

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: INVUE

Report Number: P676102

Luminaire Tested: **CCW-SA-1F-727-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676102  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-727-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T1 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

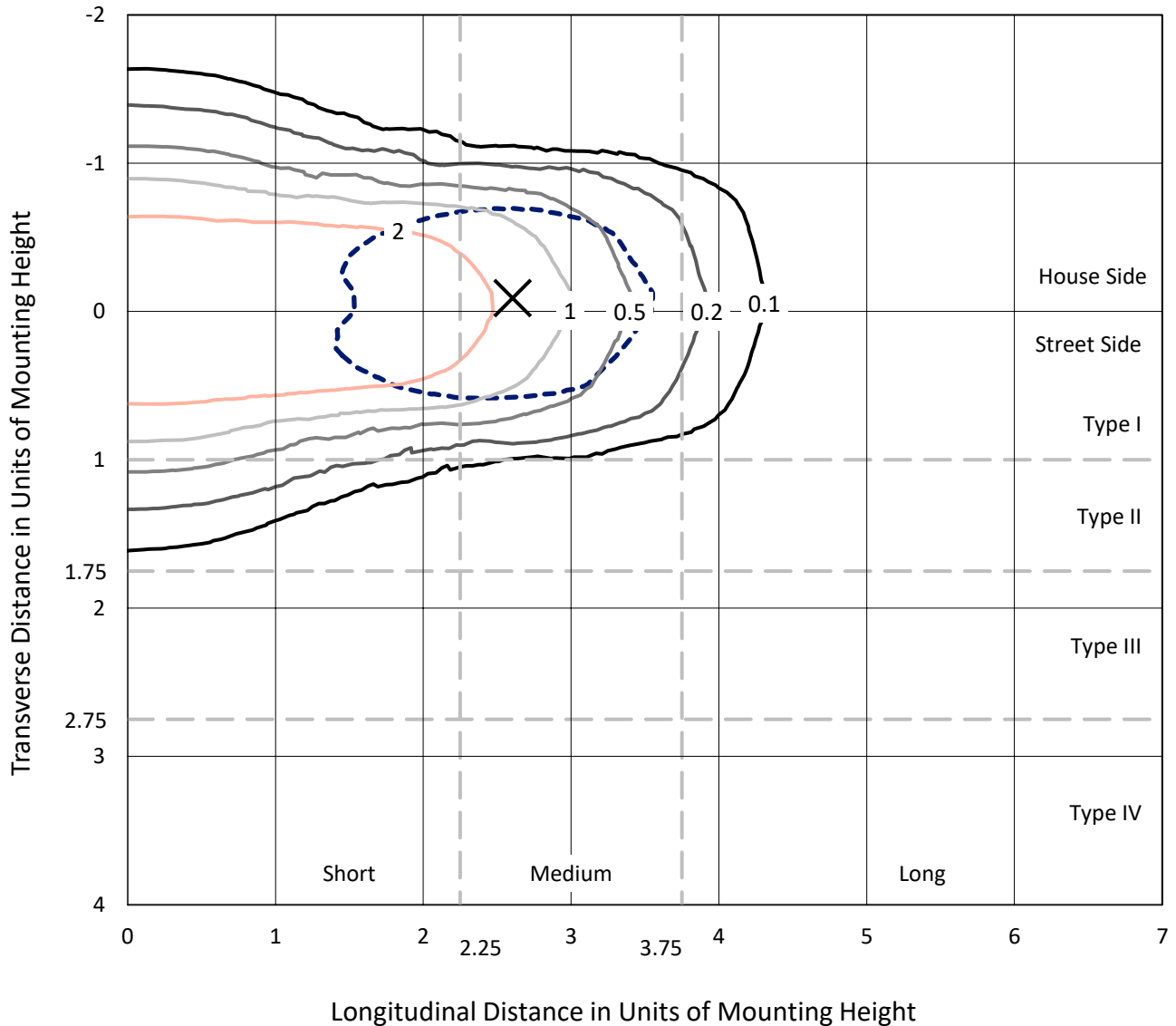
Lumens per Lamp: N/A  
Luminaire Lumens: 6105.9 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 67  
Input Voltage (V): 120  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

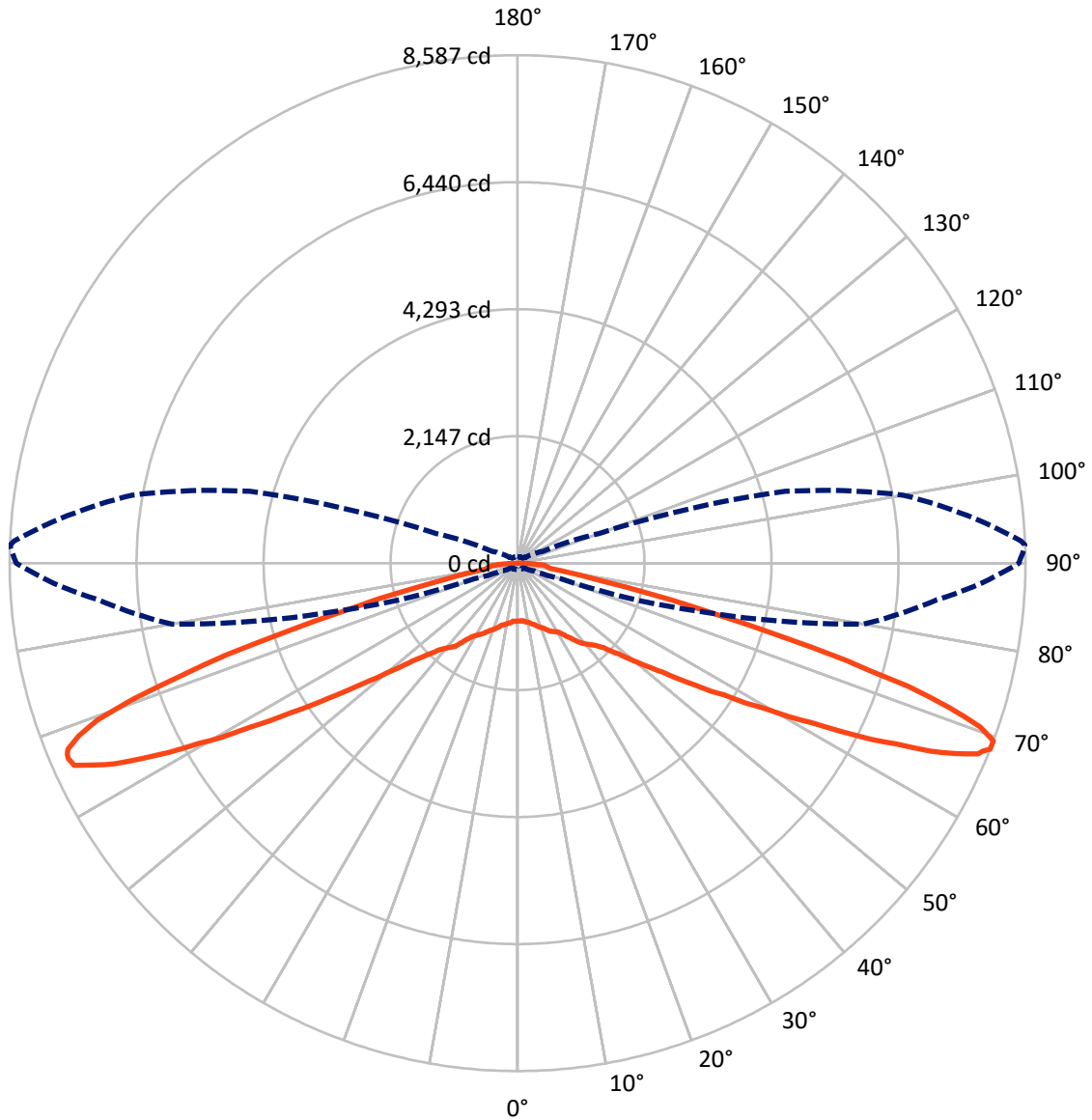
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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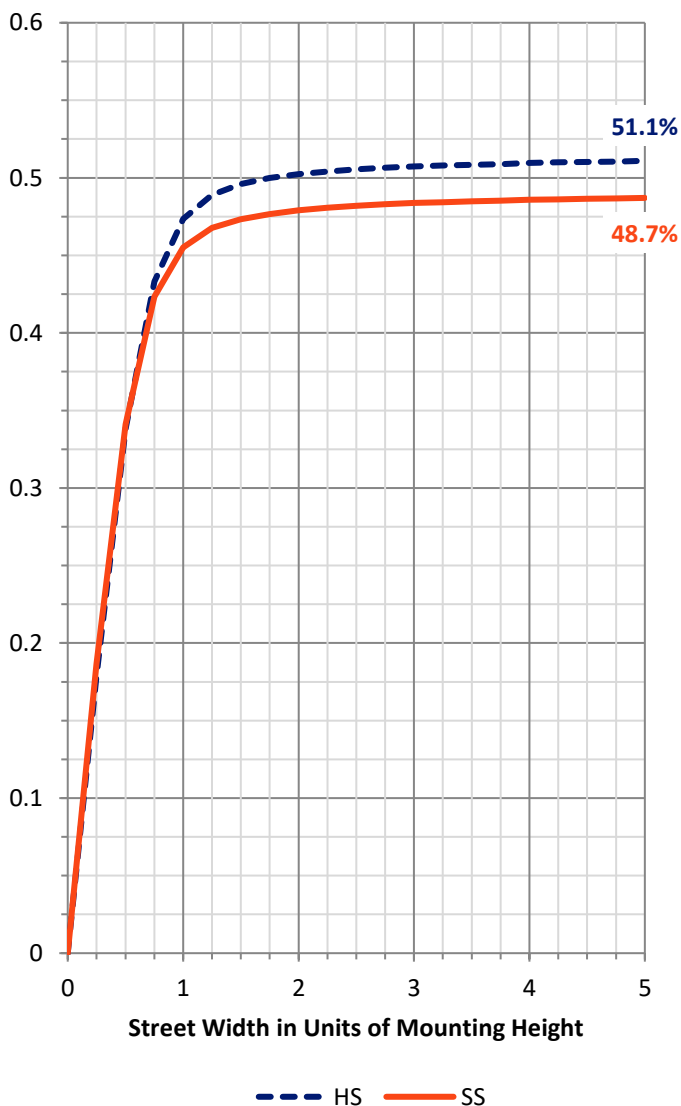
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3144.4	0.0	3144.4
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2961.5	0.0	2961.5
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	6105.9	0.0	6105.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	1.6
10°-20°	316.7	5.2
20°-30°	540.6	8.9
30°-40°	754.8	12.4
40°-50°	960.1	15.7
50°-60°	1213.9	19.9
60°-70°	1497.1	24.5
70°-80°	654.0	10.7
80°-90°	70.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6105.9	100.0
0°-180°	6105.9	100.0



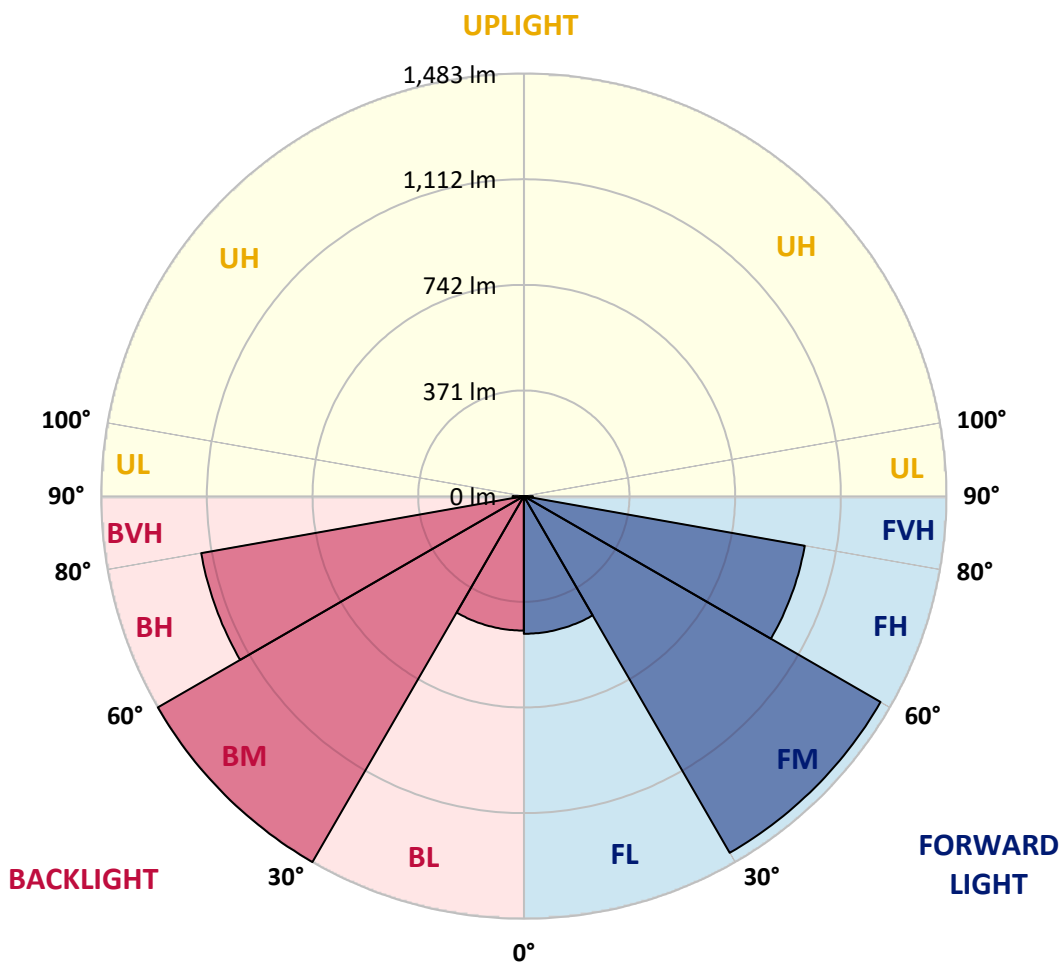
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.2	7.9			
FM	(30°-60°)	1445.5	23.7			
FH	(60°-80°)	1001.2	16.4			G1/1800
