

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: P14204

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-X-1-X-BK-5700**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14204
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN/CLB/ARC-080-LED-E-U-33-X-1-X-BK-5700
Description: STREETWORKS POST TOP WITH A TYPE III PRISMATIC REFRACTOR
Light Source: [6] 5700K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17544.1 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U5 - G5

Input Watts (W): 101.3
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

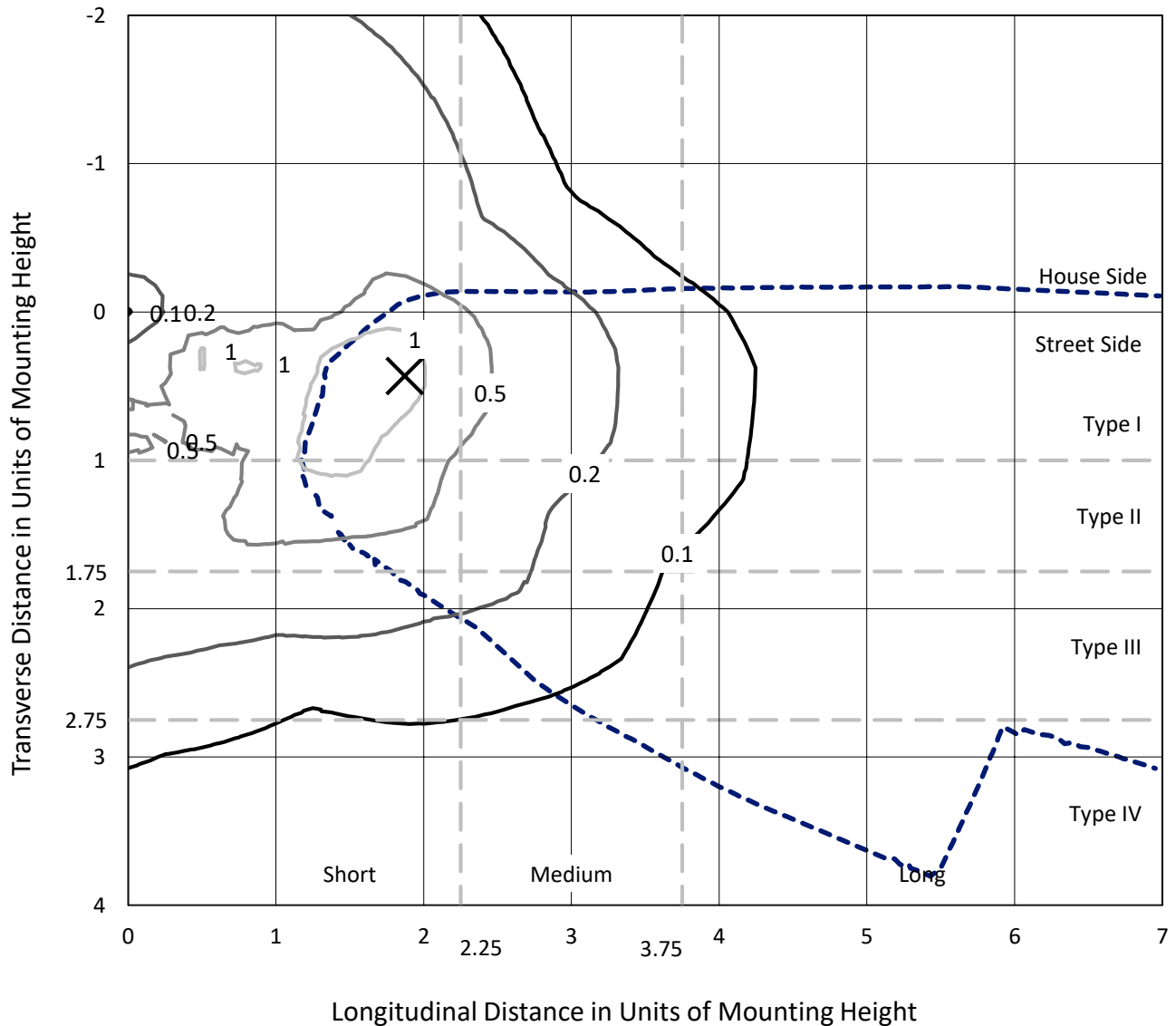


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

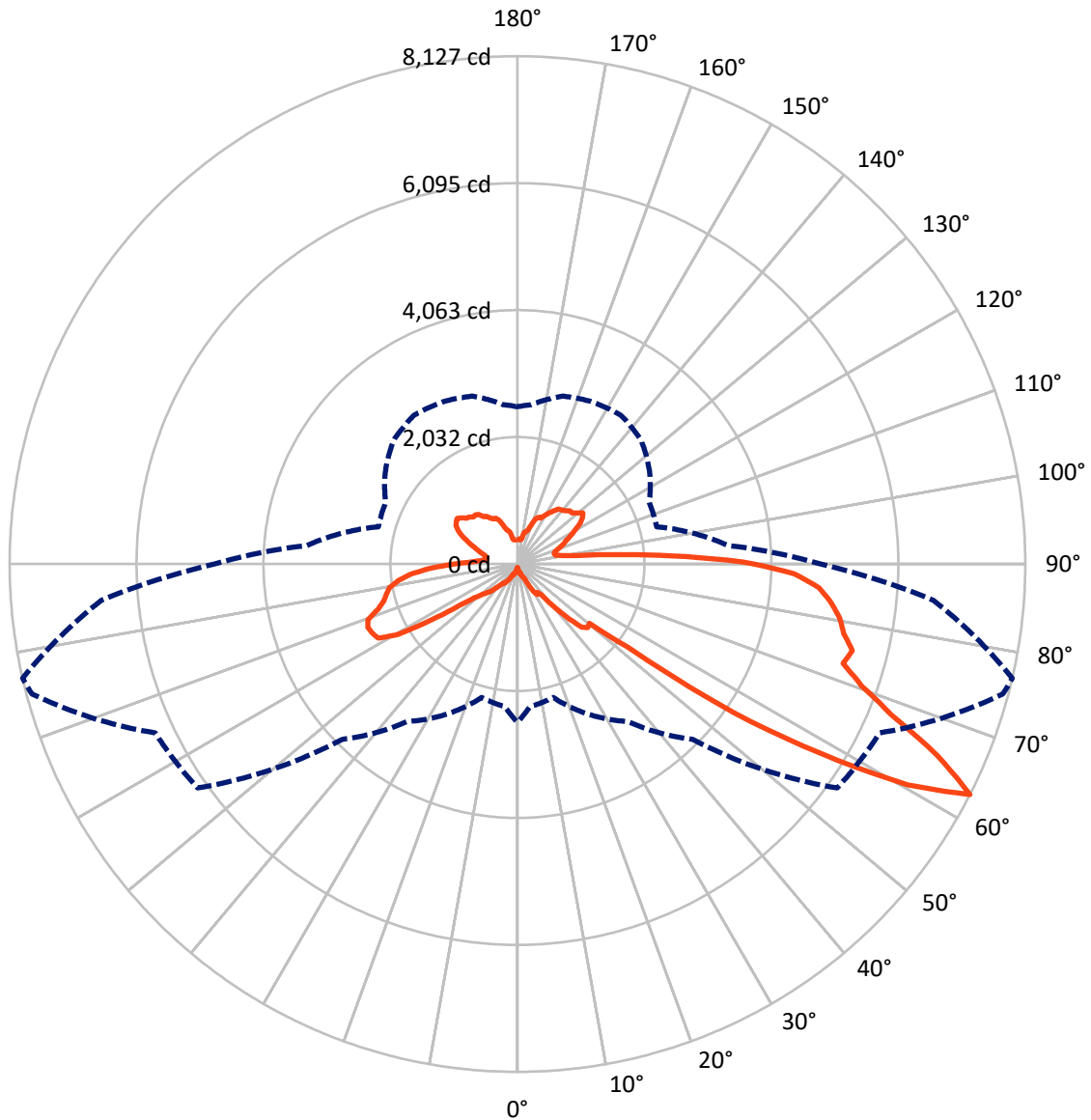


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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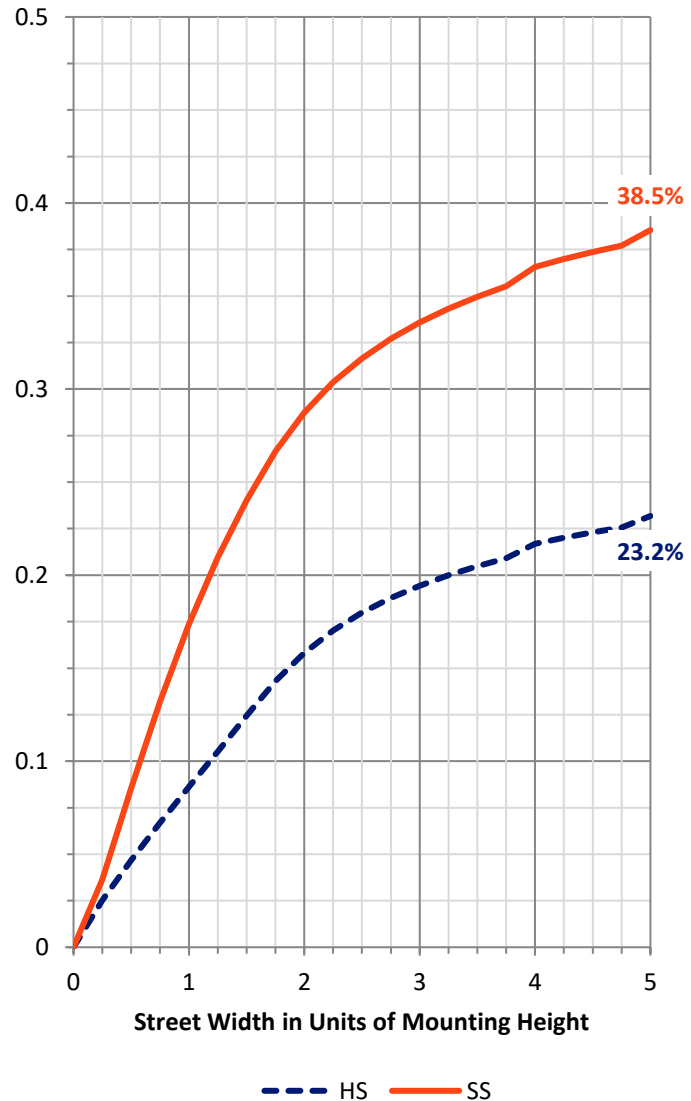
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4548.1	2617.9	7165.9
	% Fixture	25.9	14.9	40.8
Street Side	Lumens	7501.6	2876.6	10378.2
	% Fixture	42.8	16.4	59.2
Total	Lumens	12049.7	5494.5	17544.1
	% Fixture	68.7	31.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	46.3	0.3
20°-30°	148.7	0.8
30°-40°	341.5	1.9
40°-50°	661.6	3.8
50°-60°	1787.7	10.2
60°-70°	3426.2	19.5
70°-80°	3094.0	17.6
80°-90°	2534.7	14.4
90°-100°	1019.8	5.8
100°-110°	587.3	3.3
110°-120°	850.9	4.8
120°-130°	1018.6	5.8
130°-140°	846.7	4.8
140°-150°	605.8	3.5
150°-160°	368.4	2.1
160°-170°	158.9	0.9
170°-180°	38.2	0.2
0°-90°	12049.7	68.7
0°-180°	17544.1	100.0



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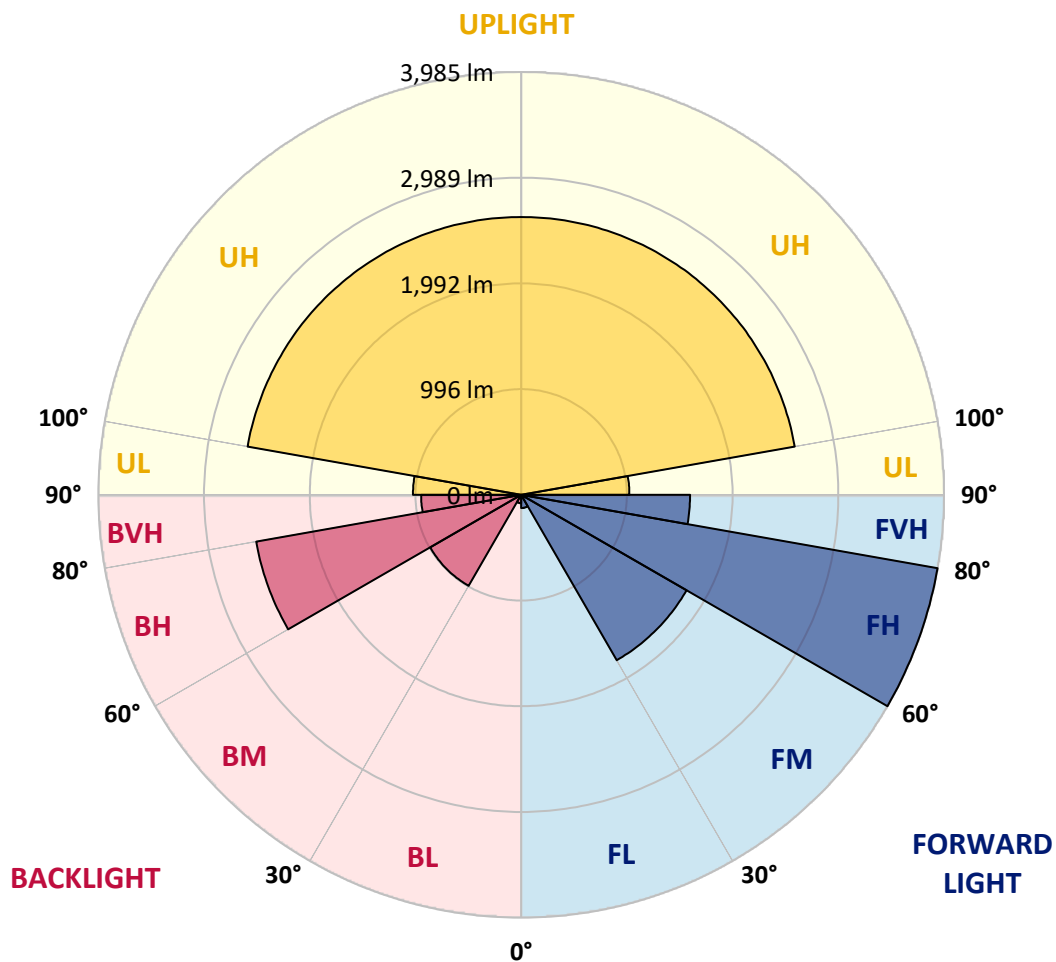
