

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**

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  
Description: STREETWORKS POST TOP WITH A TYPE III PRISMATIC REFRACTOR  
Light Source: [6] 4000K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18121.6 lumens  
Efficiency: N/A  
Efficacy: 178.9 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 (A<sub>in</sub>): 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

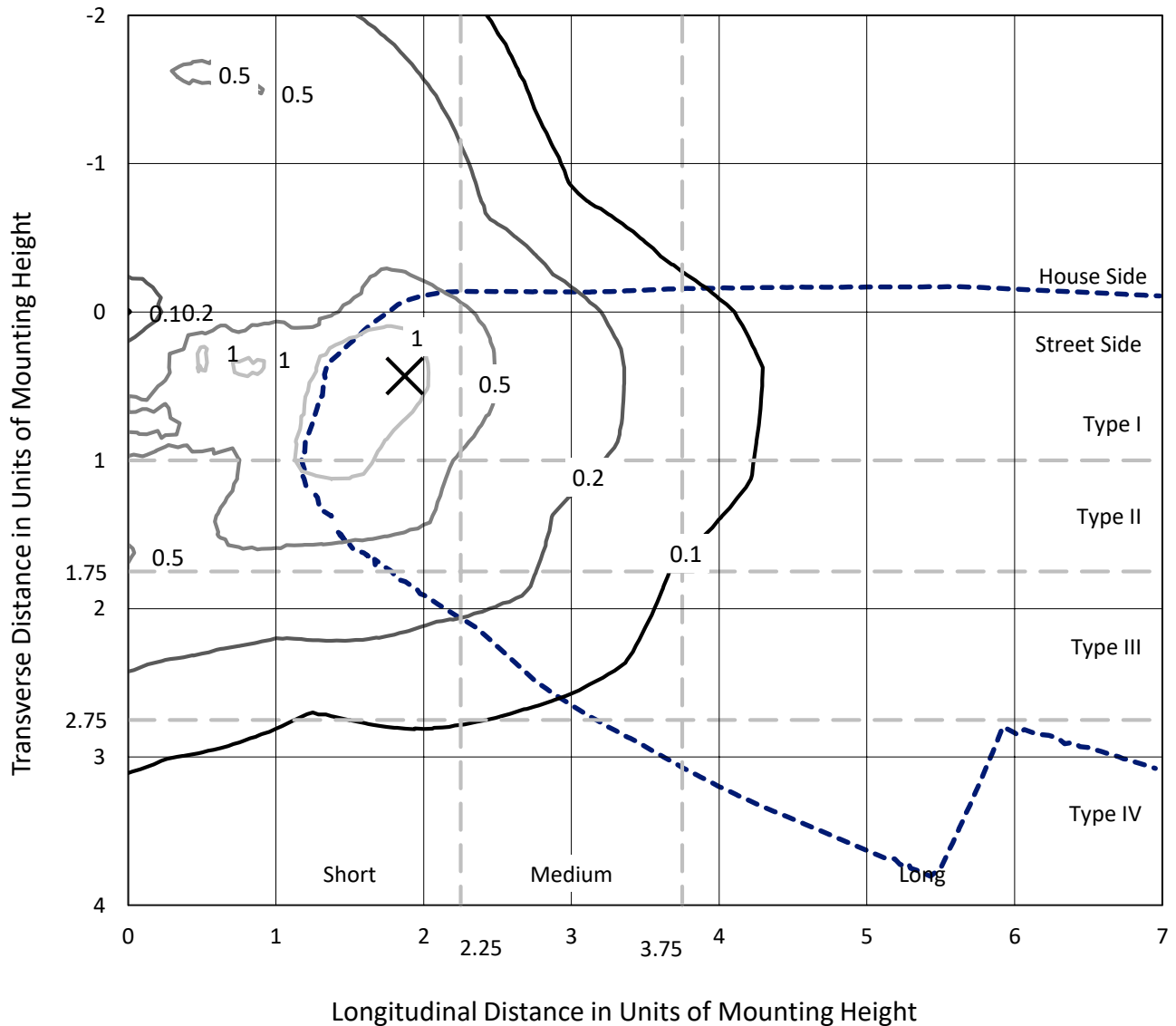


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

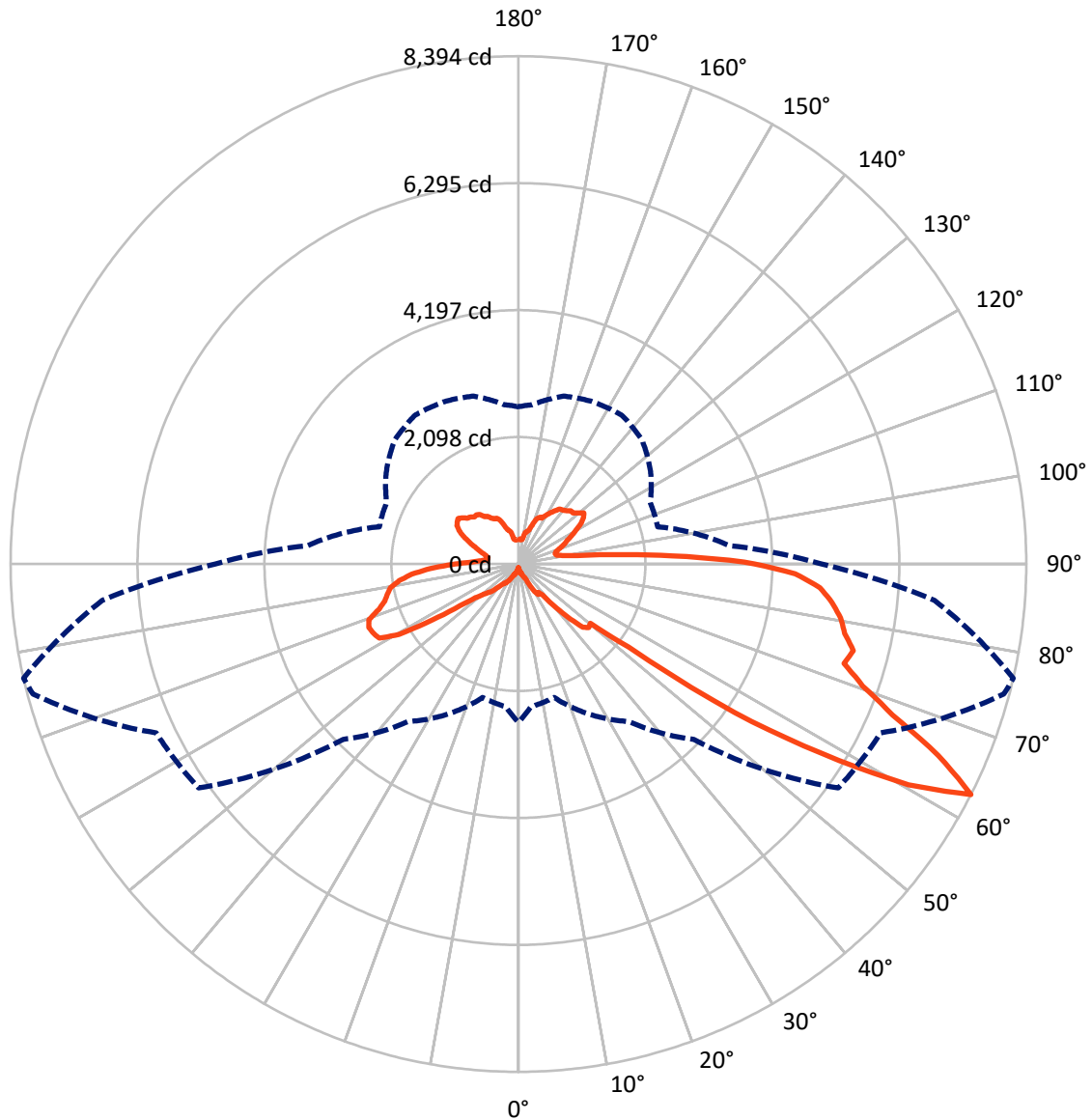


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - Non-Cutoff

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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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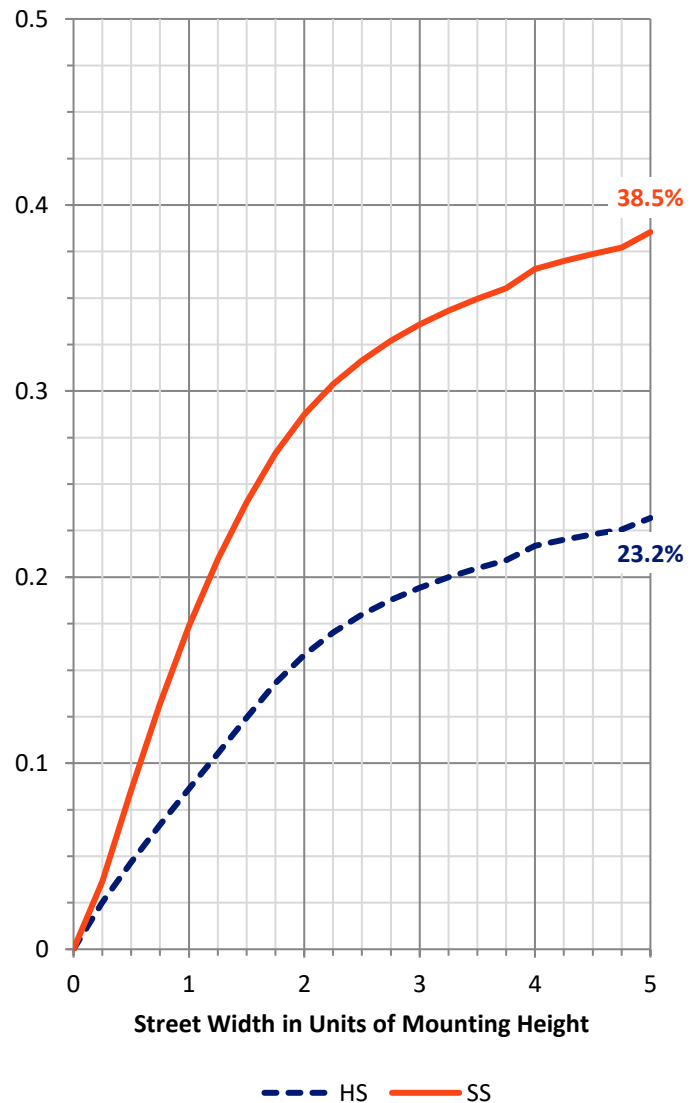
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4697.8	2704.0	7401.8
	% Fixture	25.9	14.9	40.8
<b>Street Side</b>	Lumens	7748.5	2971.3	10719.8
	% Fixture	42.8	16.4	59.2
<b>Total</b>	Lumens	12446.3	5675.4	18121.6
	% Fixture	68.7	31.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.3	0.1
10°-20°	47.8	0.3
20°-30°	153.6	0.8
30°-40°	352.7	1.9
40°-50°	683.4	3.8
50°-60°	1846.5	10.2
60°-70°	3539.0	19.5
70°-80°	3195.9	17.6
80°-90°	2618.2	14.4
90°-100°	1053.4	5.8
100°-110°	606.6	3.3
110°-120°	878.9	4.8
120°-130°	1052.1	5.8
130°-140°	874.6	4.8
140°-150°	625.7	3.5
150°-160°	380.5	2.1
160°-170°	164.1	0.9
170°-180°	39.4	0.2
0°-90°	12446.3	68.7
0°-180°	18121.6	100.0

**Coefficient of Utilization**



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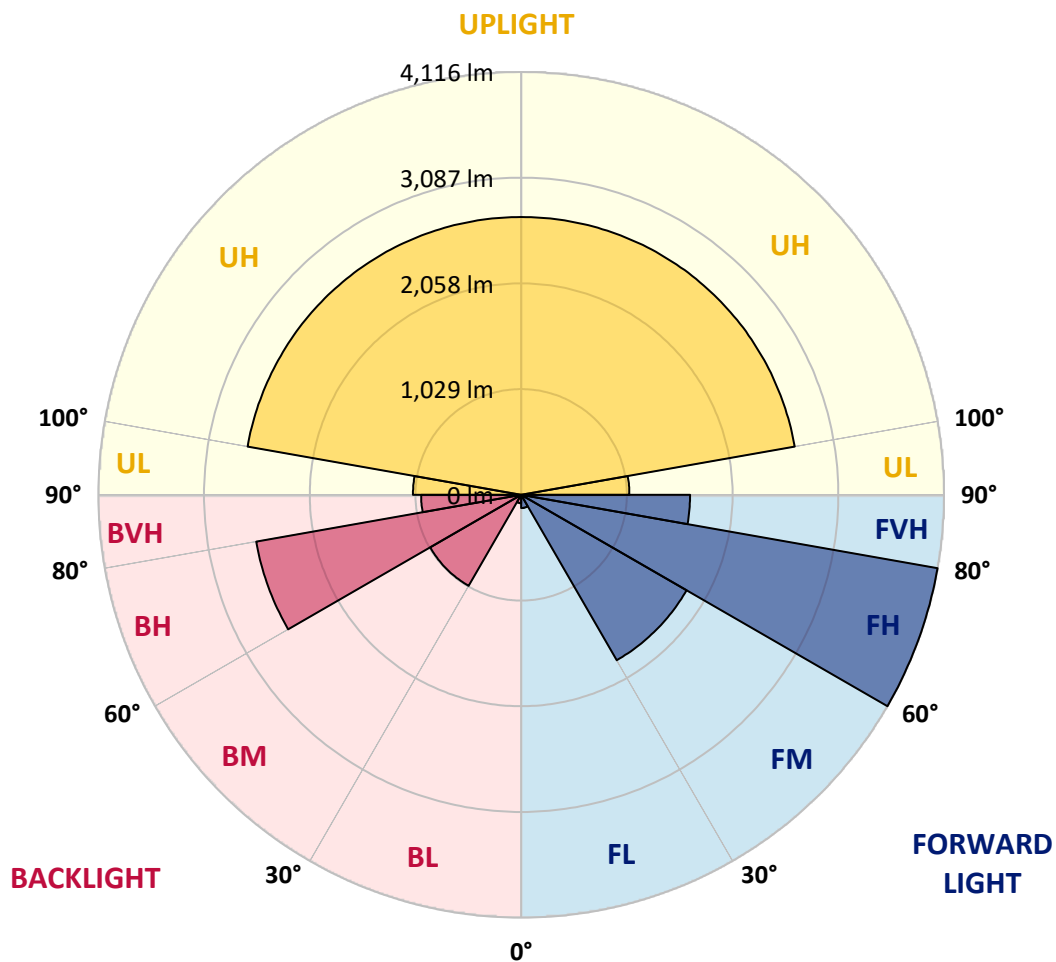
CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-X-1-X-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.9	0.7			
FM	(30°-60°)	1859.3	10.3			
FH	(60°-80°)	4115.9	22.7			G2/5000
FVH	(80°-90°)	1644.4	9.1			G5
BL	(0°-30°)	81.7	0.5	B0/110		
BM	(30°-60°)	1023.4	5.6	B2/2500		
BH	(60°-80°)	2618.9	14.5	B4/5000		G4/5000
BVH	(80°-90°)	973.8	5.4			G5
UL	(90°-100°)	1053.4	5.8		U5	
UH	(100°-180°)	2704.0	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°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	72.1	73.7	72.1	73.7	73.7	73.7	68.8	67.2	67.2	68.8	68.8
5°	85.2	83.6	85.2	85.2	83.6	81.9	80.3	78.7	78.7	81.9	80.3
7.5°	101.6	104.9	104.9	108.2	113.1	113.1	108.2	104.9	101.6	101.6	100.0
10°	129.5	129.5	132.7	136.0	140.9	137.7	136.0	132.7	131.1	129.5	126.2
12.5°	144.2	145.9	154.0	159.0	162.2	155.7	149.1	140.9	139.3	137.7	136.0
15°	170.4	168.8	175.4	188.5	196.7	188.5	173.7	163.9	152.4	155.7	152.4
17.5°	203.2	198.3	191.7	211.4	237.6	247.5	234.3	211.4	177.0	172.1	162.2
20°	204.8	208.1	216.3	249.1	304.8	317.9	295.0	268.8	216.3	206.5	203.2
22.5°	240.9	242.5	240.9	247.5	295.0	367.1	355.6	281.9	244.2	242.5	216.3
25°	277.0	267.1	260.6	313.0	376.9	432.6	450.7	380.2	262.2	250.7	240.9
27.5°	463.8	450.7	399.9	413.0	555.6	701.4	907.9	760.4	421.2	380.2	290.1
30°	576.9	565.4	516.2	512.9	665.4	821.0	1240.6	1078.3	593.2	529.3	390.0
32.5°	552.3	549.0	537.5	575.2	742.4	816.1	1135.7	1124.2	681.7	599.8	460.5
35°	465.4	467.1	493.3	550.6	667.0	671.9	752.2	921.0	634.2	578.5	485.1
37.5°	558.8	552.3	535.9	637.5	853.8	801.4	821.0	1183.2	732.5	649.0	516.2
40°	758.8	752.2	686.7	668.6	907.9	981.6	1021.0	1625.7	1080.0	919.4	557.2
