

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: P240428

Luminaire Tested: **UTLD-AF24-60-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
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-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6106 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

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

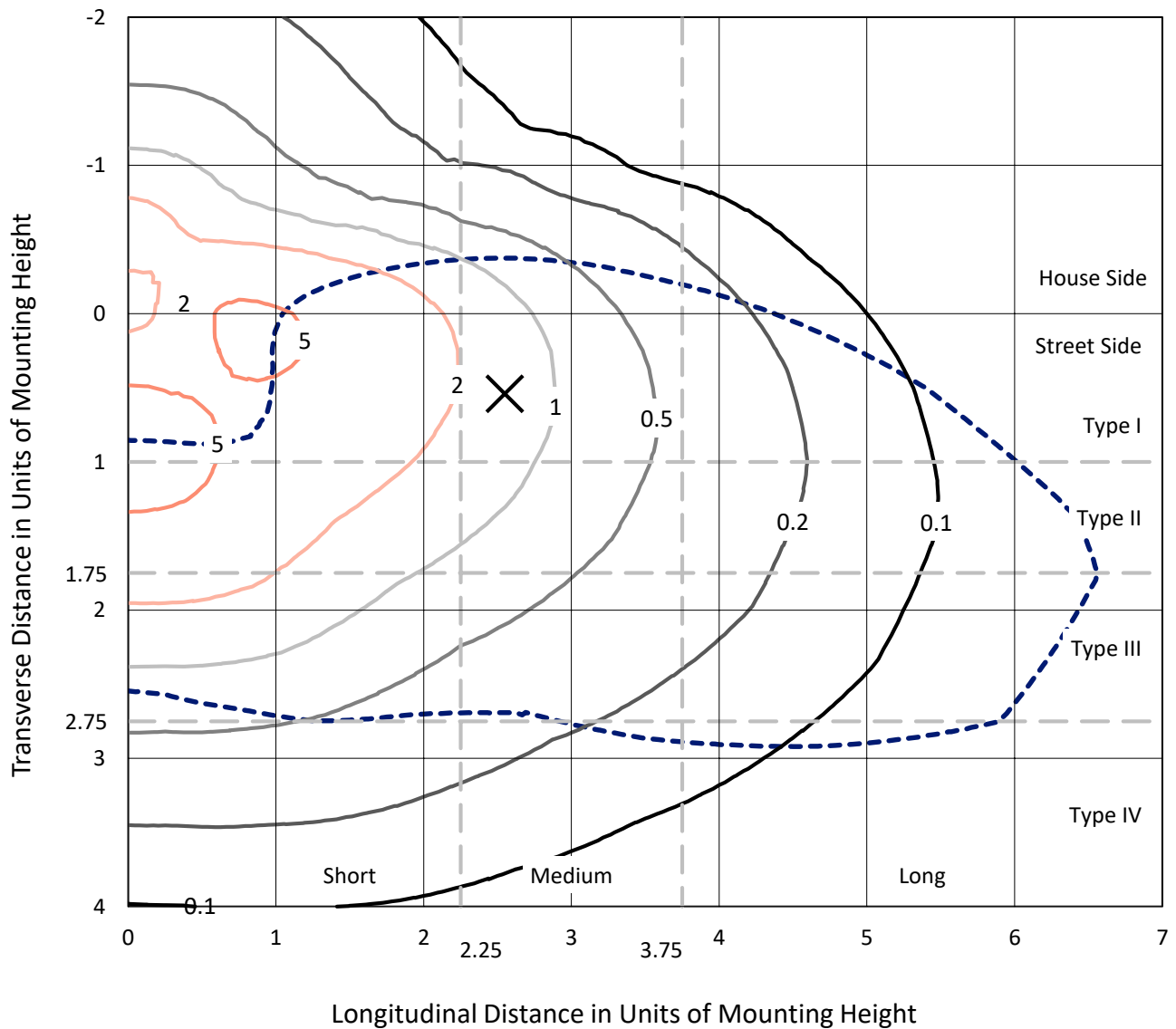


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

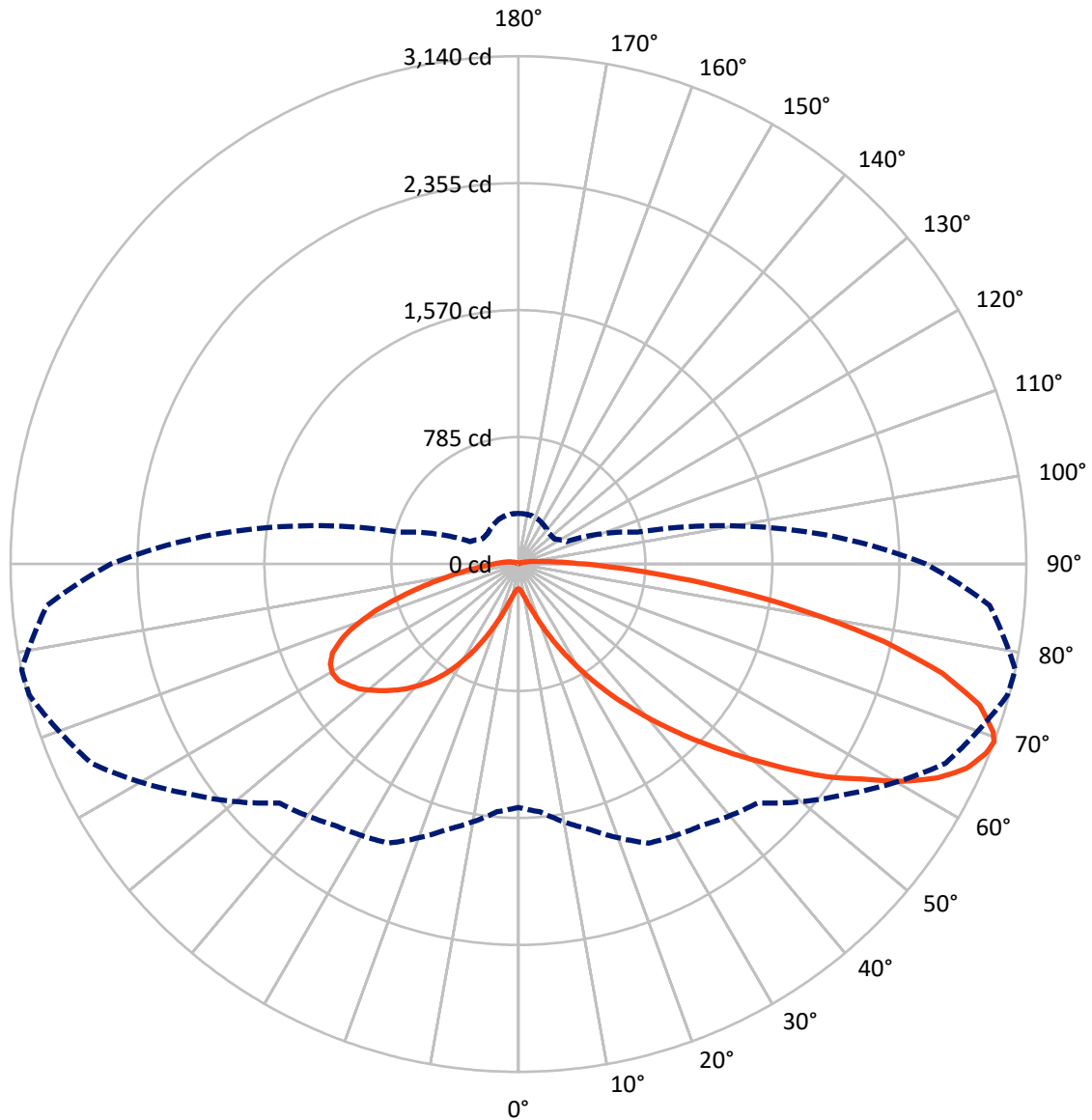


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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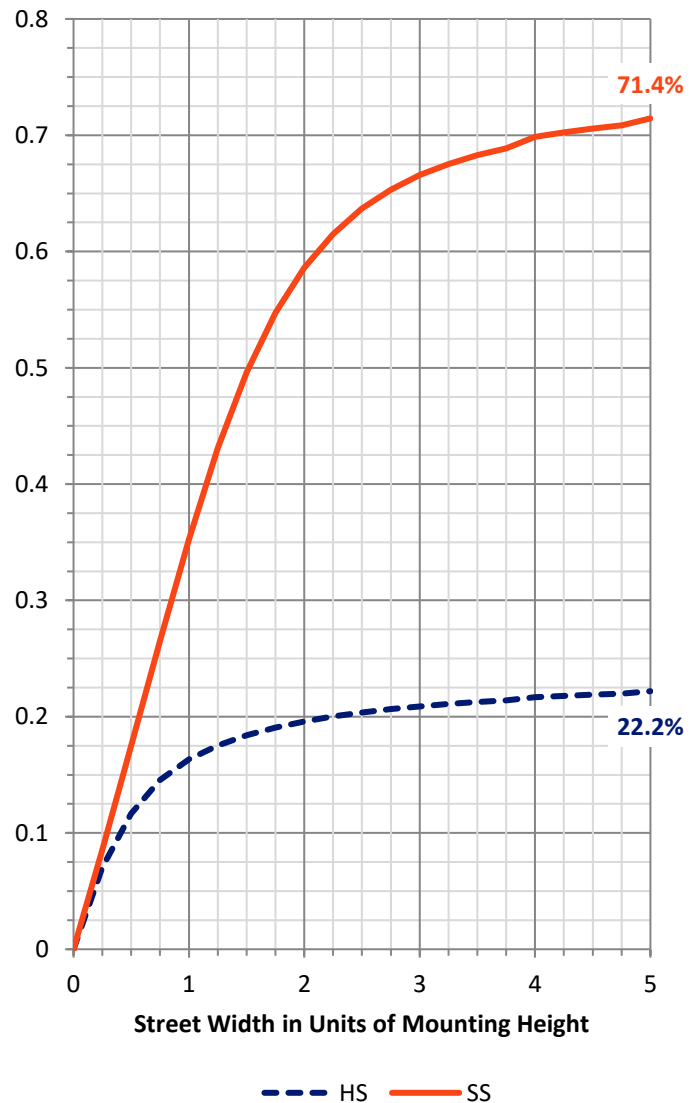
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.4	106.6	1525.0
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4463.9	117.1	4581.0
	% Fixture	73.1	1.9	75.0
Total	Lumens	5882.3	223.7	6106.0
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	0.3
10°-20°	78.4	1.3
20°-30°	223.7	3.7
30°-40°	475.5	7.8
40°-50°	824.3	13.5
50°-60°	1234.0	20.2
60°-70°	1468.9	24.1
70°-80°	1120.4	18.3
80°-90°	440.2	7.2
90°-100°	129.2	2.1
100°-110°	52.3	0.9
110°-120°	23.6	0.4
120°-130°	11.4	0.2
130°-140°	5.3	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5882.3	96.3
0°-180°	6106.0	100.0



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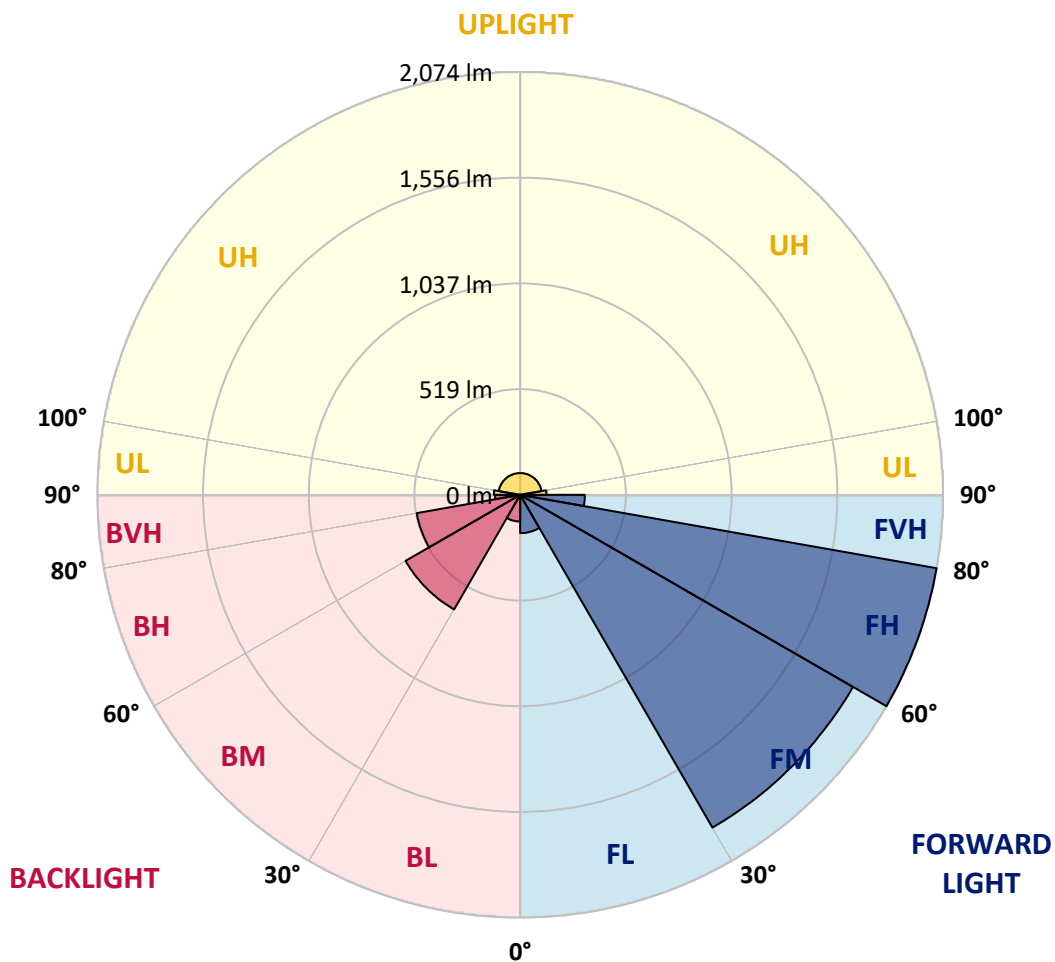
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.9	3.1			
FM (30°-60°)	1884.8	30.9			
FH (60°-80°)	2074.1	34.0			G2/5000
