

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: P239883

Luminaire Tested: **UTLD-AF24-100-D-U-T3-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6501 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

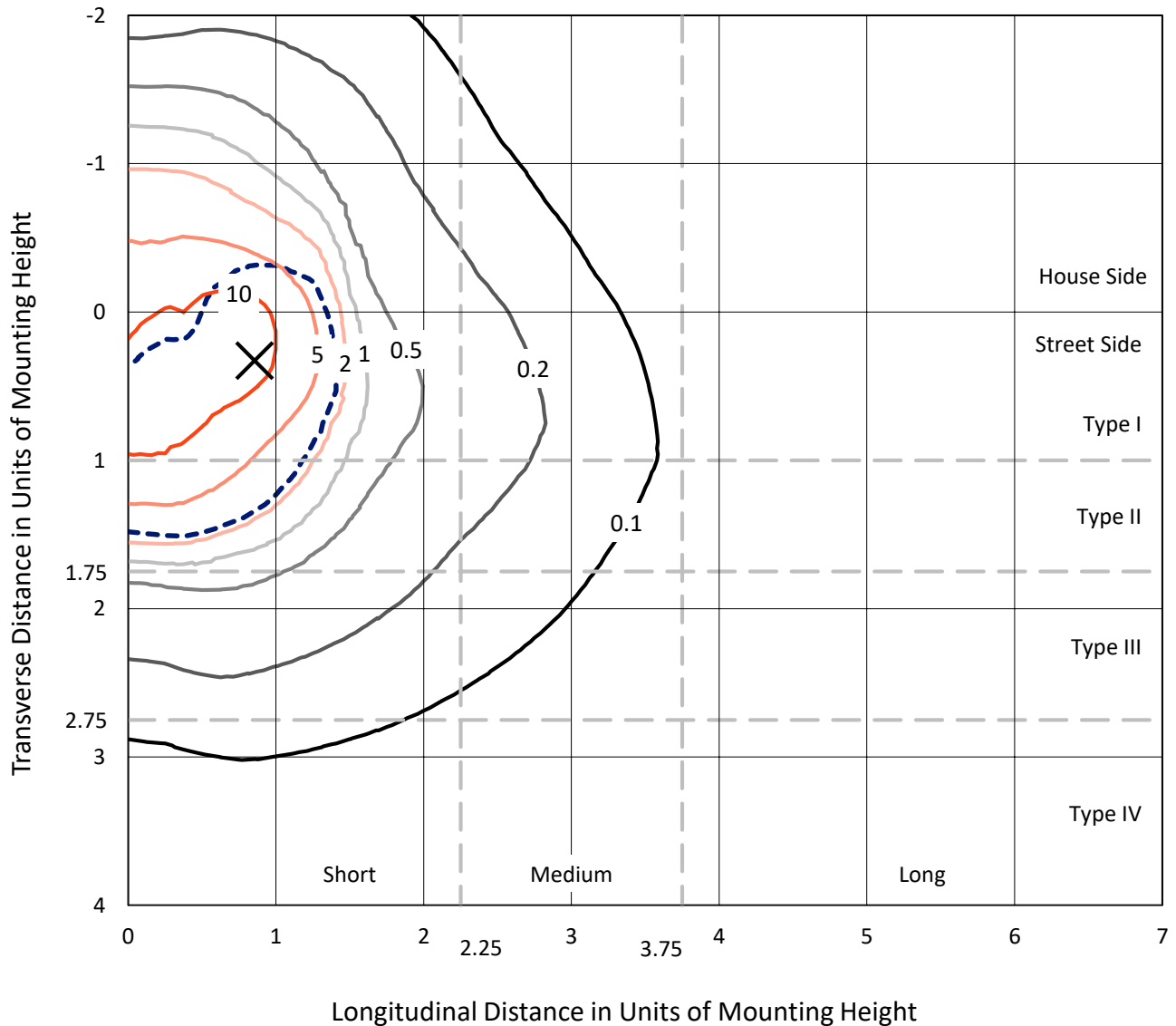
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

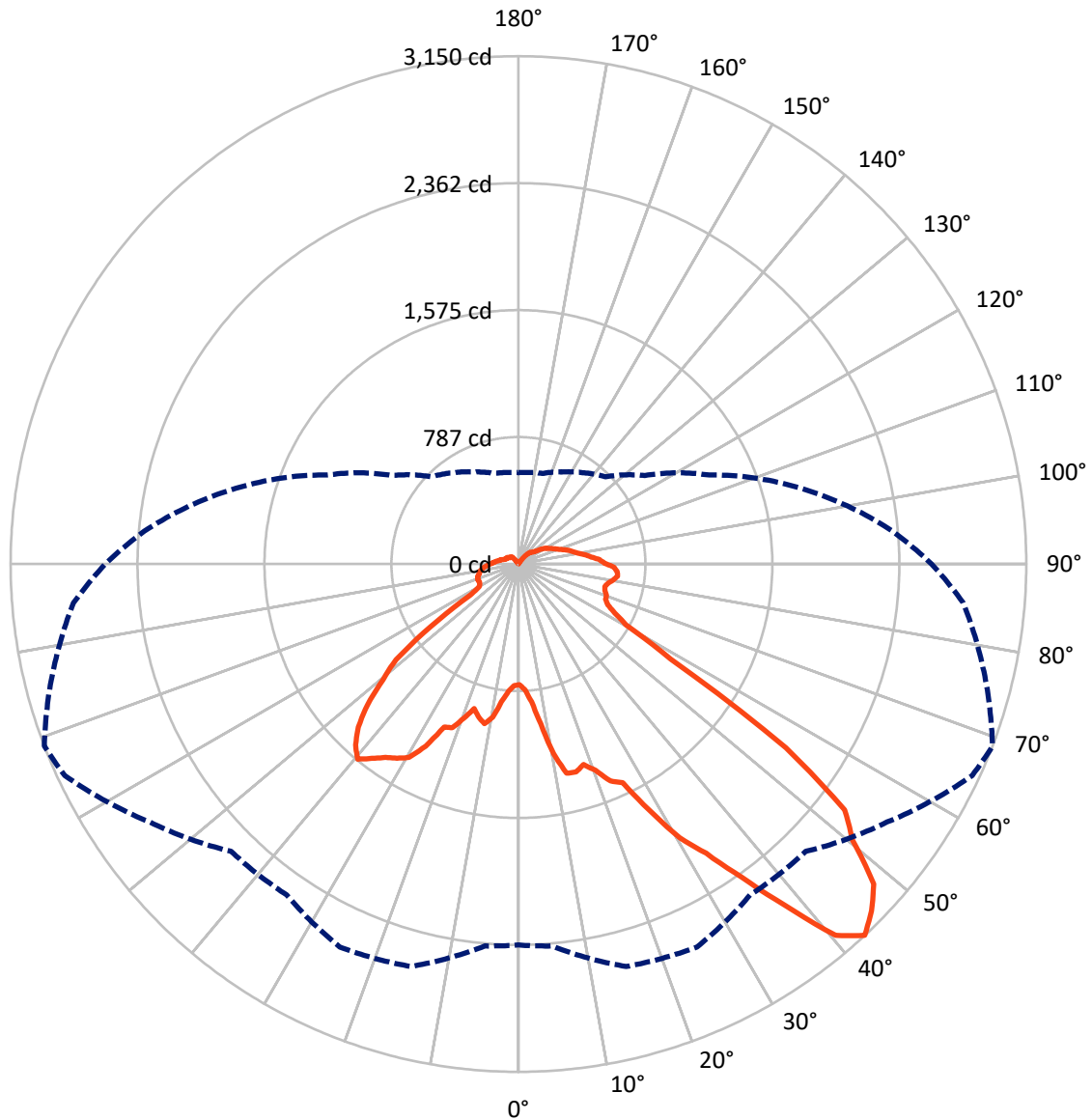
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 42.5-Deg Vertical

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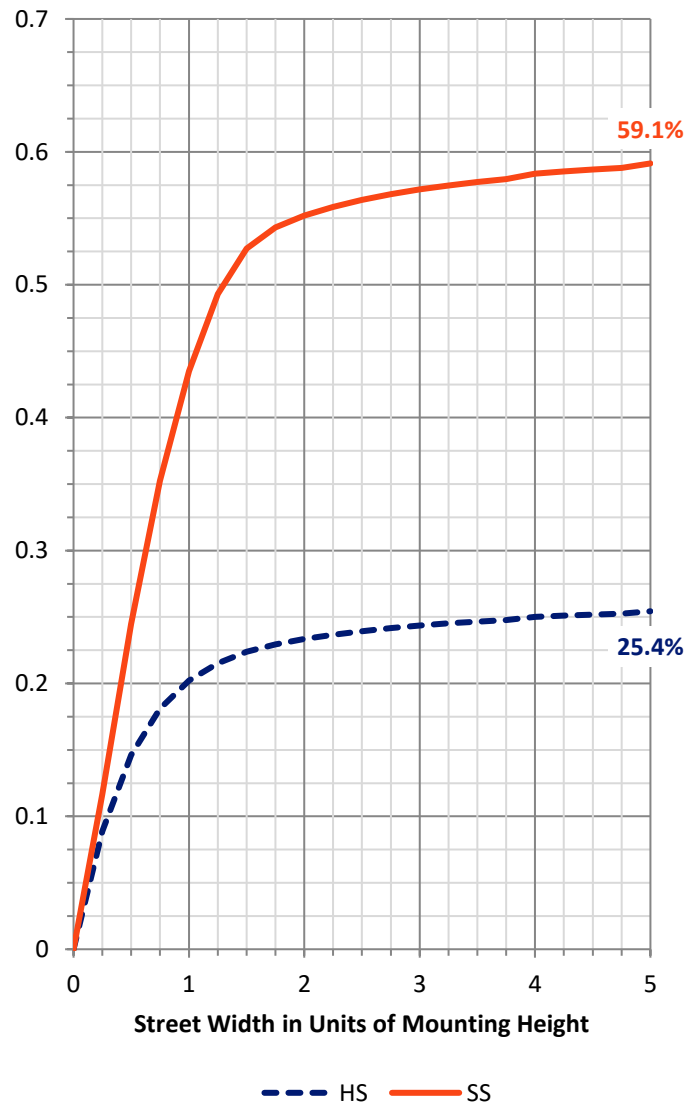
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.9	206.4	1919.3
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3969.2	612.5	4581.7
	% Fixture	61.1	9.4	70.5
Total	Lumens	5682.1	818.9	6501.0
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.3
10°-20°	312.7	4.8
20°-30°	639.6	9.8
30°-40°	1075.9	16.5
40°-50°	1424.2	21.9
50°-60°	1027.0	15.8
60°-70°	403.4	6.2
70°-80°	363.5	5.6
80°-90°	354.3	5.4
90°-100°	298.8	4.6
100°-110°	212.4	3.3
110°-120°	143.2	2.2
120°-130°	93.7	1.4
130°-140°	56.0	0.9
140°-150°	14.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5682.1	87.4
0°-180°	6501.0	100.0



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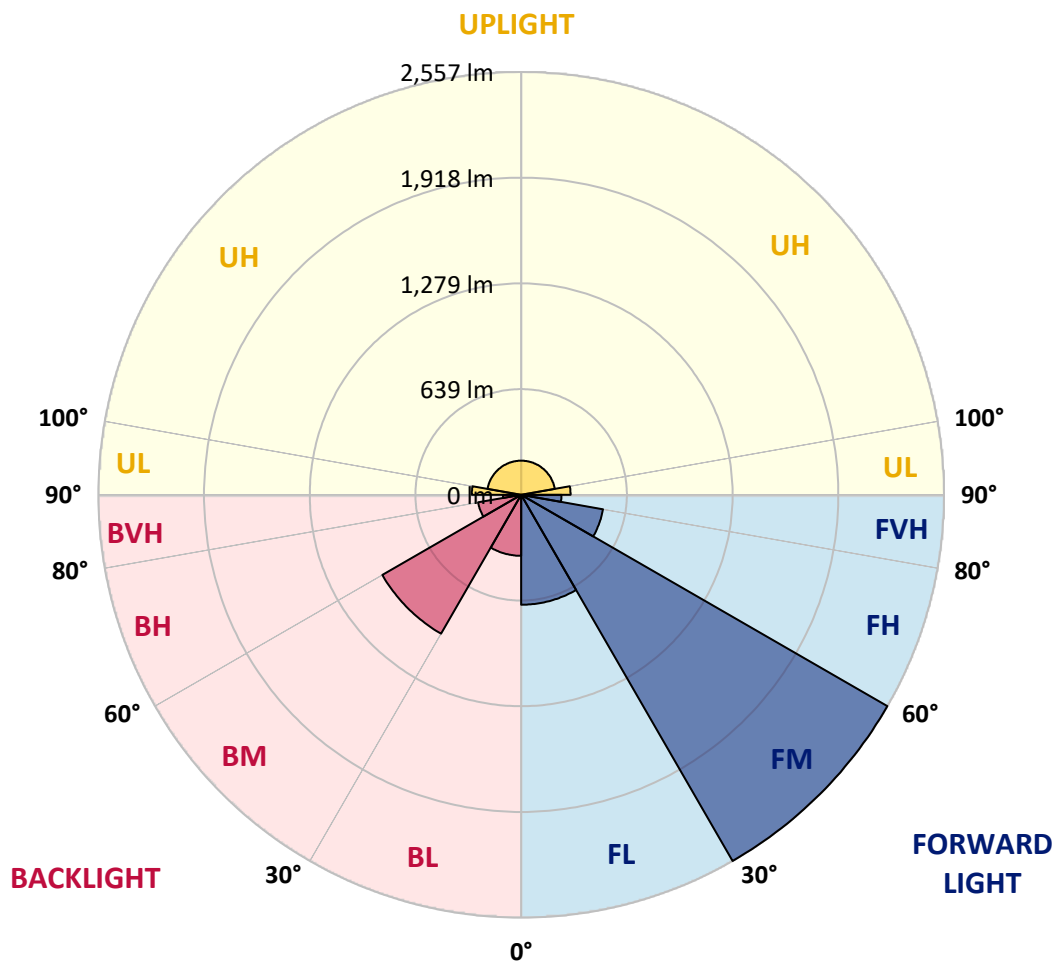
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.9	10.2			
FM (30°-60°)	2557.5	39.3			
FH (60°-80°)	502.7	7.7			G0/660
FVH (80°-90°)	244.1	3.8			G3/500
BL (0°-30°)	368.9	5.7	B1/500		
BM (30°-60°)	969.6	14.9	B1/1000		
BH (60°-80°)	264.2	4.1	B1/500		G1/500
BVH (80°-90°)	110.2	1.7			G2/225
UL (90°-100°)	298.8	4.6		U3/500	
