

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: P240419

Luminaire Tested: **UTLD-AF24-60-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240419
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 5773.2 lumens
Efficiency: N/A
Efficacy: 90.2 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: B1 - 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



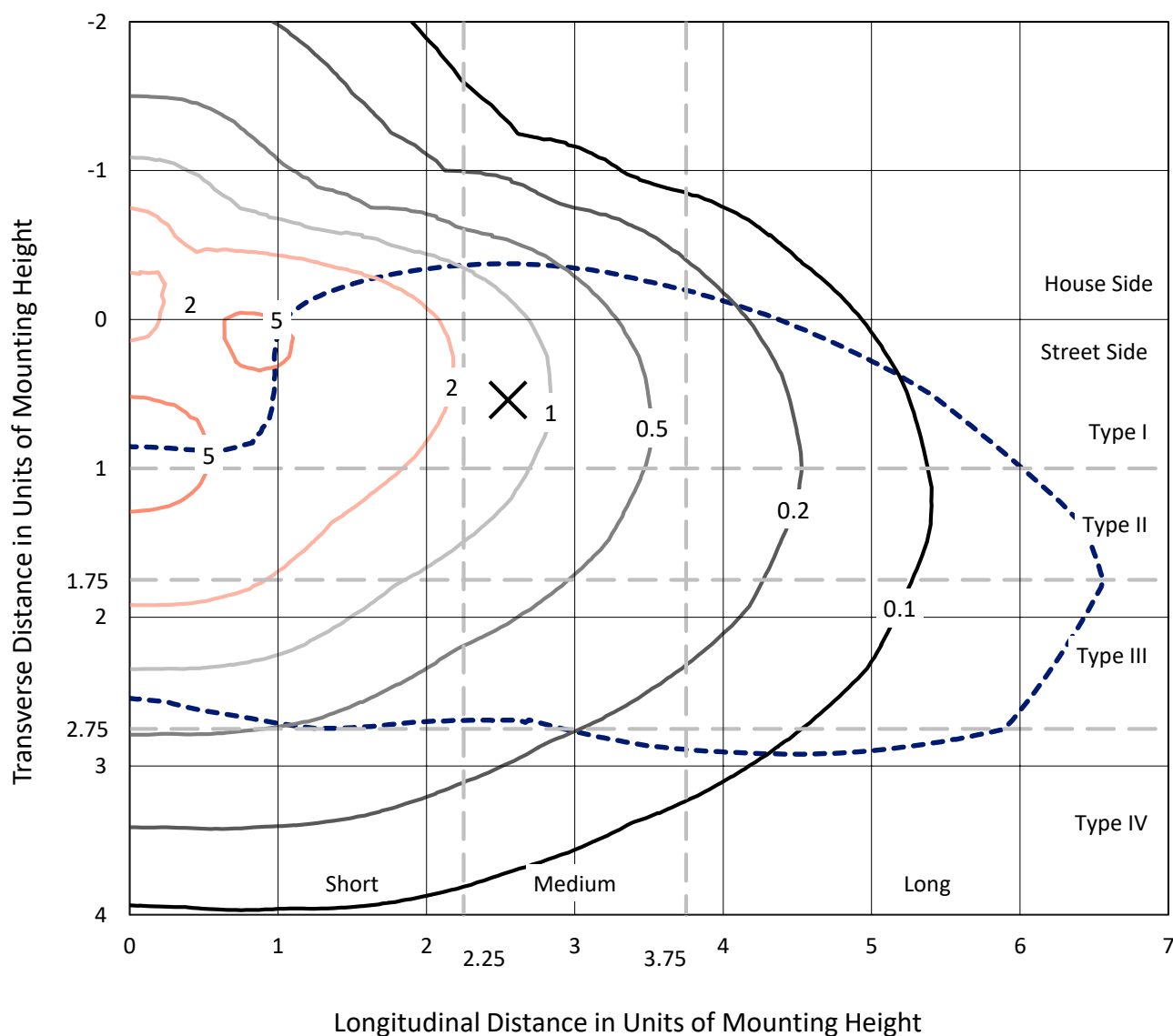
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

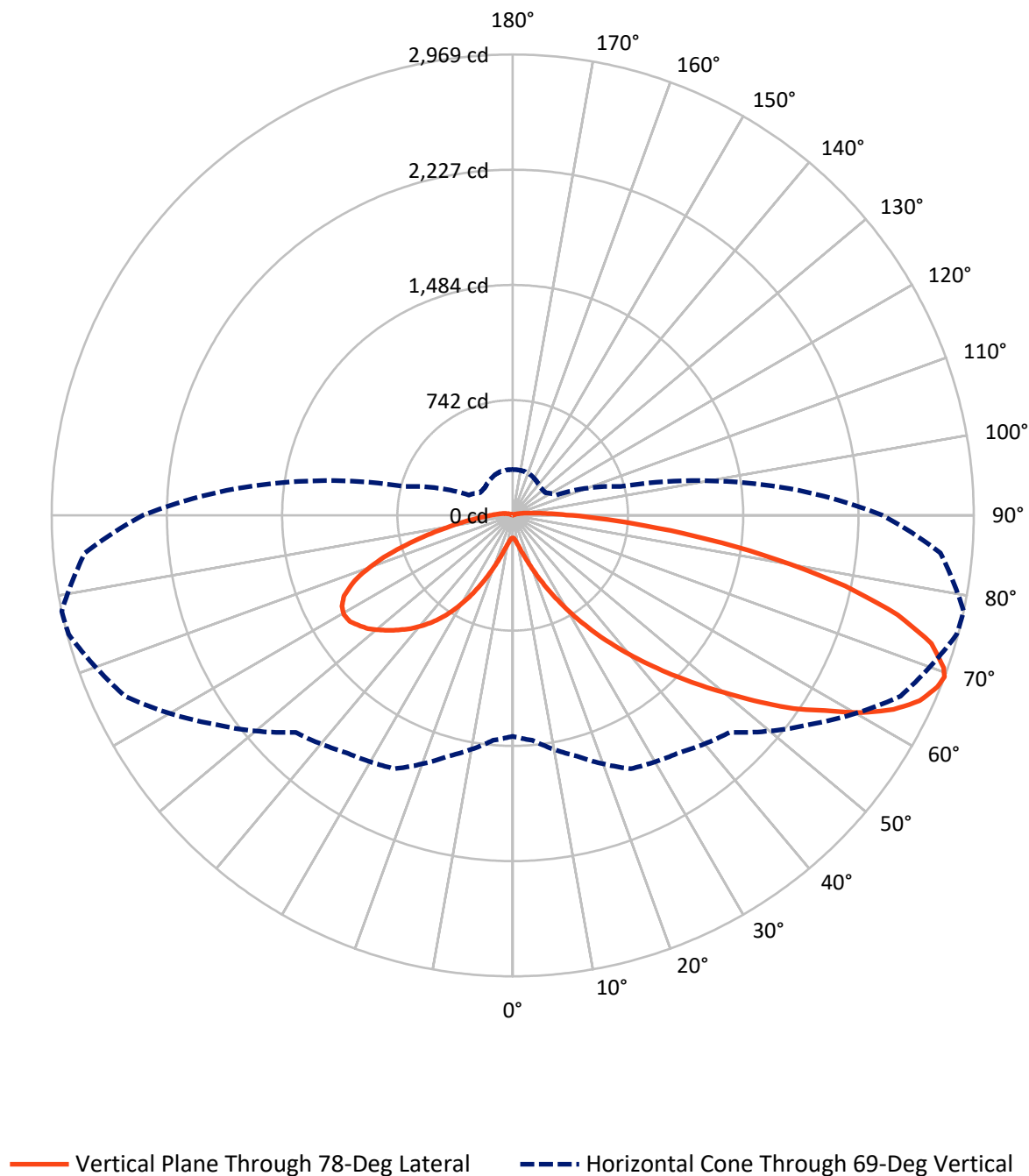


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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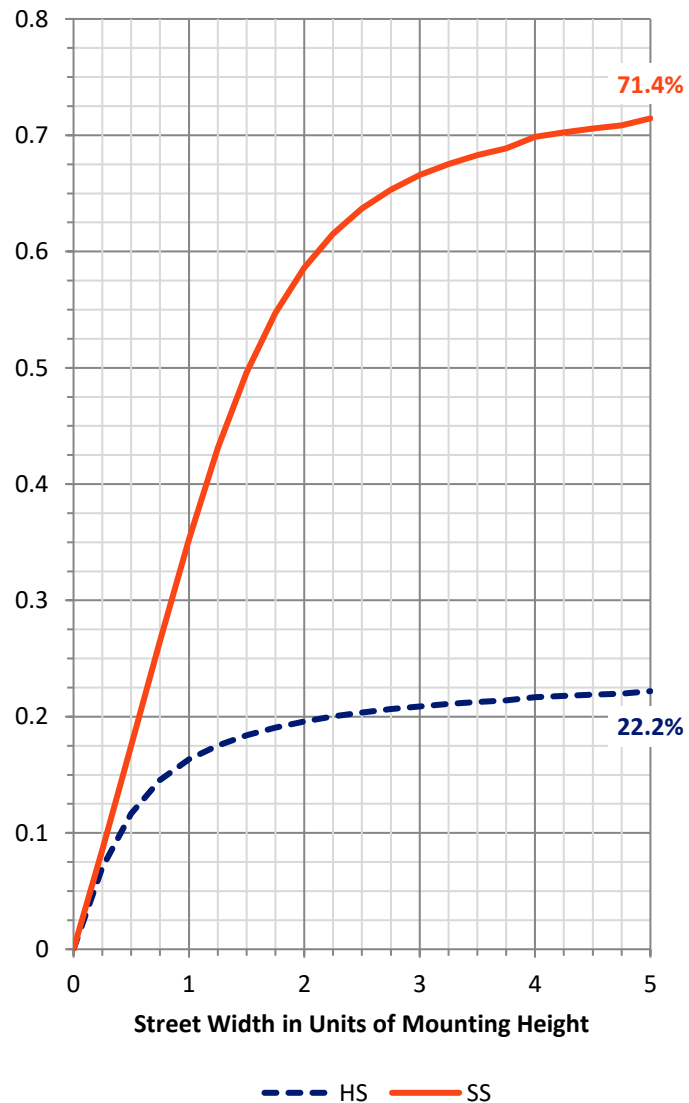
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.1	100.7	1441.9
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	4220.7	110.7	4331.4
	% Fixture	73.1	1.9	75.0
Total	Lumens	5561.8	211.4	5773.2
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.3
10°-20°	74.1	1.3
20°-30°	211.5	3.7
30°-40°	449.6	7.8
40°-50°	779.4	13.5
50°-60°	1166.8	20.2
60°-70°	1388.8	24.1
70°-80°	1059.4	18.3
80°-90°	416.2	7.2
90°-100°	122.2	2.1
100°-110°	49.4	0.9
110°-120°	22.3	0.4
120°-130°	10.8	0.2
130°-140°	5.0	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5561.8	96.3
0°-180°	5773.2	100.0

Coefficient of Utilization



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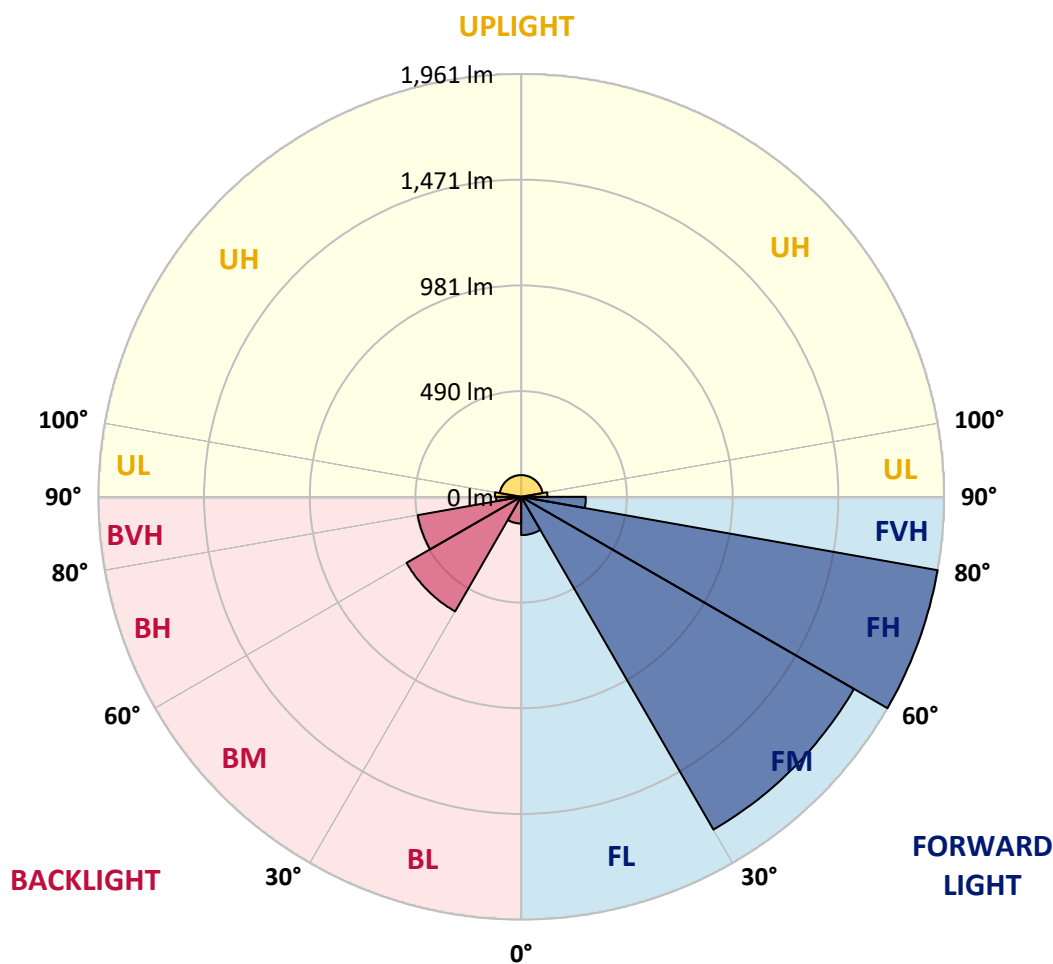
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.6	3.1			
FM	(30°-60°)	1782.1	30.9			