FVH	(80°-90°)	31.5	0.5			G1/100
BL	(0°-30°)	471.9	7.7	B1/500		
BM	(30°-60°)	1483.2	24.3	B2/2500		
BH	(60°-80°)	1149.8	18.8	B3/2500		G3/2500
BVH	(80°-90°)	39.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	997.0	995.9	999.3	1001.6	991.3	994.7	992.4	990.1	982.1	978.7	971.8
5°	1024.5	1028.0	1039.4	1029.1	1033.7	1028.0	1009.6	1015.3	1005.0	1002.7	995.9
7.5°	1072.6	1065.8	1081.8	1070.4	1073.8	1062.3	1054.3	1044.0	1041.7	1025.7	1026.8
10°	1083.0	1096.7	1103.6	1101.3	1103.6	1109.3	1094.4	1078.4	1056.6	1052.0	1036.0
12.5°	1076.1	1088.7	1107.0	1121.9	1132.2	1134.5	1128.8	1125.4	1116.2	1089.8	1088.7
15°	1069.2	1060.0	1071.5	1123.1	1157.4	1180.4	1188.4	1168.9	1171.2	1136.8	1123.1
17.5°	1023.4	1009.6	1054.3	1104.7	1147.1	1197.6	1236.5	1230.8	1230.8	1203.3	1183.8
20°	962.6	985.6	1008.5	1072.6	1150.6	1226.2	1300.7	1297.3	1283.5	1275.5	1233.1
22.5°	911.1	921.4	963.8	1031.4	1128.8	1234.2	1322.5	1385.5	1353.4	1321.3	1296.1
25°	875.5	866.4	920.2	990.1	1108.2	1220.5	1363.7	1429.0	1446.2	1422.2	1374.0
27.5°	825.1	825.1	867.5	934.0	1041.7	1213.6	1403.8	1503.5	1528.7	1493.2	1423.3
30°	767.8	774.7	811.4	887.0	992.4	1163.2	1419.9	1589.5	1610.1	1579.2	1507.0
32.5°	723.1	723.1	764.4	844.6	958.0	1140.3	1409.6	1674.3	1713.3	1690.3	1615.8
35°	675.0	671.5	701.3	789.6	903.0	1095.6	1406.1	1741.9	1829.0	1830.1	1752.2
37.5°	606.2	620.0	657.8	727.7	859.5	1052.0	1395.8	1823.3	1979.1	2005.5	1951.6
40°	560.4	566.1	600.5	677.3	791.9	1000.4	1380.9	1889.7	2078.8	2169.4	2094.9