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.8	0.7			
FM (30°-60°)	1800.0	10.3			
FH (60°-80°)	3984.7	22.7			G2/5000
FVH (80°-90°)	1592.0	9.1			G5
BL (0°-30°)	79.1	0.5	B0/110		
BM (30°-60°)	990.7	5.6	B1/1000		
BH (60°-80°)	2535.5	14.5	B4/5000		G4/5000
BVH (80°-90°)	942.7	5.4			G5
UL (90°-100°)	1019.8	5.8		U5	
UH (100°-180°)	2617.9	14.9		U5	

BUG Rating: B4-U5-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	69.9	71.4	69.9	71.4	71.4	71.4	66.6	65.1	65.1	66.6	66.6
5°	82.5	80.9	82.5	82.5	80.9	79.3	77.7	76.2	76.2	79.3	77.7
7.5°	98.4	101.6	101.6	104.7	109.4	109.4	104.7	101.6	98.4	98.4	96.8
10°	125.3	125.3	128.5	131.7	136.5	133.3	131.7	128.5	127.0	125.3	122.2
12.5°	139.6	141.1	149.1	153.9	157.1	150.7	144.4	136.5	134.8	133.3	131.7
15°	165.0	163.4	169.8	182.4	190.4	182.4	168.2	158.7	147.6	150.7	147.6
17.5°	196.7	191.9	185.6	204.7	230.1	239.6	226.9	204.7	171.3	166.5	157.1
20°	198.4	201.5	209.5	241.2	295.1	307.8	285.6	260.2	209.5	199.9	196.7
22.5°	233.2	234.9	233.2	239.6	285.6	355.4	344.3	272.9	236.4	234.9	209.5
25°	268.1	258.6	252.3	303.0	364.9	418.8	436.3	368.1	253.8	242.7	233.2
27.5°	449.0	436.3	387.1	399.8	537.9	679.0	879.0	736.1	407.7	368.1	280.9
30°	558.5	547.3	499.7	496.7	644.1	794.9	1201.1	1044.0	574.4	512.5	377.5
32.5°	534.7	531.5	520.4	556.8	718.7	790.2	1099.5	1088.4	660.0	580.7	445.9
35°	450.6	452.2	477.6	533.1	645.8	650.6	728.3	891.6	614.0	560.1	469.6
37.5°	541.0	534.7	518.8	617.2	826.6	775.8	794.9	1145.5	709.2	628.3	499.7
40°	734.6	728.3	664.7	647.3	879.0	950.4	988.4	1573.9	1045.5	890.1	539.4
42.5°	882.2	864.7	780.6	798.0	1093.2	1115.4	1169.3	1726.2	1350.2	1158.2	704.4
