

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: P240418

Luminaire Tested: **UTLD-AF24-50-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240418
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-AF24-50-D-U-T3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA 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: 4966.9 lumens
Efficiency: N/A
Efficacy: 92.0 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): 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

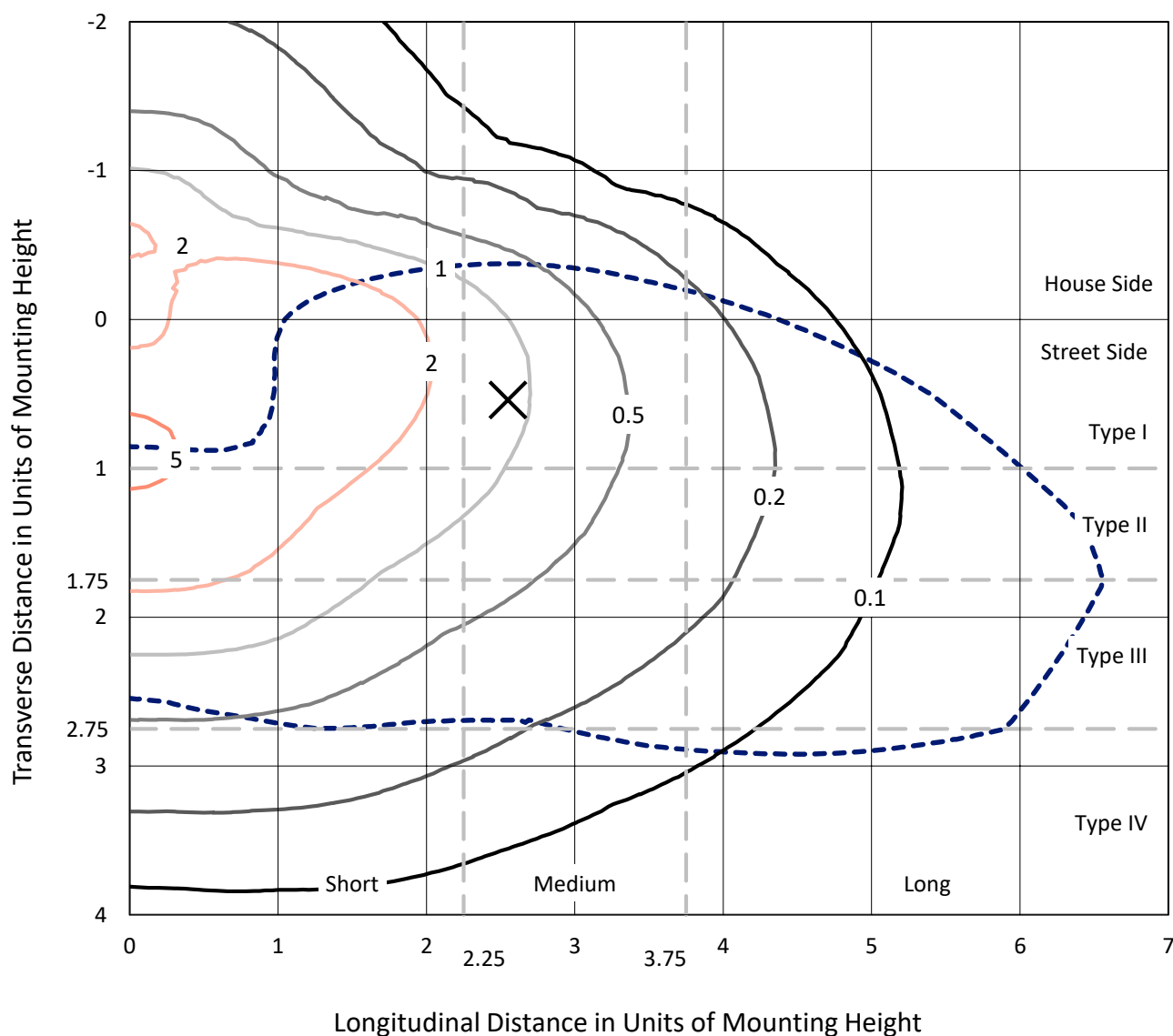


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

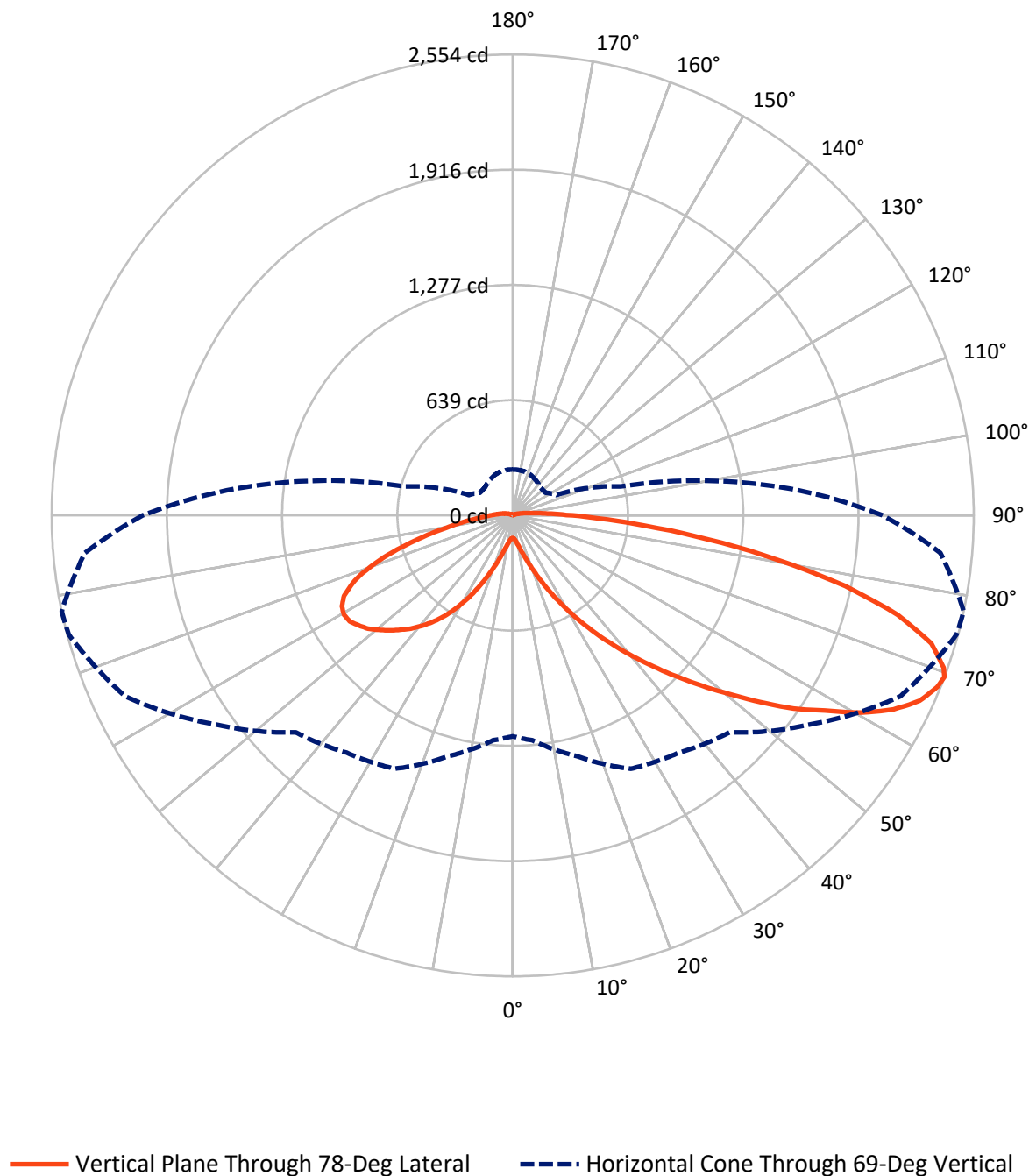


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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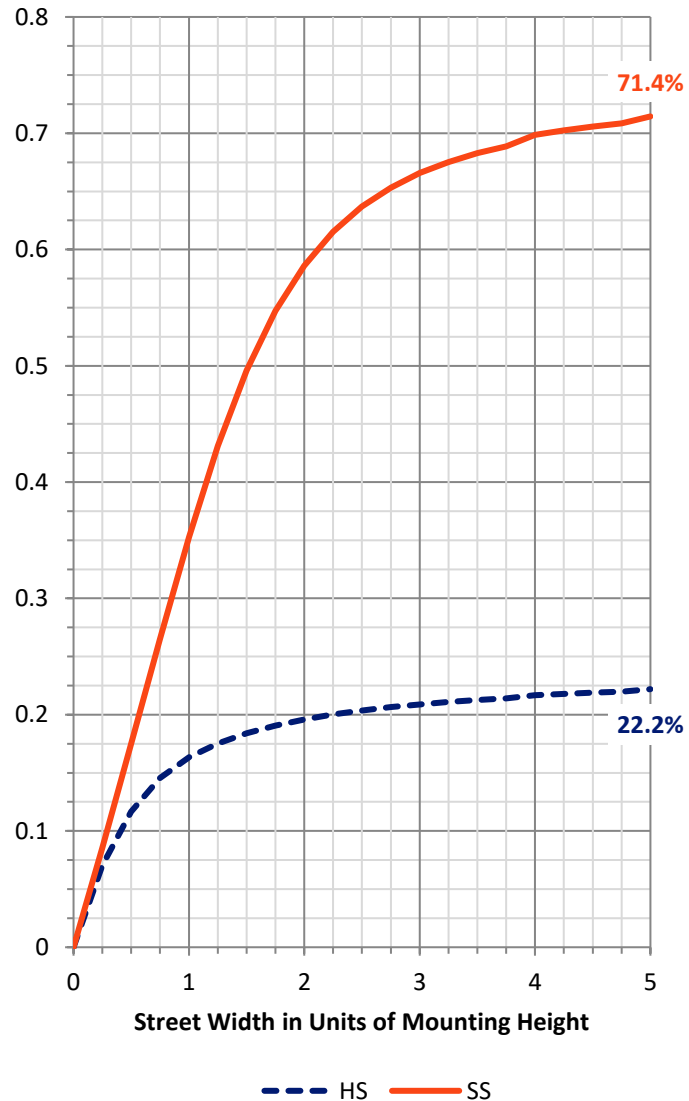
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.8	86.7	1240.5
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	3631.2	95.2	3726.4
	% Fixture	73.1	1.9	75.0
Total	Lumens	4785.0	181.9	4966.9
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.3
10°-20°	63.8	1.3
20°-30°	182.0	3.7
30°-40°	386.8	7.8
40°-50°	670.5	13.5
50°-60°	1003.8	20.2
60°-70°	1194.8	24.1
70°-80°	911.4	18.3
80°-90°	358.1	7.2
90°-100°	105.1	2.1
100°-110°	42.5	0.9
110°-120°	19.2	0.4
120°-130°	9.3	0.2
130°-140°	4.3	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4785.0	96.3
0°-180°	4966.9	100.0

Coefficient of Utilization



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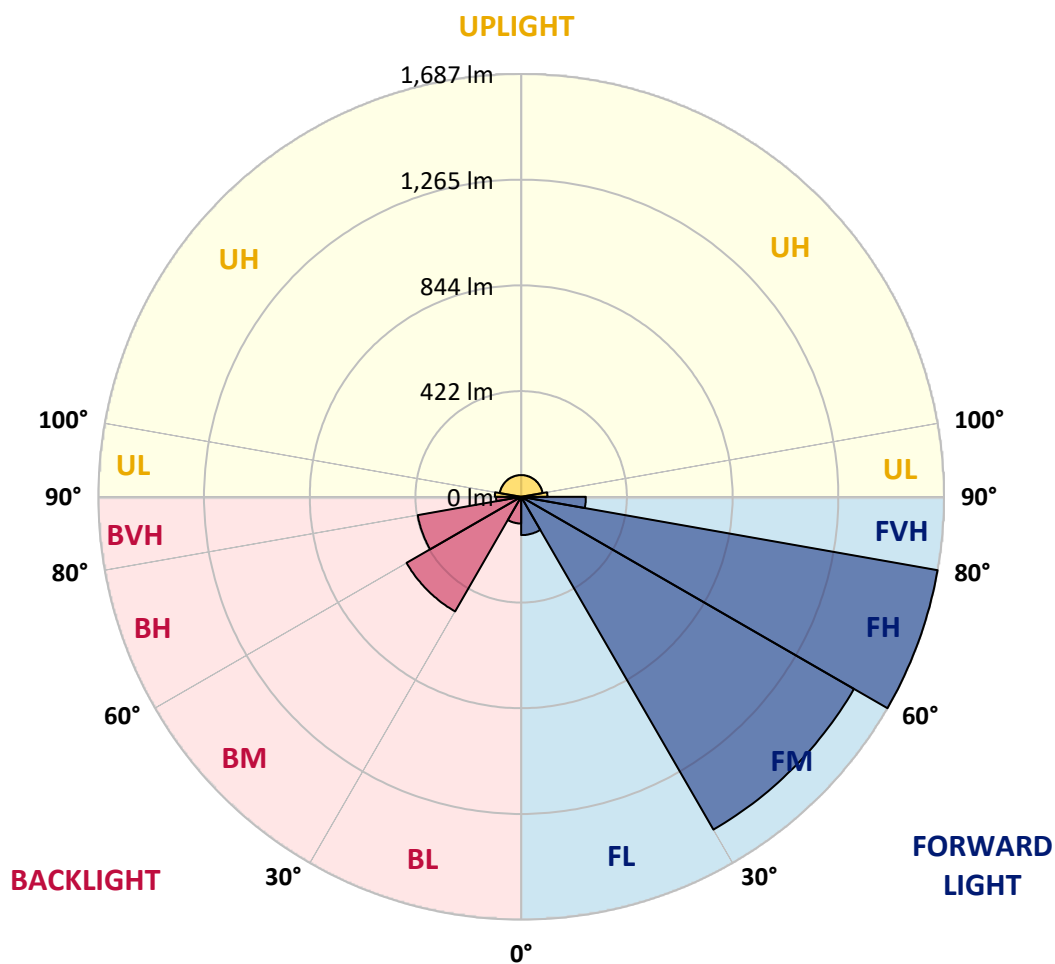
