

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: P14207

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-X-6-X-BK-5700**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14207  
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-6-X-BK-5700  
Description: STREETWORKS POST TOP WITH A TYPE III SOLID TOP  
PRISMATIC REFRACTOR  
Light Source: [6] 5700K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13430.1 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - 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

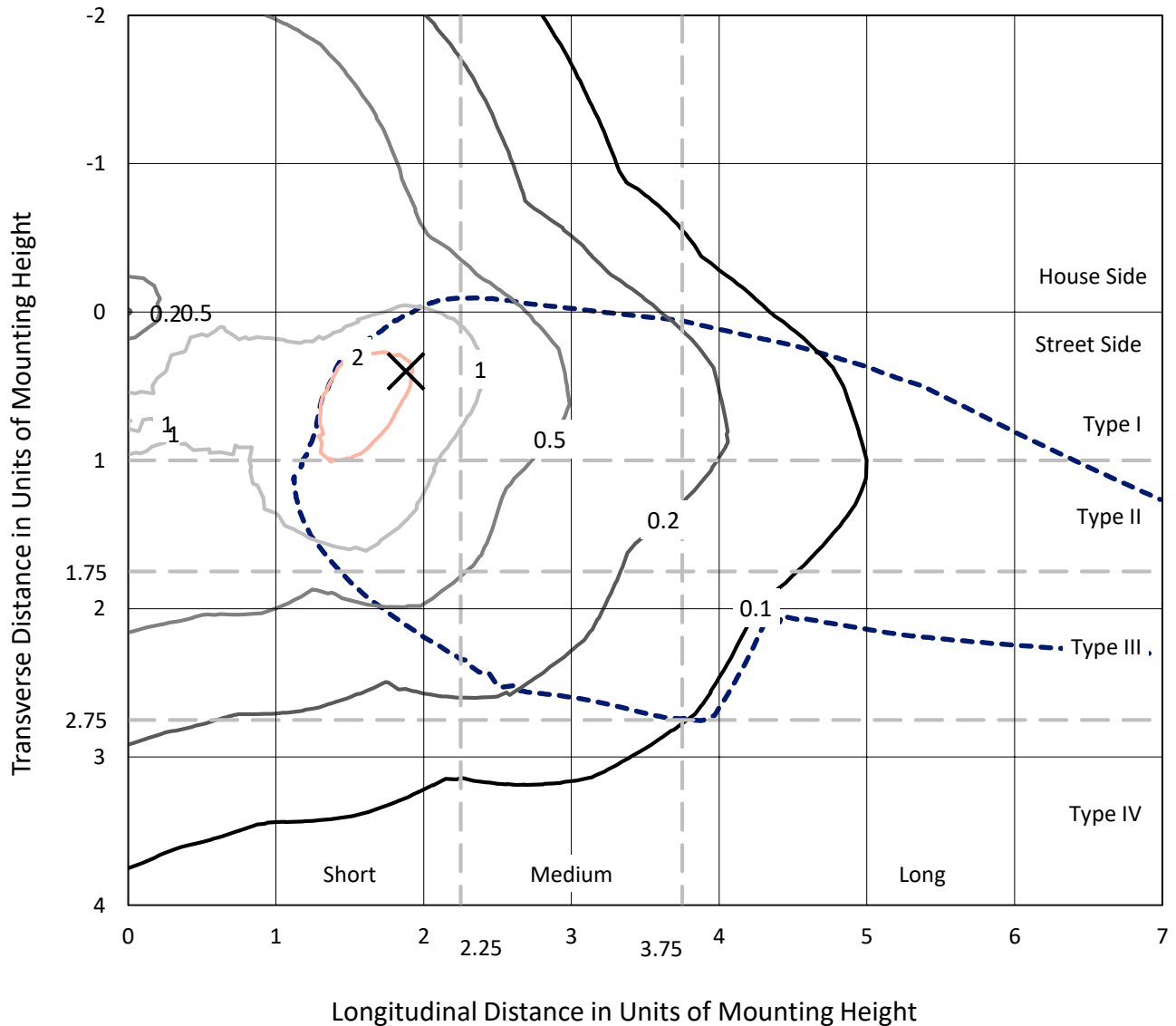


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

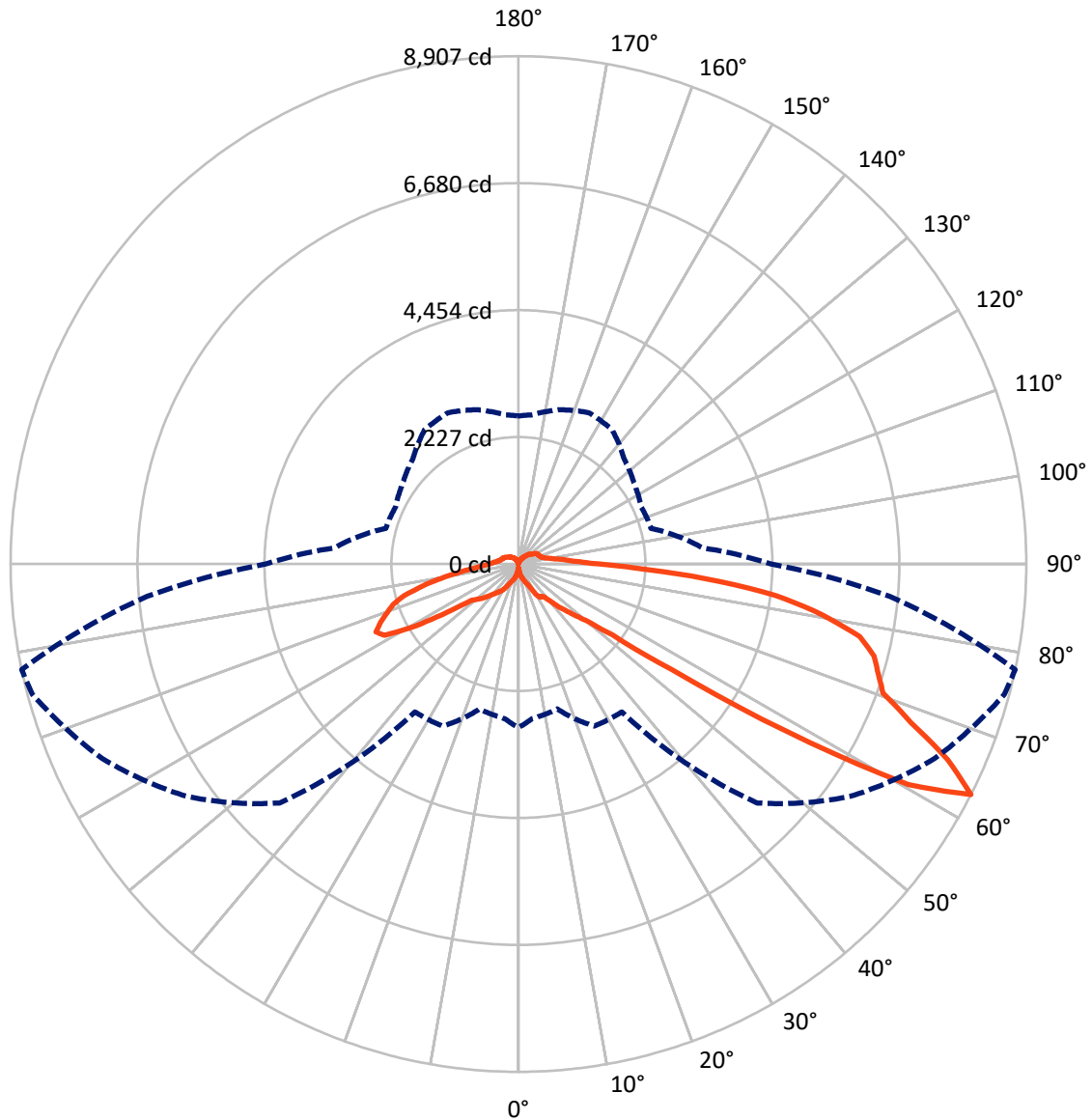


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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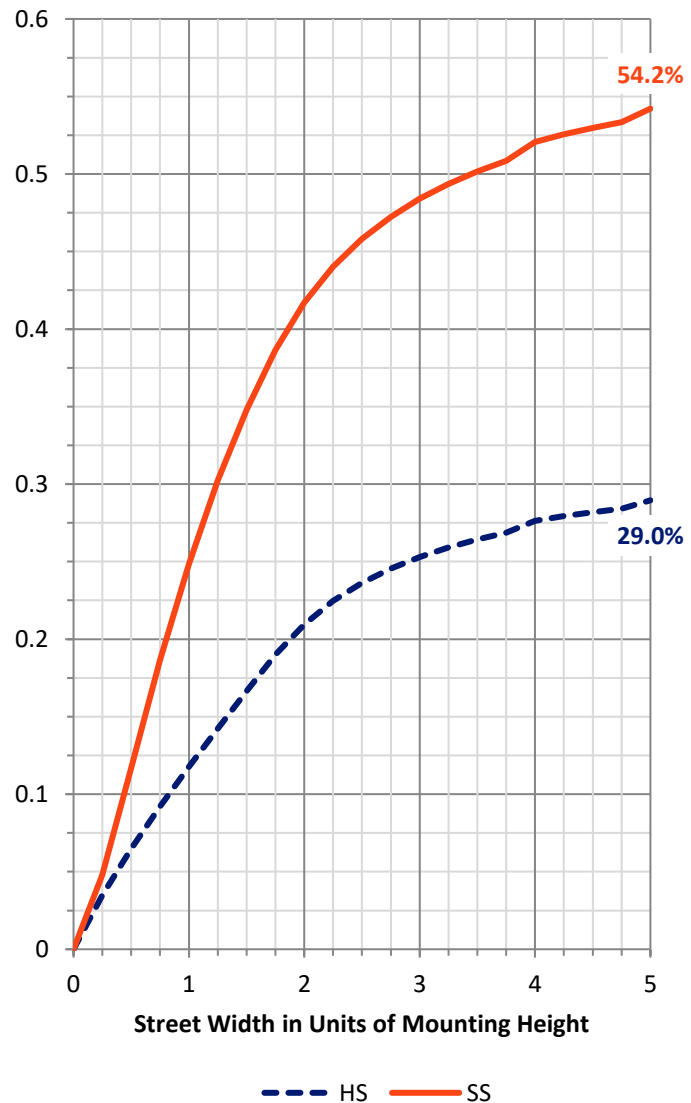
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4090.9	742.2	4833.1
	% Fixture	30.5	5.5	36.0
<b>Street Side</b>	Lumens	7662.2	934.8	8597.1
	% Fixture	57.1	7.0	64.0
<b>Total</b>	Lumens	11753.1	1677.0	13430.1
	% Fixture	87.5	12.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	0.1
10°-20°	76.2	0.6
20°-30°	212.4	1.6
30°-40°	452.7	3.4
40°-50°	806.7	6.0
50°-60°	1914.4	14.3
60°-70°	3767.9	28.1
70°-80°	3029.1	22.6
80°-90°	1480.1	11.0
90°-100°	551.7	4.1
100°-110°	358.3	2.7
110°-120°	296.9	2.2
120°-130°	209.3	1.6
130°-140°	135.6	1.0
140°-150°	78.6	0.6
150°-160°	35.5	0.3
160°-170°	10.1	0.1
170°-180°	1.0	0.0
0°-90°	11753.1	87.5
0°-180°	13430.1	100.0



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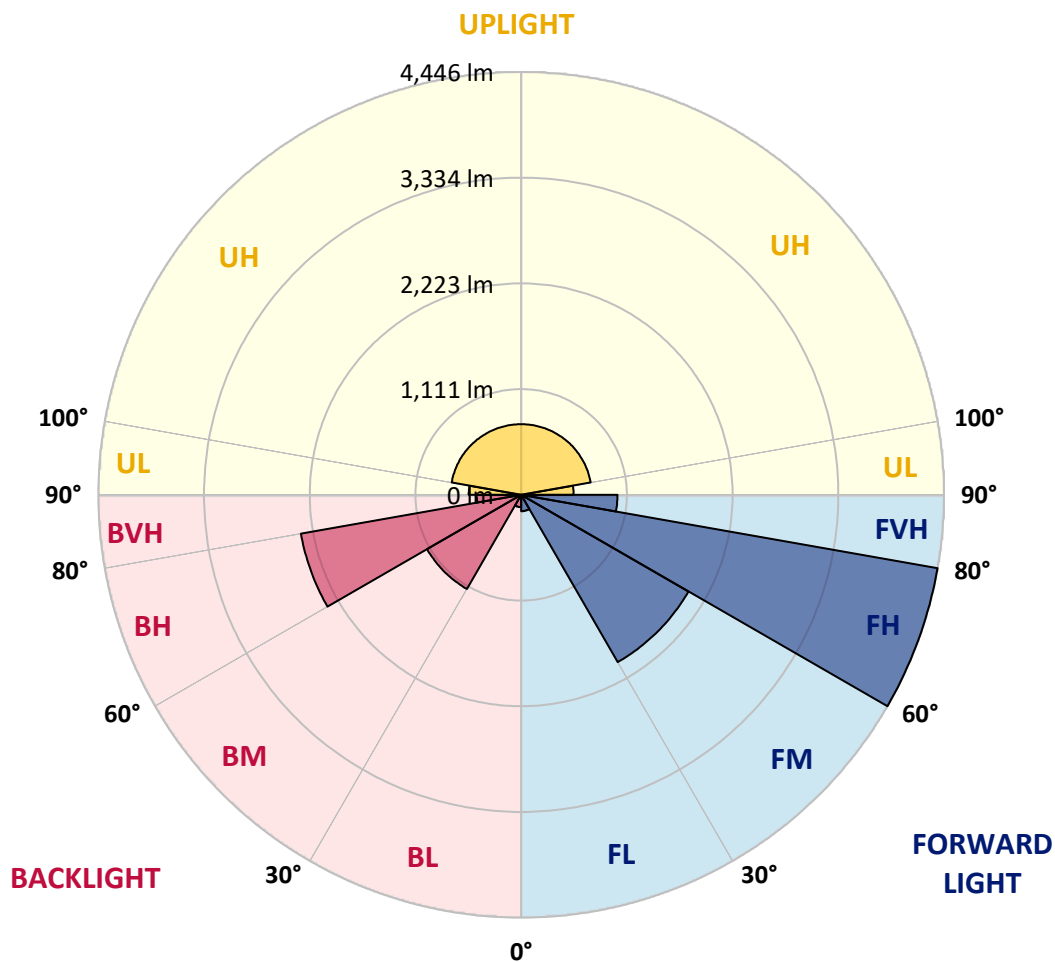