UH (100°-180°)	206.4	3.2		U3/500	

BUG Rating: B1-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
2.5°	796.7	792.3	790.5	790.5	787.9	787.0	788.8	786.1	781.7	780.8	775.5
5°	852.5	850.7	849.8	856.9	863.1	864.9	863.1	863.1	857.8	857.8	841.0
7.5°	941.9	939.3	946.3	964.0	970.2	988.8	1011.0	997.7	1001.2	991.5	959.6
10°	1045.5	1041.1	1073.8	1097.7	1152.6	1175.6	1203.9	1201.3	1196.0	1179.2	1126.0
12.5°	1139.3	1136.7	1179.2	1265.9	1339.4	1413.8	1419.9	1358.9	1331.4	1271.2	1204.8
15°	1256.2	1258.8	1323.5	1446.5	1555.4	1585.5	1510.2	1389.8	1338.5	1276.5	1178.3
17.5°	1444.7	1453.6	1563.4	1703.2	1775.8	1654.5	1493.4	1355.3	1306.6	1239.4	1144.6
20°	1554.5	1559.8	1710.3	1899.8	1921.0	1724.5	1557.2	1408.4	1365.9	1312.8	1234.9
22.5°	1620.0	1639.5	1812.1	2044.1	2031.7	1887.4	1655.4	1514.7	1461.6	1389.0	1325.2
25°	1725.4	1739.5	1905.1	2129.0	2074.1	1940.5	1743.1	1555.4	1503.2	1450.0	1386.3
27.5°	1867.9	1881.2	2067.1	2196.3	2138.8	2011.3	1874.1	1753.7	1726.2	1717.4	1689.9
30°	1944.0	1952.9	2161.8	2270.7	2172.4	2113.1	2075.0	1978.5	1970.6	1952.9	1890.0
32.5°	1987.4	2021.0	2263.6	2326.4	2198.1	2191.0	2214.0	2154.7	2138.8	2108.7	2036.1
35°	2026.3	2043.2	2271.6	2367.2	2239.7	2236.2	2394.6	2422.1	2386.6	2324.7	2151.2
37.5°	2326.4	2334.4	2491.1	2457.5	2294.6	2314.1	2575.2	2717.7	2685.9	2608.8	2489.3
40°	2489.3	2503.5	2648.7	2578.7	2410.5	2432.7	2705.3	3001.0	3029.3	3026.7	2922.2
42.5°	2362.7	2377.8	2584.1	2621.2	2505.3	2520.3	2790.3	3104.6	3149.7	3010.7	2770.0
45°	2775.3	2786.8	2902.7	2631.0	2440.6	2498.2	2723.9	3029.3	3070.1	3029.3	2823.1
