

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: P266492

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.2 lumens
Efficiency: N/A
Efficacy: 75.9 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): 83
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



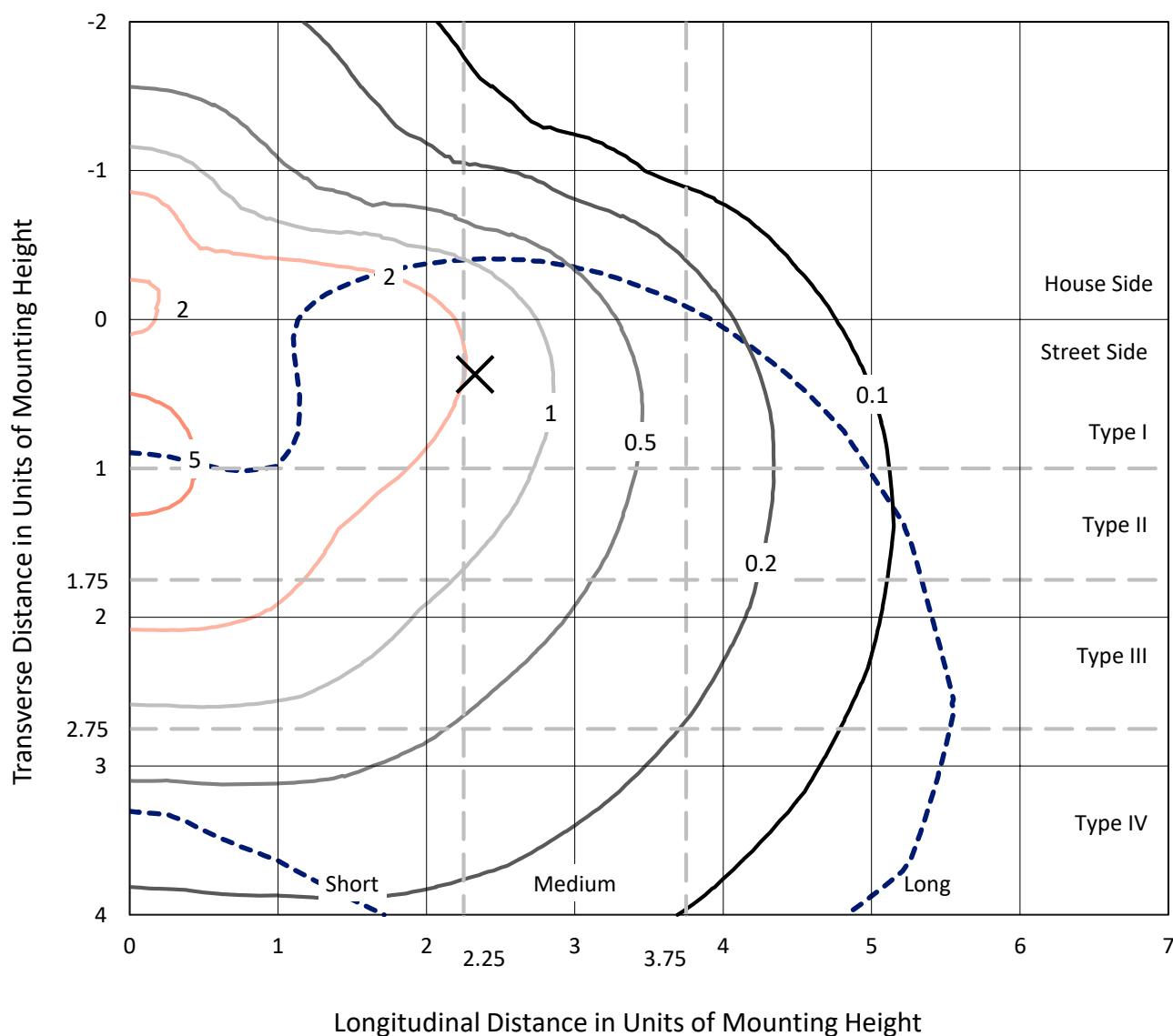
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

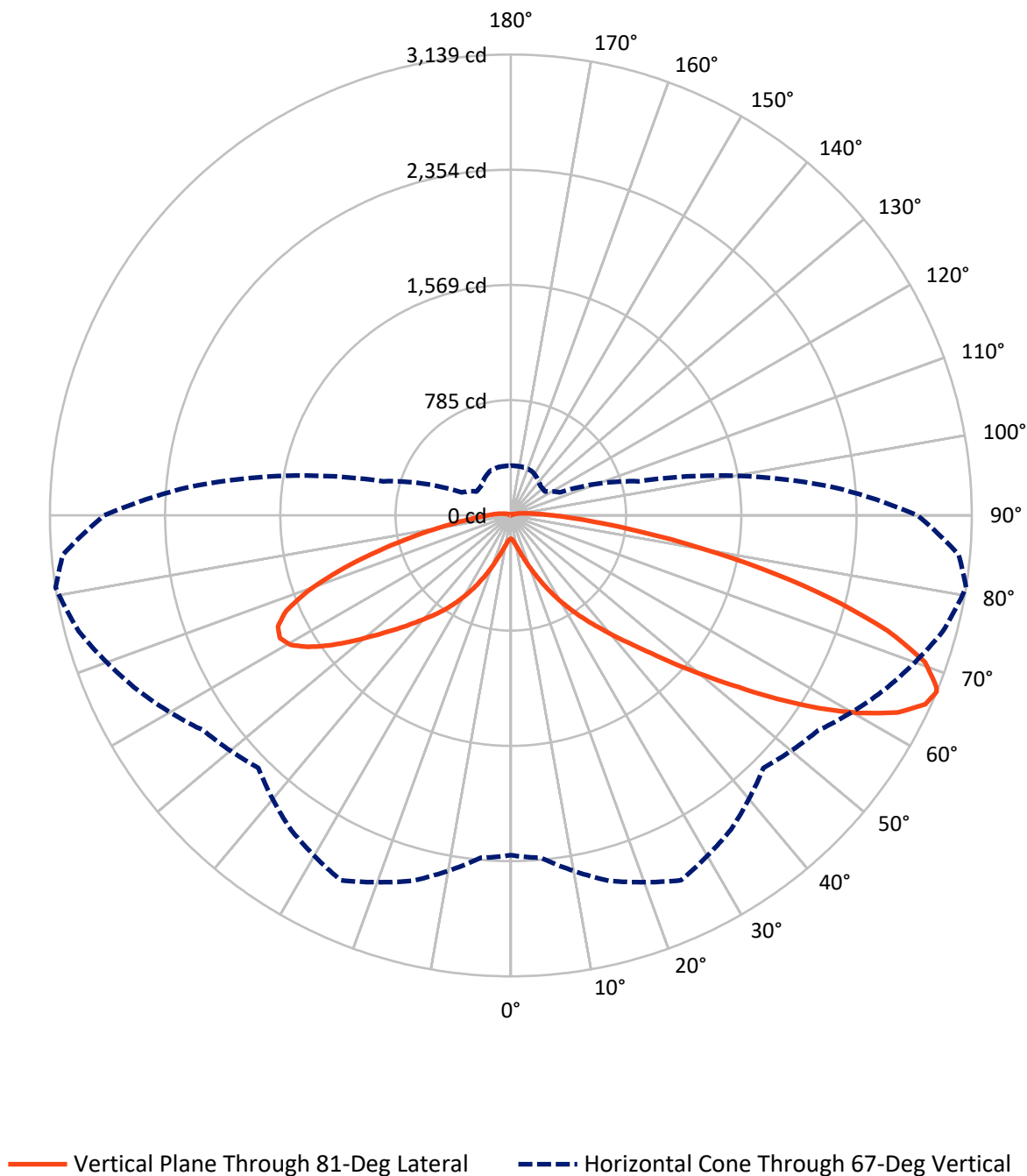


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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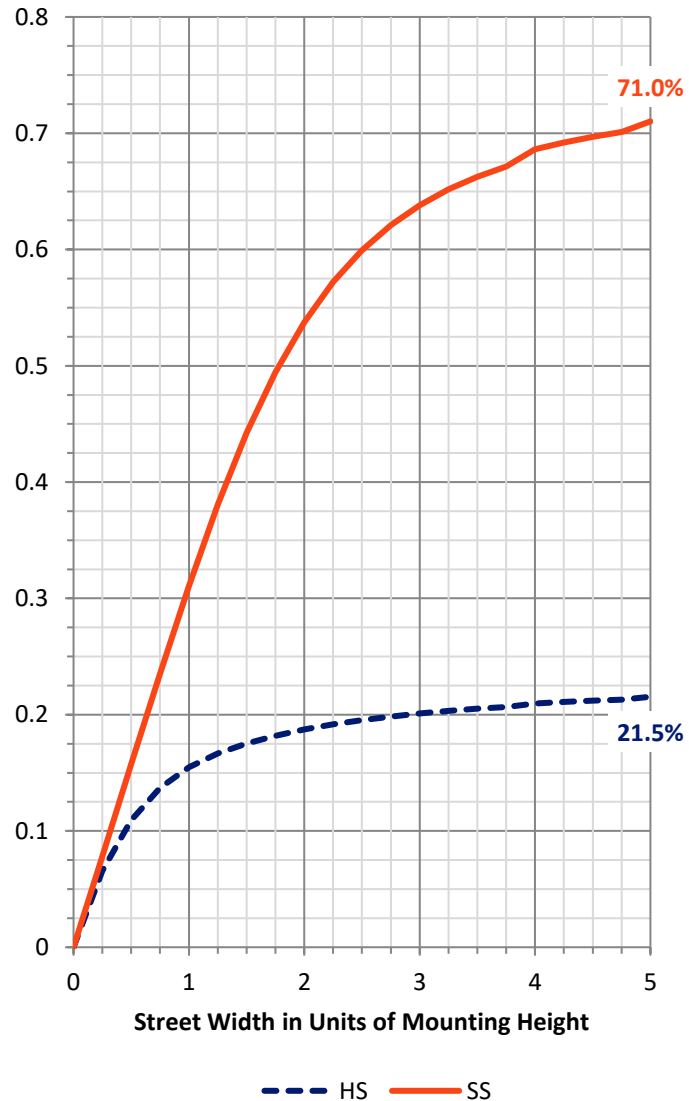
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.3	115.2	1546.5
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4620.1	131.6	4751.7
	% Fixture	73.4	2.1	75.4
Total	Lumens	6051.4	246.8	6298.2
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.3
10°-20°	79.5	1.3
20°-30°	214.8	3.4
30°-40°	431.1	6.8
40°-50°	728.7	11.6
50°-60°	1165.0	18.5
60°-70°	1591.8	25.3
70°-80°	1312.2	20.8
80°-90°	510.7	8.1
90°-100°	147.0	2.3
100°-110°	56.3	0.9
110°-120°	24.4	0.4
120°-130°	11.7	0.2
130°-140°	5.5	0.1
140°-150°	1.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6051.4	96.1
0°-180°	6298.2	100.0

Coefficient of Utilization



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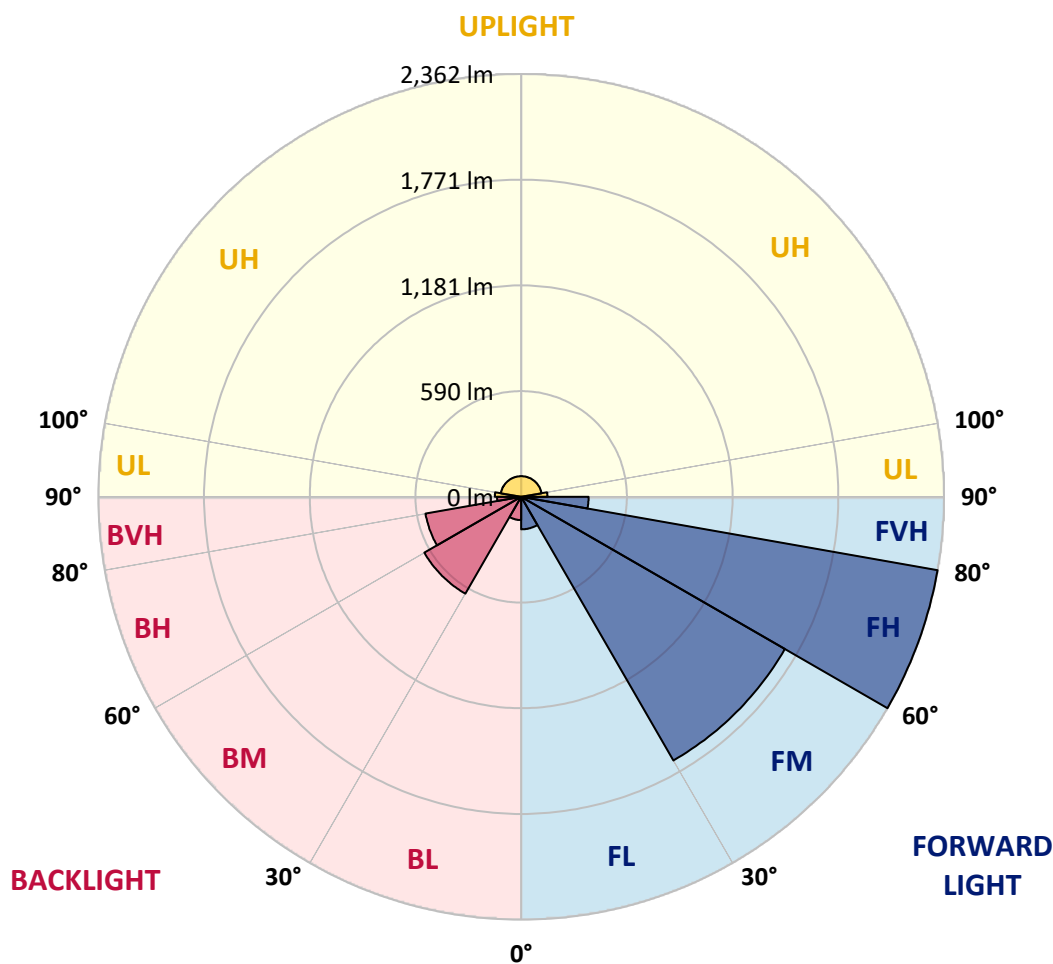
CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.9	2.9			
FM	(30°-60°)	1700.4	27.0			
FH	(60°-80°)	2361.5	37.5			G2/5000
FVH	(80°-90°)	376.3	6.0			G3/500
BL	(0°-30°)	130.0	2.1	B1/500		