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.5	1.3			
FM (30°-60°)	2031.2	15.1			
FH (60°-80°)	4446.0	33.1			G2/5000
FVH (80°-90°)	1012.4	7.5			G5
BL (0°-30°)	129.7	1.0	B1/500		
BM (30°-60°)	1142.6	8.5	B2/2500		
BH (60°-80°)	2351.0	17.5	B3/2500		G3/2500
BVH (80°-90°)	467.6	3.5			G3/500
UL (90°-100°)	551.7	4.1		U4/1000	
UH (100°-180°)	742.2	5.5		U4/1000	

**BUG Rating: B3-U5-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	88.8	88.8	90.5	88.8	87.3	87.3	85.7	84.0	84.0	82.5	85.7
5°	120.5	120.5	122.2	120.5	120.5	120.5	115.9	112.7	112.7	112.7	117.4
7.5°	168.2	168.2	171.3	166.5	169.8	168.2	168.2	161.8	155.5	155.5	153.9
10°	222.1	220.5	222.1	223.8	219.0	215.8	209.5	206.2	201.5	203.0	196.7
12.5°	257.0	260.2	260.2	260.2	255.5	249.0	239.6	236.4	230.1	228.4	228.4
15°	290.3	292.0	290.3	293.5	292.0	279.2	272.9	265.0	260.2	257.0	255.5
17.5°	328.4	334.8	328.4	333.2	338.0	341.1	344.3	315.7	296.7	292.0	292.0
20°	358.6	356.9	363.4	372.9	398.2	395.1	376.0	364.9	342.7	338.0	333.2
22.5°	412.5	409.4	409.4	420.5	469.6	506.1	461.7	410.9	372.9	366.5	358.6
25°	449.0	441.1	453.7	493.4	525.1	561.6	510.8	458.5	415.7	414.2	409.4
27.5°	553.8	552.1	541.0	583.9	706.0	772.6	734.6	653.7	526.7	506.1	460.0
30°	706.0	701.2	669.5	712.4	847.3	993.2	1109.1	918.7	680.6	636.3	541.0
32.5°	764.8	763.1	739.4	774.3	909.1	1059.8	1234.3	980.5	729.8	696.4	623.5
35°	771.1	756.8	744.1	791.7	834.5	966.2	1172.5	934.5	717.1	694.9	669.5
37.5°	764.8	763.1	772.6	850.4	928.2	974.1	1142.3	994.7	758.3	729.8	706.0