45°	821.9	834.5	836.2	875.7	1194.6	1326.4	1296.2	1762.7	1677.0	1445.4	848.8
47.5°	880.5	840.9	771.1	801.2	1021.8	1266.1	1283.6	1602.5	1686.5	1516.8	950.4
50°	672.7	720.3	755.2	864.7	1080.4	1143.9	1124.9	1389.8	1572.3	1491.4	1055.0
52.5°	877.4	882.2	863.1	1131.2	1329.6	1516.8	1865.8	2370.3	2417.9	2206.9	1385.0
55°	1426.3	1389.8	1277.1	1572.3	1691.3	2624.1	3373.1	4202.8	4577.2	4199.7	2325.9
57.5°	2000.7	1870.6	1737.3	2051.4	2272.0	3580.8	5069.1	5243.7	5975.0	5721.2	3782.4
60°	2414.8	2206.9	2083.2	2484.5	2882.8	3761.8	6065.5	5859.3	7245.9	7174.4	5462.5
62.5°	2532.1	2292.6	2210.1	2644.8	3078.0	3968.1	6246.4	6394.0	8040.8	8126.5	6685.8
65°	2394.2	2189.5	2170.4	2448.1	3012.9	4160.0	6128.9	6006.7	7306.2	7383.9	6485.9
67.5°	2156.1	1997.4	1972.2	2156.1	3011.4	3942.7	5903.6	5299.2	6430.4	6455.8	5859.3
70°	2183.2	2003.9	1948.3	1905.5	2868.5	3742.7	5578.4	4810.5	5811.6	5843.3	5373.7
72.5°	2091.1	1922.9	1878.5	1804.0	2755.9	3566.7	4997.7	4453.5	5435.6	5446.7	5202.4
75°	2157.8	1961.0	1908.6	1805.5	2773.3	3638.1	4831.2	4491.6	5562.6	5537.2	5319.8
77.5°	2148.2	1948.3	1903.9	1813.5	2727.3	3585.6	4396.4	4313.9	5411.9	5337.2	5221.5
80°	2149.8	1943.6	1883.2	1775.3	2625.8	3552.4	4107.7	4155.2	5343.5	5229.3	5173.8
82.5°	2103.8	1878.5	1789.6	1677.0	2451.3	3354.0	3903.0	3834.8	5192.9	5056.4	4977.1
85°	2046.7	1813.5	1685.0	1594.5	2237.1	3049.4	3725.3	3530.2	4986.6	4840.6	4574.1
87.5°	1913.4	1694.5	1523.1	1481.8	2061.0	2602.0	3450.8	3243.0	4586.8	4429.8	3899.7
90°	1486.6	1343.8	1220.0	1258.2	1691.3	1999.1	2673.4	2660.6	3764.9	3611.0	2944.7
92.5°	1040.7	963.0	901.1	972.6	1237.6	1415.2	1775.3	1854.7	2582.9	2465.6	1972.2