BM	(30°-60°)	624.4	9.9	B1/1000		
BH	(60°-80°)	542.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	134.5	2.1			G2/225
UL	(90°-100°)	147.0	2.3		U3/500	
UH	(100°-180°)	115.2	1.8		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°	81°	85°
0°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	172.4	172.4	172.4	171.5	170.8	169.2	167.5	165.9	165.1	164.3	163.5
5°	190.0	190.8	190.0	189.2	186.8	184.3	181.2	178.8	175.6	173.9	173.2
7.5°	216.4	216.4	215.7	211.6	209.2	205.3	201.2	196.4	193.1	190.8	187.6
10°	250.1	248.6	246.9	242.9	237.2	230.9	226.1	220.4	214.9	213.2	210.1
12.5°	290.2	290.2	286.2	280.5	270.1	263.7	255.7	249.3	243.7	240.4	238.9
15°	344.0	341.4	334.3	325.5	312.6	299.8	291.1	286.2	280.5	280.5	274.9
17.5°	398.4	400.9	389.5	375.9	358.3	342.3	331.8	331.0	328.6	327.1	326.3
20°	469.8	467.3	453.7	430.5	404.7	385.6	378.4	379.2	385.6	384.7	381.6
22.5°	546.7	546.7	525.9	494.5	458.6	435.3	428.0	435.3	449.0	449.0	450.5
25°	638.1	634.8	608.4	561.1	517.9	487.4	484.1	495.3	519.4	523.4	521.8
27.5°	740.7	729.5	695.0	636.4	579.5	545.1	539.4	560.4	593.2	604.4	608.4
30°	849.6	850.4	797.5	721.3	644.4	598.8	596.4	630.0	669.2	688.6	693.4
32.5°	975.5	971.4	910.6	815.2	715.8	656.5	654.1	700.6	750.3	775.1	778.3
35°	1131.9	1113.4	1045.3	920.3	789.6	722.2	720.6	771.1	836.1	867.4	875.3
37.5°	1275.4	1265.7	1188.0	1029.3	873.7	788.7	785.6	851.2	928.2	964.3	975.5
40°	1442.9	1431.5	1340.2	1159.2	973.9	865.6	864.1	938.6	1027.7	1073.4	1082.9