FH	(60°-80°)	1961.1	34.0			G2/5000
FVH	(80°-90°)	299.9	5.2			G3/500
BL	(0°-30°)	124.0	2.1	B1/500		
BM	(30°-60°)	613.7	10.6	B1/1000		
BH	(60°-80°)	487.1	8.4	B1/500		G1/500
BVH	(80°-90°)	116.3	2.0			G2/225
UL	(90°-100°)	122.2	2.1		U3/500	
UH	(100°-180°)	100.7	1.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1
2.5°	156.7	156.7	156.0	156.0	155.2	153.8	151.7	150.1	149.4	149.4	147.9
5°	174.2	174.2	172.7	172.7	170.6	168.4	165.4	161.8	159.6	158.9	156.7
7.5°	197.5	196.7	196.0	193.8	191.6	187.3	183.7	180.1	175.7	175.0	172.0
10°	227.4	225.9	225.9	223.0	218.6	213.6	207.0	201.9	197.5	196.7	193.8
12.5°	266.8	265.3	263.1	257.3	250.7	242.7	236.9	231.7	227.4	225.9	222.4
15°	313.5	312.7	306.8	299.6	287.9	277.7	271.2	266.8	265.3	263.9	260.2
17.5°	371.7	368.1	362.2	347.7	332.3	317.8	311.9	312.7	313.5	313.5	310.6
20°	436.6	435.2	426.4	406.7	385.5	367.3	362.2	366.6	372.5	372.5	371.7
22.5°	521.8	517.5	501.5	473.7	443.9	425.7	418.4	427.9	443.9	444.5	447.5
25°	615.1	613.7	588.2	547.4	509.4	487.7	482.5	494.2	523.4	525.5	533.5
27.5°	718.7	715.0	691.7	634.1	584.5	552.6	550.3	575.8	607.2	618.1	629.8
30°	844.0	840.4	796.0	729.7	669.1	626.8	627.5	660.4	708.4	718.0	734.7
32.5°	973.7	970.1	924.3	841.1	760.9	708.4	709.9	758.7	814.1	825.8	844.0
35°	1123.1	1121.8	1061.2	959.2	857.9	794.5	805.4	857.1	925.7	944.6	960.6
37.5°	1285.0	1268.9	1209.9	1091.1	964.3	895.1	903.0	972.3	1053.3	1062.0	1078.0
40°	1447.5	1443.9	1373.2	1239.8	1086.7	1000.7	1011.6	1089.7	1177.2	1193.1	1201.9
