

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: P676144

Luminaire Tested: **CCW-SA-1D-750-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676144  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-750-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T1 distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

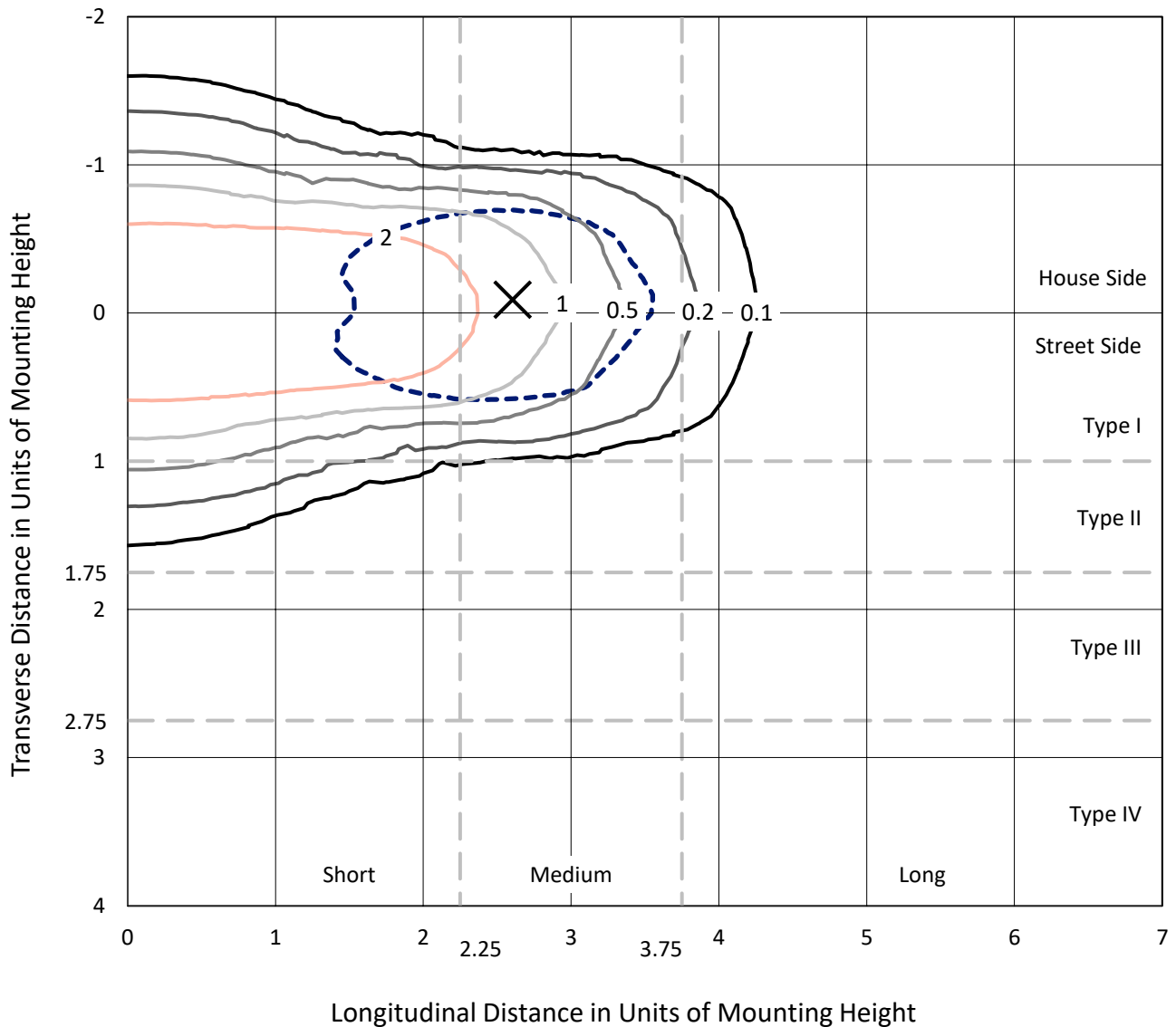
Lumens per Lamp: N/A  
Luminaire Lumens: 5555 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 44  
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

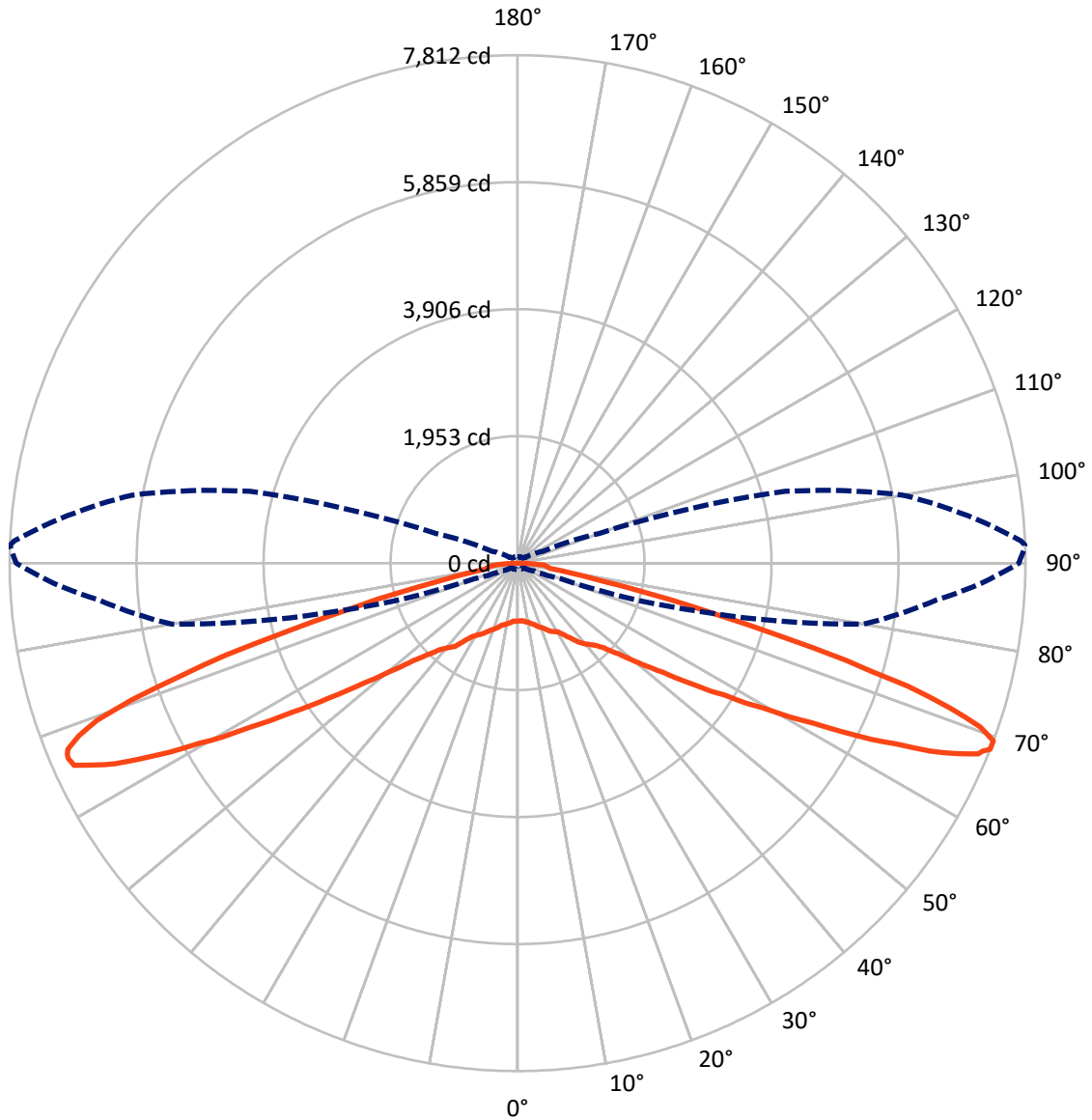
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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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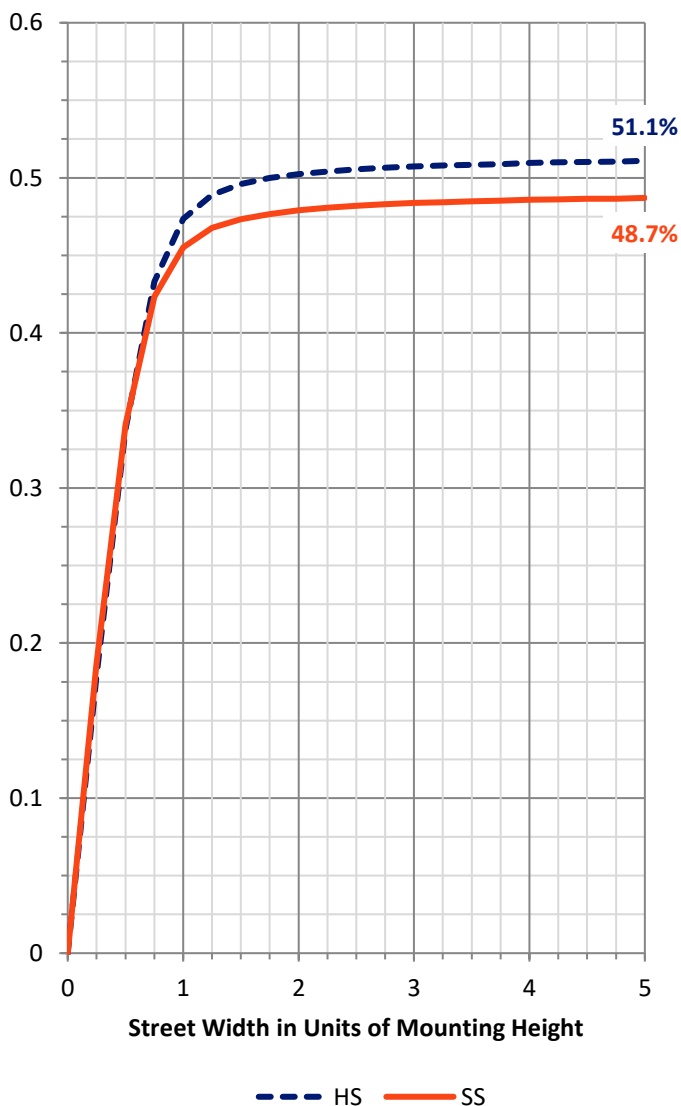
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2860.8	0.0	2860.8
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2694.3	0.0	2694.3
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	5555.0	0.0	5555.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	1.6
10°-20°	288.2	5.2
20°-30°	491.8	8.9
30°-40°	686.7	12.4
40°-50°	873.5	15.7
50°-60°	1104.4	19.9
60°-70°	1362.0	24.5
70°-80°	595.0	10.7
80°-90°	64.5	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°	5555.0	100.0
0°-180°	5555.0	100.0



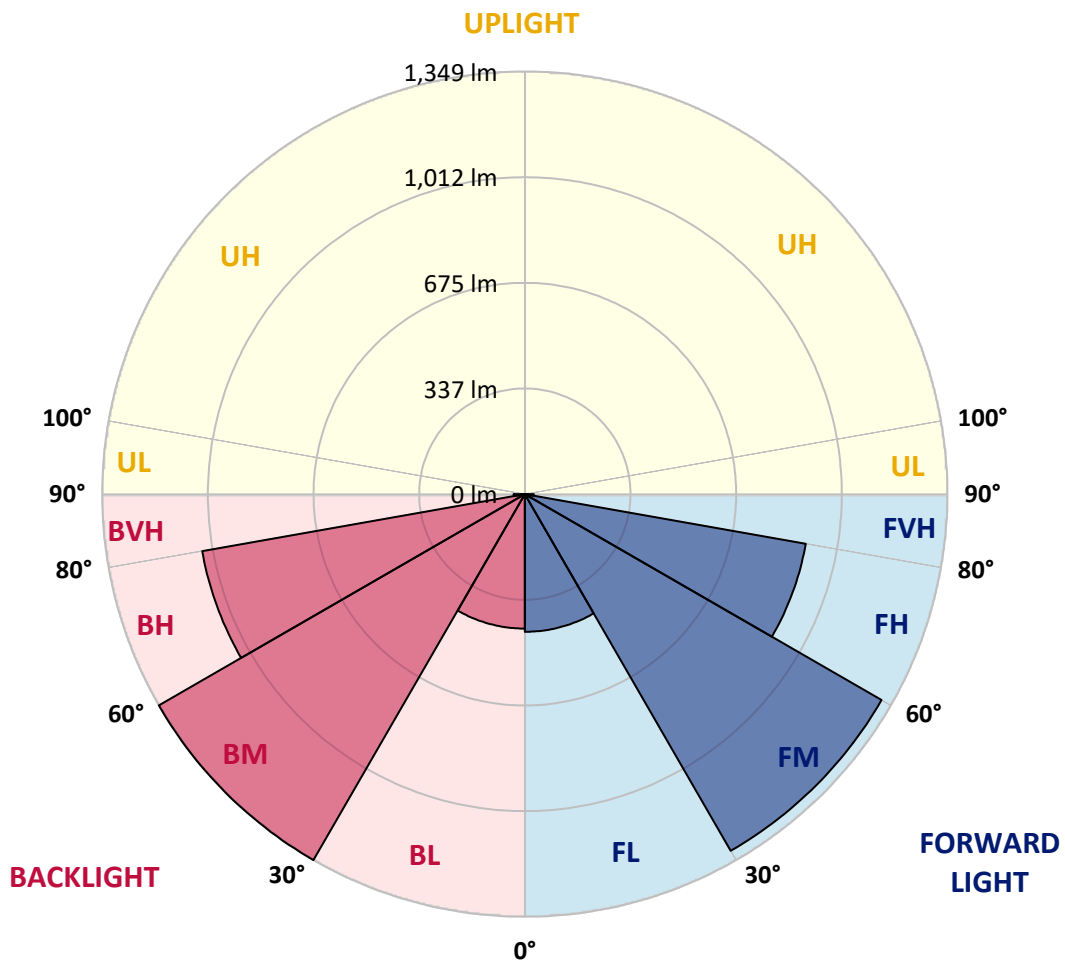
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.6	7.9			
FM (30°-60°)	1315.1	23.7			