42.5°	1607.2	1599.9	1501.3	1303.4	1079.8	952.3	949.1	1035.7	1140.7	1192.0	1204.0
45°	1783.6	1765.1	1669.7	1450.9	1197.6	1052.5	1054.2	1147.9	1277.7	1337.8	1349.9
47.5°	1934.2	1923.0	1842.9	1610.4	1327.4	1161.5	1163.9	1289.0	1446.9	1516.6	1522.2
50°	2098.5	2092.2	2012.7	1779.5	1483.7	1297.0	1300.9	1442.0	1632.8	1713.0	1741.1
52.5°	2234.9	2235.6	2175.4	1953.5	1637.6	1442.9	1454.8	1624.9	1834.8	1942.2	1959.1
55°	2367.9	2363.9	2328.5	2144.3	1820.3	1606.3	1620.1	1826.9	2076.2	2206.0	2228.3
57.5°	2464.1	2474.6	2478.6	2327.0	1997.6	1770.6	1815.6	2036.8	2338.9	2478.6	2498.5
60°	2530.5	2535.3	2591.5	2510.6	2189.1	1964.7	2023.3	2270.0	2586.0	2732.6	2745.4
62.5°	2524.1	2545.0	2654.0	2648.5	2375.1	2149.0	2223.6	2488.9	2800.7	2956.2	2958.7
65°	2438.4	2472.9	2655.6	2735.8	2529.0	2323.7	2419.9	2686.1	2977.1	3100.5	3068.5
67°	2314.2	2340.7	2575.5	2741.4	2612.4	2432.0	2553.8	2807.9	3046.8	3138.9	3061.2
67.5°	2262.0	2309.4	2545.8	2735.8	2621.2	2455.2	2575.5	2840.0	3061.2	3127.0	3043.5
70°	2011.1	2048.0	2313.3	2621.2	2624.4	2525.8	2665.2	2878.4	3006.7	2992.3	2841.6
72.5°	1671.2	1688.2	1979.1	2368.7	2504.1	2497.7	2638.9	2779.0	2777.5	2682.1	2499.4
75°	1266.5	1311.3	1573.6	1988.7	2253.3	2341.4	2469.7	2516.2	2405.5	2245.3	2024.1
77.5°	893.8	917.0	1148.7	1563.9	1904.5	2068.8	2159.4	2137.8	1934.2	1745.0	1544.6
80°	578.8	601.1	760.8	1120.6	1493.3	1669.0	1751.4	1687.3	1482.2	1260.1	1091.8
82.5°	350.2	369.6	481.8	751.9	1097.4	1293.7	1335.4	1273.6	1045.3	860.8	728.6
