

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: P676115

Luminaire Tested: **CCW-SA-2B-730-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676115  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-730-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T1 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

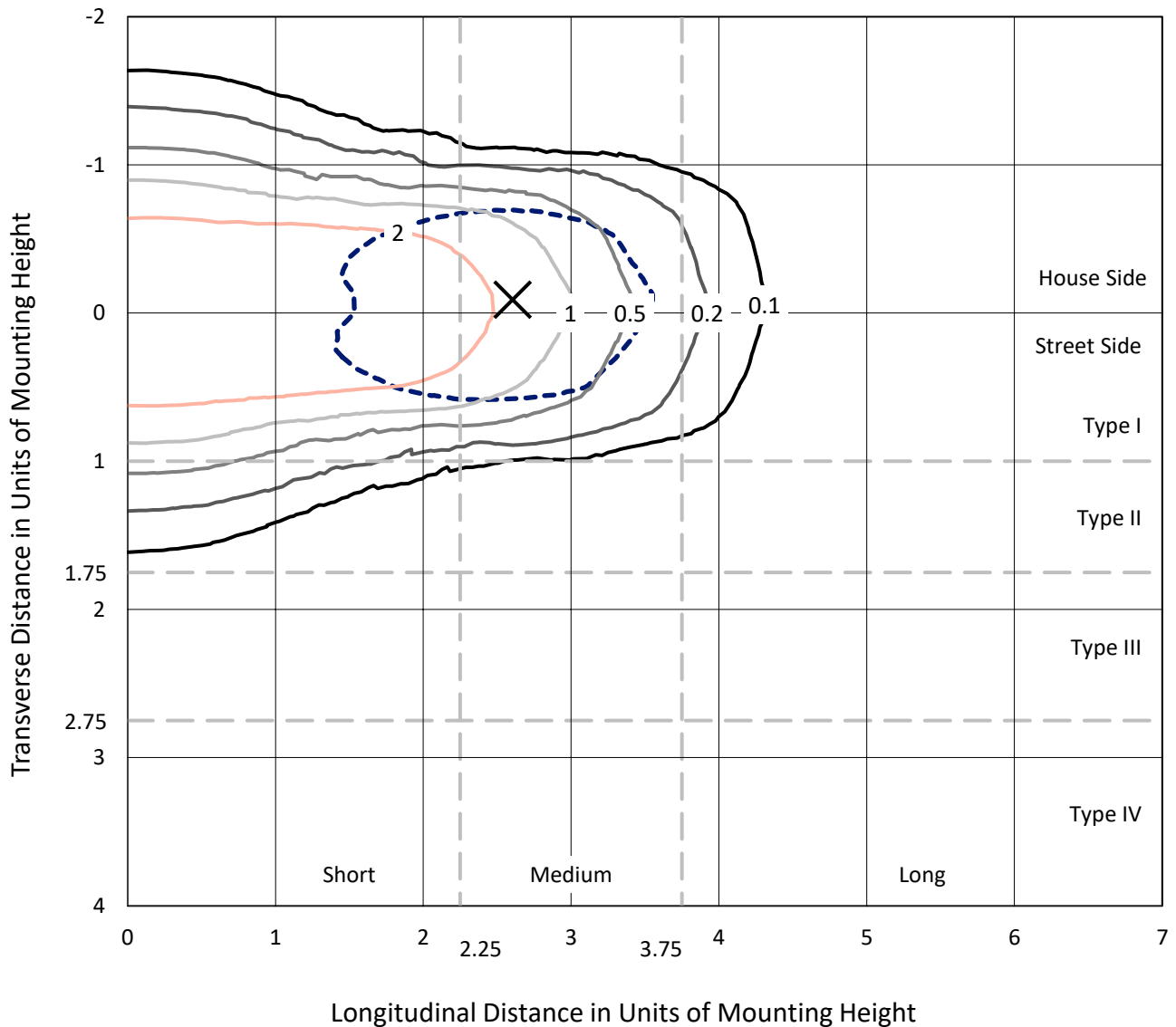
Lumens per Lamp: N/A  
Luminaire Lumens: 6123.9 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 46  
Input Voltage (V): 120  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

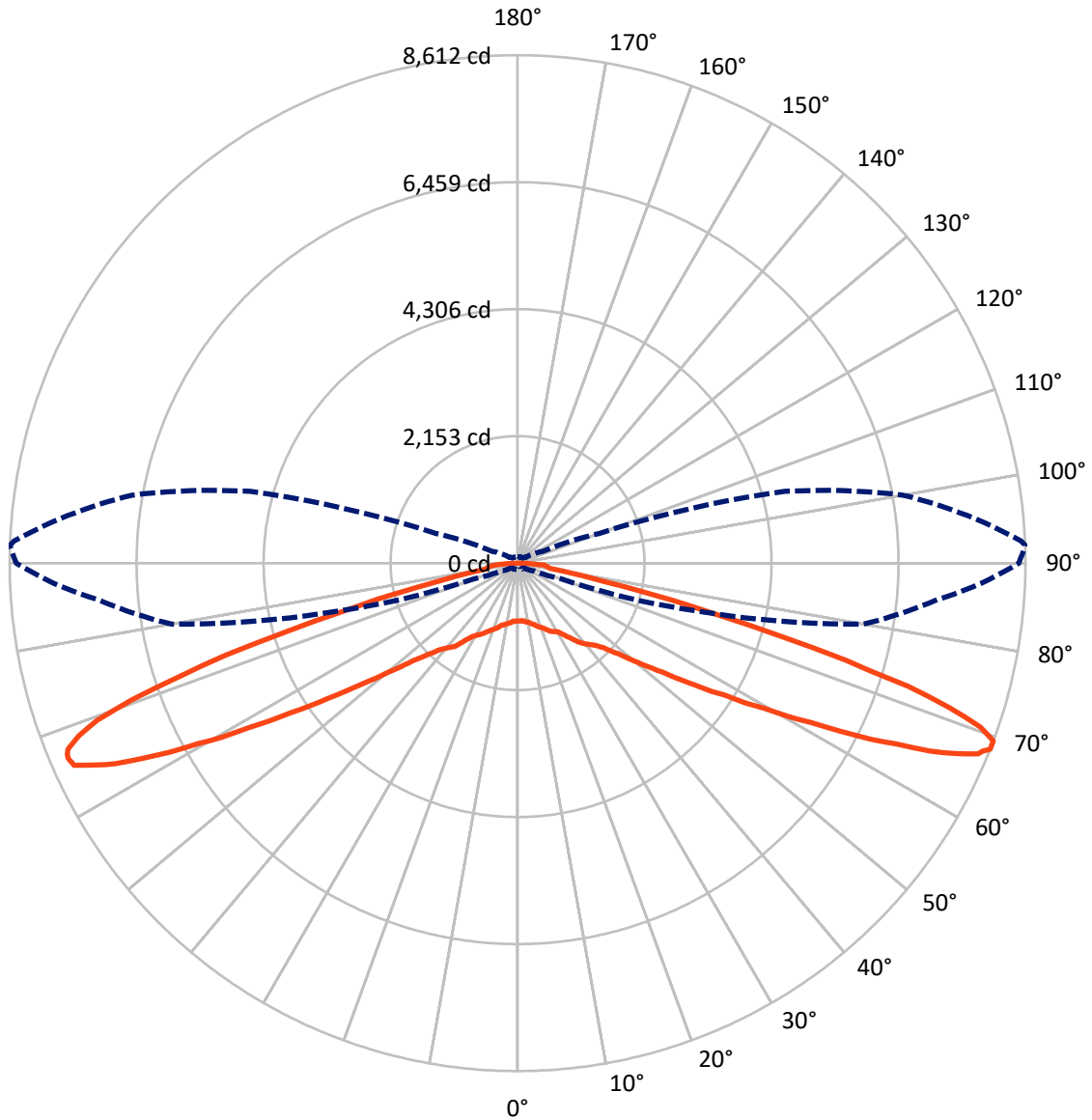
× Max cd  
 - - - 1/2 Max cd



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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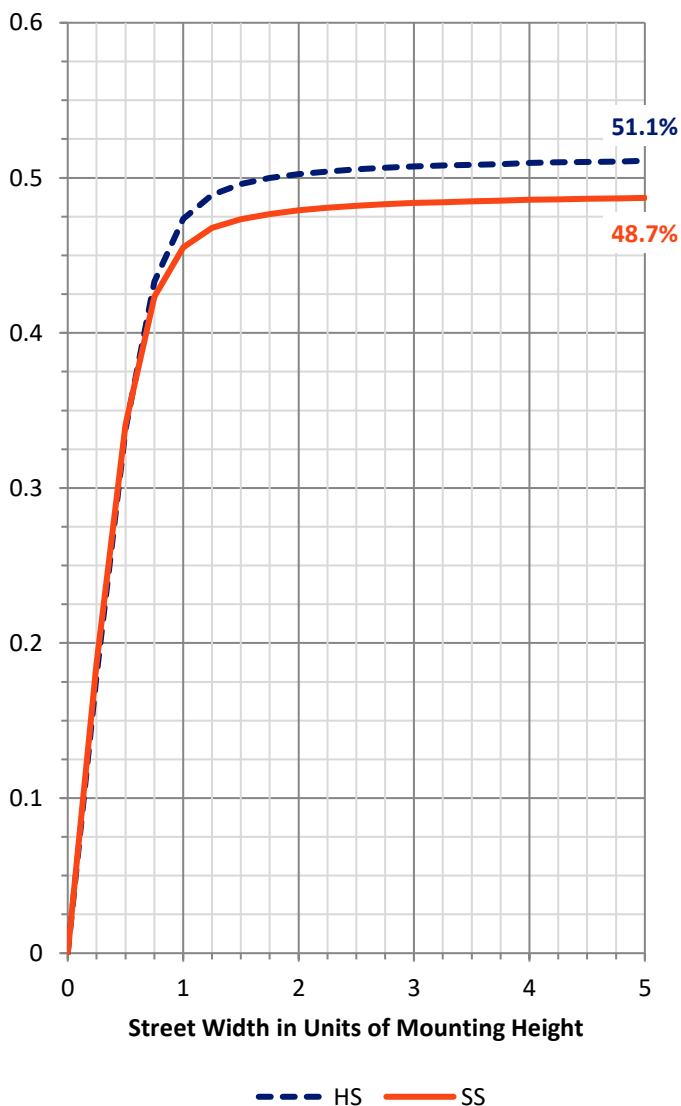
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3153.7	0.0	3153.7
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2970.2	0.0	2970.2
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	6123.9	0.0	6123.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	1.6
10°-20°	317.7	5.2
20°-30°	542.1	8.9
30°-40°	757.0	12.4
40°-50°	962.9	15.7
50°-60°	1217.5	19.9
60°-70°	1501.5	24.5
70°-80°	655.9	10.7
80°-90°	71.1	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°	6123.9	100.0
0°-180°	6123.9	100.0



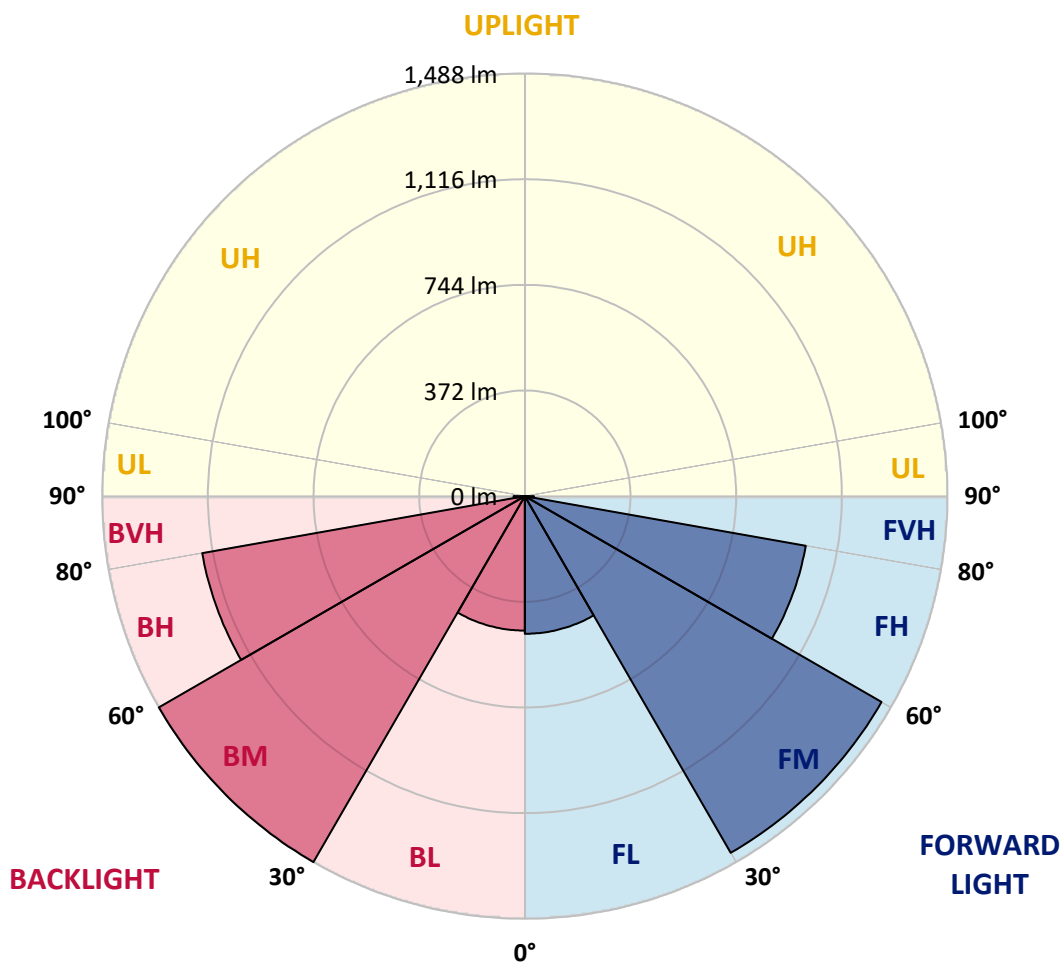
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.7	7.9			
FM (30°-60°)	1449.8	23.7			
FH (60°-80°)	1004.2	16.4			G1/1800
