

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: P240483

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240483
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-AF24-70-D-U-T4W-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 6778.1 lumens
Efficiency: N/A
Efficacy: 91.6 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): 74
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



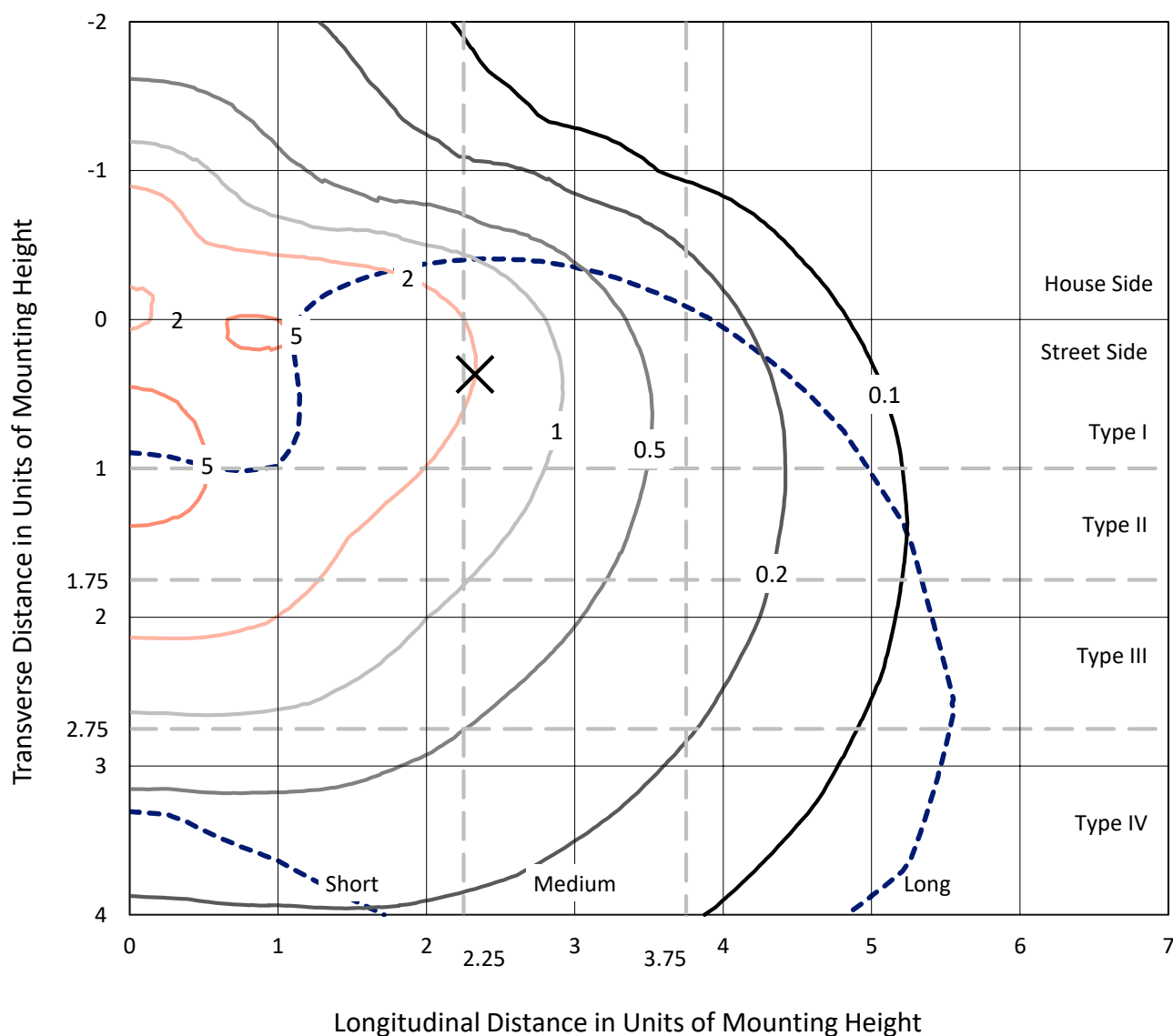
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

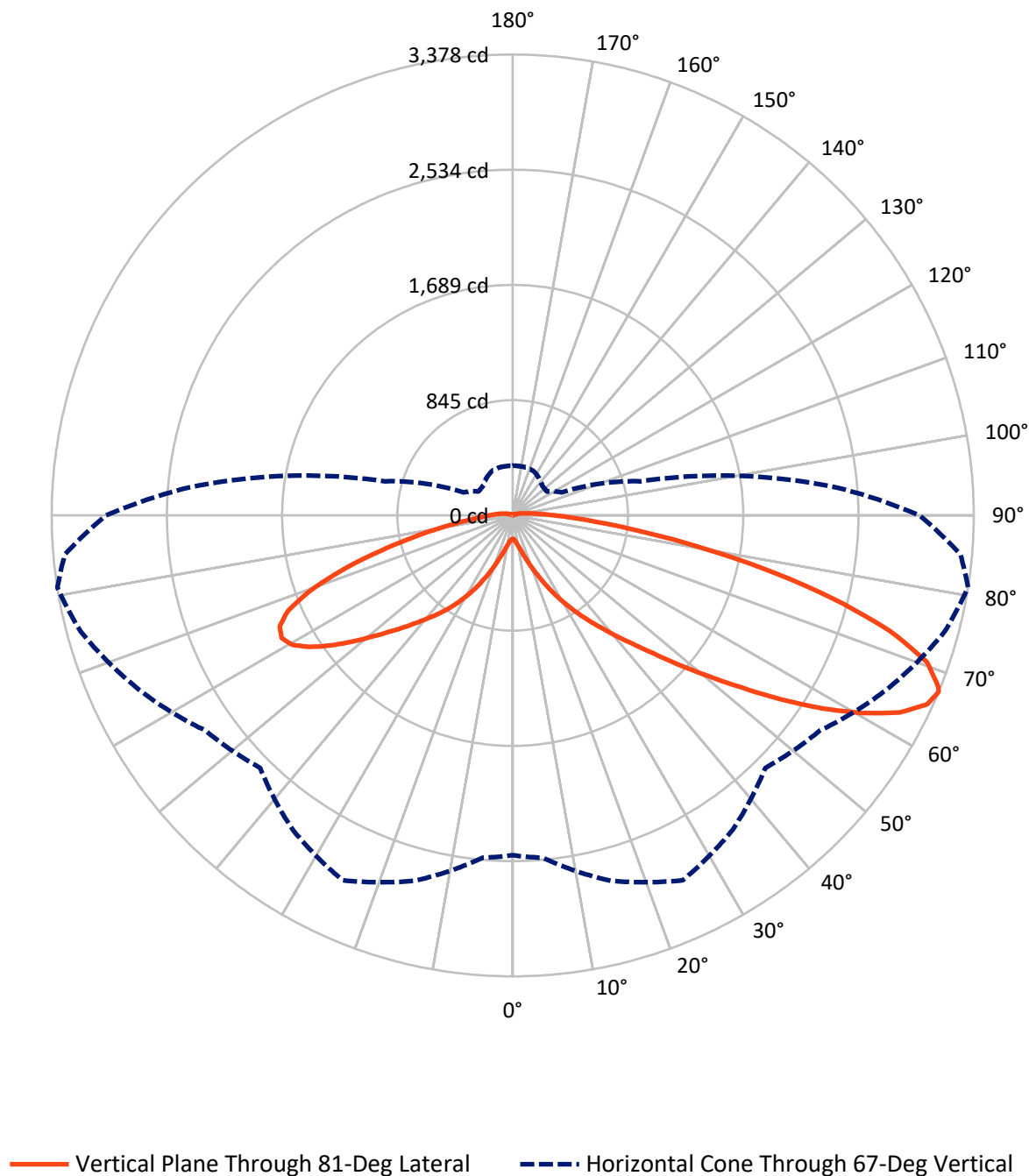


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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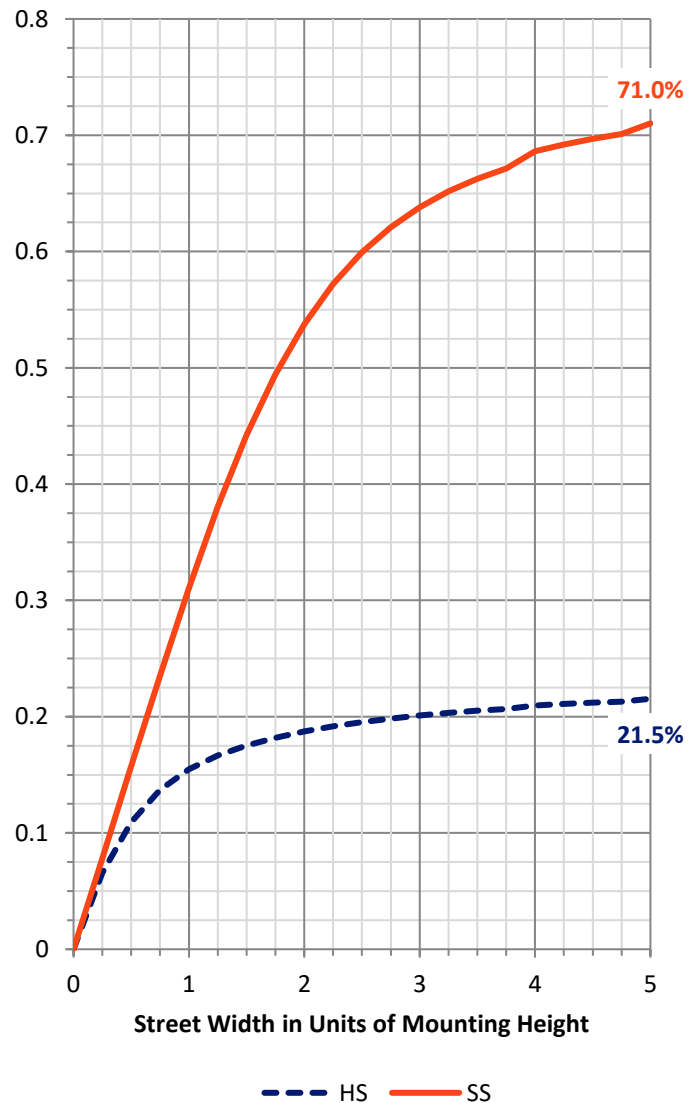
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1540.4	124.0	1664.4
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4972.1	141.6	5113.7
	% Fixture	73.4	2.1	75.4
Total	Lumens	6512.5	265.5	6778.1
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.3
10°-20°	85.6	1.3
20°-30°	231.2	3.4
30°-40°	464.0	6.8
40°-50°	784.2	11.6
50°-60°	1253.8	18.5
60°-70°	1713.1	25.3
70°-80°	1412.1	20.8
80°-90°	549.7	8.1
90°-100°	158.2	2.3
100°-110°	60.6	0.9
110°-120°	26.2	0.4
120°-130°	12.5	0.2
130°-140°	5.9	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6512.5	96.1
0°-180°	6778.1	100.0

Coefficient of Utilization



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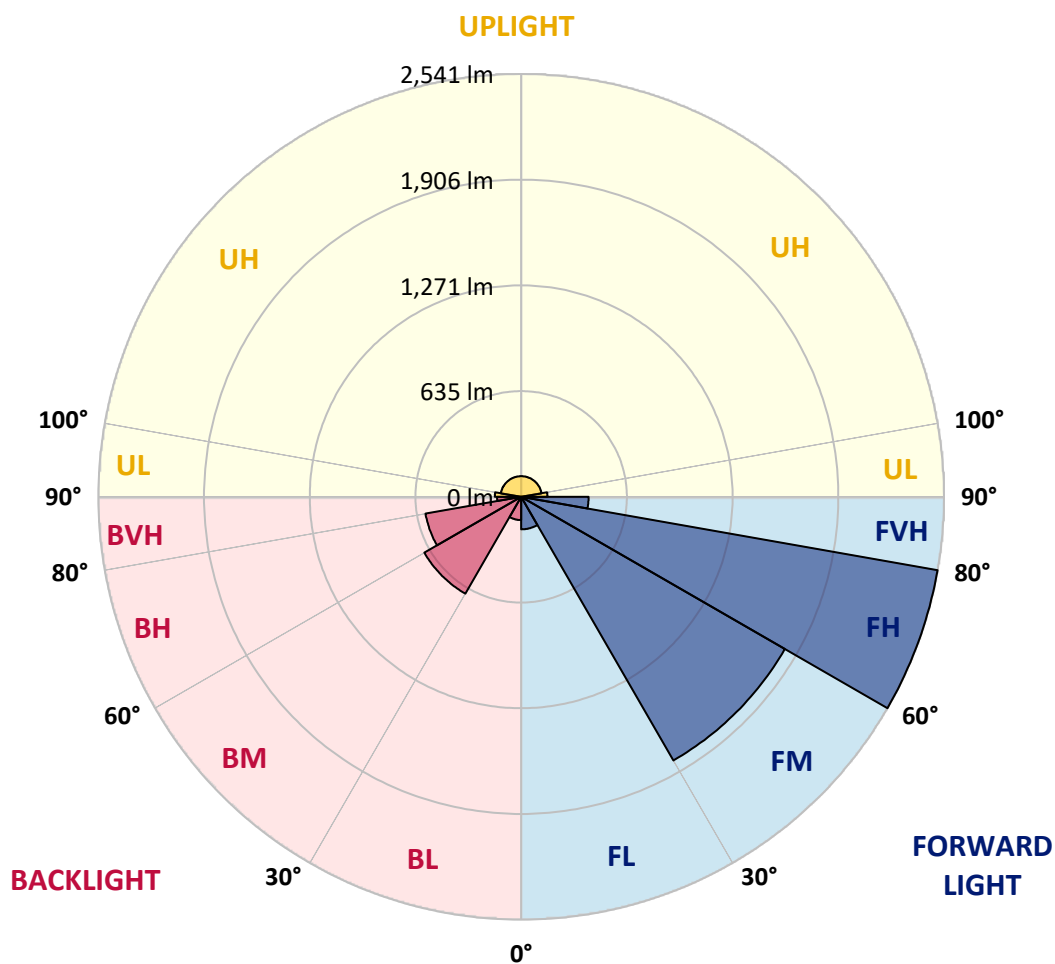
CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.8	2.9			
FM	(30°-60°)	1829.9	27.0			