42.5°	493.9	501.9	528.3	623.4	726.6	927.1	1315.6	1936.7	2220.9	2324.1	2261.0
45°	424.0	428.6	467.6	545.5	656.7	840.0	1245.7	2012.4	2358.4	2569.3	2532.6
47.5°	340.4	342.7	375.9	457.2	573.0	752.9	1138.0	2008.9	2469.6	2814.5	2917.7
50°	265.9	271.6	296.8	363.3	472.1	646.3	1013.1	1981.4	2609.4	3094.2	3297.0
52.5°	212.0	213.2	229.2	281.9	364.4	539.8	879.0	1894.3	2741.2	3368.1	3762.3
55°	175.3	175.3	184.5	216.6	279.6	410.3	722.0	1749.9	2757.2	3670.6	4270.0
56°	168.5	166.2	174.2	201.7	252.1	370.2	648.6	1652.5	2780.2	3810.4	4524.4
57°	159.3	160.4	165.0	184.5	226.9	327.8	567.3	1557.4	2764.1	3925.0	4712.3
58°	154.7	152.4	161.6	174.2	200.5	291.1	511.1	1445.1	2738.9	4019.0	4986.2
59°	147.8	146.7	152.4	163.9	186.8	259.0	442.4	1323.6	2689.6	4140.5	5190.2
60°	145.5	144.4	146.7	155.9	171.9	226.9	389.6	1181.5	2557.8	4265.4	5443.4
61°	138.7	139.8	144.4	150.1	162.7	204.0	350.7	1036.0	2471.9	4370.8	5723.1
62°	139.8	137.5	139.8	144.4	153.6	187.9	307.1	892.7	2318.3	4490.0	5932.8
63°	132.9	131.8	135.2	141.0	145.5	169.6	268.2	771.3	2144.1	4517.5	6110.4
64°	130.6	129.5	130.6	138.7	139.8	159.3	237.2	658.9	1892.0	4564.5	6338.5
65°	124.9	124.9	127.2	130.6	135.2	150.1	212.0	571.8	1641.1	4440.7	6408.4
66°	120.3	121.5	121.5	127.2	130.6	139.8	194.8	485.9	1400.4	4243.6	6476.0
67°	116.9	116.9	118.0	122.6	126.1	131.8	175.3	420.6	1181.5	4008.7	6371.7
67.5°	114.6	115.7	115.7	120.3	123.8	131.8	167.3	398.8	1056.6	3750.8	6293.8