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.8	3.1			
FM	(30°-60°)	1533.2	30.9			
FH	(60°-80°)	1687.2	34.0			G1/1800
FVH	(80°-90°)	258.0	5.2			G3/500
BL	(0°-30°)	106.7	2.1	B0/110		
BM	(30°-60°)	528.0	10.6	B1/1000		
BH	(60°-80°)	419.1	8.4	B1/500		G1/500
BVH	(80°-90°)	100.1	2.0			G2/225
UL	(90°-100°)	105.1	2.1		U3/500	
UH	(100°-180°)	86.7	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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	134.8	134.8	134.2	134.2	133.6	132.3	130.4	129.2	128.6	128.6	127.3
5°	149.9	149.9	148.6	148.6	146.7	144.9	142.4	139.2	137.3	136.7	134.8
7.5°	169.9	169.4	168.7	166.8	164.9	161.1	158.0	154.9	151.1	150.4	147.9
10°	195.7	194.4	194.4	191.9	188.2	183.8	178.1	173.7	169.9	169.4	166.8
12.5°	229.6	228.3	226.3	221.4	215.7	208.8	203.8	199.4	195.7	194.4	191.2
15°	269.7	269.0	264.0	257.8	247.7	239.0	233.3	229.6	228.3	227.0	223.9
17.5°	319.8	316.7	311.6	299.2	285.9	273.3	268.3	269.0	269.7	269.7	267.1
20°	375.7	374.3	366.8	349.9	331.7	316.1	311.6	315.4	320.4	320.4	319.8
22.5°	448.9	445.2	431.5	407.6	381.9	366.2	359.9	368.1	381.9	382.5	385.0
25°	529.3	527.9	506.1	470.9	438.3	419.5	415.0	425.1	450.2	452.2	459.0
27.5°	618.3	615.1	595.1	545.5	502.9	475.3	473.4	495.4	522.4	531.8	541.8
30°	726.1	723.0	684.7	627.7	575.7	539.3	539.8	568.1	609.5	617.7	632.1
32.5°	837.8	834.6	795.1	723.7	654.7	609.5	610.8	652.9	700.5	710.5	726.1
35°	966.3	965.1	913.0	825.2	738.0	683.5	692.9	737.4	796.4	812.7	826.4
37.5°	1105.4	1091.7	1040.9	938.7	829.6	770.1	777.0	836.5	906.1	913.6	927.4