95°	699.7	661.6	650.6	701.2	844.0	948.8	1128.0	1178.8	1600.8	1540.6	1240.7
97.5°	553.8	531.5	528.4	556.8	636.3	706.0	802.8	815.6	991.6	955.1	858.3
100°	499.7	485.4	485.4	503.0	547.3	595.0	647.3	641.0	747.2	733.1	698.1
102.5°	458.5	449.0	463.3	488.7	507.7	526.7	553.8	563.3	633.0	628.3	625.2
105°	460.0	455.4	476.0	506.1	518.8	517.3	529.9	536.2	607.6	610.9	623.5
107.5°	472.8	471.3	503.0	536.2	550.5	544.2	526.7	534.7	617.2	629.9	661.6
110°	501.4	507.7	544.2	609.2	634.6	604.5	567.9	574.4	680.6	694.9	731.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	617.2	615.6	636.3	710.8	710.8	674.3	641.0	660.0	766.3	785.4	823.4
115°	764.8	753.7	790.2	806.0	806.0	755.2	720.3	734.6	842.5	861.6	902.8
117.5°	786.9	788.5	864.7	869.4	883.7	852.0	804.3	804.3	936.1	963.0	1039.2
120°	764.8	775.8	863.1	944.1	961.5	932.8	886.8	893.3	1034.4	1067.8	1153.4
122.5°	898.0	921.8	966.2	1088.4	1096.3	1055.0	991.6	1021.8	1169.3	1197.9	1224.8
125°	1055.0	1069.4	1110.6	1220.0	1205.9	1167.7	1115.4	1153.4	1258.2	1278.8	1270.8
127.5°	1166.2	1178.8	1221.7	1278.8	1272.4	1261.3	1188.3	1226.5	1313.7	1329.6	1332.7
130°	1153.4	1164.5	1218.5	1280.4	1302.5	1269.3	1167.7	1182.0	1239.1	1259.7	1283.6
132.5°	1099.5	1105.8	1172.5	1245.4	1256.5	1194.6	1126.5	1123.2	1177.2	1194.6	1210.5
135°	1128.0	1129.7	1170.9	1232.8	1224.8	1167.7	1123.2	1137.5	1185.2	1194.6	1220.0
137.5°	1123.2	1136.0	1164.5	1212.2	1188.3	1145.5	1098.0	1101.1	1142.3	1148.6	1164.5
140°	1098.0	1102.6	1136.0	1134.4	1112.1	1088.4	1107.4	1129.7	1121.7	1115.4	1093.2
142.5°	1091.5	1090.0	1077.3	1085.2	1082.0	1072.6	1070.9	1077.3	1098.0	1102.6	1099.5
145°	953.5	964.7	1004.3	1028.1	1039.2	1039.2	983.6	1012.3	1031.3	1031.3	1012.3