FVH (80°-90°)	31.5	0.5			G1/100
BL (0°-30°)	473.3	7.7	B1/500		
BM (30°-60°)	1487.6	24.3	B2/2500		
BH (60°-80°)	1153.2	18.8	B3/2500		G3/2500
BVH (80°-90°)	39.6	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°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	999.9	998.8	1002.2	1004.5	994.2	997.6	995.4	993.1	985.0	981.6	974.7
5°	1027.5	1031.0	1042.5	1032.1	1036.7	1031.0	1012.6	1018.3	1008.0	1005.7	998.8
7.5°	1075.8	1068.9	1085.0	1073.5	1077.0	1065.5	1057.4	1047.1	1044.8	1028.7	1029.8
10°	1086.2	1099.9	1106.8	1104.5	1106.8	1112.6	1097.6	1081.6	1059.7	1055.1	1039.0
12.5°	1079.3	1091.9	1110.3	1125.2	1135.6	1137.9	1132.1	1128.7	1119.5	1093.0	1091.9
15°	1072.4	1063.2	1074.7	1126.4	1160.9	1183.8	1191.9	1172.4	1174.7	1140.2	1126.4
17.5°	1026.4	1012.6	1057.4	1108.0	1150.5	1201.1	1240.2	1234.4	1234.4	1206.8	1187.3
20°	965.5	988.5	1011.4	1075.8	1154.0	1229.8	1304.5	1301.1	1287.3	1279.2	1236.7
22.5°	913.7	924.1	966.6	1034.4	1132.1	1237.9	1326.4	1389.6	1357.4	1325.2	1299.9
25°	878.1	868.9	922.9	993.1	1111.4	1224.1	1367.7	1433.3	1450.5	1426.4	1378.1
27.5°	827.5	827.5	870.1	936.7	1044.8	1217.2	1408.0	1508.0	1533.3	1497.6	1427.5
30°	770.1	777.0	813.8	889.6	995.4	1166.6	1424.1	1594.2	1614.9	1583.8	1511.4
32.5°	725.3	725.3	766.6	847.1	960.9	1143.6	1413.7	1679.2	1718.3	1695.3	1620.6
35°	677.0	673.5	703.4	791.9	905.7	1098.8	1410.3	1747.0	1834.4	1835.5	1757.4
37.5°	608.0	621.8	659.7	729.8	862.0	1055.1	1399.9	1828.6	1985.0	2011.4	1957.4