68°	111.2	112.3	112.3	116.9	120.3	127.2	161.6	364.4	974.1	3583.5	6149.4
69°	108.9	107.7	107.7	112.3	116.9	121.5	150.1	318.6	774.7	3115.9	5938.5
70°	102.0	102.0	104.3	107.7	111.2	115.7	138.7	280.8	655.5	2579.6	5395.3
71°	98.6	97.4	98.6	102.0	105.4	111.2	127.2	248.7	536.3	2141.9	4861.3
72°	91.7	94.0	94.0	97.4	100.8	104.3	119.2	216.6	450.4	1712.1	4273.4
72.5°	90.5	90.5	91.7	95.1	97.4	103.1	114.6	207.4	411.4	1509.3	4027.0
73°	87.1	87.1	88.2	91.7	94.0	99.7	111.2	186.8	374.7	1343.1	3566.3
74°	83.7	82.5	82.5	87.1	88.2	94.0	104.3	165.0	314.0	1011.9	2862.7
75°	77.9	77.9	79.1	81.4	82.5	87.1	96.3	146.7	264.7	785.0	2239.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	64.2	65.3	66.5	68.8	68.8	72.2	79.1	102.0	161.6	397.7	1028.0
80°	47.0	49.3	52.7	56.2	55.0	55.0	61.9	73.3	96.3	178.8	394.2
82.5°	37.8	40.1	36.7	41.3	41.3	39.0	44.7	53.9	65.3	88.2	141.0
85°	25.2	26.4	21.8	25.2	24.1	24.1	29.8	32.1	40.1	49.3	69.9
87.5°	11.5	11.5	9.2	10.3	10.3	10.3	14.9	11.5	17.2	24.1	41.3
90°	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):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	978.7	983.3	983.3	978.7	975.2	978.7	976.4	970.7	976.4	978.7	979.8
5°	992.4	983.3	987.8	977.5	984.4	983.3	981.0	986.7	987.8	987.8	995.9
7.5°	1007.3	1018.8	1003.9	1005.0	1008.5	994.7	999.3	1001.6	997.0	1006.2	1013.1
10°	1033.7	1038.3	1033.7	1016.5	1028.0	1018.8	1015.3	1025.7	1023.4	1025.7	1036.0
12.5°	1057.7	1065.8	1053.2	1052.0	1046.3	1038.3	1042.8	1041.7	1057.7	1060.0	1072.6