42.5°	911.2	893.1	806.3	824.3	1129.1	1152.1	1207.8	1783.0	1394.6	1196.3	727.6
45°	848.9	862.0	863.6	904.6	1234.0	1370.0	1338.9	1820.7	1732.2	1492.9	876.8
47.5°	909.5	868.6	796.5	827.6	1055.4	1307.8	1325.8	1655.2	1742.0	1566.7	981.6
50°	694.9	744.0	780.1	893.1	1116.0	1181.6	1161.9	1435.6	1624.1	1540.5	1089.8
52.5°	906.3	911.2	891.5	1168.5	1373.3	1566.7	1927.2	2448.4	2497.5	2279.6	1430.7
55°	1473.3	1435.6	1319.2	1624.1	1747.0	2710.6	3484.1	4341.2	4727.9	4337.9	2402.5
57.5°	2066.5	1932.1	1794.5	2119.0	2346.8	3698.8	5236.0	5416.2	6171.7	5909.5	3906.9
60°	2494.3	2279.6	2151.7	2566.4	2977.7	3885.6	6265.1	6052.1	7484.4	7410.7	5642.4
62.5°	2615.5	2368.1	2282.8	2731.9	3179.3	4098.6	6452.0	6604.4	8305.4	8393.9	6905.9
65°	2472.9	2261.5	2241.9	2528.7	3112.1	4296.9	6330.7	6204.5	7546.7	7627.0	6699.4
67.5°	2227.1	2063.2	2037.0	2227.1	3110.4	4072.4	6098.0	5473.6	6642.1	6668.3	6052.1
70°	2255.0	2069.8	2012.4	1968.2	2963.0	3865.9	5762.0	4968.8	6002.9	6035.7	5550.6
72.5°	2159.9	1986.2	1940.3	1863.3	2846.6	3684.0	5162.2	4600.1	5614.5	5626.0	5373.6
75°	2228.8	2025.6	1971.5	1865.0	2864.6	3757.8	4990.1	4639.4	5745.6	5719.4	5494.9
77.5°	2218.9	2012.4	1966.6	1873.1	2817.1	3703.7	4541.1	4455.9	5589.9	5512.9	5393.3
80°	2220.6	2007.5	1945.3	1833.8	2712.2	3669.3	4242.9	4292.0	5519.5	5401.5	5344.1
82.5°	2173.0	1940.3	1848.6	1732.2	2531.9	3464.4	4031.4	3961.0	5363.8	5222.9	5140.9
85°	2114.1	1873.1	1740.4	1647.0	2310.7	3149.8	3847.9	3646.3	5150.7	5000.0	4724.7
87.5°	1976.4	1750.2	1573.2	1530.6	2128.8	2687.6	3564.4	3349.7	4737.8	4575.5	4028.2
90°	1535.6	1388.1	1260.2	1299.6	1747.0	2064.9	2761.4	2748.3	3888.9	3729.9	3041.6