147.5°	905.9	913.9	910.7	905.9	912.2	939.3	948.8	993.2	971.0	967.8	932.8
150°	885.3	879.0	890.1	917.0	947.2	901.1	877.4	869.4	890.1	893.3	899.6
152.5°	790.2	806.0	825.0	874.2	882.2	844.0	801.2	833.0	825.0	823.4	847.3
155°	818.6	817.1	831.4	807.6	817.1	836.2	842.5	855.1	833.0	823.4	794.9
157.5°	790.2	796.5	807.6	764.8	774.3	821.9	820.3	788.5	788.5	780.6	752.0
160°	682.3	672.7	666.4	696.4	704.4	685.4	672.7	655.2	652.1	658.4	677.5
162.5°	552.1	552.1	579.1	614.0	626.7	588.6	558.5	549.0	556.8	564.8	598.1
165°	604.5	598.1	593.3	590.2	583.9	602.9	585.5	547.3	531.5	531.5	537.9
167.5°	523.6	520.4	526.7	514.1	509.3	507.7	512.5	509.3	515.6	514.1	507.7
170°	434.8	433.1	439.4	444.2	444.2	437.9	430.0	415.7	409.4	407.7	406.2
172.5°	406.2	406.2	407.7	409.4	412.5	412.5	404.6	398.2	390.3	390.3	387.1
175°	382.3	384.0	401.4	415.7	415.7	402.9	385.5	385.5	398.2	399.8	407.7
177.5°	388.8	388.8	391.9	398.2	399.8	395.1	395.1	395.1	391.9	393.5	393.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	66.6	66.6	69.9	68.2	68.2	66.6	66.6	68.2	68.2	68.2	68.2
5°	77.7	77.7	80.9	82.5	79.3	77.7	74.6	79.3	79.3	80.9	80.9
7.5°	95.3	95.3	95.3	96.8	96.8	96.8	93.6	95.3	93.6	95.3	92.0
10°	122.2	117.4	115.9	112.7	115.9	114.2	112.7	111.1	112.7	112.7	111.1
12.5°	131.7	125.3	128.5	127.0	122.2	123.7	122.2	120.5	123.7	122.2	122.2
15°	145.9	144.4	144.4	142.8	141.1	141.1	141.1	142.8	144.4	144.4	144.4
17.5°	158.7	155.5	157.1	155.5	158.7	157.1	153.9	155.5	158.7	160.2	158.7
20°	185.6	176.1	171.3	176.1	176.1	176.1	179.3	174.5	176.1	176.1	176.1
22.5°	198.4	193.6	190.4	199.9	199.9	196.7	193.6	195.2	198.4	198.4	196.7