40°	562.0	567.8	602.3	679.3	794.2	1003.4	1385.0	1895.3	2085.0	2175.8	2101.0
42.5°	495.4	503.4	529.9	625.3	728.7	929.8	1319.5	1942.4	2227.5	2330.9	2267.7
45°	425.3	429.9	468.9	547.1	658.6	842.5	1249.4	2018.3	2365.4	2576.9	2540.1
47.5°	341.4	343.7	377.0	458.6	574.7	755.1	1141.3	2014.8	2476.9	2822.8	2926.3
50°	266.7	272.4	297.7	364.3	473.5	648.2	1016.0	1987.3	2617.1	3103.3	3306.7
52.5°	212.6	213.8	229.9	282.7	365.5	541.4	881.6	1899.9	2749.3	3378.0	3773.4
55°	175.9	175.9	185.0	217.2	280.4	411.5	724.1	1755.1	2765.4	3681.4	4282.5
56°	169.0	166.7	174.7	202.3	252.9	371.2	650.5	1657.4	2788.4	3821.6	4537.7
57°	159.8	160.9	165.5	185.0	227.6	328.7	568.9	1562.0	2772.3	3936.6	4726.2
58°	155.2	152.9	162.1	174.7	201.1	291.9	512.6	1449.4	2747.0	4030.8	5000.9
59°	148.3	147.1	152.9	164.4	187.3	259.8	443.7	1327.5	2697.6	4152.7	5205.5
60°	146.0	144.8	147.1	156.3	172.4	227.6	390.8	1185.0	2565.4	4277.9	5459.5
61°	139.1	140.2	144.8	150.6	163.2	204.6	351.7	1039.0	2479.2	4383.7	5739.9
62°	140.2	137.9	140.2	144.8	154.0	188.5	308.0	895.4	2325.2	4503.2	5950.3
63°	133.3	132.2	135.6	141.4	146.0	170.1	269.0	773.5	2150.5	4530.8	6128.4
64°	131.0	129.9	131.0	139.1	140.2	159.8	237.9	660.9	1897.6	4577.9	6357.1
65°	125.3	125.3	127.6	131.0	135.6	150.6	212.6	573.5	1645.9	4453.8	6427.3
66°	120.7	121.8	121.8	127.6	131.0	140.2	195.4	487.3	1404.5	4256.1	6495.1
67°	117.2	117.2	118.4	123.0	126.4	132.2	175.9	421.8	1185.0	4020.5	6390.5