FH (60°-80°)	910.9	16.4			G1/1800
FVH (80°-90°)	28.6	0.5			G1/100
BL (0°-30°)	429.3	7.7	B1/500		
BM (30°-60°)	1349.4	24.3	B2/2500		
BH (60°-80°)	1046.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	35.9	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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
2.5°	907.1	906.0	909.1	911.2	901.8	905.0	902.9	900.8	893.5	890.4	884.1
5°	932.1	935.2	945.6	936.3	940.4	935.2	918.5	923.7	914.4	912.3	906.0
7.5°	975.9	969.6	984.2	973.8	976.9	966.5	959.2	949.8	947.7	933.1	934.2
10°	985.3	997.8	1004.0	1001.9	1004.0	1009.2	995.7	981.1	961.3	957.1	942.5
12.5°	979.0	990.5	1007.1	1020.7	1030.1	1032.2	1027.0	1023.8	1015.5	991.5	990.5
15°	972.7	964.4	974.8	1021.7	1053.0	1073.9	1081.2	1063.4	1065.5	1034.3	1021.7
17.5°	931.0	918.5	959.2	1005.1	1043.6	1089.5	1125.0	1119.8	1119.8	1094.7	1077.0
20°	875.8	896.6	917.5	975.9	1046.8	1115.6	1183.3	1180.2	1167.7	1160.4	1121.8
22.5°	828.9	838.2	876.8	938.3	1027.0	1122.9	1203.2	1260.5	1231.3	1202.1	1179.2
25°	796.5	788.2	837.2	900.8	1008.2	1110.4	1240.7	1300.1	1315.8	1293.9	1250.1
27.5°	750.7	750.7	789.2	849.7	947.7	1104.1	1277.2	1367.9	1390.8	1358.5	1294.9
30°	698.5	704.8	738.2	807.0	902.9	1058.2	1291.8	1446.1	1464.8	1436.7	1371.0
32.5°	657.9	657.9	695.4	768.4	871.6	1037.4	1282.4	1523.2	1558.7	1537.8	1470.1
35°	614.1	611.0	638.1	718.3	821.6	996.7	1279.3	1584.7	1664.0	1665.0	1594.1
37.5°	551.5	564.0	598.5	662.0	781.9	957.1	1269.9	1658.8	1800.6	1824.5	1775.5