FVH (80°-90°)	317.2	5.2			G3/500
BL (0°-30°)	131.2	2.1	B1/500		
BM (30°-60°)	649.0	10.6	B1/1000		
BH (60°-80°)	515.2	8.4	B2/1000		G2/1000
BVH (80°-90°)	123.0	2.0			G2/225
UL (90°-100°)	129.2	2.1		U3/500	
UH (100°-180°)	106.6	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
2.5°	165.7	165.7	165.0	165.0	164.2	162.6	160.3	158.8	158.0	158.0	156.5
5°	184.2	184.2	182.7	182.7	180.3	178.1	175.0	171.1	168.8	168.1	165.7
7.5°	208.9	208.2	207.4	205.1	202.7	198.1	194.3	190.4	185.8	185.1	181.9
10°	240.5	239.0	239.0	235.9	231.3	225.9	218.9	213.5	208.9	208.2	205.1
12.5°	282.1	280.6	278.2	272.1	265.1	256.7	250.5	245.1	240.5	239.0	235.1
15°	331.4	330.7	324.6	316.8	304.5	293.7	286.7	282.1	280.6	279.1	275.2
17.5°	393.1	389.3	383.1	367.8	351.5	336.1	329.9	330.7	331.4	331.4	328.4
20°	461.8	460.2	450.9	430.2	407.7	388.5	383.1	387.7	393.9	393.9	393.1
22.5°	552.0	547.3	530.4	501.0	469.4	450.2	442.5	452.5	469.4	470.3	473.3
25°	650.6	649.1	622.1	578.9	538.9	515.7	510.4	522.6	553.5	555.8	564.3
27.5°	760.1	756.3	731.5	670.6	618.3	584.3	582.1	609.0	642.1	653.7	666.0
30°	892.6	888.8	841.8	771.6	707.7	663.0	663.7	698.4	749.3	759.3	777.0
32.5°	1029.9	1026.0	977.4	889.6	804.8	749.3	750.8	802.5	861.0	873.4	892.6
35°	1188.0	1186.4	1122.4	1014.5	907.4	840.3	851.8	906.5	979.0	999.0	1016.0
37.5°	1359.1	1342.1	1279.6	1154.0	1019.9	946.6	955.1	1028.4	1113.9	1123.2	1140.1
40°	1530.9	1527.1	1452.3	1311.2	1149.4	1058.4	1070.0	1152.5	1244.9	1261.9	1271.1
42.5°	1712.1	1710.6	1622.7	1468.5	1283.5	1181.7	1192.6	1286.6	1389.9	1406.0	1410.6