47.5°	2774.4	2760.2	2856.7	2658.4	2436.2	2397.3	2579.6	2885.0	2965.6	2872.6	2648.7
50°	2438.9	2438.0	2676.1	2561.9	2388.4	2298.1	2421.2	2662.8	2682.3	2573.4	2273.3
52.5°	2129.9	2128.1	2403.5	2345.0	2231.7	2143.2	2219.3	2460.1	2534.5	2438.9	2188.3
55°	1856.4	1932.5	2174.2	2049.4	2002.4	1914.8	1990.9	2050.2	2012.2	1746.6	1178.3
57.5°	1124.3	1208.4	1523.5	1613.8	1624.4	1561.6	1389.0	1186.2	1113.6	889.7	531.2
60°	524.1	544.4	799.4	972.9	1187.1	1085.3	878.2	764.9	764.9	671.9	461.2
62.5°	369.2	383.3	525.0	627.6	710.9	701.1	623.2	639.2	671.0	629.4	444.4
65°	347.0	355.9	467.4	498.4	530.3	536.5	525.8	574.5	608.2	602.9	450.6
67.5°	322.2	333.7	426.7	447.1	471.8	483.3	491.3	548.0	583.4	602.9	468.3
70°	293.0	306.3	393.9	422.3	446.2	472.7	482.5	543.5	579.8	599.3	474.5
72.5°	265.6	277.1	350.6	386.0	428.5	459.4	498.4	535.6	560.4	580.7	478.0
75°	239.0	252.3	314.3	355.0	404.6	463.0	509.9	537.3	554.2	570.1	473.6
77.5°	221.3	235.5	284.2	331.1	390.4	471.0	524.1	559.5	569.2	571.9	468.3
80°	205.4	221.3	272.7	322.2	386.9	474.5	540.9	583.4	596.7	602.9	498.4
82.5°	216.9	231.1	275.3	335.5	398.4	473.6	536.5	603.7	618.8	615.3	508.1
85°	245.2	256.7	310.7	367.4	416.1	465.6	520.5	594.0	615.3	633.8	538.2
87.5°	298.3	303.6	342.6	394.8	434.7	450.6	505.5	574.5	594.0	600.2	524.1
90°	326.7	332.0	378.0	421.4	433.8	439.1	450.6	519.6	533.8	558.6	501.1
92.5°	359.4	359.4	407.2	432.9	432.9	410.8	418.7	480.7	504.6	518.8	465.6
95°	391.3	389.5	416.1	431.1	408.1	377.1	390.4	439.1	454.1	469.2	432.9
97.5°	401.0	400.1	416.1	407.2	369.2	339.9	356.8	398.4	414.3	430.2	393.1