67.5°	114.9	116.1	116.1	120.7	124.1	132.2	167.8	400.0	1059.7	3761.9	6312.3
68°	111.5	112.6	112.6	117.2	120.7	127.6	162.1	365.5	977.0	3594.1	6167.5
69°	109.2	108.0	108.0	112.6	117.2	121.8	150.6	319.5	777.0	3125.1	5956.0
70°	102.3	102.3	104.6	108.0	111.5	116.1	139.1	281.6	657.4	2587.2	5411.2
71°	98.8	97.7	98.8	102.3	105.7	111.5	127.6	249.4	537.9	2148.2	4875.6
72°	91.9	94.2	94.2	97.7	101.1	104.6	119.5	217.2	451.7	1717.2	4286.0
72.5°	90.8	90.8	91.9	95.4	97.7	103.4	114.9	208.0	412.6	1513.7	4038.9
73°	87.4	87.4	88.5	91.9	94.2	100.0	111.5	187.3	375.8	1347.1	3576.8
74°	83.9	82.8	82.8	87.4	88.5	94.2	104.6	165.5	314.9	1014.9	2871.1
75°	78.2	78.2	79.3	81.6	82.8	87.4	96.5	147.1	265.5	787.3	2245.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	64.4	65.5	66.7	69.0	69.0	72.4	79.3	102.3	162.1	398.8	1031.0
80°	47.1	49.4	52.9	56.3	55.2	55.2	62.1	73.6	96.5	179.3	395.4
82.5°	37.9	40.2	36.8	41.4	41.4	39.1	44.8	54.0	65.5	88.5	141.4
85°	25.3	26.4	21.8	25.3	24.1	24.1	29.9	32.2	40.2	49.4	70.1
87.5°	11.5	11.5	9.2	10.3	10.3	10.3	14.9	11.5	17.2	24.1	41.4
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°	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	981.6	986.2	986.2	981.6	978.1	981.6	979.3	973.5	979.3	981.6	982.7
5°	995.4	986.2	990.8	980.4	987.3	986.2	983.9	989.6	990.8	990.8	998.8
7.5°	1010.3	1021.8	1006.8	1008.0	1011.4	997.6	1002.2	1004.5	999.9	1009.1	1016.0
10°	1036.7	1041.3	1036.7	1019.5	1031.0	1021.8	1018.3	1028.7	1026.4	1028.7	1039.0
