

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: P241012

Luminaire Tested: **UTLD-AF24-50-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5096.9 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 54
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

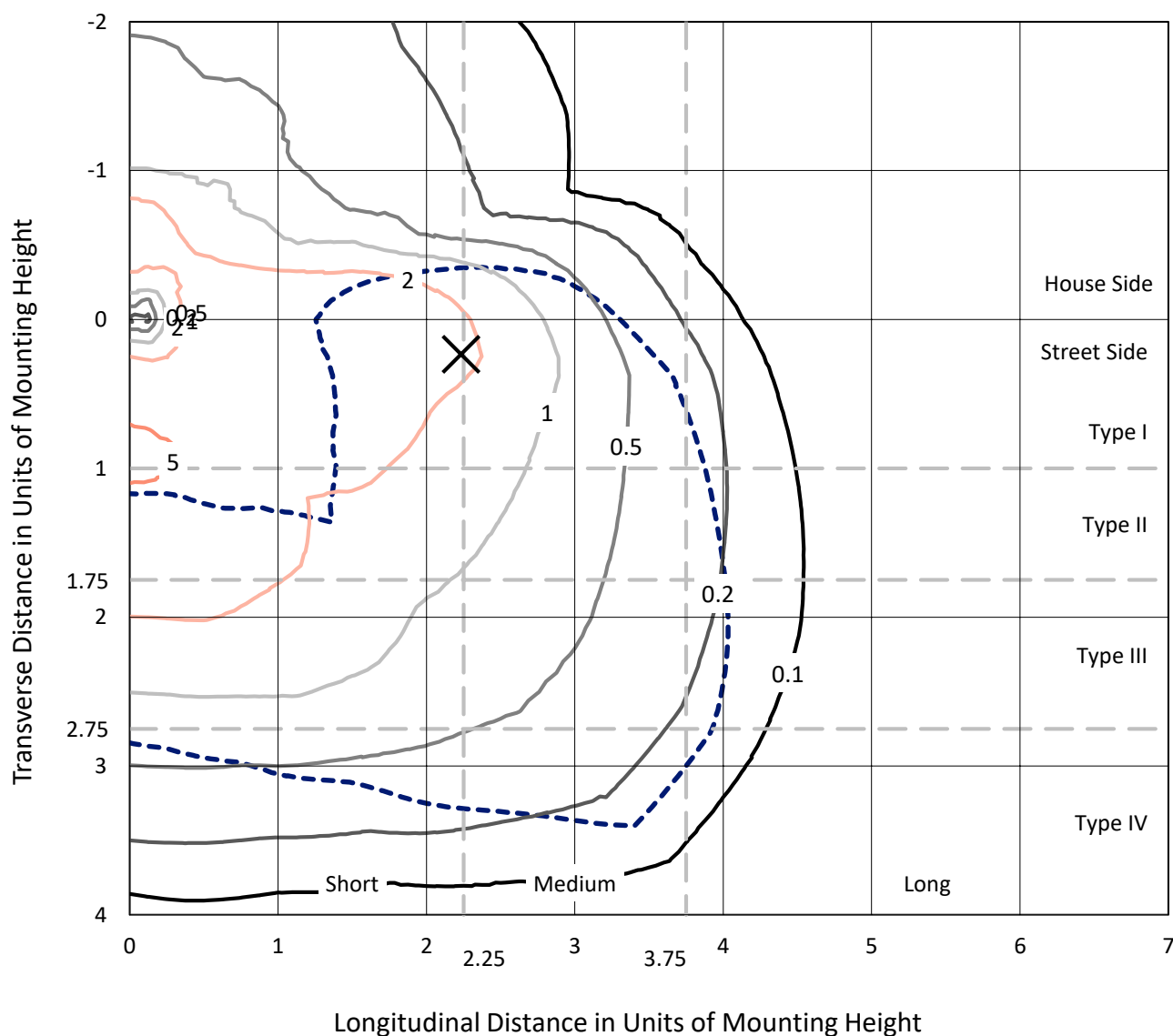


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

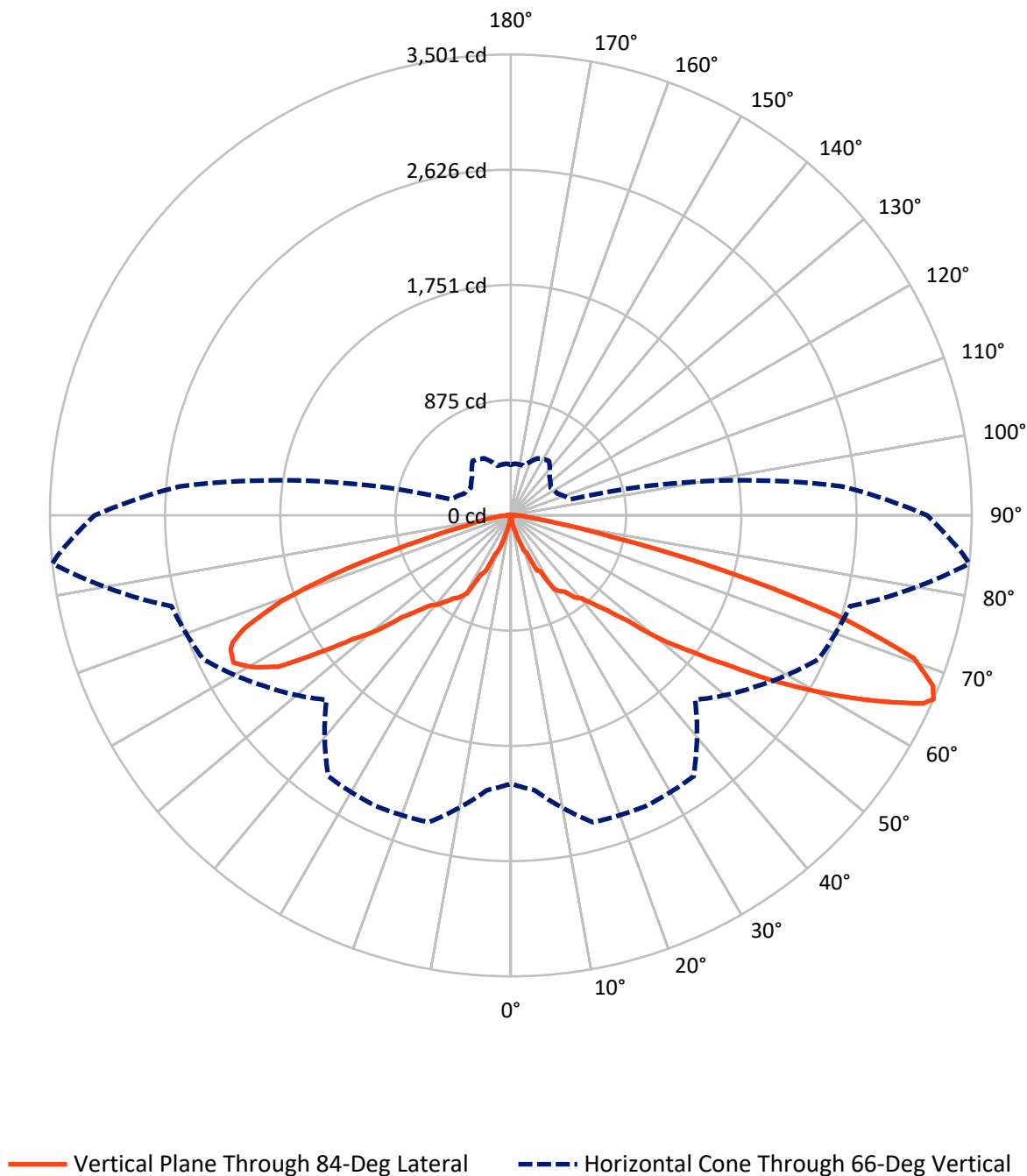


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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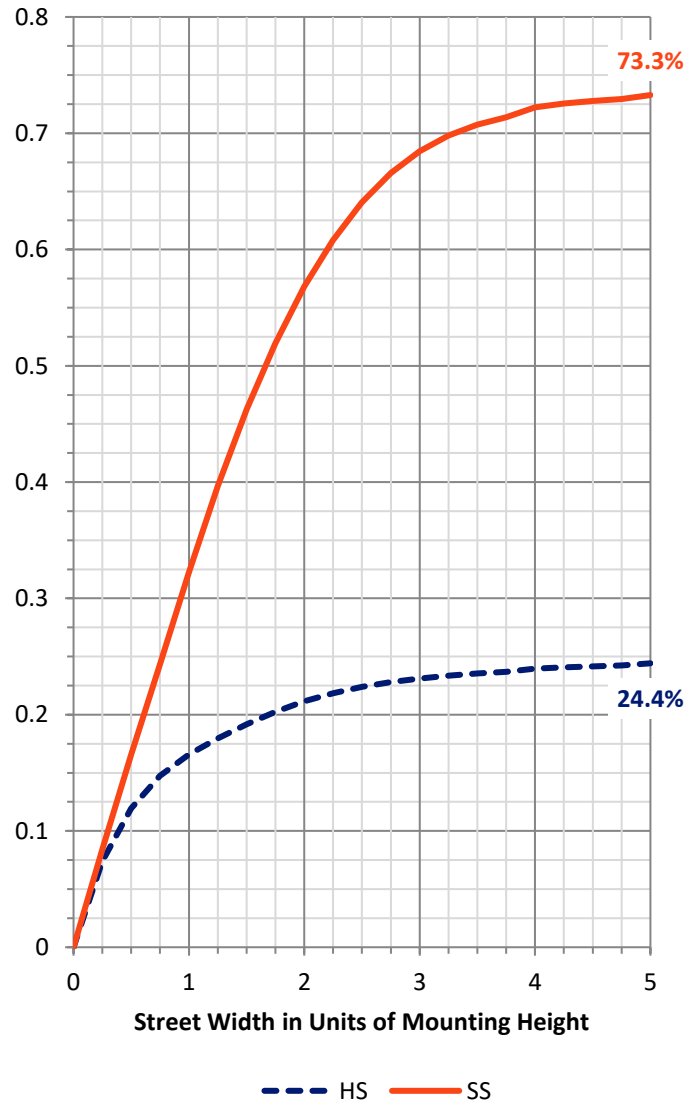
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.5	31.0	1306.5
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	3761.3	29.2	3790.5
	% Fixture	73.8	0.6	74.4
Total	Lumens	5036.8	60.2	5096.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	47.3	0.9
20°-30°	174.8	3.4
30°-40°	359.5	7.1
40°-50°	596.4	11.7
50°-60°	1040.0	20.4
60°-70°	1532.0	30.1
70°-80°	1118.0	21.9
80°-90°	164.9	3.2
90°-100°	30.7	0.6
100°-110°	14.1	0.3
110°-120°	6.7	0.1
120°-130°	4.6	0.1
130°-140°	2.7	0.1
140°-150°	1.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5036.8	98.8
0°-180°	5096.9	100.0

Coefficient of Utilization



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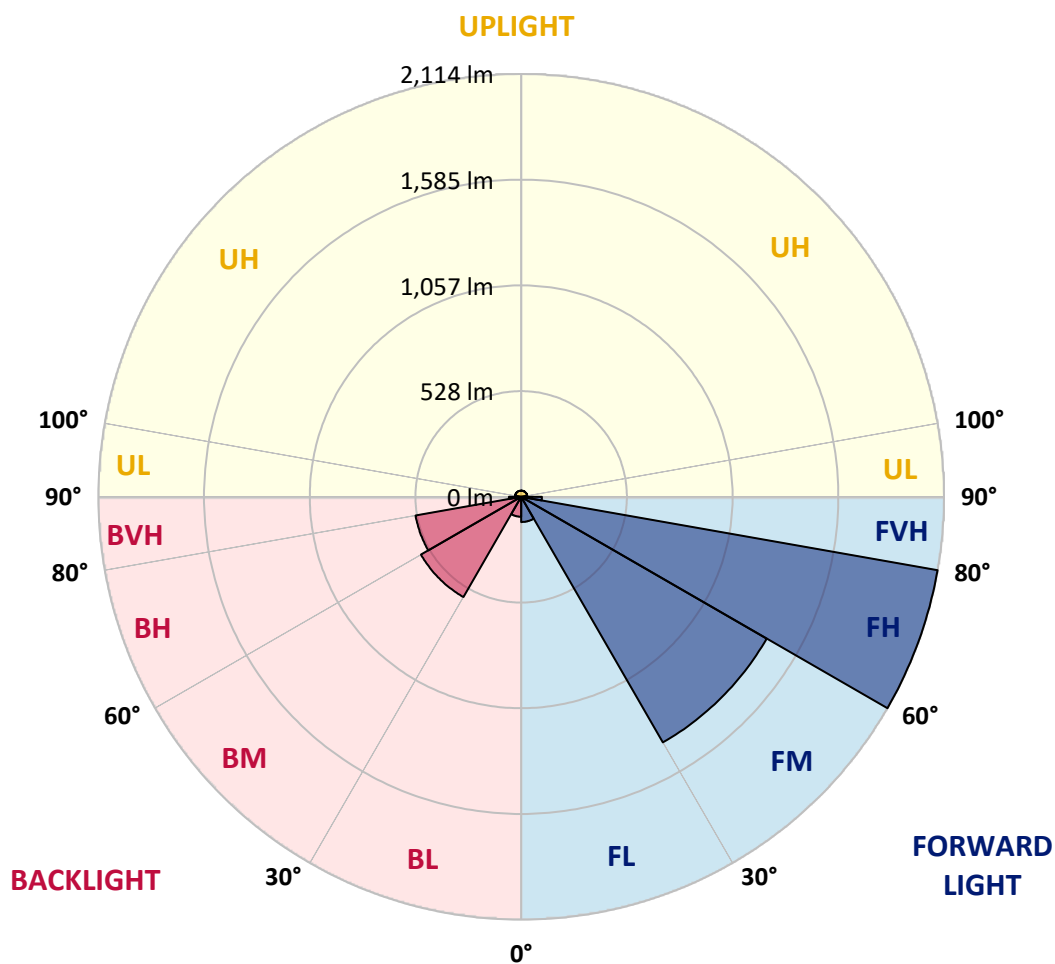
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.1	2.5			
FM	(30°-60°)	1417.6	27.8			
FH	(60°-80°)	2113.9	41.5			G2/5000
FVH	(80°-90°)	103.7	2.0			G2/225