100°	390.4	386.0	390.4	370.9	335.5	313.4	323.1	357.6	374.5	387.7	354.1
102.5°	367.4	364.7	366.5	347.0	309.8	283.3	296.6	332.9	345.2	355.9	325.8
105°	356.8	352.3	344.4	316.0	279.7	261.1	272.7	309.0	320.5	341.7	316.9
107.5°	303.6	300.1	293.9	278.9	260.3	246.1	255.8	281.5	288.6	299.2	276.2
110°	262.0	260.3	258.5	255.0	243.4	233.7	239.0	253.2	262.0	270.0	247.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	253.2	250.5	248.8	242.6	227.5	216.9	220.4	236.4	241.7	244.3	219.5
115°	241.7	239.0	229.3	220.4	209.8	204.5	205.4	218.7	222.2	224.0	208.9
117.5°	214.2	211.6	205.4	201.8	195.6	193.0	197.4	204.5	205.4	206.3	193.0
120°	198.3	197.4	193.9	187.7	183.2	177.1	184.1	191.2	193.9	196.5	187.7
122.5°	180.6	178.8	175.3	167.3	167.3	163.8	162.9	167.3	168.2	175.3	170.9
125°	159.3	157.6	154.0	147.0	155.8	155.8	149.6	139.9	142.5	148.7	145.2
127.5°	142.5	140.8	137.2	133.7	146.1	150.5	139.9	122.2	123.9	125.7	123.1
130°	139.9	138.1	133.7	127.5	131.0	144.3	125.7	111.5	114.2	116.0	114.2
132.5°	137.2	136.3	130.1	122.2	117.7	130.1	108.9	105.3	108.0	110.7	108.9
135°	128.4	127.5	122.2	110.7	98.3	104.5	86.8	92.1	96.5	100.0	98.3
137.5°	114.2	113.3	108.9	97.4	80.6	75.2	66.4	78.8	82.3	86.8	86.8
140°	92.1	91.2	86.8	75.2	56.7	39.8	42.5	60.2	63.7	69.0	69.9
142.5°	67.3	65.5	61.1	50.5	31.9	13.3	23.9	36.3	40.7	46.0	49.6
145°	46.0	45.1	39.0	30.1	15.0	1.8	10.6	22.1	24.8	28.3	31.9
147.5°	29.2	29.2	24.8	16.8	4.4	1.8	2.7	11.5	14.2	17.7	20.4
150°	17.7	17.7	13.3	5.3	0.9	0.9	0.9	1.8	4.4	8.0	10.6
152.5°	4.4	4.4	2.7	1.8	0.9	0.0	0.9	0.9	0.9	0.9	1.8