40°	509.8	515.0	546.3	616.2	720.4	910.2	1256.3	1719.2	1891.3	1973.6	1905.9
42.5°	449.4	456.7	480.6	567.2	661.0	843.5	1196.9	1762.0	2020.6	2114.4	2057.0
45°	385.8	389.9	425.4	496.3	597.4	764.2	1133.3	1830.8	2145.7	2337.5	2304.1
47.5°	309.7	311.7	342.0	416.0	521.3	685.0	1035.3	1827.7	2246.8	2560.6	2654.5
50°	241.9	247.1	270.0	330.5	429.6	588.0	921.7	1802.7	2374.0	2815.0	2999.6
52.5°	192.9	193.9	208.5	256.5	331.5	491.1	799.7	1723.4	2493.9	3064.2	3422.8
55°	159.5	159.5	167.9	197.1	254.4	373.3	656.8	1592.0	2508.5	3339.4	3884.7
56°	153.3	151.2	158.5	183.5	229.4	336.8	590.1	1503.4	2529.3	3466.6	4116.2
57°	144.9	146.0	150.1	167.9	206.4	298.2	516.1	1416.9	2514.7	3570.9	4287.2
58°	140.8	138.7	147.0	158.5	182.5	264.8	465.0	1314.7	2491.8	3656.4	4536.3
59°	134.5	133.5	138.7	149.1	169.9	235.6	402.4	1204.2	2447.0	3766.9	4721.9
60°	132.4	131.4	133.5	141.8	156.4	206.4	354.5	1074.9	2327.1	3880.5	4952.3
61°	126.2	127.2	131.4	136.6	148.0	185.6	319.0	942.5	2248.9	3976.5	5206.7
62°	127.2	125.1	127.2	131.4	139.7	171.0	279.4	812.2	2109.2	4084.9	5397.5
63°	120.9	119.9	123.0	128.2	132.4	154.3	244.0	701.7	1950.7	4109.9	5559.1
64°	118.9	117.8	118.9	126.2	127.2	144.9	215.8	599.5	1721.3	4152.7	5766.6
65°	113.6	113.6	115.7	118.9	123.0	136.6	192.9	520.3	1493.0	4040.1	5830.2
66°	109.5	110.5	110.5	115.7	118.9	127.2	177.2	442.1	1274.1	3860.7	5891.7
67°	106.3	106.3	107.4	111.6	114.7	119.9	159.5	382.6	1074.9	3647.0	5796.8
