

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: P266526

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266526
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-AF24-90-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 6811.4 lumens
Efficiency: N/A
Efficacy: 72.5 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): 94
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

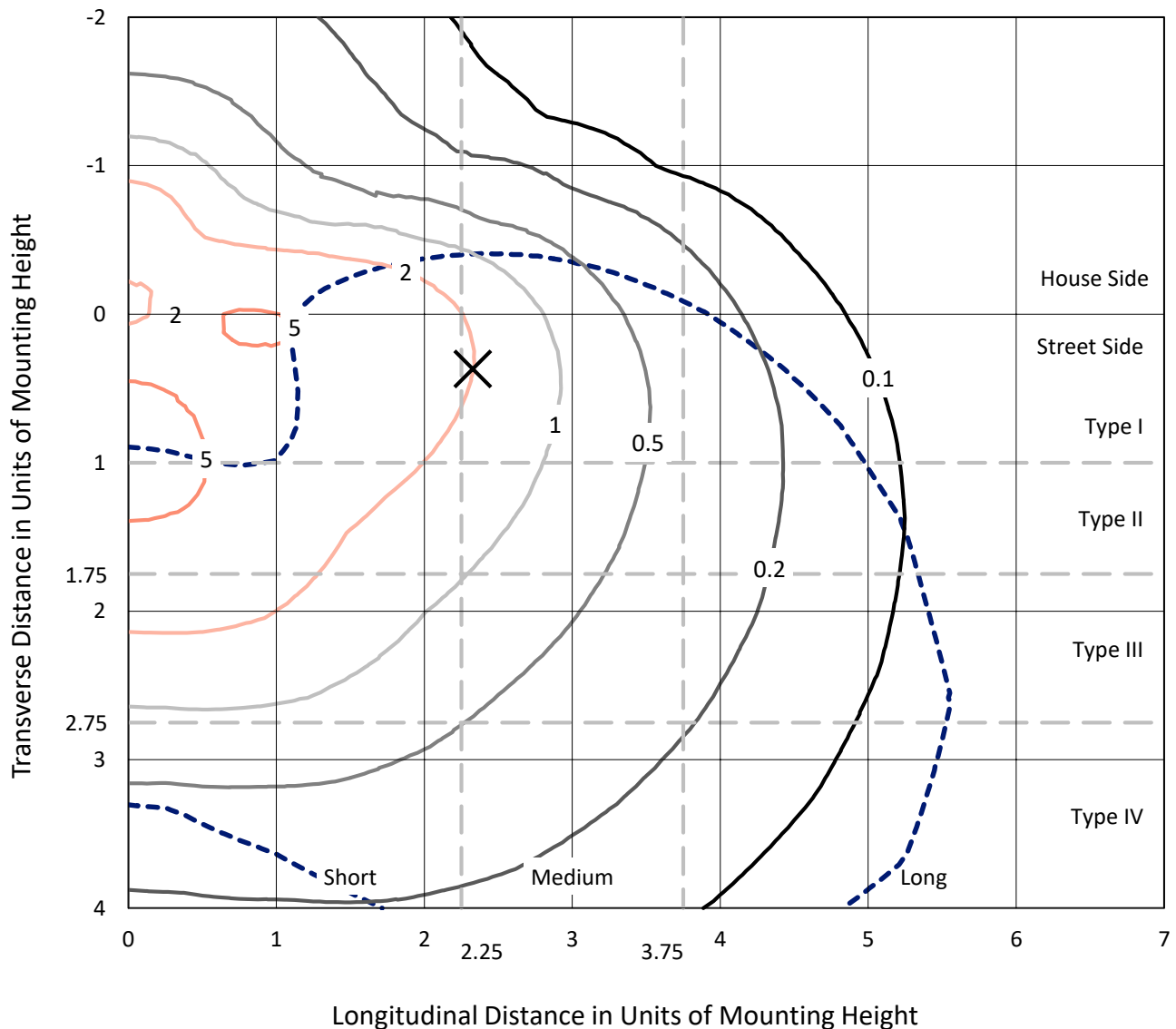


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

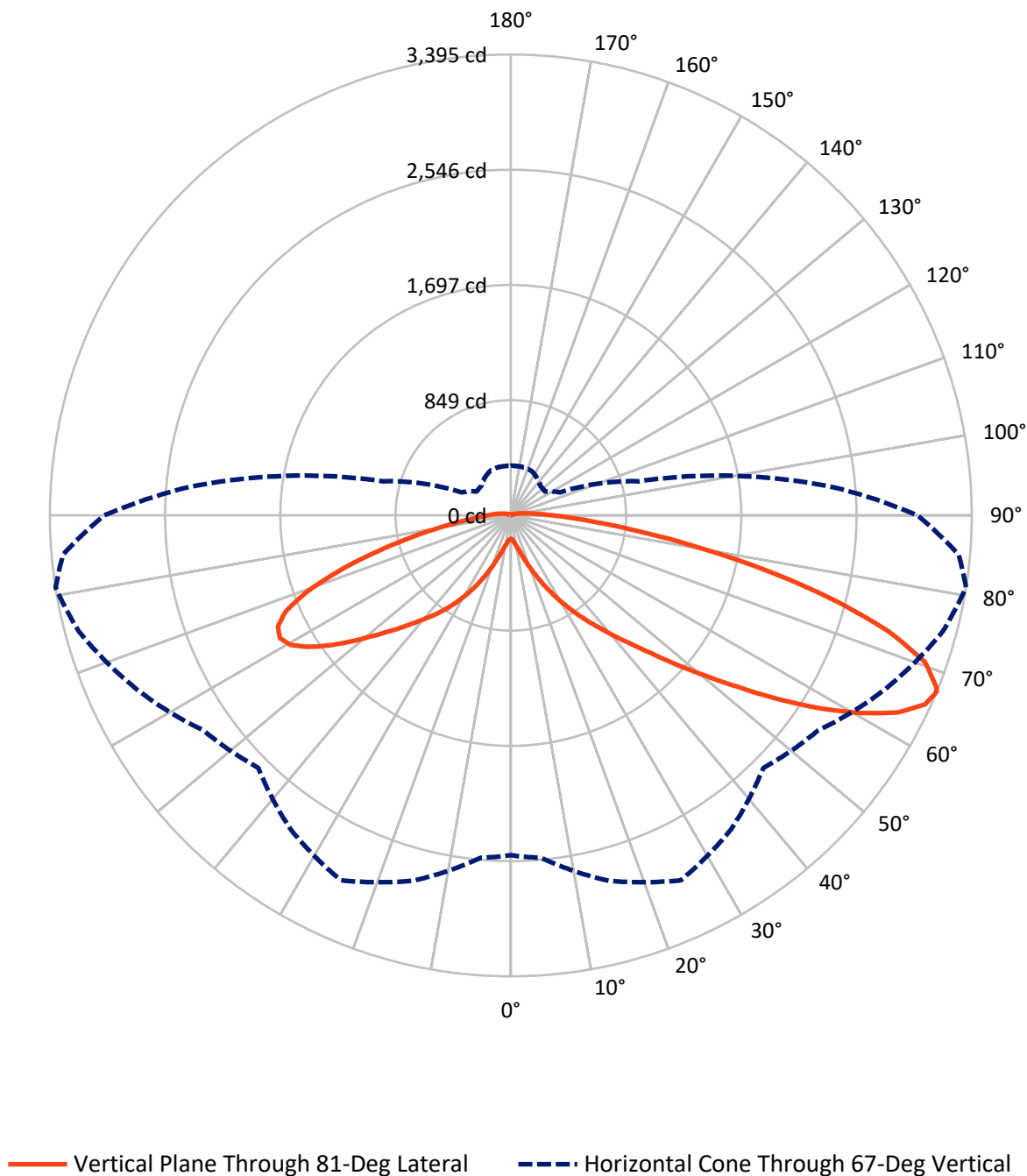


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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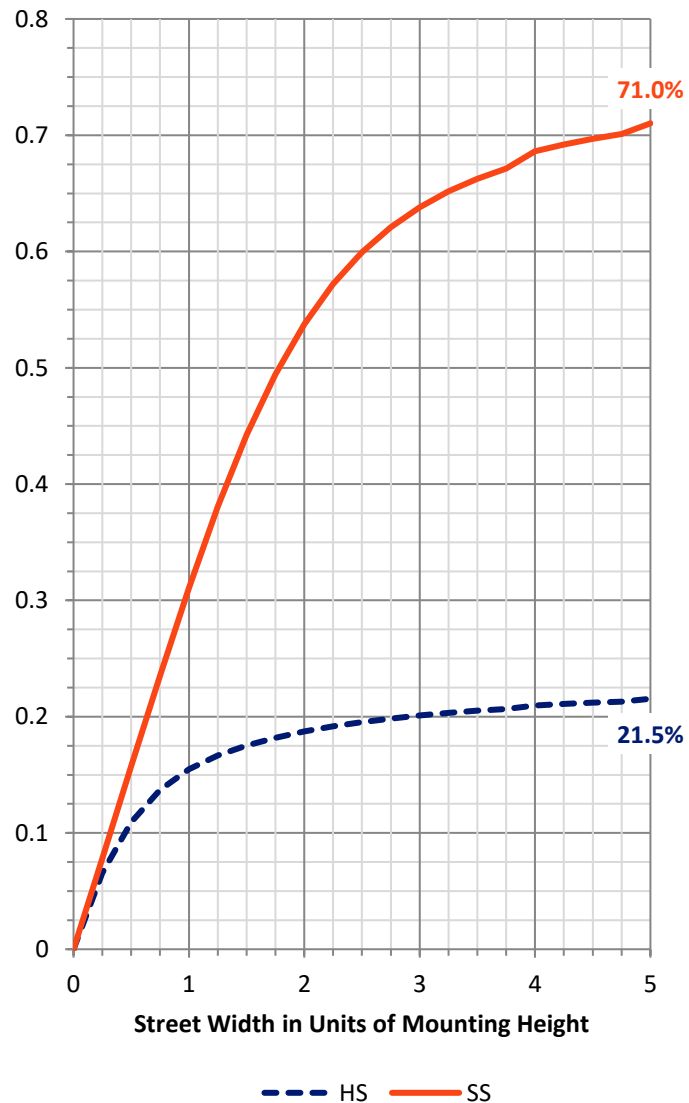
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.0	124.5	1672.5
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	4996.6	142.3	5138.9
	% Fixture	73.4	2.1	75.4
Total	Lumens	6544.6	266.8	6811.4
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.3
10°-20°	86.0	1.3
20°-30°	232.3	3.4
30°-40°	466.2	6.8
40°-50°	788.0	11.6
50°-60°	1260.0	18.5
60°-70°	1721.6	25.3
70°-80°	1419.1	20.8
80°-90°	552.4	8.1
90°-100°	159.0	2.3
100°-110°	60.9	0.9
110°-120°	26.4	0.4
120°-130°	12.6	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°	6544.6	96.1
0°-180°	6811.4	100.0

Coefficient of Utilization



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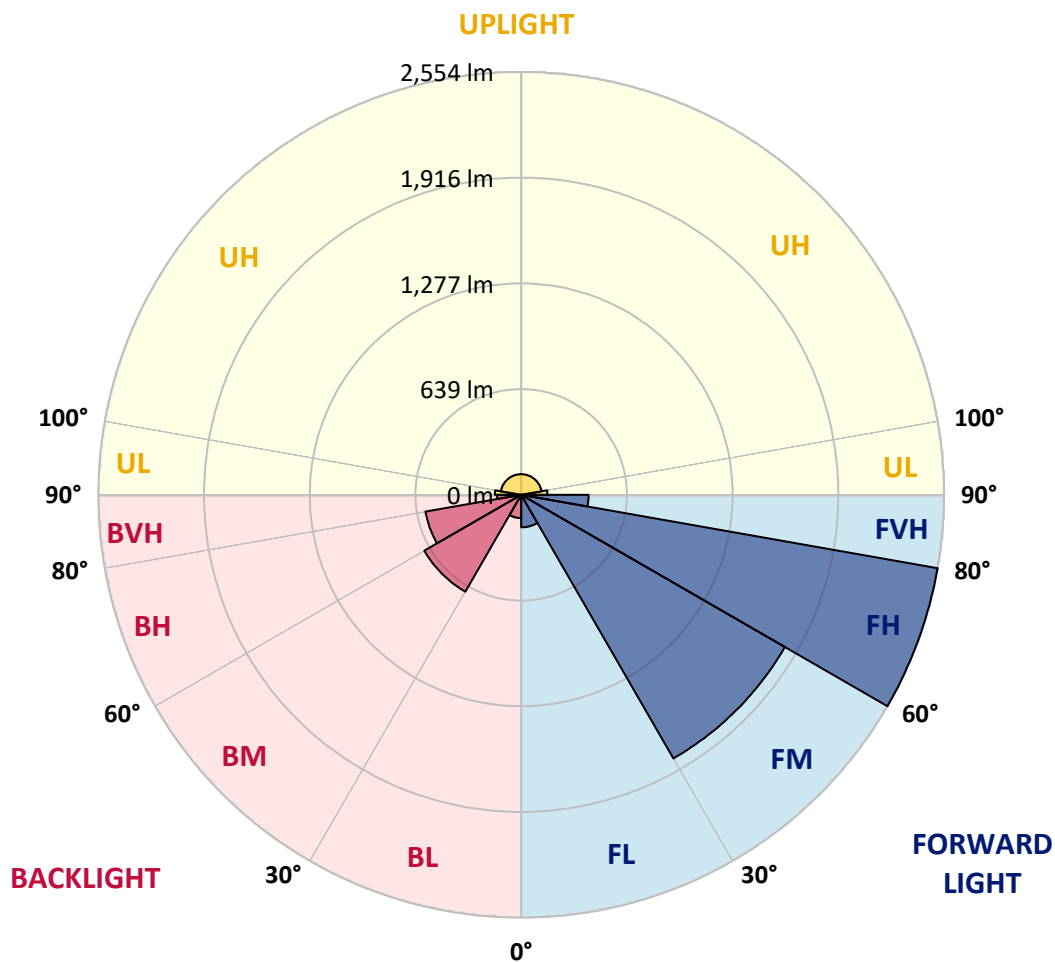
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.7	2.9			
FM	(30°-60°)	1838.9	27.0			