15°	1107.0	1086.4	1081.8	1080.7	1078.4	1074.9	1077.2	1078.4	1099.0	1102.4	1132.2
17.5°	1149.4	1146.0	1120.8	1129.9	1129.9	1116.2	1110.5	1129.9	1146.0	1163.2	1183.8
20°	1193.0	1189.5	1162.0	1163.2	1152.9	1165.5	1158.6	1176.9	1204.4	1210.2	1228.5
22.5°	1244.5	1229.6	1210.2	1212.5	1215.9	1206.7	1202.1	1227.4	1254.9	1270.9	1272.0
25°	1325.9	1288.1	1272.0	1274.3	1269.8	1262.9	1266.3	1298.4	1312.2	1346.5	1339.7
27.5°	1369.5	1347.7	1336.2	1309.9	1311.0	1300.7	1314.4	1362.6	1390.1	1416.4	1363.7
30°	1422.2	1408.4	1358.0	1348.8	1347.7	1343.1	1368.3	1430.2	1471.4	1486.3	1410.7
32.5°	1525.3	1470.3	1457.7	1449.7	1431.3	1437.1	1449.7	1531.0	1596.4	1592.9	1454.3
35°	1643.3	1605.5	1570.0	1563.1	1560.8	1544.8	1566.6	1661.7	1712.1	1697.2	1470.3
37.5°	1832.4	1775.1	1727.0	1700.6	1696.1	1684.6	1736.2	1811.8	1877.1	1818.7	1482.9
40°	1925.3	1861.1	1816.4	1800.3	1803.8	1819.8	1870.3	1986.0	2014.6	1906.9	1493.2
42.5°	2058.2	1988.3	1900.0	1892.0	1881.7	1889.7	1987.1	2143.0	2167.1	2026.1	1454.3
45°	2294.3	2188.8	2086.8	2041.0	2043.3	2065.1	2216.3	2387.1	2342.4	2108.6	1392.4
47.5°	2592.2	2437.5	2355.0	2293.1	2322.9	2298.9	2539.5	2675.9	2523.5	2212.9	1316.7
50°	3040.3	2823.7	2711.4	2636.9	2649.5	2670.2	2914.2	3030.0	2724.0	2263.3	1201.0
52.5°	3605.3	3326.8	3161.8	3062.1	3071.2	3115.9	3431.1	3395.6	2953.2	2305.7	1046.3
55°	4281.4	3994.9	3675.2	3633.9	3623.6	3730.2	4077.4	3778.3	3159.5	2238.1	885.8
56°	4639.0	4334.1	4001.8	3917.0	3891.8	3966.3	4374.2	3969.7	3230.5	2162.5	809.1