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.9	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°	0.9	0.9	0.9	0.0	0.9	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°	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
2.5°	772.8	767.5	760.4	750.7	741.0	731.2	721.5	716.2	713.5	711.7	710.9
5°	836.6	825.1	806.5	780.8	748.9	730.3	717.1	701.1	690.5	687.0	684.3
7.5°	949.0	930.4	893.2	838.3	799.4	744.5	697.6	667.5	645.3	633.0	633.0
10°	1099.5	1072.9	1008.3	933.1	833.0	736.5	663.9	609.1	583.4	572.8	570.1
12.5°	1165.9	1140.2	1064.1	976.4	870.2	757.8	665.7	600.2	569.2	556.8	558.6
15°	1132.2	1096.8	1031.3	949.0	865.8	795.0	717.9	636.5	583.4	569.2	573.6
17.5°	1098.6	1062.3	992.4	901.2	819.7	772.8	718.8	663.9	613.5	593.1	589.6
20°	1196.9	1170.3	1075.6	972.0	849.8	731.2	693.2	668.4	651.5	652.4	644.5
22.5°	1290.7	1254.4	1167.6	1046.4	914.5	810.9	748.9	716.2	697.6	705.5	706.4
25°	1353.6	1326.1	1197.7	1052.6	942.8	865.8	776.4	730.3	699.4	699.4	695.8
27.5°	1673.1	1605.0	1401.4	1179.2	1015.4	887.9	779.9	726.8	687.8	676.3	678.1
30°	1840.4	1773.2	1540.3	1270.3	1098.6	941.0	789.6	707.3	697.6	689.6	692.3
32.5°	1983.9	1884.7	1609.4	1294.2	1083.6	949.0	810.9	711.7	664.8	656.9	660.4
35°	2054.7	1944.0	1664.3	1315.5	1090.6	915.4	785.2	693.2	663.1	655.1	657.7
37.5°	2381.3	2215.8	1751.0	1347.4	1088.9	871.1	750.7	676.3	620.6	596.7	596.7
40°	2756.7	2513.2	1902.4	1345.6	1021.6	833.0	712.6	643.6	599.3	580.7	579.8
42.5°	2561.9	2330.0	1813.9	1305.7	956.1	764.0	691.4	629.4	581.6	569.2	566.6