FH	(60°-80°)	2554.0	37.5			G2/5000
FVH	(80°-90°)	406.9	6.0			G3/500
BL	(0°-30°)	140.6	2.1	B1/500		
BM	(30°-60°)	675.3	9.9	B1/1000		
BH	(60°-80°)	586.6	8.6	B2/1000		G2/1000
BVH	(80°-90°)	145.4	2.1			G2/225
UL	(90°-100°)	159.0	2.3		U3/500	
UH	(100°-180°)	124.5	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°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	186.4	186.4	186.4	185.5	184.6	183.0	181.2	179.4	178.7	177.8	176.8
5°	205.4	206.3	205.4	204.6	201.9	199.5	195.9	193.3	189.8	188.1	187.2
7.5°	234.1	234.1	233.2	228.9	226.3	221.9	217.6	212.4	208.9	206.3	202.8
10°	270.5	268.8	266.9	262.7	256.6	249.6	244.5	238.4	232.3	230.5	227.1
12.5°	313.8	313.8	309.5	303.4	292.2	285.2	276.6	269.6	263.6	260.1	258.4
15°	371.9	369.4	361.5	352.0	338.1	324.2	314.6	309.5	303.4	303.4	297.3
17.5°	430.8	433.4	421.3	406.7	387.4	370.2	359.0	358.1	355.4	353.8	352.9
20°	508.0	505.3	490.7	465.5	437.8	417.1	409.2	410.0	417.1	416.2	412.6
22.5°	591.3	591.3	568.6	534.9	495.9	470.7	462.9	470.7	485.4	485.4	487.2
25°	690.1	686.6	658.0	606.9	560.1	527.0	523.6	535.7	561.8	566.1	564.3
27.5°	801.0	788.9	751.6	688.3	626.7	589.5	583.4	605.9	641.5	653.6	658.0
30°	919.0	919.8	862.6	780.2	696.9	647.6	645.1	681.4	723.9	744.7	749.8
32.5°	1055.0	1050.7	984.8	881.6	774.2	710.0	707.3	757.7	811.3	838.3	841.8
35°	1224.1	1204.2	1130.4	995.2	853.8	781.0	779.4	833.9	904.2	938.0	946.6
37.5°	1379.3	1368.8	1284.8	1113.1	944.9	853.0	849.5	920.7	1003.9	1042.9	1055.0
40°	1560.4	1548.3	1449.4	1253.6	1053.4	936.3	934.5	1015.2	1111.5	1160.8	1171.2