85°	205.3	220.4	299.0	484.9	747.8	933.9	949.1	878.5	702.1	575.5	485.8
87.5°	125.0	133.0	189.2	310.3	496.1	630.0	661.3	595.5	473.0	384.7	327.1
90°	80.9	86.5	121.0	203.6	325.5	416.1	435.3	397.6	320.6	262.1	225.2
92.5°	55.3	60.9	84.3	136.3	214.1	275.7	287.7	261.2	215.7	184.3	164.3
95°	42.5	44.8	64.0	96.2	145.9	184.3	195.7	178.0	150.6	135.5	123.4
97.5°	34.5	36.1	51.4	74.6	105.8	132.3	137.1	124.2	111.4	101.8	96.2
100°	29.6	30.5	43.3	60.9	82.6	100.3	102.5	93.0	84.3	79.4	74.6
102.5°	26.5	27.3	37.6	52.1	67.4	79.4	79.4	72.1	64.0	60.9	58.5
105°	23.3	24.1	33.6	44.8	57.8	64.9	64.9	57.0	49.6	46.5	45.8
107.5°	20.8	21.6	28.8	39.3	48.9	54.4	53.7	45.8	37.6	34.5	34.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	19.3	19.3	25.6	34.5	41.7	46.5	44.0	36.9	28.8	26.5	27.3
112.5°	17.6	17.6	22.5	29.6	36.9	40.1	36.9	30.5	22.5	20.8	21.6
115°	16.9	16.9	20.0	26.5	32.1	33.6	31.4	24.9	18.4	16.9	17.6
117.5°	15.2	15.2	18.4	23.3	27.3	28.8	26.5	20.0	15.2	14.5	15.2
120°	14.5	14.5	16.0	20.0	24.1	24.9	22.5	16.9	12.8	12.8	13.7
122.5°	13.7	13.7	15.2	17.6	20.8	21.6	19.3	13.7	11.1	11.1	12.0
125°	13.7	13.7	13.7	16.0	17.6	18.4	16.0	12.0	10.4	10.4	11.1
127.5°	12.8	12.8	12.8	13.7	15.2	15.2	13.7	9.6	8.9	9.6	9.6
130°	12.0	12.0	12.0	12.8	13.7	12.8	11.1	8.1	8.1	8.9	8.9
132.5°	11.1	11.1	11.1	11.1	11.1	10.4	8.9	7.2	7.2	8.1	8.1
135°	10.4	10.4	10.4	9.6	9.6	8.9	7.2	5.6	6.4	7.2	7.2
137.5°	9.6	9.6	9.6	8.9	8.1	6.4	4.9	4.9	5.6	6.4	6.4
140°	8.9	8.9	8.1	7.2	6.4	4.9	3.2	4.0	4.9	4.9	5.6
142.5°	7.2	7.2	7.2	5.6	4.0	3.2	2.4	2.4	4.0	4.0	4.0