FH	(60°-80°)	2541.5	37.5			G2/5000
FVH	(80°-90°)	405.0	6.0			G3/500
BL	(0°-30°)	139.9	2.1	B1/500		
BM	(30°-60°)	672.0	9.9	B1/1000		
BH	(60°-80°)	583.8	8.6	B2/1000		G2/1000
BVH	(80°-90°)	144.7	2.1			G2/225
UL	(90°-100°)	158.2	2.3		U3/500	
UH	(100°-180°)	124.0	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°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	185.5	185.5	185.5	184.6	183.7	182.0	180.3	178.6	177.7	176.9	175.9
5°	204.5	205.3	204.5	203.6	201.0	198.5	195.0	192.4	188.9	187.2	186.4
7.5°	232.9	232.9	232.0	227.7	225.2	220.9	216.6	211.3	207.9	205.3	201.8
10°	269.1	267.4	265.7	261.4	255.3	248.5	243.3	237.2	231.2	229.4	226.0
12.5°	312.3	312.3	308.0	302.0	290.7	283.8	275.2	268.3	262.3	258.8	257.1
15°	370.1	367.4	359.8	350.3	336.4	322.6	313.1	308.0	302.0	302.0	295.9
17.5°	428.7	431.4	419.2	404.6	385.7	368.4	357.1	356.3	353.7	352.0	351.1
20°	505.5	502.9	488.3	463.3	435.7	414.9	407.1	408.1	414.9	414.1	410.6
22.5°	588.3	588.3	565.9	532.2	493.5	468.4	460.6	468.4	483.1	483.1	484.8
25°	686.7	683.2	654.8	603.8	557.3	524.5	521.1	533.2	559.0	563.3	561.6
27.5°	797.1	785.0	747.9	685.0	623.7	586.6	580.5	603.0	638.3	650.5	654.8
30°	914.4	915.2	858.4	776.4	693.6	644.4	641.8	678.0	720.4	741.0	746.2
32.5°	1049.9	1045.6	980.0	877.3	770.4	706.6	703.9	753.9	807.4	834.2	837.7
35°	1218.0	1198.3	1124.9	990.3	849.8	777.2	775.5	829.9	899.8	933.4	942.0
37.5°	1372.5	1362.2	1278.5	1107.7	940.3	848.8	845.4	916.2	998.9	1037.8	1049.9
40°	1552.8	1540.7	1442.4	1247.4	1048.1	931.7	930.0	1010.2	1105.9	1155.1	1165.4