45°	1904.8	1894.0	1806.9	1634.3	1438.5	1312.8	1332.1	1429.2	1551.0	1564.1	1566.4
47.5°	2070.6	2056.6	1991.2	1811.5	1589.6	1454.6	1469.3	1590.3	1718.3	1732.2	1726.7
50°	2220.1	2214.0	2147.7	1988.8	1755.3	1598.1	1618.8	1750.7	1894.8	1911.8	1906.4
52.5°	2318.0	2314.1	2287.2	2133.8	1900.9	1744.4	1773.8	1917.1	2087.5	2112.2	2083.6
55°	2366.6	2366.6	2372.0	2260.9	2034.3	1883.3	1928.7	2102.2	2287.9	2322.6	2282.5
57.5°	2362.7	2358.1	2402.8	2348.1	2136.8	1995.1	2083.6	2298.8	2493.7	2507.7	2486.8
60°	2274.8	2289.5	2368.1	2378.2	2210.1	2094.5	2231.7	2480.7	2690.4	2727.4	2664.2
62.5°	2134.6	2162.3	2277.2	2343.5	2230.1	2165.4	2358.8	2640.2	2873.1	2910.8	2820.6
65°	1941.0	1969.6	2110.7	2238.6	2190.0	2189.3	2446.0	2785.9	3018.7	3045.7	2924.7
67.5°	1698.2	1707.5	1870.2	2054.4	2076.7	2153.0	2487.6	2886.2	3124.3	3119.7	2961.6
69°	1504.8	1537.9	1698.2	1904.0	1973.5	2089.8	2479.9	2913.9	3130.5	3139.7	2924.7
70°	1406.9	1413.0	1571.0	1779.9	1900.9	2032.8	2453.6	2907.7	3120.5	3113.6	2882.3
72.5°	1092.3	1104.7	1249.5	1477.0	1644.3	1843.2	2325.0	2803.7	2999.5	2981.7	2664.2
75°	779.4	800.2	933.5	1147.0	1345.2	1595.7	2087.5	2580.1	2750.5	2709.6	2350.4
77.5°	531.9	553.5	652.9	848.7	1046.1	1319.0	1760.7	2241.7	2358.8	2316.5	1921.0
80°	341.5	356.2	434.8	589.7	777.9	1012.9	1402.3	1796.1	1900.2	1824.6	1468.5
82.5°	225.9	235.1	289.8	399.4	544.2	747.0	1039.9	1342.1	1388.3	1340.6	1029.1
85°	152.6	158.8	198.1	271.4	381.6	525.7	736.2	933.5	971.3	905.0	686.1