45°	2643.4	2395.5	1750.1	1194.2	857.8	709.1	640.9	597.5	542.7	514.3	513.4
47.5°	2384.9	2185.7	1620.0	1052.6	772.8	623.2	580.7	552.4	517.9	494.0	491.3
50°	2068.8	1867.9	1363.3	933.1	658.6	552.4	523.2	509.0	474.5	447.1	448.8
52.5°	1976.8	1733.3	1188.0	814.4	566.6	481.6	467.4	451.5	417.0	385.1	388.6
55°	980.0	811.8	722.4	633.0	475.4	418.7	412.5	402.8	368.3	340.8	341.7
57.5°	456.8	393.9	345.2	367.4	358.5	363.8	361.2	355.0	322.2	283.3	280.6
60°	409.0	350.6	293.0	278.0	294.8	317.8	316.0	296.6	255.0	208.9	203.6
62.5°	394.8	335.5	284.2	262.0	269.1	284.2	273.5	248.8	215.1	172.6	171.7
65°	401.9	339.1	283.3	255.8	261.1	267.3	252.3	234.6	214.2	185.0	185.0
67.5°	417.0	352.3	289.5	253.2	255.8	262.0	247.9	235.5	224.9	205.4	205.4
70°	421.4	358.5	293.0	254.1	251.4	256.7	247.0	235.5	229.3	213.3	212.5
72.5°	423.2	362.1	291.2	249.6	243.4	247.9	240.8	235.5	232.8	220.4	218.7
75°	415.2	358.5	282.4	239.9	233.7	235.5	233.7	232.8	236.4	228.4	225.7
77.5°	405.4	353.2	275.3	229.3	222.2	223.1	221.3	224.0	227.5	222.2	217.8
80°	425.8	368.3	276.2	221.3	208.0	203.6	204.5	207.1	211.6	200.1	193.9
82.5°	432.9	369.2	263.8	203.6	186.8	180.6	182.4	189.4	193.0	182.4	176.2
85°	459.4	386.0	255.0	187.7	168.2	162.0	163.8	168.2	166.4	154.0	148.7
87.5°	448.8	374.5	239.0	169.1	153.1	147.8	148.7	150.5	144.3	128.4	123.9
90°	433.8	361.2	221.3	148.7	135.4	133.7	131.9	129.2	118.6	101.8	97.4
92.5°	406.3	337.3	205.4	134.6	120.4	119.5	116.9	111.5	101.8	85.0	80.6
95°	383.3	316.0	190.3	123.1	108.0	104.5	104.5	99.1	88.5	74.4	72.6
97.5°	345.2	287.7	175.3	113.3	96.5	93.0	92.1	88.5	80.6	69.9	69.0