42.5°	1738.2	1730.3	1623.7	1409.6	1167.7	1029.8	1026.5	1120.0	1233.6	1289.1	1302.2
45°	1928.9	1909.0	1805.9	1569.1	1295.1	1138.2	1139.9	1241.4	1381.9	1446.9	1459.8
47.5°	2091.9	2079.8	1993.0	1741.6	1435.6	1256.2	1258.7	1394.0	1564.8	1640.1	1646.2
50°	2269.6	2262.7	2176.9	1924.6	1604.6	1402.7	1406.9	1559.5	1765.9	1852.6	1882.9
52.5°	2417.0	2417.8	2352.8	2112.6	1771.1	1560.4	1573.4	1757.3	1984.4	2100.5	2118.7
55°	2560.9	2556.5	2518.4	2319.0	1968.7	1737.3	1752.1	1975.7	2245.4	2385.8	2410.1
57.5°	2664.9	2676.2	2680.5	2516.6	2160.3	1914.9	1963.5	2202.9	2529.6	2680.5	2702.2
60°	2736.9	2742.0	2802.7	2715.1	2367.6	2124.9	2188.1	2455.1	2796.7	2955.3	2969.2
62.5°	2729.9	2752.4	2870.4	2864.2	2568.7	2324.2	2404.9	2691.9	3028.9	3197.2	3199.8
65°	2637.2	2674.4	2872.2	2958.7	2735.1	2513.2	2617.2	2904.9	3219.7	3353.3	3318.6
67°	2502.8	2531.3	2785.4	2964.9	2825.3	2630.1	2762.0	3036.8	3295.2	3394.9	3310.8
67.5°	2446.4	2497.6	2753.3	2958.7	2834.8	2655.4	2785.4	3071.5	3310.8	3381.8	3291.7
70°	2175.1	2215.0	2501.9	2834.8	2838.3	2731.7	2882.5	3113.0	3251.8	3236.1	3073.2
72.5°	1807.5	1825.7	2140.4	2561.7	2708.2	2701.4	2853.8	3005.5	3003.8	2900.6	2703.0
75°	1369.7	1418.2	1701.7	2150.8	2436.9	2532.2	2671.0	2721.2	2601.6	2428.2	2189.0
77.5°	966.5	991.8	1242.3	1691.4	2059.8	2237.5	2335.5	2312.1	2091.9	1887.2	1670.6
80°	625.8	650.3	822.7	1212.0	1615.1	1805.0	1894.2	1824.8	1602.9	1362.8	1180.7
82.5°	378.8	399.7	520.9	813.1	1186.8	1399.2	1444.2	1377.6	1130.4	931.1	788.1