12.5°	1060.9	1068.9	1056.3	1055.1	1049.4	1041.3	1045.9	1044.8	1060.9	1063.2	1075.8
15°	1110.3	1089.6	1085.0	1083.9	1081.6	1078.1	1080.4	1081.6	1102.2	1105.7	1135.6
17.5°	1152.8	1149.4	1124.1	1133.3	1133.3	1119.5	1113.7	1133.3	1149.4	1166.6	1187.3
20°	1196.5	1193.0	1165.5	1166.6	1156.3	1168.9	1162.0	1180.4	1208.0	1213.7	1232.1
22.5°	1248.2	1233.3	1213.7	1216.0	1219.5	1210.3	1205.7	1231.0	1258.6	1274.6	1275.8
25°	1329.8	1291.9	1275.8	1278.1	1273.5	1266.6	1270.0	1302.2	1316.0	1350.5	1343.6
27.5°	1373.5	1351.7	1340.2	1313.7	1314.9	1304.5	1318.3	1366.6	1394.2	1420.6	1367.7
30°	1426.4	1412.6	1362.0	1352.8	1351.7	1347.1	1372.3	1434.4	1475.8	1490.7	1414.9
32.5°	1529.8	1474.6	1462.0	1453.9	1435.6	1441.3	1453.9	1535.6	1601.1	1597.6	1458.5
35°	1648.2	1610.3	1574.6	1567.7	1565.4	1549.3	1571.2	1666.6	1717.2	1702.2	1474.6
37.5°	1837.8	1780.4	1732.1	1705.7	1701.1	1689.6	1741.3	1817.1	1882.7	1824.0	1487.3
40°	1930.9	1866.6	1821.7	1805.7	1809.1	1825.2	1875.8	1991.9	2020.6	1912.5	1497.6
42.5°	2064.3	1994.2	1905.6	1897.6	1887.3	1895.3	1993.0	2149.3	2173.5	2032.1	1458.5
45°	2301.0	2195.3	2093.0	2047.0	2049.3	2071.2	2222.9	2394.1	2349.3	2114.8	1396.5
47.5°	2599.9	2444.7	2361.9	2299.9	2329.8	2305.6	2547.0	2683.8	2530.9	2219.4	1320.6
50°	3049.3	2832.0	2719.4	2644.7	2657.3	2678.0	2922.8	3038.9	2732.0	2270.0	1204.5
52.5°	3615.9	3336.6	3171.1	3071.1	3080.3	3125.1	3441.2	3405.6	2961.9	2312.5	1049.4
55°	4294.0	4006.7	3686.0	3644.6	3634.3	3741.2	4089.4	3789.5	3168.8	2244.7	888.5