BL	(0°-30°)	99.8	2.0	B0/110		
BM	(30°-60°)	578.3	11.3	B1/1000		
BH	(60°-80°)	536.1	10.5	B2/1000		G2/1000
BVH	(80°-90°)	61.2	1.2			G1/100
UL	(90°-100°)	30.7	0.6		U2/50	
UH	(100°-180°)	31.0	0.6		U2/50	

BUG Rating: B2-U2-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	30.0	27.0	27.0	25.6	23.2	20.6	16.3	13.7	11.9	11.9	11.3
5°	57.7	60.8	70.3	64.6	53.3	69.6	31.3	20.6	13.2	11.3	11.3
7.5°	91.6	96.5	74.0	65.9	65.9	70.3	57.1	34.5	17.6	13.2	12.6
10°	191.9	181.2	125.9	128.0	108.5	75.8	52.0	45.8	27.0	21.3	19.4
12.5°	186.2	183.7	187.5	163.7	164.9	119.7	66.4	106.6	96.5	92.3	101.6
15°	240.2	237.6	190.6	194.4	176.2	183.1	154.3	153.6	148.6	124.8	119.7
17.5°	333.6	331.0	373.0	248.2	176.8	228.9	198.8	171.2	177.4	187.5	195.0
20°	332.9	329.2	346.7	297.8	301.5	236.3	212.0	311.6	284.6	285.9	269.7
22.5°	491.5	468.9	411.9	311.0	339.8	276.5	314.1	307.9	287.2	304.1	299.1
25°	477.1	485.8	466.5	460.2	346.2	396.3	345.5	355.5	438.9	461.5	462.0
27.5°	553.6	536.7	521.7	472.8	465.2	385.5	355.5	473.4	459.6	480.3	479.6
30°	660.3	654.6	650.8	525.4	503.4	425.1	479.0	483.4	558.0	652.1	671.5
32.5°	763.0	736.1	675.3	608.1	505.4	502.3	476.0	600.7	640.1	684.7	691.6
35°	926.1	925.4	822.6	650.2	565.5	533.6	616.3	647.1	646.5	713.6	754.3
37.5°	1065.3	1072.2	964.3	785.0	585.0	539.2	643.3	697.8	700.4	791.2	775.6
40°	1277.2	1259.0	1162.4	937.3	668.3	574.9	705.4	713.6	765.0	825.8	848.3
42.5°	1427.7	1420.8	1389.4	1115.4	765.0	640.8	778.7	743.6	810.0	920.4	944.2