40°	925.0	915.4	869.4	896.4	1015.3	1061.4	1329.6	1337.5	923.4	847.3	739.4
42.5°	1044.0	1044.0	996.4	1034.4	1212.2	1253.4	1507.2	1680.2	1118.6	1012.3	844.0
45°	1109.1	1118.6	1072.6	1118.6	1332.7	1337.5	1499.4	1934.0	1304.2	1156.6	940.8
47.5°	1191.6	1183.6	1128.0	1186.8	1469.2	1532.6	1629.4	2362.4	1585.0	1355.0	1056.7
50°	1107.4	1096.3	1096.3	1137.5	1372.4	1480.3	1518.3	2141.9	1818.3	1580.2	1191.6
52.5°	1123.2	1158.2	1189.9	1332.7	1597.7	1896.0	1886.5	2465.6	2402.1	2061.0	1437.5
55°	1464.4	1499.4	1466.0	1651.6	1962.6	2841.6	3020.9	4023.6	3863.3	3255.6	1973.7
57.5°	2089.5	2114.9	1962.6	2178.4	2337.1	4310.7	5088.2	6700.1	6503.4	5524.4	3041.5
60°	2617.8	2535.3	2400.5	2717.9	2811.4	5261.1	6576.3	7936.1	8439.0	7858.3	4710.5
62.5°	2870.1	2722.6	2632.1	3138.2	3165.3	5925.9	7104.7	8061.4	8826.2	8907.0	6539.9
65°	2702.0	2546.4	2490.9	3011.4	3047.8	6224.2	6920.6	7053.9	8010.6	8269.2	7171.4
67.5°	2476.7	2341.7	2279.9	2767.0	2900.2	6065.5	6693.8	6135.3	7258.6	7426.7	6719.2
70°	2375.1	2214.9	2119.6	2481.5	2721.0	5356.3	6052.8	5368.9	6597.0	6784.1	5997.2
72.5°	2291.1	2125.9	2035.6	2360.8	2595.7	4666.2	5359.4	4885.1	6314.6	6600.2	5810.0
75°	2341.7	2132.4	2008.6	2318.0	2484.5	4279.0	4902.6	4663.0	6082.9	6441.5	5675.2
77.5°	2275.1	2056.2	1878.5	2154.6	2205.4	3718.9	4569.4	4494.7	5875.1	6117.9	5107.1
80°	2030.8	1853.1	1667.5	1911.8	1826.1	3019.2	3931.6	4069.6	5327.7	5405.4	4131.5
82.5°	1697.6	1591.4	1396.2	1602.5	1470.7	2279.9	3252.5	3560.2	4683.6	4558.3	3076.3
85°	1177.2	1159.8	1028.1	1204.2	1102.6	1570.6	2146.7	2559.2	3496.8	3293.8	1988.0