56°	4652.6	4346.9	4013.6	3928.5	3903.2	3978.0	4387.1	3981.4	3240.1	2168.9	811.5
57°	4957.2	4665.3	4299.8	4155.0	4187.1	4327.4	4682.5	4161.9	3305.6	2090.7	739.0
58°	5375.6	5042.3	4656.1	4545.7	4517.0	4628.5	5000.9	4343.5	3327.4	2010.2	672.4
59°	5792.8	5392.8	5044.6	4843.4	4851.5	5054.9	5314.7	4559.5	3360.7	1907.9	587.3
60°	6110.0	5908.9	5443.4	5292.8	5272.1	5566.4	5627.3	4704.4	3396.4	1770.0	527.6
61°	6559.4	6297.4	5864.1	5669.8	5726.1	5961.8	5965.2	4886.0	3343.5	1595.3	454.0
62°	6882.4	6813.4	6358.3	6173.2	6156.0	6468.6	6316.9	5045.7	3297.5	1429.8	401.1
63°	7260.5	7260.5	6845.6	6700.8	6708.9	6956.0	6469.8	5205.5	3244.7	1247.1	352.9
64°	7457.1	7704.2	7321.5	7118.0	7170.9	7384.7	6742.2	5310.1	3081.5	1062.0	310.3
65°	7627.2	7998.4	7785.8	7691.6	7611.1	7737.5	6977.8	5407.8	2832.0	903.4	275.8
66°	7770.9	8275.4	8205.3	8104.2	8096.1	8067.4	7023.8	5404.3	2574.6	763.2	241.4
67°	7698.5	8281.2	8408.8	8451.3	8438.6	8135.2	6943.3	5281.3	2244.7	644.8	214.9
67.5°	7632.9	8234.1	8530.6	8506.5	8559.3	8192.7	6957.1	5130.8	2010.2	583.9	202.3
68°	7575.5	8170.8	8580.0	8611.1	8584.6	8199.6	6881.3	5011.2	1850.5	548.2	190.8
69°	7139.9	7870.9	8500.7	8612.2	8544.4	7936.4	6639.9	4699.8	1470.0	467.8	175.9
70°	6703.1	7482.4	8115.7	8320.3	8236.4	7427.2	6335.3	4204.4	1212.6	400.0	158.6
71°	6098.5	6760.6	7603.1	7726.0	7624.9	6847.9	5705.5	3681.4	943.6	339.1	141.4
72°	5277.9	5839.9	6644.5	6942.2	6792.8	6014.6	5068.7	3042.4	764.3	285.0	128.7