45°	1521.8	1487.9	1518.6	1245.9	919.9	781.9	795.1	842.1	912.9	1029.6	1096.6
47.5°	1616.4	1642.0	1570.0	1344.3	1059.0	847.1	874.6	1023.2	1091.6	1196.3	1239.0
50°	1780.7	1753.1	1728.1	1492.3	1273.4	951.1	1094.1	1074.0	1265.9	1479.7	1487.2
52.5°	1881.0	1881.0	1840.3	1621.4	1421.4	1104.7	1167.4	1239.0	1524.8	1718.6	1788.8
55°	2023.4	2052.8	2045.3	1773.9	1595.7	1313.6	1359.3	1509.9	1762.0	2010.8	2184.4
57.5°	2124.2	2165.0	2253.5	1936.8	1765.0	1398.8	1639.7	1807.0	2080.4	2383.3	2593.3
60°	2274.1	2274.8	2365.7	2081.1	1978.8	1561.2	1748.0	2082.9	2255.3	2741.2	2852.2
62.5°	2289.2	2314.8	2505.6	2305.5	2192.0	1730.5	2102.9	2225.2	2452.3	3101.1	3198.3
65°	2107.4	2176.3	2495.5	2410.8	2387.0	1886.7	2207.0	2506.7	2612.1	3442.2	3414.7
66°	2037.8	2096.0	2412.7	2434.0	2419.0	1980.1	2267.9	2580.0	2667.9	3501.2	3452.9
67.5°	2013.3	2055.9	2313.7	2459.1	2527.3	2149.3	2416.5	2615.8	2770.0	3458.5	3439.1
70°	1843.4	1896.6	2138.6	2624.6	2758.8	2459.8	2607.7	2702.3	2842.2	3247.1	3163.2
72.5°	1405.7	1460.2	1639.0	2165.6	2778.3	2918.7	2904.2	2811.5	2607.7	2580.0	2445.3
75°	697.2	755.5	881.6	1262.2	2161.9	2867.3	2887.2	2535.0	2107.4	1664.0	1560.5
77.5°	360.5	406.3	340.5	483.4	1111.7	2034.0	2043.3	1671.5	1221.4	777.5	726.0
80°	245.9	255.7	231.9	238.3	457.7	1039.6	969.3	889.7	491.5	356.7	372.5
82.5°	180.6	166.7	159.8	173.7	247.0	324.8	348.6	385.0	262.7	181.2	191.2
85°	85.2	94.1	92.3	106.0	150.4	111.0	170.6	231.4	175.0	116.6	114.7