87.5°	104.9	111.0	142.6	189.7	265.1	366.9	493.4	627.5	615.9	585.1	447.8
90°	74.8	80.2	102.5	134.9	187.3	255.1	329.2	397.0	395.5	365.4	286.0
92.5°	54.0	58.6	77.8	101.0	138.7	178.8	222.0	249.8	249.8	237.4	189.7
95°	40.8	44.0	59.3	77.1	104.0	132.6	155.0	169.6	166.5	157.2	137.2
97.5°	32.4	34.7	47.1	62.4	82.4	102.5	115.6	117.1	114.9	111.8	101.8
100°	27.0	28.5	39.3	52.4	68.6	83.3	89.4	87.2	84.0	83.3	77.8
102.5°	23.1	23.9	34.0	45.5	58.6	69.4	71.7	67.8	63.9	63.2	60.9
105°	20.8	20.8	29.3	39.3	50.1	57.8	59.3	54.7	49.3	47.8	47.1
107.5°	18.5	19.2	25.5	34.7	43.2	49.3	49.3	44.0	37.7	36.2	36.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	17.0	17.0	22.4	30.8	37.7	42.4	41.6	35.5	29.3	27.7	28.5
112.5°	15.4	15.4	20.0	27.0	33.1	36.2	34.7	28.5	23.1	22.4	22.4
115°	14.6	14.6	17.7	23.9	28.5	30.8	29.3	23.1	18.5	17.7	18.5
117.5°	13.1	13.9	16.2	20.8	24.7	27.0	24.7	19.2	15.4	14.6	16.2
120°	12.4	13.1	14.6	17.7	21.6	23.1	20.0	16.2	13.1	13.1	13.9
122.5°	11.6	12.4	13.1	16.2	18.5	19.2	17.0	13.1	10.8	11.6	12.4
125°	11.6	11.6	12.4	13.9	16.2	16.2	13.9	10.8	10.0	10.0	10.8
127.5°	10.8	10.8	10.8	12.4	13.9	13.9	11.6	9.2	8.5	9.2	10.0
130°	10.0	10.0	10.0	10.8	11.6	11.6	10.0	7.7	7.7	7.7	8.5
132.5°	9.2	9.2	9.2	9.2	10.0	9.2	7.7	6.1	7.0	7.0	7.7
135°	8.5	8.5	8.5	8.5	7.7	7.0	5.4	5.4	6.1	6.1	7.0
137.5°	7.7	7.7	7.7	7.0	6.1	5.4	4.6	4.6	5.4	5.4	6.1
140°	7.0	7.0	7.0	5.4	4.6	3.9	3.1	3.1	4.6	4.6	4.6
142.5°	6.1	6.1	5.4	4.6	3.9	2.4	1.5	2.4	3.1	3.1	3.9
145°	4.6	4.6	4.6	3.9	2.4	1.5	0.8	1.5	2.4	2.4	3.1