145°	6.4	6.4	5.6	4.9	3.2	1.5	0.8	1.5	2.4	3.2	3.2
147.5°	4.9	4.9	4.9	3.2	1.5	0.8	0.8	0.8	1.5	2.4	2.4
150°	4.0	4.0	3.2	2.4	0.8	0.0	0.0	0.8	1.5	1.5	1.5
152.5°	2.4	2.4	2.4	1.5	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	162.8	162.0	161.2	159.4	158.7	157.2	155.4	154.7	153.9	153.9	153.9
5°	171.5	170.8	168.3	165.1	162.8	160.3	158.7	157.2	155.4	155.4	155.4
7.5°	185.9	184.3	179.5	176.3	172.4	169.2	166.7	164.3	163.5	163.5	162.8
10°	206.8	204.5	198.7	192.3	186.8	182.7	179.5	177.1	176.3	176.3	176.3
12.5°	234.1	230.9	222.1	214.1	205.3	199.7	195.7	194.8	195.7	195.7	194.8
15°	273.4	266.9	253.3	240.4	226.8	218.0	215.7	215.7	219.6	221.3	222.1
17.5°	320.6	312.6	294.1	273.4	252.6	240.4	238.9	243.7	252.6	256.5	255.7
20°	379.2	367.9	342.3	311.1	282.2	266.9	265.3	274.2	286.2	294.1	293.3
22.5°	444.9	434.5	396.1	350.2	310.3	292.6	290.2	304.5	322.2	331.0	334.3
25°	517.9	503.4	452.8	390.4	339.9	315.0	314.1	331.8	355.1	371.1	373.5
27.5°	597.2	580.3	513.8	430.5	365.5	333.5	332.6	356.6	388.7	408.8	409.5
30°	684.6	658.8	573.9	464.2	384.7	346.2	348.0	375.9	416.9	440.1	444.1
32.5°	771.1	742.3	628.5	497.0	397.6	352.8	355.1	390.4	435.3	465.0	468.1
35°	862.6	825.6	682.9	518.6	404.7	353.6	355.9	396.1	444.9	476.9	480.1
37.5°	954.7	910.6	728.6	534.6	404.7	348.7	351.9	394.4	444.1	476.9	479.3
40°	1063.8	999.5	772.0	541.0	398.4	339.9	344.0	385.6	432.1	462.4	465.0
42.5°	1176.7	1099.7	812.7	539.4	387.2	328.6	332.6	371.1	412.1	436.8	439.4