92.5°	1075.1	994.8	930.8	1004.6	1278.3	1461.8	1833.8	1915.8	2668.0	2546.7	2037.0
95°	722.7	683.4	671.9	724.3	871.8	980.0	1165.2	1217.6	1653.5	1591.3	1281.5
97.5°	571.9	549.0	545.7	575.2	657.2	729.3	829.2	842.3	1024.2	986.6	886.6
100°	516.2	501.5	501.5	519.5	565.4	614.6	668.6	662.1	771.9	757.1	721.1
102.5°	473.6	463.8	478.5	504.8	524.4	544.1	571.9	581.8	653.9	649.0	645.7
105°	475.3	470.3	491.6	522.8	535.9	534.2	547.4	553.9	627.7	630.9	644.0
107.5°	488.4	486.7	519.5	553.9	568.7	562.1	544.1	552.3	637.5	650.6	683.4
110°	517.9	524.4	562.1	629.3	655.5	624.4	586.7	593.2	703.0	717.8	755.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	637.5	635.9	657.2	734.2	734.2	696.5	662.1	681.7	791.5	811.2	850.5
115°	789.9	778.4	816.1	832.5	832.5	780.1	744.0	758.8	870.2	889.9	932.5
117.5°	812.8	814.5	893.1	898.1	912.8	880.0	830.9	830.9	966.9	994.8	1073.4
120°	789.9	801.4	891.5	975.1	993.1	963.6	916.1	922.6	1068.5	1102.9	1191.4
122.5°	927.6	952.1	998.0	1124.2	1132.4	1089.8	1024.2	1055.4	1207.8	1237.3	1265.2
125°	1089.8	1104.6	1147.2	1260.2	1245.5	1206.2	1152.1	1191.4	1299.6	1320.9	1312.7
127.5°	1204.5	1217.6	1261.9	1320.9	1314.3	1302.8	1227.5	1266.8	1356.9	1373.3	1376.6
130°	1191.4	1202.9	1258.6	1322.5	1345.5	1311.0	1206.2	1220.9	1279.9	1301.2	1325.8
132.5°	1135.7	1142.2	1211.1	1286.5	1297.9	1234.0	1163.5	1160.3	1216.0	1234.0	1250.4
135°	1165.2	1166.8	1209.4	1273.3	1265.2	1206.2	1160.3	1175.0	1224.2	1234.0	1260.2
137.5°	1160.3	1173.4	1202.9	1252.0	1227.5	1183.2	1134.0	1137.3	1179.9	1186.5	1202.9
140°	1134.0	1139.0	1173.4	1171.7	1148.8	1124.2	1143.9	1166.8	1158.6	1152.1	1129.1
142.5°	1127.5	1125.9	1112.7	1120.9	1117.7	1107.8	1106.2	1112.7	1134.0	1139.0	1135.7