40°	1245.3	1242.2	1181.4	1066.6	934.9	861.0	870.4	937.5	1012.8	1026.5	1034.0
42.5°	1392.7	1391.4	1320.0	1194.5	1044.1	961.3	970.1	1046.6	1130.7	1143.7	1147.5
45°	1549.6	1540.7	1469.9	1329.3	1170.0	1067.9	1083.6	1162.6	1261.6	1272.4	1274.2
47.5°	1684.3	1673.0	1619.7	1473.6	1293.0	1183.3	1195.2	1293.6	1397.8	1409.0	1404.6
50°	1805.9	1800.9	1747.0	1617.8	1427.8	1299.8	1316.8	1424.0	1541.3	1555.1	1550.7
52.5°	1885.6	1882.4	1860.4	1735.7	1546.3	1419.1	1442.9	1559.5	1698.1	1718.2	1694.9
55°	1925.1	1925.1	1929.5	1839.2	1654.8	1532.0	1569.0	1710.0	1861.1	1889.3	1856.8
57.5°	1922.0	1918.1	1954.5	1910.1	1738.2	1622.8	1694.9	1869.9	2028.5	2039.9	2022.9
60°	1850.6	1862.5	1926.4	1934.6	1797.8	1703.8	1815.4	2017.9	2188.5	2218.5	2167.1
62.5°	1736.3	1759.0	1852.4	1906.2	1814.1	1761.5	1918.8	2147.7	2337.0	2367.7	2294.5
65°	1578.9	1602.2	1716.9	1821.1	1781.5	1780.8	1989.7	2266.2	2455.6	2477.6	2379.1
67.5°	1381.5	1388.9	1521.2	1671.1	1689.3	1751.4	2023.6	2347.8	2541.5	2537.8	2409.1
69°	1224.0	1251.0	1381.5	1548.9	1605.2	1700.0	2017.3	2370.3	2546.5	2554.1	2379.1
70°	1144.4	1149.4	1278.0	1447.9	1546.3	1653.5	1995.9	2365.3	2538.3	2532.7	2344.6
72.5°	888.6	898.5	1016.4	1201.5	1337.6	1499.4	1891.3	2280.7	2439.9	2425.4	2167.1
75°	633.9	650.8	759.4	933.1	1094.2	1298.0	1698.1	2098.8	2237.4	2204.1	1911.9
77.5°	432.6	450.2	531.1	690.4	850.9	1072.9	1432.2	1823.5	1918.8	1884.2	1562.6
80°	277.7	289.7	353.7	479.7	632.7	824.0	1140.6	1461.1	1545.7	1484.3	1194.5
82.5°	183.8	191.2	235.8	324.8	442.7	607.6	845.8	1091.7	1129.3	1090.5	837.2
