.8	7.1	9.2	14.5	15.7
117.5°	15.0	15.0	11.0	9.2	7.8	7.1	7.1	6.6	9.2	15.0	15.7
120°	15.0	15.0	11.0	8.5	7.8	7.1	6.6	6.6	9.2	14.5	15.7
122.5°	14.5	13.7	10.5	7.8	7.1	6.6	6.6	6.6	9.2	15.0	15.7
125°	13.7	13.0	10.5	7.8	6.6	6.6	5.8	5.8	9.2	14.5	15.0
127.5°	13.0	13.0	9.8	7.1	6.6	5.8	5.8	5.8	9.2	15.0	15.0
130°	12.4	11.8	9.2	6.6	5.8	5.2	5.2	5.8	9.8	13.7	14.5
132.5°	11.0	10.5	8.5	5.8	5.2	5.2	5.2	5.2	9.2	13.7	13.7
135°	9.2	9.2	7.1	5.2	4.6	4.6	4.6	5.2	8.5	11.8	12.4
137.5°	8.5	7.8	6.6	5.2	4.0	4.6	4.6	5.2	8.5	11.0	11.8
140°	7.1	6.6	5.2	4.0	4.0	4.0	4.0	4.6	7.1	9.8	10.5
142.5°	5.2	5.2	4.6	3.2	3.2	3.2	3.2	4.6	6.6	8.5	8.5
145°	4.6	4.6	4.0	3.2	2.6	1.9	1.9	3.2	5.2	7.1	7.1
147.5°	3.2	3.2	3.2	2.6	1.9	1.9	1.9	2.6	4.0	5.2	5.2
150°	2.6	2.6	2.6	1.9	1.9	1.3	1.3	1.9	3.2	4.0	4.0
152.5°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.9	2.6	2.6
155°	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	1.3	1.3
157.5°	0.7	0.7	0.7	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0
160°	0.7	0.7	0.7	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.7	1.3	1.3	0.7	0.7	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)