145°	984.9	996.4	1037.4	1061.9	1073.4	1073.4	1016.1	1045.6	1065.2	1065.2	1045.6
147.5°	935.8	943.9	940.7	935.8	942.3	970.2	980.0	1025.9	1002.9	999.7	963.6
150°	914.5	907.9	919.4	947.2	978.4	930.8	906.3	898.1	919.4	922.6	929.2
152.5°	816.1	832.5	852.2	903.0	911.2	871.8	827.6	860.4	852.2	850.5	875.1
155°	845.6	844.0	858.7	834.1	844.0	863.6	870.2	883.3	860.4	850.5	821.0
157.5°	816.1	822.7	834.1	789.9	799.7	848.9	847.3	814.5	814.5	806.3	776.8
160°	704.7	694.9	688.3	719.4	727.6	708.0	694.9	676.8	673.5	680.1	699.8
162.5°	570.3	570.3	598.2	634.2	647.3	608.0	576.9	567.0	575.2	583.4	617.8
165°	624.4	617.8	612.9	609.6	603.1	622.7	604.7	565.4	549.0	549.0	555.6
167.5°	540.8	537.5	544.1	531.0	526.1	524.4	529.3	526.1	532.6	531.0	524.4
170°	449.0	447.4	453.9	458.9	458.9	452.3	444.1	429.4	422.8	421.2	419.5
172.5°	419.5	419.5	421.2	422.8	426.1	426.1	417.9	411.3	403.1	403.1	399.9
175°	395.0	396.6	414.6	429.4	429.4	416.3	398.2	398.2	411.3	413.0	421.2
177.5°	401.5	401.5	404.8	411.3	413.0	408.1	408.1	408.1	404.8	406.4	406.4
180°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	68.8	68.8	72.1	70.5	70.5	68.8	68.8	70.5	70.5	70.5	70.5
5°	80.3	80.3	83.6	85.2	81.9	80.3	77.0	81.9	81.9	83.6	83.6
7.5°	98.3	98.3	98.3	100.0	100.0	100.0	96.7	98.3	96.7	98.3	95.1
10°	126.2	121.3	119.6	116.4	119.6	118.0	116.4	114.7	116.4	116.4	114.7
12.5°	136.0	129.5	132.7	131.1	126.2	127.8	126.2	124.5	127.8	126.2	126.2
15°	150.8	149.1	149.1	147.5	145.9	145.9	145.9	147.5	149.1	149.1	149.1
17.5°	163.9	160.6	162.2	160.6	163.9	162.2	159.0	160.6	163.9	165.5	163.9
20°	191.7	181.9	177.0	181.9	181.9	181.9	185.2	180.3	181.9	181.9	181.9