85°	124.1	129.2	161.1	220.7	310.4	427.6	598.8	759.4	790.1	736.2	558.1
87.5°	85.3	90.2	116.1	154.3	215.7	298.5	401.3	510.5	501.1	476.0	364.4
90°	60.8	65.2	83.4	109.7	152.4	207.6	267.8	323.0	321.7	297.1	232.6
92.5°	43.9	47.6	63.4	82.2	112.9	145.6	180.6	203.2	203.2	193.2	154.3
95°	33.3	35.7	48.3	62.8	84.6	107.8	126.0	138.0	135.5	128.0	111.7
97.5°	26.3	28.2	38.2	50.8	67.0	83.4	94.1	95.3	93.4	90.9	82.8
100°	22.0	23.2	32.0	42.6	55.8	67.7	72.7	70.9	68.4	67.7	63.4
102.5°	18.8	19.4	27.7	37.0	47.6	56.5	58.4	55.1	52.0	51.5	49.5
105°	16.9	16.9	23.8	32.0	40.8	47.0	48.3	44.5	40.1	38.9	38.2
107.5°	15.1	15.7	20.6	28.2	35.1	40.1	40.1	35.7	30.7	29.5	29.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	13.7	13.7	18.1	25.1	30.7	34.5	33.9	28.9	23.8	22.6	23.2
112.5°	12.6	12.6	16.3	22.0	27.0	29.5	28.2	23.2	18.8	18.1	18.1
115°	11.9	11.9	14.4	19.4	23.2	25.1	23.8	18.8	15.1	14.4	15.1
117.5°	10.7	11.3	13.2	16.9	20.1	22.0	20.1	15.7	12.6	11.9	13.2
120°	10.1	10.7	11.9	14.4	17.6	18.8	16.3	13.2	10.7	10.7	11.3
122.5°	9.4	10.1	10.7	13.2	15.1	15.7	13.7	10.7	8.7	9.4	10.1
125°	9.4	9.4	10.1	11.3	13.2	13.2	11.3	8.7	8.2	8.2	8.7
127.5°	8.7	8.7	8.7	10.1	11.3	11.3	9.4	7.5	6.9	7.5	8.2
130°	8.2	8.2	8.2	8.7	9.4	9.4	8.2	6.2	6.2	6.2	6.9
132.5°	7.5	7.5	7.5	7.5	8.2	7.5	6.2	5.0	5.7	5.7	6.2
135°	6.9	6.9	6.9	6.9	6.2	5.7	4.4	4.4	5.0	5.0	5.7
137.5°	6.2	6.2	6.2	5.7	5.0	4.4	3.8	3.8	4.4	4.4	5.0
140°	5.7	5.7	5.7	4.4	3.8	3.2	2.5	2.5	3.8	3.8	3.8
142.5°	5.0	5.0	4.4	3.8	3.2	1.8	1.2	1.8	2.5	2.5	3.2