42.5°	1618.7	1617.4	1534.2	1388.4	1213.6	1117.4	1127.5	1216.5	1314.2	1329.4	1333.8
45°	1801.0	1790.9	1708.5	1545.2	1360.1	1241.3	1259.4	1351.3	1466.5	1478.9	1481.0
47.5°	1957.7	1944.6	1882.6	1712.8	1503.0	1375.3	1389.2	1503.6	1624.6	1637.8	1632.7
50°	2099.1	2093.3	2030.6	1880.5	1659.6	1510.9	1530.6	1655.3	1791.6	1807.5	1802.4
52.5°	2191.7	2188.0	2162.6	2017.5	1797.5	1649.4	1677.1	1812.7	1973.8	1997.0	1970.2
55°	2237.6	2237.6	2242.8	2137.7	1923.5	1780.6	1823.6	1987.7	2163.3	2196.1	2158.2
57.5°	2234.1	2229.6	2271.8	2220.1	2020.4	1886.3	1970.2	2173.5	2358.0	2371.0	2351.4
60°	2150.9	2164.8	2239.0	2248.5	2089.7	1980.4	2110.1	2345.5	2543.8	2578.7	2519.0
62.5°	2018.2	2044.5	2153.1	2215.8	2108.6	2047.4	2230.3	2496.3	2716.5	2752.2	2666.9
65°	1835.2	1862.3	1995.6	2116.6	2070.7	2070.0	2312.7	2634.1	2854.3	2879.7	2765.4
67.5°	1605.7	1614.5	1768.3	1942.4	1963.6	2035.7	2352.1	2728.9	2954.1	2949.7	2800.4
69°	1422.8	1454.1	1605.7	1800.3	1865.9	1976.0	2344.8	2755.1	2960.0	2968.7	2765.4
70°	1330.2	1336.0	1485.4	1682.9	1797.5	1922.0	2320.0	2749.3	2950.4	2943.9	2725.3
72.5°	1032.8	1044.4	1181.5	1396.6	1554.6	1742.6	2198.3	2650.8	2836.1	2819.2	2519.0
75°	736.9	756.5	882.7	1084.5	1271.9	1508.8	1973.8	2439.5	2600.6	2561.9	2222.4
77.5°	502.9	523.4	617.4	802.5	989.2	1247.0	1664.7	2119.5	2230.3	2190.2	1816.3
80°	322.9	336.7	411.1	557.6	735.5	957.7	1325.8	1698.2	1796.7	1725.2	1388.4
82.5°	213.6	222.4	274.0	377.6	514.6	706.3	983.3	1268.9	1312.6	1267.5	973.1
85°	144.3	150.1	187.3	256.5	360.8	497.1	696.1	882.7	918.4	855.7	648.7