100°	312.5	260.3	159.3	102.7	86.8	83.2	81.4	79.7	73.5	67.3	67.3
102.5°	289.5	240.8	148.7	93.8	77.9	74.4	74.4	72.6	69.0	64.6	64.6
105°	283.3	236.4	144.3	85.9	69.0	67.3	68.2	68.2	65.5	62.9	62.9
107.5°	246.1	203.6	123.9	76.1	62.9	61.1	62.0	62.9	62.0	61.1	61.1
110°	219.5	185.0	115.1	71.7	59.3	56.7	56.7	56.7	56.7	57.5	58.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	196.5	164.7	105.3	68.2	55.8	53.1	52.2	51.3	50.5	54.0	54.0
115°	187.7	160.2	102.7	66.4	53.1	50.5	47.8	46.0	44.3	46.9	47.8
117.5°	174.4	150.5	100.0	66.4	52.2	47.8	45.1	42.5	39.8	42.5	42.5
120°	170.9	149.6	101.8	67.3	50.5	44.3	41.6	38.1	36.3	39.0	39.8
122.5°	157.6	139.9	96.5	63.7	48.7	42.5	39.8	32.8	32.8	34.5	35.4
125°	133.7	118.6	83.2	57.5	46.0	42.5	39.0	29.2	30.1	31.9	31.9
127.5°	114.2	102.7	76.1	55.8	46.9	43.4	36.3	27.4	29.2	31.9	31.9
130°	108.0	98.3	77.0	58.4	48.7	44.3	30.1	23.9	28.3	31.0	31.0
132.5°	103.6	95.6	77.0	61.1	50.5	40.7	23.9	21.2	23.9	25.7	25.7
135°	93.8	88.5	73.5	58.4	46.0	31.9	19.5	18.6	22.1	23.9	23.9
137.5°	84.1	78.8	67.3	54.0	40.7	25.7	14.2	16.8	18.6	20.4	20.4
140°	69.0	65.5	55.8	44.3	30.1	14.2	10.6	13.3	15.9	17.7	17.7
142.5°	48.7	46.9	39.0	28.3	16.8	5.3	7.1	9.7	11.5	13.3	13.3
145°	31.9	30.1	24.8	17.7	7.1	1.8	4.4	6.2	8.9	9.7	9.7
147.5°	20.4	19.5	15.0	8.9	2.7	1.8	1.8	4.4	7.1	8.0	8.0
150°	9.7	8.9	6.2	2.7	1.8	0.9	0.9	1.8	4.4	5.3	5.3
152.5°	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.9	0.9	1.8	1.8
155°	0.9	0.9	0.9	0.9	0.9	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	0.9	0.9	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)