87.5°	782.2	790.2	723.5	826.6	802.8	1055.0	1264.5	1524.8	2205.4	2038.8	1285.1
90°	601.3	593.3	561.6	628.3	650.6	825.0	929.8	983.6	1321.6	1266.1	942.4
92.5°	526.7	515.6	488.7	539.4	563.3	704.4	785.4	769.5	978.9	961.5	750.5
95°	482.3	471.3	450.6	495.0	499.7	614.0	694.9	663.2	806.0	799.7	648.9
97.5°	431.6	422.0	402.9	436.3	439.4	537.9	598.1	564.8	642.6	641.0	534.7
100°	390.3	385.5	368.1	393.5	395.1	472.8	526.7	490.2	544.2	550.5	477.6
102.5°	352.3	349.1	336.3	355.4	356.9	414.2	460.0	422.0	469.6	476.0	425.2
105°	326.9	320.4	310.9	331.5	333.2	384.0	415.7	377.5	428.3	437.9	393.5
107.5°	303.0	299.8	298.3	323.7	318.9	360.1	379.2	347.5	395.1	406.2	372.9
110°	285.6	282.4	284.0	303.0	303.0	347.5	360.1	342.7	388.8	395.1	369.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
112.5°	272.9	271.3	268.1	285.6	287.2	350.6	360.1	349.1	390.3	398.2	369.7
115°	268.1	261.8	253.8	269.7	263.3	333.2	339.5	334.8	371.2	376.0	345.8
117.5°	252.3	250.7	247.5	255.5	258.6	325.2	331.5	331.5	368.1	376.0	347.5
120°	234.9	236.4	234.9	249.0	245.9	309.4	312.6	317.4	353.8	364.9	339.5
122.5°	222.1	220.5	219.0	228.4	231.6	284.0	287.2	298.3	330.0	334.8	310.9
125°	204.7	203.0	203.0	206.2	219.0	261.8	263.3	271.3	298.3	301.5	277.7
127.5°	195.2	193.6	193.6	199.9	209.5	249.0	250.7	253.8	274.4	279.2	265.0
130°	185.6	184.1	182.4	187.2	201.5	239.6	237.9	244.4	263.3	268.1	247.5
132.5°	173.0	173.0	169.8	177.8	191.9	225.3	220.5	228.4	247.5	244.4	226.9
135°	160.2	161.8	160.2	163.4	176.1	201.5	201.5	206.2	222.1	217.3	203.0
137.5°	145.9	144.4	144.4	145.9	157.1	177.8	180.8	185.6	190.4	185.6	176.1