87.5°	99.1	105.0	134.8	179.3	250.7	346.9	466.4	593.3	582.4	553.2	423.5
90°	70.7	75.8	96.9	127.5	177.1	241.3	311.3	375.5	373.8	345.5	270.4
92.5°	51.1	55.4	73.6	95.5	131.2	169.2	209.9	236.1	236.1	224.5	179.3
95°	38.7	41.5	56.2	72.8	98.5	125.3	146.5	160.4	157.5	148.7	129.7
97.5°	30.6	32.8	44.5	59.0	78.0	96.9	109.4	110.8	108.6	105.7	96.2
100°	25.4	27.0	37.1	49.6	64.9	78.6	84.5	82.4	79.4	78.6	73.6
102.5°	21.9	22.6	32.1	43.0	55.4	65.5	67.7	64.1	60.5	59.8	57.6
105°	19.6	19.6	27.7	37.1	47.4	54.6	56.2	51.8	46.7	45.3	44.5
107.5°	17.5	18.2	24.0	32.8	40.9	46.7	46.7	41.5	35.7	34.3	34.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	16.1	16.1	21.1	29.2	35.7	40.1	39.4	33.6	27.7	26.2	27.0
112.5°	14.5	14.5	18.9	25.4	31.3	34.3	32.8	27.0	21.9	21.1	21.1
115°	13.8	13.8	16.7	22.6	27.0	29.2	27.7	21.9	17.5	16.7	17.5
117.5°	12.3	13.1	15.3	19.6	23.3	25.4	23.3	18.2	14.5	13.8	15.3
120°	11.7	12.3	13.8	16.7	20.4	21.9	18.9	15.3	12.3	12.3	13.1
122.5°	10.9	11.7	12.3	15.3	17.5	18.2	16.1	12.3	10.2	10.9	11.7
125°	10.9	10.9	11.7	13.1	15.3	15.3	13.1	10.2	9.5	9.5	10.2
127.5°	10.2	10.2	10.2	11.7	13.1	13.1	10.9	8.7	7.9	8.7	9.5
130°	9.5	9.5	9.5	10.2	10.9	10.9	9.5	7.3	7.3	7.3	7.9
132.5°	8.7	8.7	8.7	8.7	9.5	8.7	7.3	5.8	6.5	6.5	7.3
135°	7.9	7.9	7.9	7.9	7.3	6.5	5.1	5.1	5.8	5.8	6.5
137.5°	7.3	7.3	7.3	6.5	5.8	5.1	4.4	4.4	5.1	5.1	5.8
140°	6.5	6.5	6.5	5.1	4.4	3.6	2.9	2.9	4.4	4.4	4.4
142.5°	5.8	5.8	5.1	4.4	3.6	2.1	1.4	2.1	2.9	2.9	3.6
145°	4.4	4.4	4.4	3.6	2.1	1.4	0.8	1.4	2.1	2.1	2.9
