

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: P240475

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240475
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 7011.2 lumens
Efficiency: N/A
Efficacy: 84.5 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): 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



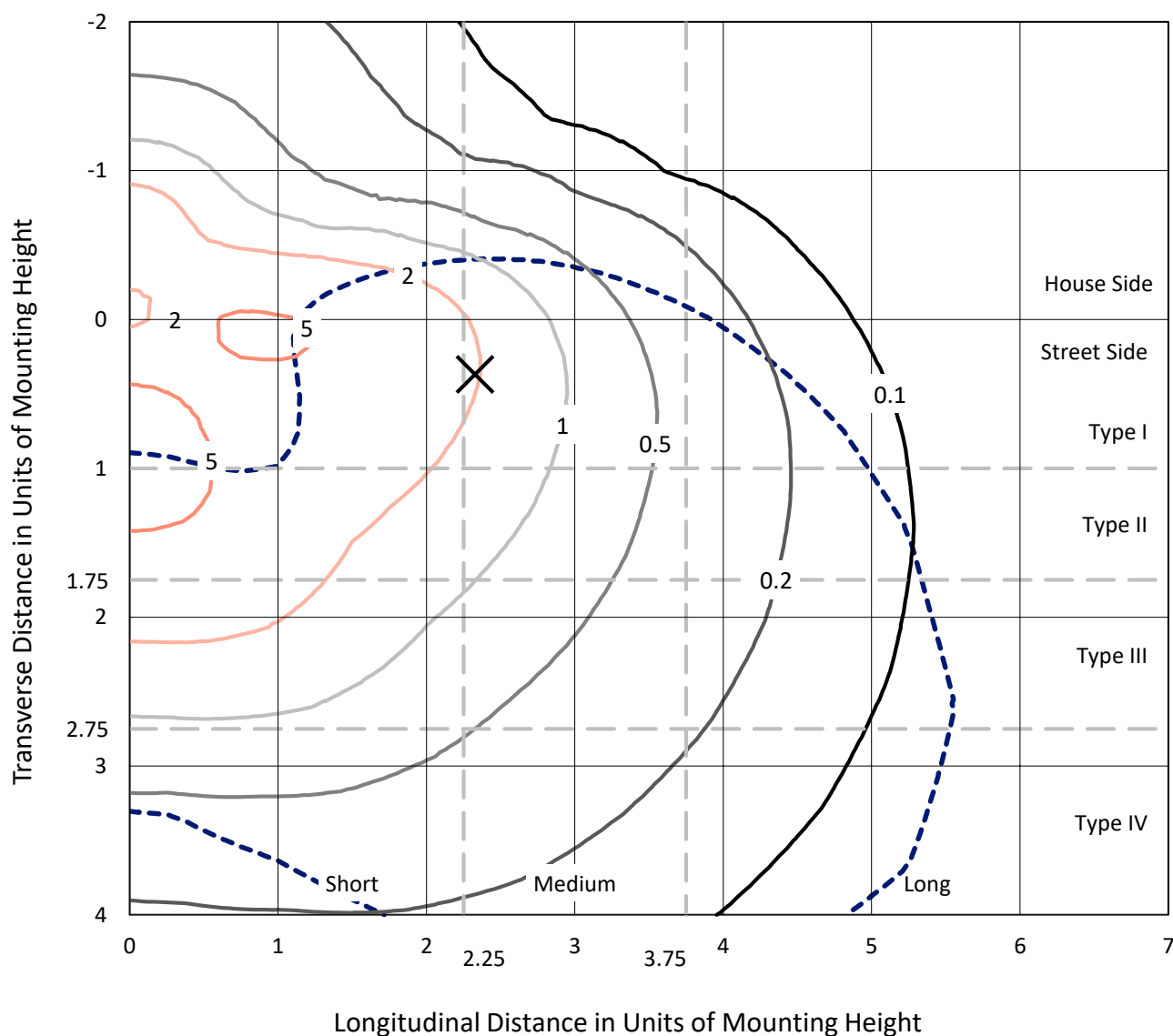
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

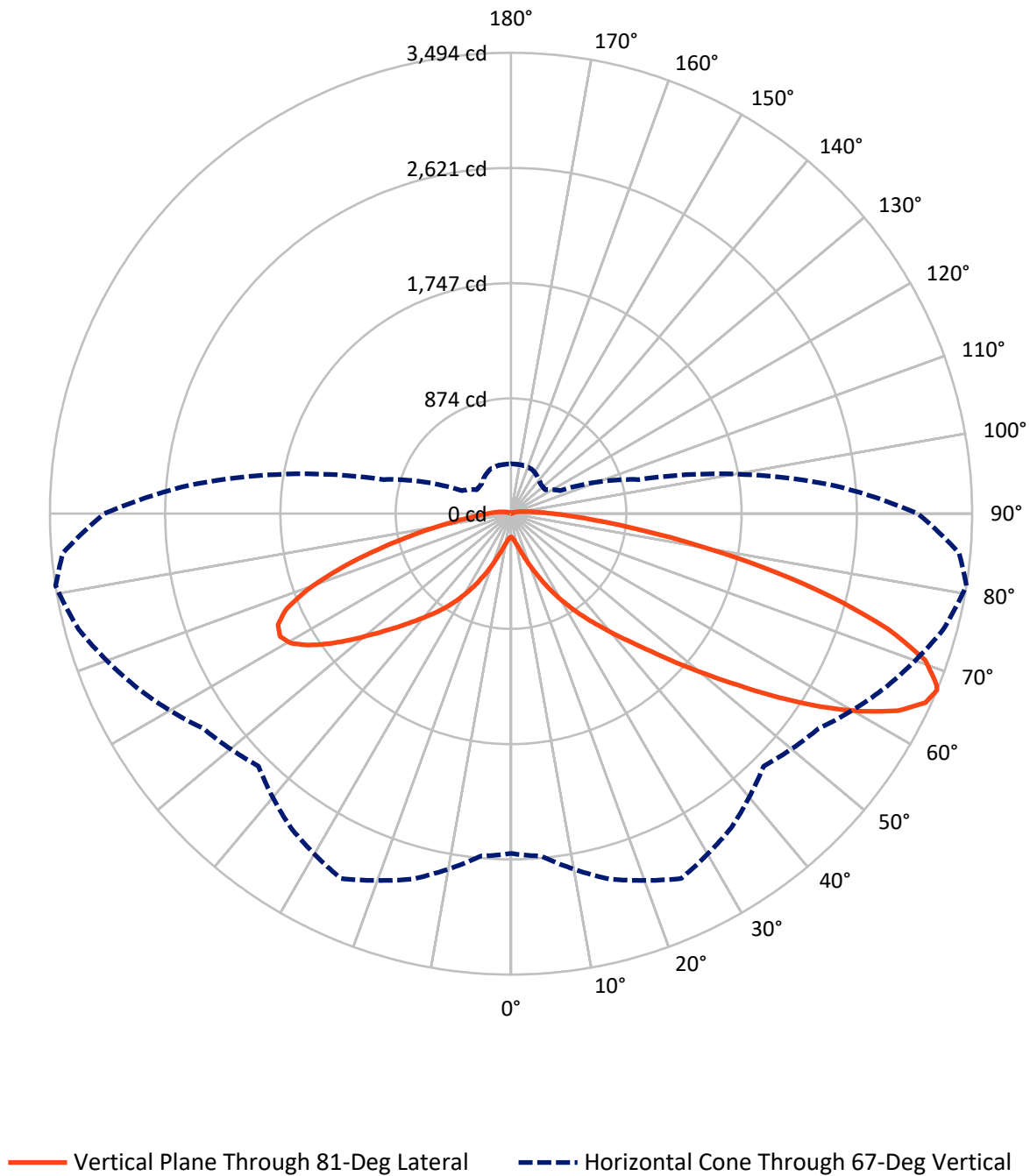


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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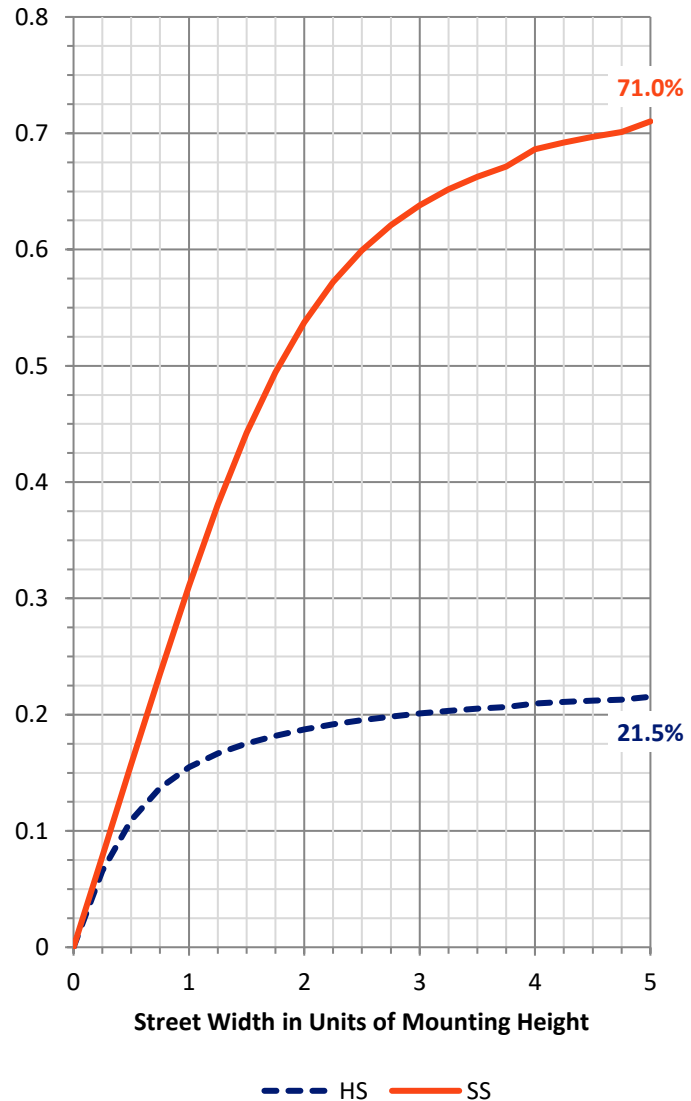
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.4	128.2	1721.6
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5143.1	146.5	5289.6
	% Fixture	73.4	2.1	75.4
Total	Lumens	6736.5	274.7	7011.2
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	0.3
10°-20°	88.5	1.3
20°-30°	239.1	3.4
30°-40°	479.9	6.8
40°-50°	811.1	11.6
50°-60°	1296.9	18.5
60°-70°	1772.0	25.3
70°-80°	1460.7	20.8
80°-90°	568.6	8.1
90°-100°	163.7	2.3
100°-110°	62.7	0.9
110°-120°	27.2	0.4
120°-130°	13.0	0.2
130°-140°	6.1	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°	6736.5	96.1
0°-180°	7011.2	100.0

Coefficient of Utilization



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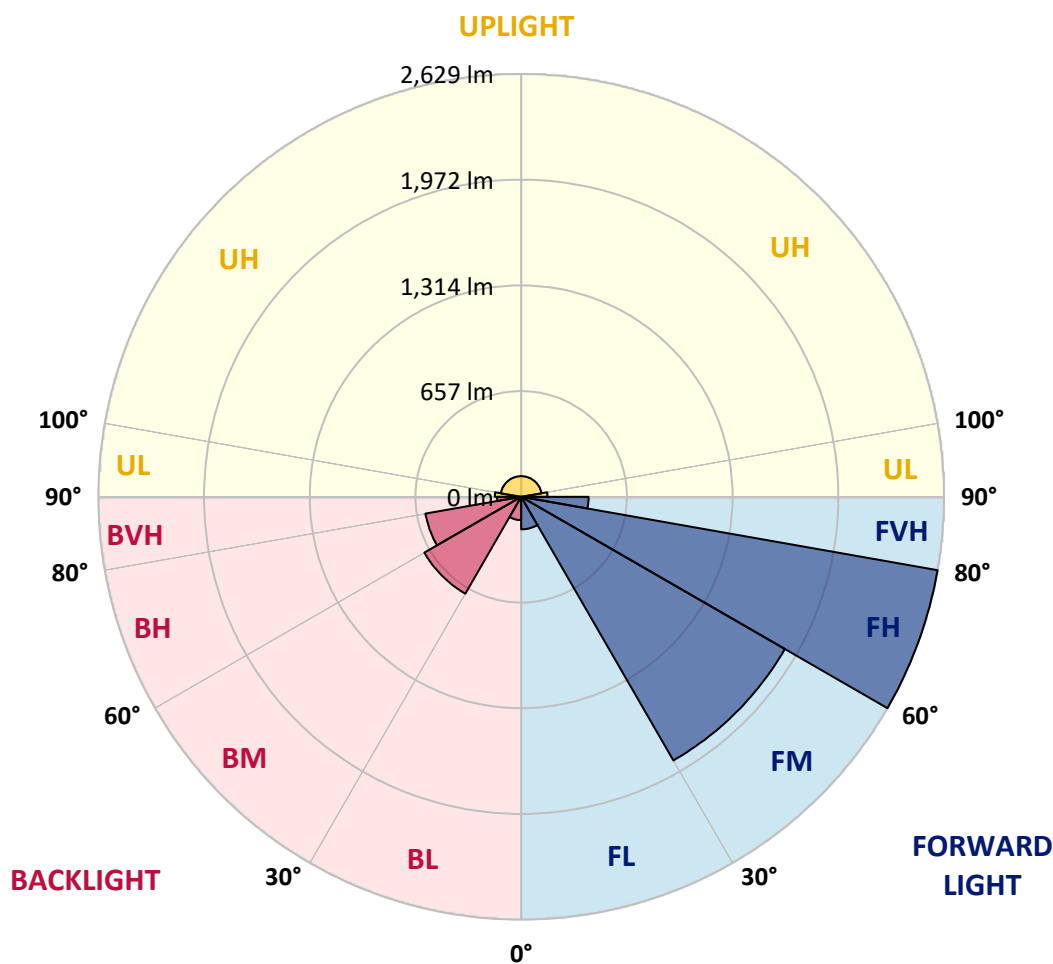
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.5	2.9			
FM	(30°-60°)	1892.9	27.0			
FH	(60°-80°)	2628.9	37.5			G2/5000