57°	4942.6	4651.6	4287.1	4142.7	4174.8	4314.6	4668.8	4149.6	3295.9	2084.6	736.9
58°	5359.8	5027.5	4642.4	4532.4	4503.7	4614.9	4986.2	4330.7	3317.6	2004.3	670.4
59°	5775.8	5377.0	5029.7	4829.2	4837.2	5040.1	5299.1	4546.1	3350.9	1902.3	585.6
60°	6092.1	5891.5	5427.4	5277.3	5256.6	5550.0	5610.8	4690.5	3386.4	1764.8	526.0
61°	6540.2	6278.9	5846.8	5653.2	5709.3	5944.2	5947.7	4871.6	3333.7	1590.6	452.7
62°	6862.2	6793.4	6339.6	6155.1	6137.9	6449.6	6298.4	5030.9	3287.8	1425.6	399.9
63°	7239.2	7239.2	6825.5	6681.1	6689.1	6935.5	6450.8	5190.2	3235.1	1243.4	351.8
64°	7435.2	7681.6	7299.9	7097.1	7149.8	7363.0	6722.4	5294.5	3072.4	1058.9	309.4
65°	7604.8	7974.9	7762.9	7669.0	7588.7	7714.8	6957.3	5391.9	2823.7	900.7	275.0
66°	7748.0	8251.1	8181.2	8080.4	8072.3	8043.7	7003.1	5388.4	2567.0	760.9	240.7
67°	7675.8	8256.8	8384.1	8426.5	8413.8	8111.3	6922.9	5265.8	2238.1	642.9	214.3
67.5°	7610.5	8209.9	8505.5	8481.5	8534.2	8168.6	6936.7	5115.7	2004.3	582.2	201.7
68°	7553.2	8146.8	8554.8	8585.7	8559.4	8175.5	6861.0	4996.5	1845.0	546.6	190.2
69°	7118.9	7847.7	8475.7	8586.9	8519.3	7913.0	6620.4	4685.9	1465.7	466.4	175.3
70°	6683.4	7460.4	8091.8	8295.8	8212.2	7405.4	6316.7	4192.0	1209.0	398.8	158.1
71°	6080.6	6740.7	7580.7	7703.3	7602.5	6827.8	5688.7	3670.6	940.9	338.1	141.0
72°	5262.4	5822.8	6625.0	6921.8	6772.8	5997.0	5053.8	3033.4	762.1	284.2	128.4
72.5°	4856.7	5430.8	6204.4	6228.4	6257.1	5636.0	4784.5	2664.4	664.7	263.6	124.9