140°	142.8	145.9	141.1	142.8	152.4	169.8	173.0	177.8	176.1	173.0	161.8
142.5°	136.5	133.3	128.5	130.1	141.1	157.1	161.8	161.8	155.5	150.7	142.8
145°	119.0	119.0	117.4	120.5	133.3	142.8	149.1	145.9	136.5	131.7	128.5
147.5°	107.9	104.7	104.7	112.7	122.2	133.3	133.3	128.5	119.0	117.4	114.2
150°	96.8	96.8	95.3	103.1	112.7	119.0	119.0	117.4	107.9	103.1	99.9
152.5°	85.7	87.3	87.3	96.8	101.6	111.1	104.7	98.4	92.0	87.3	84.0
155°	74.6	71.4	73.0	80.9	87.3	85.7	84.0	77.7	73.0	71.4	71.4
157.5°	68.2	65.1	68.2	74.6	77.7	77.7	73.0	68.2	63.4	61.9	65.1
160°	55.6	57.1	58.6	63.4	65.1	63.4	61.9	57.1	52.3	53.9	53.9
162.5°	46.0	47.6	47.6	50.8	52.3	49.2	47.6	42.8	41.2	44.5	41.2
165°	36.5	38.0	38.0	39.7	41.2	36.5	33.3	30.2	31.7	30.2	31.7
167.5°	26.9	26.9	28.6	28.6	28.6	25.4	20.6	22.2	22.2	20.6	22.2
170°	17.4	19.1	19.1	17.4	17.4	14.3	12.6	11.1	12.6	11.1	12.6
172.5°	12.6	11.1	12.6	11.1	11.1	9.5	9.5	9.5	8.0	8.0	8.0
175°	14.3	12.6	11.1	12.6	11.1	11.1	8.0	8.0	8.0	9.5	8.0
177.5°	12.6	9.5	11.1	11.1	9.5	8.0	8.0	6.3	6.3	8.0	8.0
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	82.5	85.7	84.0	84.0	84.0	80.9	82.5	84.0	82.5	80.9	85.7
5°	112.7	115.9	114.2	114.2	114.2	111.1	109.4	107.9	107.9	109.4	107.9
7.5°	152.4	150.7	149.1	145.9	144.4	142.8	141.1	141.1	139.6	139.6	142.8
10°	195.2	190.4	188.8	184.1	180.8	179.3	177.8	177.8	177.8	179.3	174.5
12.5°	223.8	219.0	217.3	212.6	207.8	204.7	203.0	203.0	203.0	204.7	206.2
15°	253.8	252.3	247.5	241.2	234.9	234.9	231.6	231.6	234.9	236.4	233.2
17.5°	285.6	284.0	279.2	271.3	268.1	265.0	265.0	263.3	266.6	269.7	269.7