FVH	(80°-90°)	418.9	6.0			G3/500
BL	(0°-30°)	144.7	2.1	B1/500		
BM	(30°-60°)	695.1	9.9	B1/1000		
BH	(60°-80°)	603.8	8.6	B2/1000		G2/1000
BVH	(80°-90°)	149.7	2.1			G2/225
UL	(90°-100°)	163.7	2.3		U3/500	
UH	(100°-180°)	128.2	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°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5
2.5°	191.9	191.9	191.9	190.9	190.1	188.3	186.5	184.7	183.8	182.9	182.0
5°	211.5	212.4	211.5	210.6	207.9	205.2	201.7	199.0	195.5	193.6	192.8
7.5°	240.9	240.9	240.1	235.6	232.9	228.5	224.0	218.6	215.0	212.4	208.8
10°	278.4	276.7	274.8	270.4	264.1	257.0	251.7	245.4	239.2	237.3	233.9
12.5°	323.0	323.0	318.6	312.3	300.7	293.6	284.6	277.5	271.3	267.6	265.9
15°	382.9	380.1	372.1	362.3	348.0	333.7	324.0	318.6	312.3	312.3	306.0
17.5°	443.5	446.3	433.6	418.5	398.9	381.0	369.4	368.5	365.8	364.1	363.2
20°	523.0	520.2	505.1	479.2	450.5	429.2	421.2	422.1	429.2	428.3	424.8
22.5°	608.6	608.6	585.4	550.5	510.5	484.6	476.5	484.6	499.8	499.8	501.5
25°	710.3	706.7	677.3	624.6	576.5	542.6	538.9	551.4	578.2	582.7	580.9
27.5°	824.5	812.1	773.7	708.5	645.1	606.8	600.5	623.8	660.4	672.8	677.3
30°	945.8	946.7	887.8	803.0	717.4	666.6	663.9	701.3	745.0	766.6	771.9
32.5°	1085.9	1081.4	1013.7	907.5	796.8	730.8	728.1	779.9	835.2	862.9	866.4
35°	1260.0	1239.4	1163.6	1024.5	879.0	804.0	802.2	858.4	930.7	965.6	974.4
37.5°	1419.8	1409.0	1322.5	1145.8	972.6	878.0	874.5	947.6	1033.3	1073.5	1085.9
40°	1606.2	1593.6	1491.9	1290.4	1084.2	963.6	961.9	1044.9	1144.0	1194.9	1205.5