147.5°	3.6	3.6	3.6	2.9	1.4	0.8	0.8	0.8	1.4	1.4	2.1
150°	2.9	2.9	2.1	2.1	0.8	0.0	0.0	0.8	0.8	1.4	1.4
152.5°	2.1	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.4	1.4	1.4	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°	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1	145.1
2.5°	147.3	146.5	145.8	144.3	143.5	142.1	140.6	139.2	139.2	139.2	138.4
5°	156.0	154.5	152.3	149.4	147.3	145.1	142.9	140.6	140.0	139.2	139.2
7.5°	169.8	168.4	164.0	160.4	156.0	153.1	149.4	147.9	146.5	145.8	145.8
10°	190.9	188.0	182.3	176.4	171.3	165.4	161.8	159.6	157.5	156.7	157.5
12.5°	219.4	214.2	207.0	198.3	189.4	182.3	177.9	175.7	175.0	174.2	174.2
15°	258.7	255.1	240.5	225.2	212.8	202.6	196.7	194.6	199.0	200.5	200.5
17.5°	309.8	303.2	285.7	264.6	239.1	223.8	219.4	223.0	226.7	231.1	231.7
20°	373.2	362.2	339.7	305.4	271.2	249.2	245.7	249.9	258.7	264.6	265.3
22.5°	442.4	435.2	400.1	349.1	303.2	277.7	269.7	276.2	290.1	298.1	298.9
25°	531.3	519.6	467.2	397.2	336.7	301.0	291.5	301.0	317.8	330.2	330.9
27.5°	628.2	610.1	541.6	445.3	365.2	320.6	308.9	321.4	344.0	358.6	360.0
30°	728.9	703.3	615.1	490.6	390.7	333.8	321.4	336.7	362.2	379.0	381.2
32.5°	834.5	803.9	683.0	529.9	407.4	341.1	328.0	346.3	373.2	390.7	392.9
35°	942.5	903.8	746.4	558.4	415.4	342.5	328.8	349.1	375.5	393.6	395.7
37.5°	1056.1	999.2	801.8	578.0	417.0	338.1	325.8	346.3	371.1	387.8	389.2
40°	1166.3	1092.6	848.4	586.7	411.8	331.6	318.5	339.7	360.8	373.2	374.6