20°	320.4	310.9	304.6	299.8	296.7	292.0	293.5	292.0	296.7	298.3	296.7
22.5°	355.4	350.6	341.1	334.8	333.2	323.7	323.7	325.2	328.4	331.5	333.2
25°	395.1	384.0	374.5	368.1	356.9	355.4	358.6	358.6	364.9	364.9	361.7
27.5°	442.6	437.9	431.6	423.6	414.2	410.9	409.4	414.2	417.2	415.7	415.7
30°	501.4	495.0	498.2	493.4	487.1	469.6	464.8	471.3	479.1	483.9	482.3
32.5°	575.9	564.8	544.2	534.7	522.0	517.3	514.1	518.8	528.4	537.9	537.9
35°	626.7	609.2	582.2	545.8	531.5	531.5	542.7	550.5	558.5	556.8	560.1
37.5°	672.7	660.0	620.4	572.7	563.3	572.7	595.0	606.1	604.5	588.6	583.9
40°	720.3	710.8	669.5	634.6	633.0	634.6	639.3	655.2	664.7	669.5	669.5
42.5°	791.7	777.4	723.5	698.1	698.1	690.1	698.1	715.5	740.9	760.0	761.5
45°	879.0	863.1	783.7	739.4	739.4	739.4	764.8	791.7	807.6	802.8	799.7
47.5°	975.8	955.1	856.8	818.6	825.0	807.6	833.0	856.8	893.3	899.6	904.4
50°	1067.8	1034.4	913.9	853.6	844.0	853.6	894.8	921.8	929.8	925.0	926.5
52.5°	1229.6	1151.9	977.3	929.8	937.6	974.1	1026.6	1048.7	1045.5	1023.3	1021.8
55°	1573.9	1397.8	1220.0	1223.3	1253.4	1305.8	1367.6	1386.7	1415.2	1391.5	1410.4
57.5°	2189.5	1851.5	1635.7	1729.3	1767.5	1770.6	1815.0	1869.0	1967.4	2015.0	2032.4
60°	3174.7	2509.9	2080.1	2156.1	2203.8	2233.8	2379.9	2473.5	2479.8	2429.0	2429.0
62.5°	4428.1	3239.8	2408.4	2375.1	2475.0	2616.3	2870.1	2927.2	2800.4	2624.1	2595.7
65°	5127.8	3598.4	2413.1	2394.2	2579.8	2752.7	2974.9	2927.2	2775.0	2619.4	2598.8
67.5°	5058.0	3538.0	2232.3	2270.4	2476.7	2582.9	2703.5	2632.1	2576.6	2452.8	2463.9
70°	4659.7	3339.8	2089.5	2094.2	2180.0	2233.8	2349.7	2335.4	2365.6	2230.7	2238.6