145°	3.8	3.8	3.8	3.2	1.8	1.2	0.6	1.2	1.8	1.8	2.5
147.5°	3.2	3.2	3.2	2.5	1.2	0.6	0.6	0.6	1.2	1.2	1.8
150°	2.5	2.5	1.8	1.8	0.6	0.0	0.0	0.6	0.6	1.2	1.2
152.5°	1.8	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.6	0.6	0.6
155°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.6	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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	126.6	126.0	125.4	124.1	123.6	122.3	121.1	119.7	119.7	119.7	119.1
5°	134.2	133.0	131.1	128.6	126.6	124.8	122.9	121.1	120.4	119.7	119.7
7.5°	146.1	144.9	141.1	138.0	134.2	131.6	128.6	127.3	126.0	125.4	125.4
10°	164.3	161.8	156.8	151.8	147.4	142.4	139.2	137.3	135.5	134.8	135.5
12.5°	188.8	184.3	178.1	170.6	163.1	156.8	153.0	151.1	150.4	149.9	149.9
15°	222.6	219.5	206.9	193.7	183.1	174.4	169.4	167.3	171.2	172.4	172.4
17.5°	266.5	260.9	245.9	227.6	205.6	192.6	188.8	191.9	195.0	198.8	199.4
20°	321.0	311.6	292.2	262.8	233.3	214.4	211.3	215.1	222.6	227.6	228.3
22.5°	380.7	374.3	344.2	300.4	260.9	239.0	232.0	237.6	249.5	256.4	257.1
25°	457.1	447.1	402.0	341.8	289.7	259.0	250.9	259.0	273.3	284.1	284.7
27.5°	540.5	524.9	465.9	383.2	314.1	275.9	265.8	276.5	296.0	308.5	309.8
30°	627.0	605.1	529.3	422.1	336.1	287.3	276.5	289.7	311.6	326.0	328.0
32.5°	718.0	691.6	587.6	455.8	350.5	293.5	282.2	297.8	321.0	336.1	337.9
35°	810.8	777.6	642.1	480.3	357.4	294.7	282.8	300.4	323.0	338.6	340.5
37.5°	908.6	859.8	689.8	497.2	358.7	290.9	280.2	297.8	319.1	333.6	334.9
40°	1003.3	939.9	729.9	504.8	354.3	285.2	274.0	292.2	310.4	321.0	322.4