67.5°	104.3	105.3	105.3	109.5	112.6	119.9	152.2	362.8	961.3	3412.4	5725.9
68°	101.1	102.2	102.2	106.3	109.5	115.7	147.0	331.5	886.2	3260.2	5594.6
69°	99.0	98.0	98.0	102.2	106.3	110.5	136.6	289.8	704.8	2834.8	5402.7
70°	92.8	92.8	94.9	98.0	101.1	105.3	126.2	255.4	596.4	2346.9	4908.6
71°	89.7	88.6	89.7	92.8	95.9	101.1	115.7	226.2	487.9	1948.6	4422.7
72°	83.4	85.5	85.5	88.6	91.7	94.9	108.4	197.1	409.7	1557.6	3887.8
72.5°	82.4	82.4	83.4	86.5	88.6	93.8	104.3	188.7	374.3	1373.1	3663.7
73°	79.2	79.2	80.3	83.4	85.5	90.7	101.1	169.9	340.9	1221.9	3244.6
74°	76.1	75.1	75.1	79.2	80.3	85.5	94.9	150.1	285.7	920.6	2604.4
75°	70.9	70.9	71.9	74.0	75.1	79.2	87.6	133.5	240.8	714.2	2037.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	58.4	59.4	60.5	62.6	62.6	65.7	71.9	92.8	147.0	361.8	935.2
80°	42.7	44.8	48.0	51.1	50.0	50.0	56.3	66.7	87.6	162.6	358.7
82.5°	34.4	36.5	33.4	37.5	37.5	35.4	40.7	49.0	59.4	80.3	128.2
85°	22.9	24.0	19.8	22.9	21.9	21.9	27.1	29.2	36.5	44.8	63.6
87.5°	10.4	10.4	8.3	9.4	9.4	9.4	13.6	10.4	15.6	21.9	37.5
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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
2.5°	890.4	894.5	894.5	890.4	887.3	890.4	888.3	883.1	888.3	890.4	891.4
5°	902.9	894.5	898.7	889.3	895.6	894.5	892.5	897.7	898.7	898.7	906.0
7.5°	916.4	926.9	913.3	914.4	917.5	905.0	909.1	911.2	907.1	915.4	921.7
10°	940.4	944.6	940.4	924.8	935.2	926.9	923.7	933.1	931.0	933.1	942.5