42.5°	1729.6	1721.8	1615.8	1402.7	1162.0	1024.8	1021.4	1114.6	1227.5	1282.8	1295.7
45°	1919.5	1899.6	1796.9	1561.4	1288.8	1132.7	1134.4	1235.3	1375.1	1439.8	1452.7
47.5°	2081.6	2069.5	1983.3	1733.1	1428.6	1250.0	1252.6	1387.1	1557.1	1632.1	1638.2
50°	2258.5	2251.5	2166.1	1915.1	1596.8	1395.8	1400.1	1551.9	1757.2	1843.5	1873.7
52.5°	2405.1	2406.0	2341.2	2102.3	1762.4	1552.8	1565.7	1748.6	1974.6	2090.2	2108.3
55°	2548.3	2544.0	2506.0	2307.6	1959.1	1728.8	1743.4	1966.0	2234.3	2374.1	2398.2
57.5°	2651.8	2663.0	2667.3	2504.3	2149.7	1905.7	1953.9	2192.0	2517.3	2667.3	2688.9
60°	2723.4	2728.6	2789.0	2701.8	2356.0	2114.3	2177.4	2443.0	2782.9	2940.8	2954.6
62.5°	2716.5	2739.0	2856.3	2850.2	2556.0	2312.8	2393.0	2678.6	3014.1	3181.5	3184.0
65°	2624.2	2661.3	2858.0	2944.3	2721.7	2500.8	2604.3	2890.8	3203.9	3336.8	3302.3
67°	2490.5	2519.0	2771.7	2950.3	2811.4	2617.3	2748.5	3021.9	3279.0	3378.2	3294.5
67.5°	2434.4	2485.4	2739.8	2944.3	2820.9	2642.3	2771.7	3056.4	3294.5	3365.2	3275.5
70°	2164.5	2204.0	2489.7	2820.9	2824.4	2718.3	2868.4	3097.8	3235.8	3220.4	3058.1
72.5°	1798.7	1816.8	2129.9	2549.2	2695.0	2688.0	2839.9	2990.8	2989.2	2886.5	2689.7
75°	1363.0	1411.3	1693.4	2140.2	2424.9	2519.8	2657.8	2707.9	2588.9	2416.3	2178.2
77.5°	961.9	986.8	1236.2	1683.1	2049.7	2226.6	2324.0	2300.7	2081.6	1878.0	1662.4
80°	622.9	647.0	818.7	1206.0	1607.2	1796.1	1884.9	1815.9	1595.1	1356.1	1175.0
82.5°	377.0	397.7	518.4	809.2	1181.0	1392.3	1437.1	1370.8	1124.9	926.5	784.2