72.5°	4396.4	3122.3	1970.5	1924.5	1932.5	2007.0	2162.6	2202.1	2241.8	2095.9	2092.7
75°	4112.4	2792.4	1773.8	1716.7	1746.9	1807.0	1943.6	1994.3	2056.2	1937.2	1937.2
77.5°	3393.7	2219.7	1518.3	1540.6	1585.0	1589.7	1640.5	1708.7	1794.4	1729.3	1724.6
80°	2544.9	1665.9	1255.0	1316.8	1369.2	1302.5	1297.8	1350.2	1446.9	1435.8	1443.8
82.5°	1789.6	1178.8	985.3	1066.1	1124.9	1037.6	1007.5	1021.8	1096.3	1109.1	1115.4
85°	1196.3	861.6	753.7	785.4	810.8	763.1	750.5	753.7	772.6	758.3	760.0
87.5°	886.8	677.5	601.3	606.1	599.8	575.9	577.5	582.2	580.7	561.6	558.5
90°	685.4	545.8	514.1	514.1	499.7	487.1	488.7	496.7	495.0	483.9	485.4
92.5°	569.6	468.0	460.0	457.0	439.4	433.1	442.6	449.0	445.9	436.3	431.6
95°	510.8	431.6	418.8	409.4	393.5	390.3	396.6	401.4	401.4	391.9	391.9
97.5°	441.1	382.3	372.9	361.7	341.1	341.1	345.8	347.5	349.1	344.3	339.5
100°	393.5	350.6	347.5	331.5	317.4	317.4	322.1	325.2	325.2	317.4	315.7
102.5°	363.4	326.9	325.2	310.9	299.8	298.3	303.0	306.3	303.0	298.3	303.0
105°	344.3	310.9	309.4	298.3	290.3	288.7	293.5	295.1	295.1	287.2	285.6
107.5°	331.5	303.0	295.1	290.3	280.9	280.9	290.3	292.0	292.0	280.9	280.9
110°	325.2	296.7	287.2	285.6	285.6	287.2	298.3	304.6	307.8	296.7	298.3



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	328.4	296.7	284.0	292.0	296.7	306.3	318.9	326.9	331.5	320.4	318.9
115°	306.3	271.3	263.3	272.9	292.0	299.8	309.4	307.8	310.9	303.0	303.0
117.5°	299.8	266.6	253.8	263.3	277.7	277.7	280.9	277.7	279.2	271.3	271.3
120°	288.7	261.8	236.4	242.7	245.9	247.5	247.5	245.9	245.9	239.6	236.4