42.5°	1107.5	1026.5	765.1	504.8	345.5	278.4	267.1	284.1	298.5	306.0	306.6
45°	1213.4	1113.1	792.5	498.6	334.3	269.7	260.2	275.4	286.6	289.7	289.7
47.5°	1335.7	1203.9	818.4	487.9	321.7	260.9	253.4	267.1	275.4	275.4	275.9
50°	1458.6	1299.3	837.8	472.8	307.2	253.4	247.7	260.9	267.1	263.4	263.4
52.5°	1591.5	1397.1	855.9	453.3	294.1	246.5	243.9	257.8	262.1	256.4	255.2
55°	1725.6	1489.3	859.8	429.0	279.0	240.8	242.0	255.2	259.6	253.4	252.7
57.5°	1869.3	1583.9	859.1	400.7	265.8	236.4	240.2	254.6	259.0	252.7	252.1
60°	1980.4	1658.5	839.0	371.3	253.9	232.0	239.5	253.9	259.0	253.9	253.9
62.5°	2080.7	1702.5	801.4	339.9	242.7	228.9	237.6	252.7	257.8	255.2	255.2
65°	2126.4	1715.1	743.7	309.1	233.3	225.1	236.4	250.9	256.4	255.8	256.4
67.5°	2098.3	1656.7	667.2	281.6	224.5	220.7	233.3	247.7	253.9	255.2	255.8
69°	2049.2	1591.5	619.5	267.1	219.5	217.7	230.7	244.5	252.1	253.9	253.9
70°	2006.0	1535.6	580.0	258.4	215.7	215.7	229.6	242.7	250.2	252.1	252.7
72.5°	1796.5	1353.8	490.3	235.1	207.6	209.4	223.2	236.4	244.5	246.5	246.5
75°	1539.5	1110.5	399.5	215.7	198.2	202.5	215.7	228.3	235.8	237.6	237.0
77.5°	1225.9	861.0	324.2	198.8	187.5	191.9	205.6	217.7	225.1	226.3	223.9
80°	914.9	627.7	262.8	181.3	175.0	180.6	193.2	203.2	210.7	211.3	207.6
82.5°	633.9	453.3	213.8	164.3	161.1	165.5	176.8	185.6	192.6	190.6	188.8
85°	422.7	311.1	175.0	145.6	145.6	150.4	158.7	164.3	171.2	168.7	164.9
87.5°	278.4	214.4	143.5	127.3	128.6	133.0	139.2	141.1	147.4	145.6	141.1
90°	188.8	154.3	117.9	109.7	111.7	116.1	119.1	119.1	123.6	120.4	118.5