73°	4471.6	5034.3	5703.6	5788.4	5666.9	5027.5	4382.3	2382.5	607.4	240.7	120.3
74°	3623.6	3944.5	4499.2	4581.7	4475.1	4099.2	3581.2	1826.7	483.6	207.4	110.0
75°	2851.2	3027.7	3529.6	3479.2	3319.9	3188.1	2776.7	1395.8	391.9	182.2	102.0



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1281.2	1387.8	1471.4	1471.4	1480.6	1413.0	1280.1	640.6	241.8	131.8	83.7
80°	488.2	546.6	565.0	566.1	574.1	594.8	553.5	315.1	143.2	94.0	67.6
82.5°	354.1	495.1	532.9	505.4	507.7	458.4	212.0	139.8	90.5	65.3	49.3
85°	320.9	430.9	456.1	452.7	453.8	424.0	124.9	68.8	52.7	41.3	34.4
87.5°	155.9	152.4	161.6	182.2	177.6	230.3	105.4	34.4	22.9	17.2	17.2
90°	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):**

	135°	145°	155°	165°	175°	180°
0°	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	970.7	969.5	985.6	969.5	978.7	971.8
5°	982.1	986.7	990.1	997.0	981.0	997.0
7.5°	1016.5	1021.1	1022.2	1028.0	1021.1	1019.9
10°	1042.8	1054.3	1061.2	1038.3	1052.0	1050.9
12.5°	1094.4	1083.0	1081.8	1077.2	1064.6	1060.0
15°	1131.1	1113.9	1103.6	1085.3	1070.4	1064.6
17.5°	1182.7	1149.4	1107.0	1069.2	1042.8	1022.2
20°	1214.7	1155.2	1070.4	1025.7	985.6	994.7
22.5°	1235.4	1149.4	1037.1	979.8	939.7	951.2
25°	1242.3	1120.8	1014.2	943.1	904.2	896.2
27.5°	1222.8	1087.5	969.5	889.3	854.9	861.8
30°	1213.6	1039.4	928.3	849.2	803.3	810.2
32.5°	1189.5	990.1	873.2	793.0	759.8	748.3
35°	1155.2	948.9	820.5	744.9	704.8	695.6
37.5°	1112.8	897.3	774.7	683.0	647.5	640.6