12.5°	962.3	969.6	958.1	957.1	951.9	944.6	948.8	947.7	962.3	964.4	975.9
15°	1007.1	988.4	984.2	983.2	981.1	978.0	980.0	981.1	999.9	1003.0	1030.1
17.5°	1045.7	1042.6	1019.7	1028.0	1028.0	1015.5	1010.3	1028.0	1042.6	1058.2	1077.0
20°	1085.3	1082.2	1057.2	1058.2	1048.9	1060.3	1054.1	1070.7	1095.8	1101.0	1117.7
22.5°	1132.3	1118.7	1101.0	1103.1	1106.2	1097.9	1093.7	1116.6	1141.6	1156.2	1157.3
25°	1206.3	1171.9	1157.3	1159.4	1155.2	1148.9	1152.1	1181.3	1193.8	1225.1	1218.8
27.5°	1245.9	1226.1	1215.7	1191.7	1192.7	1183.3	1195.9	1239.6	1264.7	1288.7	1240.7
30°	1293.9	1281.4	1235.5	1227.1	1226.1	1221.9	1244.9	1301.2	1338.7	1352.2	1283.4
32.5°	1387.7	1337.7	1326.2	1318.9	1302.2	1307.4	1318.9	1392.9	1452.3	1449.2	1323.1
35°	1495.1	1460.7	1428.4	1422.1	1420.0	1405.4	1425.2	1511.8	1557.6	1544.1	1337.7
37.5°	1667.1	1615.0	1571.2	1547.2	1543.0	1532.6	1579.5	1648.3	1707.8	1654.6	1349.1
40°	1751.6	1693.2	1652.5	1637.9	1641.0	1655.6	1701.5	1806.8	1832.9	1734.9	1358.5
42.5°	1872.5	1808.9	1728.6	1721.3	1711.9	1719.2	1807.9	1949.7	1971.6	1843.3	1323.1
45°	2087.3	1991.4	1898.6	1856.9	1859.0	1878.8	2016.4	2171.7	2131.1	1918.4	1266.8
47.5°	2358.4	2217.6	2142.5	2086.2	2113.3	2091.5	2310.4	2434.5	2295.8	2013.3	1197.9
50°	2766.0	2569.0	2466.8	2399.0	2410.5	2429.3	2651.3	2756.6	2478.3	2059.1	1092.6
52.5°	3280.0	3026.7	2876.5	2785.8	2794.2	2834.8	3121.5	3089.2	2686.8	2097.7	951.9
55°	3895.1	3634.5	3343.6	3306.1	3296.7	3393.7	3709.6	3437.4	2874.4	2036.2	805.9