147.5°	3.9	3.9	3.9	3.1	1.5	0.8	0.8	0.8	1.5	1.5	2.4
150°	3.1	3.1	2.4	2.4	0.8	0.0	0.0	0.8	0.8	1.5	1.5
152.5°	2.4	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	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°	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
2.5°	155.7	155.0	154.2	152.6	151.9	150.3	148.7	147.2	147.2	147.2	146.5
5°	165.0	163.5	161.1	158.0	155.7	153.4	151.1	148.7	148.0	147.2	147.2
7.5°	179.6	178.1	173.5	169.6	165.0	161.9	158.0	156.5	155.0	154.2	154.2
10°	201.9	198.9	192.7	186.6	181.2	175.0	171.1	168.8	166.5	165.7	166.5
12.5°	232.0	226.7	218.9	209.7	200.4	192.7	188.1	185.8	185.1	184.2	184.2
15°	273.6	269.9	254.4	238.2	225.0	214.3	208.2	205.8	210.4	212.0	212.0
17.5°	327.7	320.7	302.2	279.8	252.9	236.6	232.0	235.9	239.8	244.4	245.1
20°	394.7	383.1	359.3	322.9	286.7	263.6	259.8	264.4	273.6	279.8	280.6
22.5°	467.9	460.2	423.2	369.3	320.7	293.7	285.2	292.2	306.8	315.3	316.1
25°	562.0	549.6	494.1	420.1	356.2	318.3	308.3	318.3	336.1	349.2	350.0
27.5°	664.5	645.2	572.8	471.0	386.2	339.2	326.8	339.9	363.9	379.3	380.8
30°	770.9	743.9	650.6	518.8	413.2	353.0	339.9	356.2	383.1	400.9	403.1
32.5°	882.6	850.3	722.3	560.5	430.9	360.8	346.9	366.1	394.7	413.2	415.5
35°	996.8	955.8	789.4	590.4	439.4	362.3	347.7	369.3	397.0	416.2	418.6
37.5°	1117.0	1056.9	847.9	611.3	440.9	357.7	344.5	366.1	392.4	410.1	411.6
40°	1233.4	1155.5	897.3	620.5	435.6	350.8	336.9	359.3	381.6	394.7	396.2
42.5°	1361.3	1261.9	940.5	620.5	424.7	342.3	328.4	349.2	366.9	376.1	377.0