122.5°	274.4	247.5	225.3	230.1	230.1	228.4	230.1	228.4	228.4	222.1	219.0
125°	253.8	230.1	209.5	214.2	214.2	211.0	209.5	209.5	209.5	206.2	209.5
127.5°	241.2	219.0	198.4	196.7	199.9	199.9	199.9	198.4	196.7	195.2	195.2
130°	230.1	209.5	187.2	187.2	185.6	187.2	185.6	184.1	184.1	182.4	182.4
132.5°	214.2	196.7	173.0	173.0	173.0	171.3	171.3	169.8	168.2	168.2	166.5
135°	196.7	180.8	161.8	160.2	161.8	160.2	158.7	157.1	157.1	155.5	157.1
137.5°	168.2	160.2	145.9	141.1	139.6	141.1	139.6	138.1	139.6	136.5	136.5
140°	160.2	152.4	142.8	136.5	134.8	134.8	133.3	136.5	134.8	136.5	136.5
142.5°	141.1	141.1	131.7	127.0	127.0	128.5	122.2	122.2	122.2	122.2	122.2
145°	131.7	131.7	125.3	117.4	115.9	112.7	111.1	111.1	111.1	109.4	114.2
147.5°	115.9	117.4	114.2	107.9	101.6	98.4	98.4	96.8	96.8	98.4	96.8
150°	103.1	104.7	101.6	95.3	90.5	87.3	87.3	84.0	85.7	84.0	85.7
152.5°	87.3	88.8	87.3	82.5	80.9	77.7	76.2	74.6	76.2	73.0	73.0
155°	69.9	71.4	73.0	69.9	65.1	61.9	60.3	60.3	61.9	60.3	60.3
157.5°	63.4	63.4	65.1	63.4	60.3	57.1	58.6	57.1	55.6	57.1	57.1
160°	53.9	52.3	55.6	53.9	52.3	49.2	52.3	49.2	47.6	46.0	49.2
162.5°	42.8	41.2	42.8	42.8	42.8	41.2	39.7	38.0	38.0	36.5	34.9
165°	31.7	31.7	33.3	33.3	33.3	31.7	30.2	28.6	30.2	30.2	28.6
167.5°	20.6	22.2	22.2	22.2	22.2	20.6	22.2	19.1	20.6	19.1	19.1
170°	12.6	12.6	14.3	14.3	14.3	12.6	12.6	11.1	11.1	11.1	11.1
172.5°	8.0	8.0	11.1	12.6	11.1	9.5	8.0	6.3	8.0	8.0	9.5
175°	9.5	11.1	12.6	11.1	12.6	11.1	8.0	8.0	8.0	8.0	9.5
177.5°	6.3	9.5	8.0	9.5	11.1	9.5	8.0	6.3	8.0	6.3	6.3
180°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5

(END OF REPORT)