87.5°	53.3	52.7	56.4	65.2	90.9	73.3	93.4	114.7	105.3	72.7	71.4
90°	35.1	31.3	29.5	35.1	50.8	36.4	50.1	65.2	59.5	39.6	37.0
92.5°	23.8	23.8	25.6	29.5	43.9	38.9	35.7	37.0	37.0	30.7	29.5
95°	17.6	18.8	21.3	22.0	26.3	22.6	28.9	32.0	32.6	25.1	24.5
97.5°	15.1	16.3	17.6	18.1	22.0	18.1	23.8	28.2	27.6	20.1	20.6
100°	13.7	15.1	15.1	15.7	17.6	13.7	19.4	26.3	25.1	17.6	16.9
102.5°	13.2	13.2	12.6	12.6	13.7	10.7	16.3	23.2	18.8	14.4	13.2
105°	12.6	12.6	10.7	10.1	10.7	8.7	13.2	17.6	13.2	11.9	11.9
107.5°	11.9	11.3	9.4	8.2	8.7	6.9	10.7	11.3	9.4	10.7	11.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	10.7	10.7	8.2	6.9	6.9	5.7	7.5	8.2	8.2	10.7	11.3
112.5°	10.1	9.4	6.9	5.7	5.7	5.0	5.7	6.2	6.9	10.1	10.7
115°	9.4	8.7	6.2	5.0	4.4	3.8	4.4	5.0	6.2	10.1	10.1
117.5°	8.7	8.2	5.7	4.4	3.8	3.2	3.8	4.4	6.2	10.1	10.1
120°	8.7	8.2	5.7	3.8	3.2	3.2	3.2	3.8	6.9	10.1	10.7
122.5°	8.2	8.2	5.7	3.8	3.2	2.5	2.5	3.8	6.2	9.4	9.4
125°	8.2	8.2	5.0	3.2	2.5	2.5	2.5	3.2	6.2	8.7	9.4
127.5°	7.5	7.5	5.0	3.2	2.5	1.8	1.8	3.2	5.7	8.7	8.7
130°	7.5	7.5	5.0	2.5	1.8	1.8	1.8	2.5	5.7	8.2	8.2
132.5°	6.2	6.2	4.4	2.5	1.8	1.2	1.8	2.5	5.0	6.9	7.5
135°	6.2	6.2	4.4	2.5	1.8	1.2	1.2	2.5	4.4	6.2	6.2
137.5°	5.7	5.7	3.8	2.5	1.8	1.2	1.2	1.8	3.8	5.7	5.7
140°	5.0	5.0	4.4	2.5	1.8	1.2	1.2	1.2	3.2	4.4	4.4
142.5°	5.0	5.0	3.8	2.5	1.2	0.6	0.6	1.2	2.5	3.2	3.2
145°	4.4	4.4	3.8	2.5	1.2	0.6	0.6	1.2	1.8	2.5	2.5
147.5°	4.4	4.4	3.8	1.8	0.6	0.6	0.6	1.2	1.8	2.5	2.5