42.5°	1789.1	1781.0	1671.3	1451.0	1202.0	1060.1	1056.5	1152.9	1269.8	1326.9	1340.3
45°	1985.5	1964.9	1858.7	1615.1	1333.2	1171.6	1173.5	1277.8	1422.3	1489.3	1502.7
47.5°	2153.2	2140.7	2051.5	1792.7	1477.7	1293.0	1295.7	1434.9	1610.7	1688.3	1694.5
50°	2336.1	2329.0	2240.6	1981.0	1651.7	1443.8	1448.2	1605.3	1817.6	1906.9	1938.2
52.5°	2487.9	2488.7	2421.7	2174.6	1823.0	1606.2	1619.5	1808.8	2042.5	2162.1	2180.9
55°	2636.0	2631.5	2592.1	2387.0	2026.4	1788.2	1803.5	2033.7	2311.2	2455.7	2480.6
57.5°	2743.1	2754.7	2759.2	2590.4	2223.7	1971.1	2021.1	2267.4	2603.7	2759.2	2781.4
60°	2817.0	2822.3	2884.9	2794.8	2436.9	2187.1	2252.3	2527.0	2878.7	3042.0	3056.2
62.5°	2809.9	2833.1	2954.5	2948.3	2644.0	2392.3	2475.3	2770.7	3117.8	3290.9	3293.6
65°	2714.4	2752.8	2956.2	3045.5	2815.3	2586.8	2693.9	2990.2	3314.1	3451.5	3415.9
67°	2576.2	2605.7	2867.1	3051.7	2908.1	2707.3	2842.9	3125.8	3391.7	3494.3	3407.8
67.5°	2518.1	2570.8	2834.0	3045.5	2917.9	2733.2	2867.1	3161.5	3407.8	3481.0	3388.1
70°	2238.8	2279.9	2575.2	2917.9	2921.5	2811.7	2966.9	3204.3	3347.1	3331.1	3163.3
72.5°	1860.4	1879.3	2203.1	2636.9	2787.6	2780.5	2937.6	3093.6	3091.9	2985.7	2782.3
75°	1409.9	1459.8	1751.7	2213.8	2508.4	2606.5	2749.3	2801.0	2677.8	2499.5	2253.2
77.5°	995.0	1020.8	1278.7	1740.9	2120.1	2303.0	2403.9	2379.8	2153.2	1942.6	1719.5
80°	644.3	669.2	846.9	1247.5	1662.4	1857.9	1949.7	1878.3	1650.0	1402.8	1215.4
82.5°	389.9	411.4	536.3	837.0	1221.6	1440.2	1486.6	1417.8	1163.6	958.3	811.1