22.5°	204.8	199.9	196.7	206.5	206.5	203.2	199.9	201.6	204.8	204.8	203.2
25°	237.6	221.2	211.4	218.0	224.5	216.3	226.2	222.9	219.6	219.6	219.6
27.5°	257.3	254.0	258.9	270.4	280.2	273.7	268.8	270.4	277.0	280.2	281.9
30°	321.2	306.5	311.4	329.4	342.5	334.3	322.8	326.1	347.4	354.0	352.3
32.5°	391.7	363.8	344.1	344.1	355.6	360.5	365.5	372.0	381.8	383.5	383.5
35°	431.0	396.6	370.4	344.1	347.4	367.1	386.8	398.2	391.7	375.3	370.4
37.5°	462.1	435.9	399.9	378.6	399.9	426.1	445.8	452.3	431.0	413.0	406.4
40°	480.2	465.4	452.3	462.1	493.3	506.4	496.6	491.6	508.0	516.2	519.5
42.5°	585.1	553.9	529.3	557.2	583.4	567.0	560.5	570.3	581.8	624.4	630.9
45°	724.3	675.2	624.4	621.1	642.4	644.0	647.3	662.1	671.9	663.7	667.0
47.5°	796.5	739.1	685.0	694.9	714.5	698.1	675.2	675.2	699.8	701.4	711.2
50°	904.6	855.5	762.0	730.9	734.2	768.6	783.3	788.3	729.3	670.3	662.1
52.5°	1129.1	1024.2	875.1	870.2	916.1	968.5	981.6	962.0	927.6	878.4	880.0
55°	1588.0	1278.3	1163.5	1291.4	1379.9	1378.2	1334.0	1348.7	1425.8	1458.5	1470.0
57.5°	2513.9	1866.6	1651.9	1804.3	1838.7	1765.0	1747.0	1865.0	2017.4	1994.4	1997.7
60°	3924.9	2845.0	2153.4	2196.0	2217.3	2289.4	2471.3	2582.7	2584.4	2335.3	2307.4
62.5°	5006.5	3498.8	2381.2	2404.1	2664.7	2892.5	2994.1	2953.1	2872.8	2643.4	2599.1
65°	5239.2	3666.0	2404.1	2535.2	2845.0	2918.7	2822.0	2749.9	2723.7	2658.1	2627.0
67.5°	5036.0	3616.8	2450.0	2554.9	2659.8	2645.0	2576.2	2530.3	2564.7	2584.4	2566.4
70°	4801.7	3598.8	2397.6	2297.6	2358.2	2412.3	2361.5	2422.1	2466.4	2456.6	2432.0
72.5°	4696.8	3503.8	2151.7	2035.4	2176.3	2297.6	2304.2	2366.4	2379.5	2350.0	2335.3
75°	4746.0	3444.8	2002.6	1942.0	2146.8	2299.2	2327.1	2336.9	2392.6	2376.3	2381.2