25°	230.1	214.2	204.7	211.0	217.3	209.5	219.0	215.8	212.6	212.6	212.6
27.5°	249.0	245.9	250.7	261.8	271.3	265.0	260.2	261.8	268.1	271.3	272.9
30°	310.9	296.7	301.5	318.9	331.5	323.7	312.6	315.7	336.3	342.7	341.1
32.5°	379.2	352.3	333.2	333.2	344.3	349.1	353.8	360.1	369.7	371.2	371.2
35°	417.2	384.0	358.6	333.2	336.3	355.4	374.5	385.5	379.2	363.4	358.6
37.5°	447.4	422.0	387.1	366.5	387.1	412.5	431.6	437.9	417.2	399.8	393.5
40°	464.8	450.6	437.9	447.4	477.6	490.2	480.7	476.0	491.9	499.7	503.0
42.5°	566.4	536.2	512.5	539.4	564.8	549.0	542.7	552.1	563.3	604.5	610.9
45°	701.2	653.7	604.5	601.3	621.9	623.5	626.7	641.0	650.6	642.6	645.8
47.5°	771.1	715.5	663.2	672.7	691.8	675.8	653.7	653.7	677.5	679.0	688.6
50°	875.7	828.2	737.7	707.7	710.8	744.1	758.3	763.1	706.0	648.9	641.0
52.5°	1093.2	991.6	847.3	842.5	886.8	937.6	950.4	931.3	898.0	850.4	852.0
55°	1537.4	1237.6	1126.5	1250.2	1335.9	1334.4	1291.4	1305.8	1380.3	1412.1	1423.2
57.5°	2433.8	1807.0	1599.3	1746.9	1780.1	1708.7	1691.3	1805.5	1953.1	1930.9	1934.0
60°	3799.8	2754.3	2084.7	2125.9	2146.7	2216.4	2392.5	2500.4	2502.1	2260.9	2233.8
62.5°	4847.0	3387.4	2305.2	2327.5	2579.8	2800.4	2898.7	2859.0	2781.3	2559.2	2516.3
65°	5072.3	3549.1	2327.5	2454.4	2754.3	2825.7	2732.0	2662.3	2636.9	2573.5	2543.3
67.5°	4875.5	3501.6	2371.9	2473.5	2575.0	2560.7	2494.1	2449.6	2483.0	2502.1	2484.5
70°	4648.6	3484.2	2321.1	2224.4	2283.1	2335.4	2286.3	2344.9	2387.7	2378.3	2354.5
72.5°	4547.1	3392.1	2083.2	1970.5	2107.0	2224.4	2230.7	2291.1	2303.7	2275.1	2260.9
75°	4594.8	3335.0	1938.8	1880.1	2078.4	2226.0	2252.9	2262.5	2316.5	2300.5	2305.2