85°	228.5	245.4	332.8	539.8	832.5	1039.6	1056.5	978.0	781.6	640.7	540.8
87.5°	139.2	148.1	210.6	345.4	552.3	701.3	736.2	662.9	526.5	428.3	364.1
90°	90.1	96.3	134.7	226.6	362.3	463.2	484.6	442.6	356.9	291.8	250.7
92.5°	61.6	67.8	93.8	151.7	238.3	306.9	320.3	290.8	240.1	205.2	182.9
95°	47.3	49.9	71.3	107.1	162.4	205.2	217.8	198.1	167.7	150.8	137.4
97.5°	38.4	40.2	57.2	83.0	117.8	147.3	152.6	138.3	124.0	113.3	107.1
100°	33.0	33.9	48.2	67.8	91.9	111.6	114.1	103.5	93.8	88.4	83.0
102.5°	29.5	30.4	41.9	58.0	75.0	88.4	88.4	80.3	71.3	67.8	65.1
105°	25.9	26.8	37.4	49.9	64.3	72.3	72.3	63.4	55.2	51.8	51.0
107.5°	23.2	24.1	32.1	43.7	54.4	60.6	59.8	51.0	41.9	38.4	38.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	21.5	21.5	28.5	38.4	46.4	51.8	49.0	41.1	32.1	29.5	30.4
112.5°	19.6	19.6	25.0	33.0	41.1	44.6	41.1	33.9	25.0	23.2	24.1
115°	18.8	18.8	22.3	29.5	35.7	37.4	34.9	27.7	20.5	18.8	19.6
117.5°	16.9	16.9	20.5	25.9	30.4	32.1	29.5	22.3	16.9	16.1	16.9
120°	16.1	16.1	17.8	22.3	26.8	27.7	25.0	18.8	14.3	14.3	15.2
122.5°	15.2	15.2	16.9	19.6	23.2	24.1	21.5	15.2	12.4	12.4	13.4
125°	15.2	15.2	15.2	17.8	19.6	20.5	17.8	13.4	11.6	11.6	12.4
127.5°	14.3	14.3	14.3	15.2	16.9	16.9	15.2	10.7	9.9	10.7	10.7
130°	13.4	13.4	13.4	14.3	15.2	14.3	12.4	9.0	9.0	9.9	9.9
132.5°	12.4	12.4	12.4	12.4	12.4	11.6	9.9	8.0	8.0	9.0	9.0
135°	11.6	11.6	11.6	10.7	10.7	9.9	8.0	6.2	7.1	8.0	8.0
137.5°	10.7	10.7	10.7	9.9	9.0	7.1	5.4	5.4	6.2	7.1	7.1
140°	9.9	9.9	9.0	8.0	7.1	5.4	3.6	4.5	5.4	5.4	6.2