42.5°	1287.2	1193.1	889.3	586.7	401.6	323.6	310.6	330.2	346.9	355.6	356.4
45°	1410.3	1293.7	921.3	579.4	388.5	313.5	302.4	320.0	333.1	336.7	336.7
47.5°	1552.5	1399.4	951.2	567.0	373.8	303.2	294.5	310.6	320.0	320.0	320.6
50°	1695.3	1510.2	973.7	549.6	357.2	294.5	287.9	303.2	310.6	306.2	306.2
52.5°	1849.9	1623.9	995.0	526.9	341.9	286.5	283.5	299.6	304.7	298.1	296.6
55°	2005.9	1731.1	999.2	498.6	324.4	279.9	281.4	296.6	301.8	294.5	293.7
57.5°	2172.7	1841.1	998.5	465.8	308.9	274.8	279.1	295.9	301.0	293.7	293.1
60°	2301.8	1927.9	975.2	431.5	295.2	269.7	278.4	295.2	301.0	295.2	295.2
62.5°	2418.4	1978.9	931.4	395.1	282.1	266.0	276.2	293.7	299.6	296.6	296.6
65°	2471.6	1993.4	864.5	359.4	271.2	261.6	274.8	291.5	298.1	297.4	298.1
67.5°	2438.7	1925.7	775.5	327.2	260.9	256.5	271.2	287.9	295.2	296.6	297.4
69°	2382.0	1849.9	720.1	310.6	255.1	252.9	268.2	284.3	293.1	295.2	295.2
70°	2331.6	1785.0	674.2	300.3	250.7	250.7	266.8	282.1	290.8	293.1	293.7
72.5°	2088.2	1573.7	570.0	273.3	241.3	243.4	259.5	274.8	284.3	286.5	286.5
75°	1789.3	1290.8	464.3	250.7	230.3	235.5	250.7	265.3	274.0	276.2	275.6
77.5°	1425.0	1000.7	376.8	231.1	218.0	223.0	239.1	252.9	261.6	263.1	260.2
80°	1063.4	729.7	305.4	210.7	203.3	209.9	224.5	236.1	244.8	245.7	241.3
82.5°	736.9	526.9	248.6	190.9	187.3	192.4	205.5	215.8	223.8	221.6	219.4
85°	491.2	361.5	203.3	169.2	169.2	175.0	184.4	190.9	199.0	196.0	191.6
87.5°	323.6	249.2	166.9	147.9	149.4	154.5	161.8	164.0	171.3	169.2	164.0
90°	219.4	179.3	137.0	127.5	129.7	134.8	138.4	138.4	143.5	140.0	137.7