45°	1491.7	1368.3	974.4	612.8	410.9	331.4	319.9	338.4	352.3	356.2	356.2
47.5°	1641.9	1480.1	1006.0	599.8	395.5	320.7	311.4	328.4	338.4	338.4	339.2
50°	1793.0	1597.2	1029.9	581.2	377.8	311.4	304.5	320.7	328.4	323.8	323.8
52.5°	1956.5	1717.5	1052.2	557.3	361.5	303.0	299.8	316.8	322.2	315.3	313.7
55°	2121.4	1830.8	1056.9	527.2	343.0	296.0	297.6	313.7	319.2	311.4	310.7
57.5°	2298.0	1947.2	1056.1	492.6	326.8	290.6	295.2	313.0	318.3	310.7	309.9
60°	2434.4	2038.9	1031.4	456.3	312.2	285.2	294.5	312.2	318.3	312.2	312.2
62.5°	2557.8	2093.0	985.2	417.8	298.3	281.4	292.2	310.7	316.8	313.7	313.7
65°	2614.0	2108.3	914.2	380.0	286.7	276.7	290.6	308.3	315.3	314.6	315.3
67.5°	2579.4	2036.7	820.2	346.2	276.0	271.4	286.7	304.5	312.2	313.7	314.6
69°	2519.2	1956.5	761.6	328.4	269.9	267.5	283.7	300.6	309.9	312.2	312.2
70°	2466.0	1887.9	713.1	317.6	265.1	265.1	282.1	298.3	307.6	309.9	310.7
72.5°	2208.6	1664.3	602.8	289.1	255.1	257.5	274.5	290.6	300.6	303.0	303.0
75°	1892.5	1365.2	491.0	265.1	243.6	249.0	265.1	280.6	289.8	292.2	291.4
77.5°	1507.0	1058.4	398.5	244.4	230.5	235.9	252.9	267.5	276.7	278.2	275.2
80°	1124.7	771.6	322.9	222.8	215.0	222.0	237.4	249.8	259.0	259.8	255.1
82.5°	779.4	557.3	262.9	201.9	198.1	203.5	217.4	228.2	236.6	234.4	232.0
85°	519.6	382.4	215.0	178.8	178.8	185.1	195.1	201.9	210.4	207.4	202.7
87.5°	342.3	263.6	176.6	156.5	158.0	163.5	171.1	173.5	181.2	178.8	173.5
90°	232.0	189.7	145.0	134.9	137.2	142.6	146.5	146.5	151.9	148.0	145.7