72.5°	4871.0	5446.8	6222.7	6246.8	6275.5	5652.6	4798.6	2672.3	666.6	264.4	125.3
73°	4484.8	5049.2	5720.4	5805.4	5683.6	5042.3	4395.2	2389.5	609.2	241.4	120.7
74°	3634.3	3956.1	4512.4	4595.2	4488.3	4111.3	3591.8	1832.1	485.0	208.0	110.3
75°	2859.6	3036.6	3540.0	3489.5	3329.7	3197.5	2784.9	1399.9	393.1	182.7	102.3



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1285.0	1391.9	1475.8	1475.8	1485.0	1417.2	1283.8	642.5	242.5	132.2	83.9
80°	489.6	548.2	566.6	567.8	575.8	596.5	555.1	316.1	143.7	94.2	67.8
82.5°	355.2	496.5	534.5	506.9	509.2	459.7	212.6	140.2	90.8	65.5	49.4
85°	321.8	432.2	457.4	454.0	455.1	425.3	125.3	69.0	52.9	41.4	34.5
87.5°	156.3	152.9	162.1	182.7	178.2	231.0	105.7	34.5	23.0	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°	979.3	979.3	979.3	979.3	979.3	979.3
2.5°	973.5	972.4	988.5	972.4	981.6	974.7
5°	985.0	989.6	993.1	999.9	983.9	999.9
7.5°	1019.5	1024.1	1025.2	1031.0	1024.1	1022.9
10°	1045.9	1057.4	1064.3	1041.3	1055.1	1054.0
12.5°	1097.6	1086.2	1085.0	1080.4	1067.8	1063.2
15°	1134.4	1117.2	1106.8	1088.4	1073.5	1067.8
17.5°	1186.1	1152.8	1110.3	1072.4	1045.9	1025.2
20°	1218.3	1158.6	1073.5	1028.7	988.5	997.6
22.5°	1239.0	1152.8	1040.2	982.7	942.5	954.0
25°	1245.9	1124.1	1017.2	945.9	906.8	898.8
27.5°	1226.4	1090.7	972.4	891.9	857.4	864.3
30°	1217.2	1042.5	931.0	851.7	805.7	812.6
32.5°	1193.0	993.1	875.8	795.4	762.0	750.5
35°	1158.6	951.7	822.9	747.1	706.9	697.7