77.5°	4513.8	3274.7	1872.1	1780.1	1968.9	2135.5	2183.2	2191.0	2270.4	2243.4	2254.5
80°	4423.3	3154.1	1815.0	1710.4	1870.6	2010.2	2062.5	2108.5	2216.4	2205.4	2219.7
82.5°	4137.8	2870.1	1689.8	1594.5	1718.2	1819.8	1870.6	1935.6	2054.7	2057.8	2065.8
85°	3665.0	2456.1	1529.4	1489.8	1588.2	1597.7	1605.6	1689.8	1842.0	1883.2	1886.5
87.5°	2989.1	1961.0	1274.0	1305.8	1399.3	1358.1	1331.2	1391.5	1542.2	1615.1	1610.3
90°	2156.1	1408.9	978.9	1017.0	1098.0	1066.1	1055.0	1091.5	1185.2	1248.7	1245.4
92.5°	1408.9	980.5	733.1	748.9	806.0	798.0	815.6	847.3	882.2	905.9	904.4
95°	956.7	729.8	598.1	596.5	625.2	633.0	650.6	674.3	674.3	685.4	679.0
97.5°	720.3	590.2	518.8	523.6	536.2	547.3	564.8	564.8	547.3	550.5	552.1
100°	621.9	534.7	490.2	498.2	509.3	515.6	539.4	525.1	485.4	485.4	487.1
102.5°	588.6	528.4	490.2	487.1	490.2	507.7	536.2	533.1	477.6	472.8	464.8
105°	599.8	563.3	525.1	509.3	509.3	534.7	558.5	567.9	529.9	504.5	496.7
107.5°	655.2	626.7	595.0	574.4	566.4	588.6	614.0	618.7	598.1	583.9	571.2
110°	725.1	702.9	668.0	644.1	642.6	671.2	714.0	717.1	685.4	693.4	690.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	818.6	806.0	763.1	720.3	721.8	807.6	894.8	890.1	858.3	820.3	812.3
115°	913.9	899.6	874.2	848.8	867.9	955.1	1047.2	1055.0	1045.5	951.9	947.2
117.5°	1050.3	1020.1	994.7	983.6	999.5	1064.6	1150.3	1186.8	1172.5	1109.1	1112.1
120°	1166.2	1123.2	1080.4	1061.4	1086.8	1128.0	1210.5	1231.1	1224.8	1155.1	1155.1
122.5°	1218.5	1191.6	1150.3	1132.8	1158.2	1194.6	1231.1	1186.8	1139.2	1099.5	1113.8
125°	1237.6	1210.5	1180.5	1169.3	1153.4	1167.7	1186.8	1137.5	1064.6	1009.0	1009.0
127.5°	1293.0	1270.8	1194.6	1112.1	1082.0	1090.0	1129.7	1104.3	1031.3	951.9	940.8