85°	220.9	237.2	321.8	521.9	804.9	1005.0	1021.4	945.5	755.7	619.4	522.7
87.5°	134.6	143.2	203.6	333.9	534.0	678.0	711.7	641.0	509.0	414.1	352.0
90°	87.2	93.2	130.2	219.1	350.3	447.7	468.4	427.9	345.0	282.1	242.4
92.5°	59.5	65.6	90.5	146.7	230.4	296.8	309.6	281.2	232.0	198.5	176.9
95°	45.7	48.3	69.0	103.5	157.0	198.5	210.5	191.5	162.1	145.8	132.9
97.5°	37.1	38.8	55.2	80.2	113.9	142.3	147.5	133.7	119.9	109.6	103.5
100°	31.9	32.7	46.5	65.6	88.9	107.8	110.4	100.0	90.5	85.4	80.2
102.5°	28.4	29.4	40.5	56.1	72.4	85.4	85.4	77.6	69.0	65.6	63.0
105°	25.1	25.9	36.2	48.3	62.1	69.9	69.9	61.3	53.5	50.0	49.2
107.5°	22.4	23.3	31.1	42.2	52.6	58.6	57.8	49.2	40.5	37.1	37.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	20.7	20.7	27.6	37.1	44.9	50.0	47.5	39.7	31.1	28.4	29.4
112.5°	19.0	19.0	24.1	31.9	39.7	43.2	39.7	32.7	24.1	22.4	23.3
115°	18.1	18.1	21.6	28.4	34.5	36.2	33.7	26.7	19.8	18.1	19.0
117.5°	16.4	16.4	19.8	25.1	29.4	31.1	28.4	21.6	16.4	15.5	16.4
120°	15.5	15.5	17.3	21.6	25.9	26.7	24.1	18.1	13.8	13.8	14.6
122.5°	14.6	14.6	16.4	19.0	22.4	23.3	20.7	14.6	12.1	12.1	12.9
125°	14.6	14.6	14.6	17.3	19.0	19.8	17.3	12.9	11.3	11.3	12.1
127.5°	13.8	13.8	13.8	14.6	16.4	16.4	14.6	10.3	9.5	10.3	10.3
130°	12.9	12.9	12.9	13.8	14.6	13.8	12.1	8.6	8.6	9.5	9.5
132.5°	12.1	12.1	12.1	12.1	12.1	11.3	9.5	7.8	7.8	8.6	8.6
135°	11.3	11.3	11.3	10.3	10.3	9.5	7.8	6.0	6.9	7.8	7.8
137.5°	10.3	10.3	10.3	9.5	8.6	6.9	5.2	5.2	6.0	6.9	6.9
140°	9.5	9.5	8.6	7.8	6.9	5.2	3.5	4.3	5.2	5.2	6.0
142.5°	7.8	7.8	7.8	6.0	4.3	3.5	2.6	2.6	4.3	4.3	4.3