40°	1049.7	835.4	708.2	629.1	587.9	586.7
42.5°	994.7	775.8	646.3	565.0	523.7	526.0
45°	924.8	695.6	575.3	505.4	464.1	466.4
47.5°	835.4	621.1	507.7	429.7	395.4	393.1
50°	730.0	536.3	425.2	358.7	330.0	324.3
52.5°	629.1	450.4	348.4	288.8	264.7	262.4
55°	501.9	350.7	271.6	226.9	208.6	209.7
56°	456.1	323.2	247.5	207.4	193.7	193.7
57°	412.6	286.5	224.6	191.4	178.8	178.8
58°	364.4	252.1	204.0	173.0	167.3	162.7
59°	331.2	229.2	184.5	163.9	154.7	153.6
60°	292.2	206.3	171.9	153.6	146.7	145.5
61°	259.0	185.7	158.1	143.2	141.0	141.0
62°	231.5	171.9	146.7	138.7	137.5	134.1
63°	207.4	158.1	141.0	131.8	128.4	131.8
64°	185.7	145.5	136.4	129.5	124.9	127.2
65°	168.5	139.8	130.6	126.1	121.5	122.6
66°	157.0	130.6	126.1	120.3	118.0	119.2
67°	142.1	126.1	121.5	115.7	114.6	115.7
67.5°	137.5	122.6	119.2	113.5	112.3	113.5
68°	134.1	120.3	118.0	112.3	111.2	110.0
69°	124.9	115.7	112.3	110.0	107.7	106.6
70°	116.9	111.2	108.9	105.4	103.1	102.0
71°	112.3	105.4	104.3	100.8	98.6	97.4
72°	106.6	102.0	99.7	95.1	94.0	95.1
72.5°	105.4	99.7	98.6	94.0	92.8	92.8
73°	102.0	95.1	96.3	91.7	89.4	91.7
74°	95.1	92.8	90.5	87.1	85.9	85.9
75°	89.4	87.1	84.8	82.5	82.5	82.5



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	135°	145°	155°	165°	175°	180°
77.5°	75.6	74.5	75.6	71.1	69.9	68.8
80°	60.7	60.7	61.9	58.4	56.2	55.0
82.5°	45.8	47.0	49.3	45.8	43.5	41.3
85°	29.8	30.9	30.9	27.5	32.1	29.8
87.5°	14.9	16.0	14.9	13.8	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)