142.5°	8.0	8.0	8.0	6.2	4.5	3.6	2.7	2.7	4.5	4.5	4.5
145°	7.1	7.1	6.2	5.4	3.6	1.7	0.9	1.7	2.7	3.6	3.6
147.5°	5.4	5.4	5.4	3.6	1.7	0.9	0.9	0.9	1.7	2.7	2.7
150°	4.5	4.5	3.6	2.7	0.9	0.0	0.0	0.9	1.7	1.7	1.7
152.5°	2.7	2.7	2.7	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°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5
2.5°	181.2	180.3	179.4	177.5	176.7	175.0	173.0	172.2	171.3	171.3	171.3
5°	190.9	190.1	187.4	183.8	181.2	178.4	176.7	175.0	173.0	173.0	173.0
7.5°	207.0	205.2	199.8	196.3	191.9	188.3	185.6	182.9	182.0	182.0	181.2
10°	230.2	227.6	221.2	214.1	207.9	203.4	199.8	197.2	196.3	196.3	196.3
12.5°	260.6	257.0	247.2	238.3	228.5	222.3	217.8	216.9	217.8	217.8	216.9
15°	304.3	297.1	282.0	267.6	252.5	242.7	240.1	240.1	244.5	246.3	247.2
17.5°	356.9	348.0	327.4	304.3	281.2	267.6	265.9	271.3	281.2	285.5	284.6
20°	422.1	409.6	381.0	346.3	314.1	297.1	295.3	305.2	318.6	327.4	326.5
22.5°	495.3	483.7	440.9	389.9	345.4	325.7	323.0	339.0	358.7	368.5	372.1
25°	576.5	560.4	504.1	434.6	378.4	350.7	349.7	369.4	395.3	413.1	415.8
27.5°	664.8	646.0	572.0	479.2	406.9	371.2	370.3	397.0	432.7	455.1	455.9
30°	762.1	733.4	638.9	516.7	428.3	385.4	387.4	418.5	464.1	489.9	494.4
32.5°	858.4	826.3	699.6	553.3	442.6	392.7	395.3	434.6	484.6	517.6	521.1
35°	960.2	919.1	760.2	577.3	450.5	393.6	396.2	440.9	495.3	530.9	534.5
37.5°	1062.8	1013.7	811.1	595.1	450.5	388.2	391.7	439.0	494.4	530.9	533.6
40°	1184.2	1112.7	859.4	602.3	443.5	378.4	382.9	429.2	481.0	514.8	517.6