56°	4220.4	3943.1	3640.8	3563.6	3540.7	3608.4	3979.6	3611.6	2939.1	1967.4	736.1
57°	4496.7	4231.9	3900.4	3769.0	3798.2	3925.4	4247.5	3775.2	2998.5	1896.5	670.4
58°	4876.2	4573.9	4223.6	4123.5	4097.4	4198.5	4536.3	3940.0	3018.3	1823.5	609.9
59°	5254.7	4891.9	4576.0	4393.5	4400.8	4585.3	4821.0	4136.0	3048.6	1730.7	532.8
60°	5542.5	5360.0	4937.7	4801.2	4782.4	5049.3	5104.6	4267.4	3080.9	1605.6	478.6
61°	5950.1	5712.4	5319.3	5143.1	5194.2	5408.0	5411.1	4432.1	3032.9	1447.1	411.8
62°	6243.1	6180.5	5767.7	5599.8	5584.2	5867.7	5730.1	4577.0	2991.2	1297.0	363.9
63°	6586.1	6586.1	6209.7	6078.3	6085.6	6309.8	5868.8	4721.9	2943.3	1131.2	320.1
64°	6764.4	6988.5	6641.3	6456.8	6504.8	6698.7	6115.9	4816.8	2795.2	963.4	281.5
65°	6918.7	7255.4	7062.6	6977.1	6904.1	7018.8	6329.6	4905.4	2569.0	819.5	250.2
66°	7049.0	7506.7	7443.1	7351.4	7344.1	7318.0	6371.3	4902.3	2335.4	692.3	218.9
67°	6983.3	7511.9	7627.6	7666.2	7654.8	7379.5	6298.3	4790.7	2036.2	584.9	195.0
67.5°	6923.9	7469.2	7738.2	7716.3	7764.2	7431.6	6310.8	4654.2	1823.5	529.6	183.5
68°	6871.8	7411.8	7783.0	7811.1	7787.2	7437.9	6242.0	4545.7	1678.6	497.3	173.1
69°	6476.6	7139.7	7711.1	7812.2	7750.7	7199.1	6023.1	4263.2	1333.5	424.3	159.5
70°	6080.4	6787.3	7361.8	7547.4	7471.3	6737.3	5746.8	3813.8	1099.9	362.8	143.9
71°	5532.0	6132.6	6896.8	7008.3	6916.6	6211.8	5175.5	3339.4	856.0	307.6	128.2
72°	4787.6	5297.4	6027.3	6297.3	6161.8	5455.9	4597.9	2759.8	693.3	258.6	116.8