145°	6.9	6.9	6.0	5.2	3.5	1.7	0.8	1.7	2.6	3.5	3.5
147.5°	5.2	5.2	5.2	3.5	1.7	0.8	0.8	0.8	1.7	2.6	2.6
150°	4.3	4.3	3.5	2.6	0.8	0.0	0.0	0.8	1.7	1.7	1.7
152.5°	2.6	2.6	2.6	1.7	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	1.7	1.7	1.7	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°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	175.1	174.2	173.4	171.7	170.8	169.1	167.4	166.5	165.6	165.6	165.6
5°	184.6	183.7	181.2	177.7	175.1	172.6	170.8	169.1	167.4	167.4	167.4
7.5°	200.1	198.5	193.2	189.8	185.5	182.0	179.4	176.9	175.9	175.9	175.1
10°	222.6	219.9	213.9	207.0	201.0	196.7	193.2	190.7	189.8	189.8	189.8
12.5°	251.9	248.5	239.0	230.4	220.9	214.8	210.5	209.6	210.5	210.5	209.6
15°	294.2	287.2	272.6	258.8	244.2	234.7	232.0	232.0	236.4	238.1	239.0
17.5°	345.0	336.4	316.6	294.2	271.7	258.8	257.1	262.3	271.7	276.1	275.2
20°	408.1	396.0	368.4	334.7	303.6	287.2	285.5	295.0	308.0	316.6	315.8
22.5°	478.7	467.6	426.2	377.0	333.9	314.9	312.3	327.9	346.8	356.3	359.8
25°	557.3	541.8	487.4	420.1	365.8	339.0	338.2	357.1	382.2	399.5	402.0
27.5°	642.7	624.6	553.0	463.3	393.3	358.9	358.0	383.9	418.4	440.0	440.8
30°	736.7	709.1	617.7	499.5	414.1	372.7	374.4	404.6	448.6	473.6	477.9
32.5°	829.9	798.8	676.4	534.8	427.9	379.6	382.2	420.1	468.4	500.3	503.8
35°	928.2	888.5	735.0	558.1	435.7	380.4	383.0	426.2	478.7	513.3	516.7
37.5°	1027.5	980.0	784.2	575.4	435.7	375.2	378.7	424.4	477.9	513.3	515.9
40°	1144.8	1075.7	830.7	582.3	428.7	365.8	370.1	414.9	464.9	497.8	500.3