85°	221.9	238.4	323.4	524.5	808.8	1010.0	1026.5	950.1	759.3	622.4	525.4
87.5°	135.3	143.9	204.6	335.4	536.6	681.4	715.2	644.2	511.5	416.2	353.8
90°	87.6	93.7	131.0	220.3	352.0	450.0	470.7	430.0	346.7	283.4	243.6
92.5°	59.7	65.8	91.0	147.4	231.5	298.1	311.3	282.5	233.2	199.5	177.8
95°	46.0	48.6	69.3	104.1	157.8	199.5	211.6	192.4	163.0	146.6	133.5
97.5°	37.3	38.9	55.4	80.6	114.4	143.0	148.2	134.3	120.6	110.1	104.1
100°	32.1	33.0	46.8	65.8	89.3	108.3	111.0	100.6	91.0	85.8	80.6
102.5°	28.6	29.5	40.8	56.4	72.9	85.8	85.8	78.1	69.3	65.8	63.3
105°	25.2	26.1	36.4	48.6	62.4	70.2	70.2	61.5	53.8	50.2	49.3
107.5°	22.5	23.4	31.3	42.5	52.9	59.0	58.1	49.3	40.8	37.3	37.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	20.8	20.8	27.8	37.3	45.0	50.2	47.7	39.9	31.3	28.6	29.5
112.5°	19.0	19.0	24.3	32.1	39.9	43.4	39.9	33.0	24.3	22.5	23.4
115°	18.1	18.1	21.6	28.6	34.7	36.4	33.7	26.9	19.9	18.1	19.0
117.5°	16.4	16.4	19.9	25.2	29.5	31.3	28.6	21.6	16.4	15.6	16.4
120°	15.6	15.6	17.3	21.6	26.1	26.9	24.3	18.1	13.8	13.8	14.7
122.5°	14.7	14.7	16.4	19.0	22.5	23.4	20.8	14.7	12.1	12.1	12.9
125°	14.7	14.7	14.7	17.3	19.0	19.9	17.3	12.9	11.3	11.3	12.1
127.5°	13.8	13.8	13.8	14.7	16.4	16.4	14.7	10.4	9.5	10.4	10.4
130°	12.9	12.9	12.9	13.8	14.7	13.8	12.1	8.7	8.7	9.5	9.5
132.5°	12.1	12.1	12.1	12.1	12.1	11.3	9.5	7.7	7.7	8.7	8.7
135°	11.3	11.3	11.3	10.4	10.4	9.5	7.7	6.1	6.9	7.7	7.7
137.5°	10.4	10.4	10.4	9.5	8.7	6.9	5.2	5.2	6.1	6.9	6.9
140°	9.5	9.5	8.7	7.7	6.9	5.2	3.5	4.3	5.2	5.2	6.1