37.5°	1116.0	900.0	777.0	685.0	649.4	642.5
40°	1052.8	837.9	710.3	631.0	589.6	588.5
42.5°	997.6	778.1	648.2	566.6	525.3	527.6
45°	927.5	697.7	577.0	506.9	465.5	467.8
47.5°	837.9	623.0	509.2	431.0	396.5	394.2
50°	732.1	537.9	426.4	359.8	331.0	325.3
52.5°	631.0	451.7	349.4	289.6	265.5	263.2
55°	503.4	351.7	272.4	227.6	209.2	210.3
56°	457.4	324.1	248.3	208.0	194.2	194.2
57°	413.8	287.3	225.3	191.9	179.3	179.3
58°	365.5	252.9	204.6	173.6	167.8	163.2
59°	332.2	229.9	185.0	164.4	155.2	154.0
60°	293.1	206.9	172.4	154.0	147.1	146.0
61°	259.8	186.2	158.6	143.7	141.4	141.4
62°	232.2	172.4	147.1	139.1	137.9	134.5
63°	208.0	158.6	141.4	132.2	128.7	132.2
64°	186.2	146.0	136.8	129.9	125.3	127.6
65°	169.0	140.2	131.0	126.4	121.8	123.0
66°	157.5	131.0	126.4	120.7	118.4	119.5
67°	142.5	126.4	121.8	116.1	114.9	116.1
67.5°	137.9	123.0	119.5	113.8	112.6	113.8
68°	134.5	120.7	118.4	112.6	111.5	110.3
69°	125.3	116.1	112.6	110.3	108.0	106.9
70°	117.2	111.5	109.2	105.7	103.4	102.3
71°	112.6	105.7	104.6	101.1	98.8	97.7
72°	106.9	102.3	100.0	95.4	94.2	95.4
72.5°	105.7	100.0	98.8	94.2	93.1	93.1
73°	102.3	95.4	96.5	91.9	89.7	91.9
74°	95.4	93.1	90.8	87.4	86.2	86.2
75°	89.7	87.4	85.1	82.8	82.8	82.8



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	75.9	74.7	75.9	71.3	70.1	69.0
80°	60.9	60.9	62.1	58.6	56.3	55.2
82.5°	46.0	47.1	49.4	46.0	43.7	41.4
85°	29.9	31.0	31.0	27.6	32.2	29.9
87.5°	14.9	16.1	14.9	13.8	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)