42.5°	1309.9	1224.2	904.7	600.5	431.0	365.8	370.3	413.1	458.7	486.3	489.1
45°	1461.7	1357.2	951.2	595.1	415.8	352.5	355.1	393.6	431.9	451.6	455.1
47.5°	1648.1	1500.0	998.5	585.4	398.9	340.1	341.8	375.7	403.3	415.8	418.5
50°	1855.1	1668.6	1050.3	572.0	382.9	328.4	331.0	358.7	378.4	383.7	384.6
52.5°	2100.5	1859.6	1098.5	555.9	368.5	319.5	323.0	348.0	361.4	362.3	363.2
55°	2365.6	2068.4	1141.3	536.3	354.2	313.2	320.3	343.5	352.5	351.6	352.5
57.5°	2642.2	2269.2	1170.7	515.8	342.6	309.6	321.2	343.5	352.5	350.7	352.5
60°	2889.4	2441.4	1175.2	489.1	333.7	309.6	326.5	349.7	357.9	357.9	359.6
62.5°	3065.2	2540.5	1145.8	462.2	325.7	311.4	333.7	357.9	365.8	365.8	367.6
65°	3136.5	2538.6	1081.4	433.6	319.5	314.1	340.9	366.8	373.0	373.0	374.8
67°	3083.0	2455.7	998.5	412.2	315.9	316.8	346.3	372.1	377.5	376.6	377.5
67.5°	3050.0	2426.2	980.7	406.0	315.0	316.8	347.1	373.0	378.4	377.5	377.5
70°	2777.0	2175.5	857.5	379.2	308.7	316.8	350.7	374.8	378.4	376.6	376.6
72.5°	2354.9	1820.4	719.3	352.5	301.5	314.1	348.9	372.1	373.8	371.2	371.2
75°	1873.0	1424.2	590.8	329.3	291.8	307.9	342.6	364.1	366.8	364.1	361.4
77.5°	1386.7	1054.7	477.4	304.3	280.1	298.1	331.9	352.5	355.1	352.5	349.7
80°	967.3	749.5	384.6	279.2	265.1	283.7	316.8	334.7	338.1	336.4	331.9
82.5°	647.0	514.8	307.9	251.7	245.4	265.1	296.2	312.3	315.0	313.2	307.9
85°	441.7	358.7	254.3	222.3	224.0	242.7	269.5	282.0	284.6	282.0	276.7
87.5°	297.1	257.0	207.9	193.6	199.0	216.9	238.3	244.5	249.8	245.4	241.8