142.5°	7.7	7.7	7.7	6.1	4.3	3.5	2.5	2.5	4.3	4.3	4.3
145°	6.9	6.9	6.1	5.2	3.5	1.7	0.9	1.7	2.5	3.5	3.5
147.5°	5.2	5.2	5.2	3.5	1.7	0.9	0.9	0.9	1.7	2.5	2.5
150°	4.3	4.3	3.5	2.5	0.9	0.0	0.0	0.9	1.7	1.7	1.7
152.5°	2.5	2.5	2.5	1.7	0.0	0.0	0.0	0.9	0.9	0.9	0.9
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	176.0	175.1	174.2	172.6	171.7	169.9	168.3	167.4	166.5	166.5	166.5
5°	185.5	184.6	182.0	178.7	176.0	173.5	171.7	169.9	168.3	168.3	168.3
7.5°	201.1	199.5	194.3	190.7	186.4	183.0	180.3	177.8	176.8	176.8	176.0
10°	223.7	221.1	215.1	208.0	201.9	197.6	194.3	191.6	190.7	190.7	190.7
12.5°	253.1	249.6	240.1	231.5	221.9	215.9	211.6	210.7	211.6	211.6	210.7
15°	295.6	288.6	274.0	260.1	245.3	235.7	233.2	233.2	237.5	239.3	240.1
17.5°	346.7	338.1	318.2	295.6	273.1	260.1	258.4	263.6	273.1	277.3	276.6
20°	410.0	397.9	370.2	336.3	305.2	288.6	287.0	296.5	309.5	318.2	317.3
22.5°	481.1	469.9	428.2	378.8	335.4	316.5	313.8	329.4	348.5	358.1	361.5
25°	560.1	544.5	489.8	422.3	367.5	340.6	339.7	359.0	384.0	401.5	404.0
27.5°	645.8	627.6	555.7	465.5	395.3	360.6	359.9	385.8	420.4	442.1	443.0
30°	740.4	712.5	620.6	502.0	416.2	374.6	376.2	406.7	450.8	475.9	480.2
32.5°	833.9	802.7	679.7	537.5	430.0	381.4	384.0	422.3	470.7	502.8	506.3
35°	932.8	892.9	738.5	560.9	437.8	382.3	385.0	428.2	481.1	515.7	519.3
37.5°	1032.5	984.8	788.1	578.1	437.8	377.1	380.6	426.5	480.2	515.7	518.4
40°	1150.4	1081.0	834.9	585.2	430.8	367.5	371.9	417.1	467.3	500.1	502.8
42.5°	1272.5	1189.4	879.0	583.4	418.7	355.4	359.9	401.5	445.6	472.5	475.1