72.5°	4418.5	4940.9	5644.6	5666.5	5692.6	5127.5	4352.8	2424.0	604.7	239.8	113.6
73°	4068.2	4580.1	5189.0	5266.2	5155.6	4573.9	3986.9	2167.6	552.6	218.9	109.5
74°	3296.7	3588.6	4093.2	4168.3	4071.3	3729.4	3258.1	1661.9	440.0	188.7	100.1
75°	2594.0	2754.5	3211.2	3165.3	3020.4	2900.5	2526.2	1269.9	356.6	165.8	92.8



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1165.6	1262.6	1338.7	1338.7	1347.0	1285.5	1164.6	582.8	220.0	119.9	76.1
80°	444.1	497.3	514.0	515.0	522.3	541.1	503.6	286.7	130.3	85.5	61.5
82.5°	322.2	450.4	484.8	459.8	461.9	417.0	192.9	127.2	82.4	59.4	44.8
85°	291.9	392.0	415.0	411.8	412.9	385.8	113.6	62.6	48.0	37.5	31.3
87.5°	141.8	138.7	147.0	165.8	161.6	209.6	95.9	31.3	20.9	15.6	15.6
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°	888.3	888.3	888.3	888.3	888.3	888.3
2.5°	883.1	882.0	896.6	882.0	890.4	884.1
5°	893.5	897.7	900.8	907.1	892.5	907.1
7.5°	924.8	929.0	930.0	935.2	929.0	927.9
10°	948.8	959.2	965.4	944.6	957.1	956.1
12.5°	995.7	985.3	984.2	980.0	968.6	964.4
15°	1029.0	1013.4	1004.0	987.3	973.8	968.6
17.5°	1076.0	1045.7	1007.1	972.7	948.8	930.0
20°	1105.2	1050.9	973.8	933.1	896.6	905.0
22.5°	1123.9	1045.7	943.6	891.4	854.9	865.4
25°	1130.2	1019.7	922.7	858.1	822.6	815.3
27.5°	1112.5	989.4	882.0	809.1	777.8	784.0
30°	1104.1	945.6	844.5	772.6	730.9	737.1
32.5°	1082.2	900.8	794.5	721.5	691.2	680.8
35°	1050.9	863.3	746.5	677.7	641.2	632.9