90°	215.0	193.6	167.7	165.1	174.0	189.1	203.4	204.4	211.5	209.7	202.5
92.5°	161.4	151.7	139.2	139.2	149.0	161.4	170.5	168.7	173.0	173.0	167.7
95°	127.7	122.3	116.1	118.6	127.7	136.6	139.2	135.6	140.1	141.0	139.2
97.5°	102.6	100.8	99.1	100.8	108.8	116.1	115.2	108.8	112.4	114.1	112.4
100°	83.0	82.1	83.0	86.6	92.8	97.2	94.6	88.4	91.0	91.0	91.0
102.5°	66.9	66.9	69.6	73.2	77.7	81.2	77.7	72.3	73.2	72.3	72.3
105°	52.7	53.5	57.2	61.6	65.1	66.9	63.4	58.0	57.2	54.4	55.2
107.5°	41.1	42.8	46.4	51.0	54.4	55.2	52.7	47.3	43.7	41.9	41.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	32.1	33.9	38.4	41.9	44.6	45.6	42.8	37.4	33.0	32.1	32.1
112.5°	25.9	27.7	31.2	34.9	37.4	37.4	34.9	30.4	25.0	24.1	24.1
115°	21.5	22.3	25.9	28.5	31.2	31.2	28.5	24.1	19.6	18.8	19.6
117.5°	17.8	18.8	21.5	24.1	25.9	25.9	23.2	18.8	15.2	15.2	15.2
120°	16.1	16.9	18.8	20.5	21.5	21.5	19.6	15.2	12.4	12.4	12.4
122.5°	14.3	14.3	16.1	16.9	18.8	17.8	16.1	12.4	9.9	10.7	10.7
125°	12.4	13.4	13.4	15.2	15.2	15.2	12.4	9.9	9.0	9.0	9.0
127.5°	11.6	11.6	12.4	12.4	13.4	12.4	9.9	7.1	7.1	8.0	8.0
130°	10.7	10.7	10.7	10.7	10.7	9.9	8.0	6.2	6.2	7.1	7.1
132.5°	9.0	9.9	9.9	9.0	9.0	8.0	6.2	4.5	5.4	5.4	5.4
135°	8.0	9.0	8.0	8.0	7.1	6.2	4.5	3.6	4.5	4.5	4.5
137.5°	7.1	7.1	7.1	6.2	5.4	4.5	3.6	2.7	3.6	3.6	3.6
140°	6.2	6.2	6.2	5.4	4.5	3.6	1.7	1.7	2.7	2.7	2.7
142.5°	4.5	5.4	4.5	3.6	2.7	1.7	0.9	0.9	1.7	2.7	1.7
145°	3.6	3.6	3.6	2.7	1.7	0.9	0.0	0.0	0.9	0.9	0.9
147.5°	2.7	2.7	2.7	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)