45°	1420.0	1318.6	924.1	578.1	404.0	342.4	344.9	382.3	419.6	438.6	442.1
47.5°	1601.1	1457.3	970.1	568.6	387.4	330.2	332.1	365.0	391.8	404.0	406.7
50°	1802.3	1621.1	1020.4	555.7	371.9	319.0	321.7	348.5	367.5	372.7	373.6
52.5°	2040.7	1806.6	1067.1	540.2	358.1	310.4	313.8	338.1	351.1	352.0	352.9
55°	2298.1	2009.5	1108.8	520.9	344.2	304.3	311.3	333.8	342.4	341.5	342.4
57.5°	2566.9	2204.6	1137.3	501.1	332.9	300.8	312.2	333.8	342.4	340.6	342.4
60°	2807.1	2371.9	1141.7	475.1	324.2	300.8	317.3	339.7	347.6	347.6	349.4
62.5°	2977.8	2468.2	1113.1	449.1	316.5	302.5	324.2	347.6	355.4	355.4	357.2
65°	3047.2	2466.3	1050.7	421.3	310.4	305.2	331.1	356.3	362.3	362.3	364.2
67°	2995.2	2385.8	970.1	400.6	307.0	307.8	336.3	361.5	366.7	365.8	366.7
67.5°	2963.1	2357.2	952.7	394.4	306.1	307.8	337.3	362.3	367.5	366.7	366.7
70°	2697.8	2113.5	833.1	368.5	299.9	307.8	340.6	364.2	367.5	365.8	365.8
72.5°	2287.8	1768.6	698.7	342.4	292.9	305.2	339.0	361.5	363.3	360.6	360.6
75°	1819.6	1383.6	573.8	319.8	283.4	299.0	332.9	353.8	356.3	353.8	351.1
77.5°	1347.2	1024.6	463.7	295.6	272.1	289.6	322.5	342.4	344.9	342.4	339.7
80°	939.7	728.2	373.6	271.4	257.5	275.7	307.8	325.0	328.6	326.9	322.5
82.5°	628.5	500.1	299.0	244.5	238.4	257.5	287.7	303.4	306.1	304.3	299.0
85°	429.1	348.5	247.0	215.9	217.6	235.7	261.8	274.0	276.6	274.0	268.8
87.5°	288.6	249.6	201.9	188.1	193.3	210.7	231.5	237.5	242.7	238.4	234.9
90°	208.9	188.1	163.0	160.3	169.1	183.9	197.6	198.5	205.4	203.7	196.8