150°	3.8	3.8	2.5	1.2	0.0	0.0	0.6	0.6	1.2	1.8	1.8
152.5°	2.5	2.5	1.8	0.6	0.0	0.0	0.0	0.6	1.2	1.2	1.2
155°	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	11.3	11.3	11.3	11.3	11.3	11.3	10.7	10.7	10.7	10.7	10.7
5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.3	11.9	11.9	11.9
7.5°	11.9	11.9	11.3	10.7	11.3	12.6	18.8	43.2	63.4	77.8	77.1
10°	19.4	19.4	18.1	15.7	19.4	42.6	84.0	84.6	70.3	64.6	67.0
12.5°	102.8	91.6	77.8	63.9	62.8	75.8	71.4	99.7	111.6	119.7	118.5
15°	117.9	124.8	114.0	128.0	131.0	77.8	121.6	163.1	175.6	180.6	186.2
17.5°	194.4	215.0	153.6	145.5	146.1	155.4	164.3	172.4	176.2	174.3	175.0
20°	292.9	279.0	299.7	255.7	195.6	208.1	190.6	188.2	248.2	301.5	294.7
22.5°	299.1	322.9	295.3	270.2	299.1	212.0	262.7	279.0	287.2	294.0	302.8
25°	484.0	472.8	413.8	310.4	295.3	282.8	285.2	291.5	307.2	331.0	345.5
27.5°	514.2	511.7	457.7	418.3	314.7	353.7	292.9	352.4	380.6	405.7	410.7
30°	691.6	698.5	526.6	401.8	364.9	302.8	339.8	363.1	385.0	420.1	420.7
32.5°	734.9	749.3	582.5	444.5	382.5	313.5	341.8	359.3	442.6	475.3	476.5
35°	746.1	783.2	600.7	428.9	369.3	312.3	315.4	375.6	417.0	483.4	507.3
37.5°	864.7	837.7	638.3	434.6	345.5	300.4	340.5	360.5	425.8	468.4	476.5
40°	914.8	899.7	662.7	445.8	341.1	334.3	315.4	336.1	366.8	397.4	397.4
42.5°	1008.3	949.3	676.6	437.7	331.7	358.6	287.8	311.0	339.8	321.7	329.2
45°	1132.4	1053.4	723.6	394.4	314.1	304.8	276.5	312.3	294.0	294.0	290.3