92.5°	134.2	117.9	98.5	94.7	96.5	100.3	100.9	98.5	102.1	100.3	97.8
95°	100.9	92.8	83.4	81.5	84.0	86.6	85.9	82.2	83.4	82.2	81.5
97.5°	78.3	75.8	70.9	69.6	72.1	74.0	72.7	68.4	69.0	67.7	66.4
100°	63.4	61.4	60.2	60.2	62.1	62.8	60.8	57.1	56.5	54.5	55.1
102.5°	50.1	50.1	50.8	52.0	53.3	53.3	50.8	47.6	46.4	44.5	44.5
105°	39.6	40.1	42.6	43.2	44.5	44.5	42.1	39.6	37.0	35.1	35.1
107.5°	30.7	32.0	34.5	36.4	37.5	37.0	35.1	32.6	29.5	27.7	27.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.5	25.6	28.2	30.7	31.3	31.3	29.5	26.3	22.6	22.0	22.0
112.5°	20.1	20.6	23.8	25.6	26.3	26.3	24.5	22.0	18.1	17.6	17.6
115°	16.3	16.9	19.4	21.3	22.0	22.0	20.6	18.1	14.4	14.4	14.4
117.5°	13.7	14.4	16.3	18.1	18.8	18.8	16.9	14.4	11.9	11.9	11.9
120°	11.9	12.6	13.7	15.1	15.7	15.7	14.4	11.9	10.1	10.1	10.1
122.5°	10.7	11.3	11.9	13.2	13.7	13.7	11.9	9.4	8.7	8.7	8.7
125°	9.4	10.1	10.7	11.3	11.9	11.3	10.1	8.2	7.5	8.2	8.2
127.5°	8.2	8.7	9.4	9.4	10.1	9.4	8.2	6.9	6.2	6.9	6.9
130°	7.5	7.5	8.2	8.2	8.7	8.2	6.9	5.7	5.7	6.2	6.2
132.5°	6.9	6.9	6.9	6.9	7.5	6.9	5.7	4.4	5.0	5.7	5.7
135°	5.7	5.7	6.2	5.7	6.2	5.0	4.4	3.8	4.4	5.0	5.0
137.5°	5.0	5.0	5.0	5.0	4.4	4.4	3.2	3.2	3.8	4.4	3.8
140°	4.4	4.4	4.4	3.8	3.8	3.2	2.5	2.5	3.2	3.2	3.2
142.5°	3.2	3.2	3.2	3.2	2.5	1.8	1.2	1.8	1.8	2.5	2.5
145°	2.5	2.5	2.5	1.8	1.2	1.2	0.6	1.2	1.2	1.8	1.8
147.5°	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.6	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.6	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)