92.5°	156.9	147.4	135.3	135.3	144.7	156.9	165.6	163.9	168.3	168.3	163.0
95°	124.0	118.8	112.6	115.3	124.0	132.6	135.3	131.8	136.2	137.0	135.3
97.5°	99.7	97.9	96.2	97.9	105.8	112.6	111.7	105.8	109.2	111.0	109.2
100°	80.6	79.8	80.6	84.1	90.2	94.5	91.8	85.8	88.5	88.5	88.5
102.5°	64.9	64.9	67.6	71.1	75.4	79.0	75.4	70.2	71.1	70.2	70.2
105°	51.2	52.0	55.4	59.7	63.3	64.9	61.5	56.4	55.4	52.9	53.8
107.5°	39.9	41.6	45.0	49.3	52.9	53.8	51.2	46.0	42.5	40.8	40.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.3	33.0	37.3	40.8	43.4	44.1	41.6	36.4	32.1	31.3	31.3
112.5°	25.2	26.9	30.4	33.7	36.4	36.4	33.7	29.5	24.3	23.4	23.4
115°	20.8	21.6	25.2	27.8	30.4	30.4	27.8	23.4	19.0	18.1	19.0
117.5°	17.3	18.1	20.8	23.4	25.2	25.2	22.5	18.1	14.7	14.7	14.7
120°	15.6	16.4	18.1	19.9	20.8	20.8	19.0	14.7	12.1	12.1	12.1
122.5°	13.8	13.8	15.6	16.4	18.1	17.3	15.6	12.1	9.5	10.4	10.4
125°	12.1	12.9	12.9	14.7	14.7	14.7	12.1	9.5	8.7	8.7	8.7
127.5°	11.3	11.3	12.1	12.1	12.9	12.1	9.5	6.9	6.9	7.7	7.7
130°	10.4	10.4	10.4	10.4	10.4	9.5	7.7	6.1	6.1	6.9	6.9
132.5°	8.7	9.5	9.5	8.7	8.7	7.7	6.1	4.3	5.2	5.2	5.2
135°	7.7	8.7	7.7	7.7	6.9	6.1	4.3	3.5	4.3	4.3	4.3
137.5°	6.9	6.9	6.9	6.1	5.2	4.3	3.5	2.5	3.5	3.5	3.5
140°	6.1	6.1	6.1	5.2	4.3	3.5	1.7	1.7	2.5	2.5	2.5
142.5°	4.3	5.2	4.3	3.5	2.5	1.7	0.9	0.9	1.7	2.5	1.7
145°	3.5	3.5	3.5	2.5	1.7	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	2.5	2.5	2.5	1.7	0.9	0.9	0.0	0.0	0.0	0.9	0.9
150°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	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)