92.5°	156.0	137.0	114.4	110.1	112.2	116.6	117.4	114.4	118.8	116.6	113.7
95°	117.4	107.8	96.9	94.7	97.7	100.6	99.9	95.5	96.9	95.5	94.7
97.5°	91.1	88.2	82.4	80.9	83.8	86.0	84.5	79.4	80.2	78.6	77.2
100°	73.6	71.4	69.9	69.9	72.1	72.8	70.7	66.3	65.5	63.4	64.1
102.5°	58.4	58.4	59.0	60.5	62.0	62.0	59.0	55.4	54.0	51.8	51.8
105°	45.9	46.7	49.6	50.3	51.8	51.8	48.8	45.9	43.0	40.9	40.9
107.5°	35.7	37.1	40.1	42.3	43.7	43.0	40.9	37.9	34.3	32.1	32.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.4	29.9	32.8	35.7	36.5	36.5	34.3	30.6	26.2	25.4	25.4
112.5°	23.3	24.0	27.7	29.9	30.6	30.6	28.4	25.4	21.1	20.4	20.4
115°	18.9	19.6	22.6	24.8	25.4	25.4	24.0	21.1	16.7	16.7	16.7
117.5°	16.1	16.7	18.9	21.1	21.9	21.9	19.6	16.7	13.8	13.8	13.8
120°	13.8	14.5	16.1	17.5	18.2	18.2	16.7	13.8	11.7	11.7	11.7
122.5°	12.3	13.1	13.8	15.3	16.1	16.1	13.8	10.9	10.2	10.2	10.2
125°	10.9	11.7	12.3	13.1	13.8	13.1	11.7	9.5	8.7	9.5	9.5
127.5°	9.5	10.2	10.9	10.9	11.7	10.9	9.5	7.9	7.3	7.9	7.9
130°	8.7	8.7	9.5	9.5	10.2	9.5	7.9	6.5	6.5	7.3	7.3
132.5°	7.9	7.9	7.9	7.9	8.7	7.9	6.5	5.1	5.8	6.5	6.5
135°	6.5	6.5	7.3	6.5	7.3	5.8	5.1	4.4	5.1	5.8	5.8
137.5°	5.8	5.8	5.8	5.8	5.1	5.1	3.6	3.6	4.4	5.1	4.4
140°	5.1	5.1	5.1	4.4	4.4	3.6	2.9	2.9	3.6	3.6	3.6
142.5°	3.6	3.6	3.6	3.6	2.9	2.1	1.4	2.1	2.1	2.9	2.9
145°	2.9	2.9	2.9	2.1	1.4	1.4	0.8	1.4	1.4	2.1	2.1
147.5°	2.1	2.1	2.1	1.4	1.4	0.8	0.8	0.8	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	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)