77.5°	4662.4	3382.5	1933.8	1838.7	2033.8	2205.8	2255.0	2263.2	2345.1	2317.3	2328.7
80°	4569.0	3257.9	1874.8	1766.6	1932.1	2076.4	2130.4	2178.0	2289.4	2277.9	2292.7
82.5°	4274.0	2964.6	1745.3	1647.0	1774.8	1879.7	1932.1	1999.3	2122.2	2125.5	2133.7
85°	3785.6	2536.9	1579.8	1538.8	1640.4	1650.3	1658.5	1745.3	1902.6	1945.3	1948.5
87.5°	3087.5	2025.6	1316.0	1348.7	1445.4	1402.8	1375.0	1437.2	1592.9	1668.3	1663.4
90°	2227.1	1455.3	1011.1	1050.5	1134.0	1101.3	1089.8	1127.5	1224.2	1289.7	1286.5
92.5°	1455.3	1012.8	757.1	773.5	832.5	824.3	842.3	875.1	911.2	935.8	934.1
95°	988.2	753.8	617.8	616.2	645.7	653.9	671.9	696.5	696.5	708.0	701.4
97.5°	744.0	609.6	535.9	540.8	553.9	565.4	583.4	583.4	565.4	568.7	570.3
100°	642.4	552.3	506.4	514.6	526.1	532.6	557.2	542.4	501.5	501.5	503.1
102.5°	608.0	545.7	506.4	503.1	506.4	524.4	553.9	550.6	493.3	488.4	480.2
105°	619.5	581.8	542.4	526.1	526.1	552.3	576.9	586.7	547.4	521.1	512.9
107.5°	676.8	647.3	614.6	593.2	585.1	608.0	634.2	639.1	617.8	603.1	590.0
110°	748.9	726.0	689.9	665.4	663.7	693.2	737.5	740.7	708.0	716.2	712.9



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	845.6	832.5	788.3	744.0	745.7	834.1	924.3	919.4	886.6	847.3	839.1
115°	943.9	929.2	903.0	876.8	896.4	986.6	1081.6	1089.8	1080.0	983.3	978.4
117.5°	1084.9	1053.7	1027.5	1016.1	1032.4	1099.6	1188.1	1225.8	1211.1	1145.5	1148.8
120°	1204.5	1160.3	1116.0	1096.4	1122.6	1165.2	1250.4	1271.7	1265.2	1193.0	1193.0
122.5°	1258.6	1230.7	1188.1	1170.1	1196.3	1234.0	1271.7	1225.8	1176.7	1135.7	1150.4
125°	1278.3	1250.4	1219.3	1207.8	1191.4	1206.2	1225.8	1175.0	1099.6	1042.3	1042.3