45°	1313.1	1219.2	854.5	534.6	373.5	316.7	319.0	353.6	388.0	405.7	408.8
47.5°	1480.5	1347.5	897.0	525.9	358.3	305.5	307.0	337.5	362.3	373.5	375.9
50°	1666.4	1498.9	943.5	513.8	344.0	295.0	297.3	322.2	339.9	344.7	345.5
52.5°	1886.9	1670.5	986.8	499.4	331.0	287.0	290.2	312.6	324.6	325.5	326.3
55°	2125.0	1858.1	1025.2	481.8	318.2	281.3	287.7	308.6	316.7	315.8	316.7
57.5°	2373.5	2038.4	1051.6	463.3	307.8	278.1	288.5	308.6	316.7	315.0	316.7
60°	2595.6	2193.1	1055.7	439.4	299.8	278.1	293.3	314.1	321.5	321.5	323.0
62.5°	2753.5	2282.1	1029.3	415.2	292.6	279.7	299.8	321.5	328.6	328.6	330.2
65°	2817.5	2280.4	971.4	389.5	287.0	282.2	306.2	329.5	335.1	335.1	336.7
67°	2769.5	2206.0	897.0	370.3	283.8	284.6	311.1	334.3	339.1	338.3	339.1
67.5°	2739.8	2179.5	881.0	364.7	283.0	284.6	311.8	335.1	339.9	339.1	339.1
70°	2494.6	1954.3	770.3	340.6	277.3	284.6	315.0	336.7	339.9	338.3	338.3
72.5°	2115.4	1635.3	646.2	316.7	270.8	282.2	313.4	334.3	335.8	333.5	333.5
75°	1682.5	1279.4	530.7	295.8	262.1	276.6	307.8	327.1	329.5	327.1	324.6
77.5°	1245.7	947.4	428.9	273.4	251.6	267.8	298.1	316.7	319.0	316.7	314.1
80°	868.9	673.3	345.5	250.8	238.1	254.8	284.6	300.7	303.7	302.2	298.1
82.5°	581.2	462.4	276.6	226.1	220.4	238.1	266.1	280.5	283.0	281.3	276.6
85°	396.8	322.2	228.4	199.7	201.2	218.0	242.1	253.3	255.7	253.3	248.6
87.5°	266.9	230.9	186.8	173.9	178.8	194.8	214.1	219.6	224.4	220.4	217.2
90°	193.1	173.9	150.6	148.3	156.3	169.9	182.7	183.6	190.0	188.4	181.9
92.5°	145.0	136.3	125.0	125.0	133.8	145.0	153.2	151.5	155.4	155.4	150.6