92.5°	165.0	145.0	121.0	116.4	118.8	123.4	124.1	121.0	125.6	123.4	120.3
95°	124.1	114.1	102.5	100.2	103.3	106.4	105.6	101.0	102.5	101.0	100.2
97.5°	96.4	93.3	87.2	85.5	88.7	90.9	89.4	84.0	84.8	83.3	81.7
100°	77.8	75.6	74.0	74.0	76.3	77.1	74.8	70.2	69.4	67.1	67.8
102.5°	61.7	61.7	62.4	63.9	65.6	65.6	62.4	58.6	57.1	54.7	54.7
105°	48.6	49.3	52.4	53.2	54.7	54.7	51.7	48.6	45.5	43.2	43.2
107.5°	37.7	39.3	42.4	44.7	46.2	45.5	43.2	40.1	36.2	34.0	34.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	30.1	31.6	34.7	37.7	38.6	38.6	36.2	32.4	27.7	27.0	27.0
112.5°	24.7	25.5	29.3	31.6	32.4	32.4	30.1	27.0	22.4	21.6	21.6
115°	20.0	20.8	23.9	26.2	27.0	27.0	25.5	22.4	17.7	17.7	17.7
117.5°	17.0	17.7	20.0	22.4	23.1	23.1	20.8	17.7	14.6	14.6	14.6
120°	14.6	15.4	17.0	18.5	19.2	19.2	17.7	14.6	12.4	12.4	12.4
122.5°	13.1	13.9	14.6	16.2	17.0	17.0	14.6	11.6	10.8	10.8	10.8
125°	11.6	12.4	13.1	13.9	14.6	13.9	12.4	10.0	9.2	10.0	10.0
127.5°	10.0	10.8	11.6	11.6	12.4	11.6	10.0	8.5	7.7	8.5	8.5
130°	9.2	9.2	10.0	10.0	10.8	10.0	8.5	7.0	7.0	7.7	7.7
132.5°	8.5	8.5	8.5	8.5	9.2	8.5	7.0	5.4	6.1	7.0	7.0
135°	7.0	7.0	7.7	7.0	7.7	6.1	5.4	4.6	5.4	6.1	6.1
137.5°	6.1	6.1	6.1	6.1	5.4	5.4	3.9	3.9	4.6	5.4	4.6
140°	5.4	5.4	5.4	4.6	4.6	3.9	3.1	3.1	3.9	3.9	3.9
142.5°	3.9	3.9	3.9	3.9	3.1	2.4	1.5	2.4	2.4	3.1	3.1
145°	3.1	3.1	3.1	2.4	1.5	1.5	0.8	1.5	1.5	2.4	2.4
147.5°	2.4	2.4	2.4	1.5	1.5	0.8	0.8	0.8	1.5	1.5	1.5
150°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	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)