37.5°	1012.4	816.4	704.8	621.4	589.1	582.8
40°	955.0	760.1	644.3	572.4	534.9	533.8
42.5°	905.0	705.8	588.0	514.0	476.5	478.6
45°	841.4	632.9	523.4	459.8	422.3	424.3
47.5°	760.1	565.1	461.9	391.0	359.7	357.6
50°	664.1	487.9	386.8	326.3	300.3	295.1
52.5°	572.4	409.7	316.9	262.7	240.8	238.8
55°	456.7	319.0	247.1	206.4	189.8	190.8
56°	415.0	294.0	225.2	188.7	176.2	176.2
57°	375.3	260.6	204.3	174.1	162.6	162.6
58°	331.5	229.4	185.6	157.4	152.2	148.0
59°	301.3	208.5	167.9	149.1	140.8	139.7
60°	265.9	187.7	156.4	139.7	133.5	132.4
61°	235.6	168.9	143.9	130.3	128.2	128.2
62°	210.6	156.4	133.5	126.2	125.1	122.0
63°	188.7	143.9	128.2	119.9	116.8	119.9
64°	168.9	132.4	124.1	117.8	113.6	115.7
65°	153.3	127.2	118.9	114.7	110.5	111.6
66°	142.8	118.9	114.7	109.5	107.4	108.4
67°	129.3	114.7	110.5	105.3	104.3	105.3
67.5°	125.1	111.6	108.4	103.2	102.2	103.2
68°	122.0	109.5	107.4	102.2	101.1	100.1
69°	113.6	105.3	102.2	100.1	98.0	97.0
70°	106.3	101.1	99.0	95.9	93.8	92.8
71°	102.2	95.9	94.9	91.7	89.7	88.6
72°	97.0	92.8	90.7	86.5	85.5	86.5
72.5°	95.9	90.7	89.7	85.5	84.5	84.5
73°	92.8	86.5	87.6	83.4	81.3	83.4
74°	86.5	84.5	82.4	79.2	78.2	78.2
75°	81.3	79.2	77.2	75.1	75.1	75.1



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	68.8	67.8	68.8	64.6	63.6	62.6
80°	55.3	55.3	56.3	53.2	51.1	50.0
82.5°	41.7	42.7	44.8	41.7	39.6	37.5
85°	27.1	28.2	28.2	25.0	29.2	27.1
87.5°	13.6	14.6	13.6	12.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)