47.5°	1292.9	1185.0	707.9	379.3	353.7	288.5	364.9	293.5	270.9	280.9	281.6
50°	1546.8	1419.0	756.2	369.3	335.4	282.8	312.3	283.4	283.4	290.3	287.8
52.5°	1865.3	1613.2	776.9	368.6	317.3	329.2	309.8	339.2	293.5	317.8	314.7
55°	2210.2	1906.0	798.1	363.7	314.1	297.1	378.7	324.8	304.8	349.2	350.5
57.5°	2647.2	2245.3	886.0	353.7	315.4	297.8	357.4	363.7	371.2	400.7	405.1
60°	2919.3	2433.4	808.2	372.5	312.3	339.8	415.7	406.3	383.1	492.2	508.5
62.5°	3126.9	2575.7	665.8	388.1	369.3	342.3	429.5	473.9	452.7	496.6	509.1
65°	3164.4	2563.2	509.1	388.1	364.3	398.8	515.3	472.8	403.1	407.5	402.5
66°	3162.0	2524.9	468.9	391.2	369.3	415.7	506.0	478.4	389.9	394.4	385.0
67.5°	3058.5	2403.9	407.5	386.9	404.4	426.9	497.2	446.5	375.0	376.2	366.8
70°	2660.4	2027.8	346.7	397.4	419.4	428.2	543.6	415.7	344.2	335.4	333.6
72.5°	1956.9	1438.3	324.8	395.6	425.8	415.0	458.4	341.8	297.1	279.6	277.7
75°	1100.4	734.9	323.5	379.3	376.8	356.1	346.7	263.4	245.9	225.1	221.4
77.5°	507.3	354.2	274.0	305.4	284.6	281.6	258.3	219.5	209.4	195.6	190.0
80°	293.5	250.2	195.0	202.5	204.5	198.8	208.8	197.5	186.9	176.8	167.3
82.5°	171.2	158.7	142.4	133.6	133.6	142.9	171.7	164.3	156.1	147.4	126.6
85°	107.2	102.8	97.1	93.4	93.4	85.9	123.6	137.3	129.8	111.0	99.1
87.5°	70.3	73.3	65.2	65.9	63.9	57.1	83.4	92.3	79.0	63.4	52.7
90°	32.0	35.1	38.2	37.5	40.8	31.3	45.8	47.0	41.9	28.9	20.6
92.5°	24.5	28.9	32.0	32.0	35.1	21.3	33.3	37.0	34.5	27.0	19.4