127.5°	1335.6	1312.7	1234.0	1148.8	1117.7	1125.9	1166.8	1140.6	1065.2	983.3	971.8
130°	1311.0	1284.8	1178.3	1083.2	1053.7	1078.3	1088.2	1048.8	1021.0	996.4	1002.9
132.5°	1225.8	1196.3	1114.4	1068.5	1052.1	1101.3	1104.6	1057.0	998.0	942.3	935.8
135°	1242.2	1199.6	1088.2	1042.3	994.8	1050.5	1091.4	1070.1	960.3	865.3	837.4
137.5°	1189.8	1150.4	1042.3	975.1	981.6	996.4	1019.3	1024.2	994.8	942.3	932.5
140°	1104.6	1096.4	1060.3	1006.2	1019.3	1029.2	1017.7	1011.1	1037.4	1055.4	1061.9
142.5°	1106.2	1083.2	1029.2	983.3	971.8	996.4	1022.6	1025.9	1009.5	966.9	965.3
145°	1032.4	1012.8	947.2	880.0	858.7	909.5	952.1	940.7	917.7	868.6	863.6
147.5°	955.4	957.1	935.8	866.9	837.4	883.3	885.0	852.2	862.0	873.5	871.8
150°	924.3	917.7	868.6	863.6	829.2	844.0	878.4	880.0	842.3	798.1	789.9
152.5°	873.5	870.2	837.4	806.3	799.7	821.0	839.1	821.0	807.9	801.4	798.1
155°	819.4	821.0	840.7	848.9	821.0	816.1	799.7	786.6	804.7	827.6	832.5
157.5°	776.8	778.4	799.7	829.2	786.6	781.7	758.8	752.2	775.2	771.9	767.0
160°	712.9	717.8	691.6	660.4	653.9	675.2	694.9	709.6	686.7	663.7	663.7
162.5°	629.3	619.5	596.5	599.8	594.9	588.3	599.8	622.7	619.5	624.4	629.3
165°	563.7	567.0	578.5	560.5	576.9	608.0	588.3	578.5	583.4	585.1	583.4
167.5°	522.8	529.3	544.1	532.6	504.8	506.4	503.1	490.0	478.5	462.1	457.2
170°	417.9	417.9	424.4	431.0	393.3	434.3	427.7	422.8	417.9	414.6	414.6
172.5°	403.1	403.1	406.4	406.4	411.3	409.7	403.1	404.8	403.1	399.9	399.9
175°	422.8	417.9	403.1	388.4	383.5	395.0	401.5	398.2	385.1	372.0	368.7
177.5°	404.8	401.5	398.2	401.5	401.5	398.2	396.6	395.0	395.0	396.6	398.2
180°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1

(END OF REPORT)