42.5°	1266.4	1183.6	874.7	580.5	416.6	353.7	358.0	399.5	443.4	470.1	472.7
45°	1413.0	1312.1	919.6	575.4	402.0	340.7	343.3	380.4	417.6	436.5	440.0
47.5°	1593.3	1450.1	965.4	565.9	385.7	328.7	330.4	363.1	389.9	402.0	404.6
50°	1793.4	1613.2	1015.4	553.0	370.1	317.4	320.1	346.8	365.8	370.9	371.8
52.5°	2030.7	1797.7	1061.9	537.5	356.3	308.8	312.3	336.4	349.3	350.3	351.1
55°	2286.9	1999.7	1103.4	518.4	342.5	302.8	309.6	332.2	340.7	339.9	340.7
57.5°	2554.3	2193.7	1131.8	498.6	331.2	299.3	310.6	332.2	340.7	339.0	340.7
60°	2793.3	2360.3	1136.1	472.7	322.6	299.3	315.8	338.2	346.0	346.0	347.7
62.5°	2963.3	2456.0	1107.7	446.8	314.9	301.1	322.6	346.0	353.7	353.7	355.4
65°	3032.2	2454.3	1045.6	419.2	308.8	303.6	329.5	354.6	360.6	360.6	362.3
67°	2980.5	2374.1	965.4	398.5	305.4	306.3	334.7	359.8	364.9	364.1	364.9
67.5°	2948.6	2345.5	948.1	392.5	304.5	306.3	335.5	360.6	365.8	364.9	364.9
70°	2684.6	2103.2	829.0	366.6	298.5	306.3	339.0	362.3	365.8	364.1	364.1
72.5°	2276.6	1759.8	695.3	340.7	291.5	303.6	337.3	359.8	361.4	358.9	358.9
75°	1810.7	1376.8	571.1	318.3	282.1	297.6	331.2	352.0	354.6	352.0	349.3
77.5°	1340.6	1019.7	461.6	294.2	270.9	288.2	320.9	340.7	343.3	340.7	338.2
80°	935.1	724.7	371.8	270.1	256.2	274.4	306.3	323.5	326.9	325.2	320.9
82.5°	625.4	497.8	297.6	243.3	237.2	256.2	286.4	302.0	304.5	302.8	297.6
85°	427.0	346.8	245.8	214.8	216.6	234.7	260.5	272.6	275.2	272.6	267.4
87.5°	287.2	248.5	201.0	187.2	192.4	209.6	230.4	236.4	241.5	237.2	233.7