95°	114.7	109.9	104.3	106.5	114.7	122.7	125.0	121.8	125.9	126.7	125.0
97.5°	92.2	90.5	89.0	90.5	97.7	104.3	103.5	97.7	101.0	102.5	101.0
100°	74.6	73.8	74.6	77.8	83.4	87.3	85.0	79.4	81.7	81.7	81.7
102.5°	60.1	60.1	62.5	65.8	69.8	72.9	69.8	64.9	65.8	64.9	64.9
105°	47.3	48.1	51.4	55.3	58.5	60.1	57.0	52.1	51.4	48.9	49.6
107.5°	36.9	38.4	41.7	45.8	48.9	49.6	47.3	42.5	39.3	37.6	37.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.8	30.5	34.5	37.6	40.1	41.0	38.4	33.6	29.6	28.8	28.8
112.5°	23.3	24.9	28.0	31.4	33.6	33.6	31.4	27.3	22.5	21.6	21.6
115°	19.3	20.0	23.3	25.6	28.0	28.0	25.6	21.6	17.6	16.9	17.6
117.5°	16.0	16.9	19.3	21.6	23.3	23.3	20.8	16.9	13.7	13.7	13.7
120°	14.5	15.2	16.9	18.4	19.3	19.3	17.6	13.7	11.1	11.1	11.1
122.5°	12.8	12.8	14.5	15.2	16.9	16.0	14.5	11.1	8.9	9.6	9.6
125°	11.1	12.0	12.0	13.7	13.7	13.7	11.1	8.9	8.1	8.1	8.1
127.5°	10.4	10.4	11.1	11.1	12.0	11.1	8.9	6.4	6.4	7.2	7.2
130°	9.6	9.6	9.6	9.6	9.6	8.9	7.2	5.6	5.6	6.4	6.4
132.5°	8.1	8.9	8.9	8.1	8.1	7.2	5.6	4.0	4.9	4.9	4.9
135°	7.2	8.1	7.2	7.2	6.4	5.6	4.0	3.2	4.0	4.0	4.0
137.5°	6.4	6.4	6.4	5.6	4.9	4.0	3.2	2.4	3.2	3.2	3.2
140°	5.6	5.6	5.6	4.9	4.0	3.2	1.5	1.5	2.4	2.4	2.4
142.5°	4.0	4.9	4.0	3.2	2.4	1.5	0.8	0.8	1.5	2.4	1.5
145°	3.2	3.2	3.2	2.4	1.5	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	2.4	2.4	2.4	1.5	0.8	0.8	0.0	0.0	0.0	0.8	0.8
150°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	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)