95°	20.6	25.6	30.7	30.0	30.0	16.9	30.7	34.5	32.6	23.2	16.9
97.5°	16.9	20.6	25.1	25.1	27.6	14.4	28.2	33.3	31.3	23.2	16.3
100°	15.7	18.8	22.0	22.6	25.1	11.3	25.6	31.3	28.2	19.4	15.7
102.5°	14.4	15.7	18.1	18.1	18.8	10.1	20.6	25.6	22.6	15.1	15.1
105°	13.2	13.2	13.2	11.9	11.9	8.2	12.6	17.6	13.7	11.9	13.2
107.5°	12.6	11.9	10.1	9.4	8.7	6.9	8.7	10.7	8.2	10.7	11.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	11.9	11.9	9.4	8.2	7.5	6.2	7.5	6.9	6.9	10.7	11.3
112.5°	11.9	11.3	8.2	6.9	6.2	5.7	6.2	5.0	6.2	10.7	11.3
115°	11.3	11.3	7.5	6.2	6.2	5.0	5.0	4.4	5.7	10.1	11.3
117.5°	11.3	11.3	7.5	5.7	5.0	4.4	4.4	4.4	5.7	10.1	11.3
120°	11.3	10.7	7.5	5.7	4.4	3.8	3.8	3.8	5.7	10.1	10.7
122.5°	10.7	10.1	6.9	5.0	4.4	3.8	3.2	3.8	5.7	9.4	10.1
125°	10.1	10.1	6.9	4.4	3.8	3.2	2.5	3.2	5.7	9.4	10.1
127.5°	10.1	9.4	6.2	3.8	3.2	3.2	2.5	3.2	5.7	8.7	9.4
130°	8.7	8.7	5.7	3.8	2.5	2.5	1.8	2.5	5.7	8.7	8.7
132.5°	8.2	7.5	5.0	3.2	2.5	1.8	1.8	1.8	5.0	7.5	8.2
135°	6.9	6.2	4.4	2.5	1.8	1.8	1.2	1.8	4.4	6.9	6.9
137.5°	5.7	5.7	4.4	2.5	1.8	1.2	1.2	1.8	4.4	6.2	6.9
140°	5.0	4.4	3.2	1.8	1.2	1.2	1.2	1.8	3.8	5.0	5.7
142.5°	3.8	3.8	2.5	1.8	1.2	1.2	0.6	1.2	3.2	4.4	4.4
145°	3.2	3.2	2.5	1.2	1.2	0.6	0.6	0.6	2.5	3.2	3.8
147.5°	2.5	2.5	1.8	1.2	0.6	0.6	0.0	0.6	1.8	2.5	2.5
150°	1.8	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.6	1.2	1.2
152.5°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	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

(END OF REPORT)