130°	1269.3	1243.9	1140.8	1048.7	1020.1	1044.0	1053.5	1015.3	988.4	964.7	971.0
132.5°	1186.8	1158.2	1078.9	1034.4	1018.6	1066.1	1069.4	1023.3	966.2	912.2	905.9
135°	1202.6	1161.4	1053.5	1009.0	963.0	1017.0	1056.7	1036.1	929.8	837.7	810.8
137.5°	1151.9	1113.8	1009.0	944.1	950.4	964.7	986.9	991.6	963.0	912.2	902.8
140°	1069.4	1061.4	1026.6	974.1	986.9	996.4	985.3	978.9	1004.3	1021.8	1028.1
142.5°	1070.9	1048.7	996.4	951.9	940.8	964.7	990.1	993.2	977.3	936.1	934.5
145°	999.5	980.5	917.0	852.0	831.4	880.5	921.8	910.7	888.5	840.9	836.2
147.5°	925.0	926.5	905.9	839.3	810.8	855.1	856.8	825.0	834.5	845.6	844.0
150°	894.8	888.5	840.9	836.2	802.8	817.1	850.4	852.0	815.6	772.6	764.8
152.5°	845.6	842.5	810.8	780.6	774.3	794.9	812.3	794.9	782.2	775.8	772.6
155°	793.3	794.9	813.9	821.9	794.9	790.2	774.3	761.5	779.1	801.2	806.0
157.5°	752.0	753.7	774.3	802.8	761.5	756.8	734.6	728.3	750.5	747.2	742.5
160°	690.1	694.9	669.5	639.3	633.0	653.7	672.7	687.0	664.7	642.6	642.6
162.5°	609.2	599.8	577.5	580.7	575.9	569.6	580.7	602.9	599.8	604.5	609.2
165°	545.8	549.0	560.1	542.7	558.5	588.6	569.6	560.1	564.8	566.4	564.8
167.5°	506.1	512.5	526.7	515.6	488.7	490.2	487.1	474.4	463.3	447.4	442.6
170°	404.6	404.6	410.9	417.2	380.8	420.5	414.2	409.4	404.6	401.4	401.4
172.5°	390.3	390.3	393.5	393.5	398.2	396.6	390.3	391.9	390.3	387.1	387.1
175°	409.4	404.6	390.3	376.0	371.2	382.3	388.8	385.5	372.9	360.1	356.9
177.5°	391.9	388.8	385.5	388.8	388.8	385.5	384.0	382.3	382.3	384.0	385.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5

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