90°	207.9	187.2	162.1	159.6	168.2	182.9	196.7	197.5	204.5	202.7	195.8
92.5°	156.1	146.7	134.6	134.6	144.0	156.1	164.8	163.1	167.4	167.4	162.1
95°	123.4	118.2	112.1	114.8	123.4	132.0	134.6	131.1	135.4	136.3	134.6
97.5°	99.2	97.5	95.7	97.5	105.3	112.1	111.3	105.3	108.7	110.4	108.7
100°	80.2	79.4	80.2	83.7	89.7	94.0	91.5	85.4	88.0	88.0	88.0
102.5°	64.7	64.7	67.3	70.8	75.1	78.5	75.1	69.9	70.8	69.9	69.9
105°	50.9	51.8	55.2	59.5	63.0	64.7	61.3	56.1	55.2	52.6	53.5
107.5°	39.7	41.4	44.9	49.2	52.6	53.5	50.9	45.7	42.2	40.5	40.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.1	32.7	37.1	40.5	43.2	44.0	41.4	36.2	31.9	31.1	31.1
112.5°	25.1	26.7	30.2	33.7	36.2	36.2	33.7	29.4	24.1	23.3	23.3
115°	20.7	21.6	25.1	27.6	30.2	30.2	27.6	23.3	19.0	18.1	19.0
117.5°	17.3	18.1	20.7	23.3	25.1	25.1	22.4	18.1	14.6	14.6	14.6
120°	15.5	16.4	18.1	19.8	20.7	20.7	19.0	14.6	12.1	12.1	12.1
122.5°	13.8	13.8	15.5	16.4	18.1	17.3	15.5	12.1	9.5	10.3	10.3
125°	12.1	12.9	12.9	14.6	14.6	14.6	12.1	9.5	8.6	8.6	8.6
127.5°	11.3	11.3	12.1	12.1	12.9	12.1	9.5	6.9	6.9	7.8	7.8
130°	10.3	10.3	10.3	10.3	10.3	9.5	7.8	6.0	6.0	6.9	6.9
132.5°	8.6	9.5	9.5	8.6	8.6	7.8	6.0	4.3	5.2	5.2	5.2
135°	7.8	8.6	7.8	7.8	6.9	6.0	4.3	3.5	4.3	4.3	4.3
137.5°	6.9	6.9	6.9	6.0	5.2	4.3	3.5	2.6	3.5	3.5	3.5
140°	6.0	6.0	6.0	5.2	4.3	3.5	1.7	1.7	2.6	2.6	2.6
142.5°	4.3	5.2	4.3	3.5	2.6	1.7	0.8	0.8	1.7	2.6	1.7
145°	3.5	3.5	3.5	2.6	1.7	0.8	0.0	0.0	0.8	0.8	0.8
147.5°	2.6	2.6	2.6	1.7	0.8	0.8	0.0	0.0	0.0	0.8	0.8
150°	1.7	1.7	1.7	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)