

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: P677505

Luminaire Tested: **CCW-SA-1C-850-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677505  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

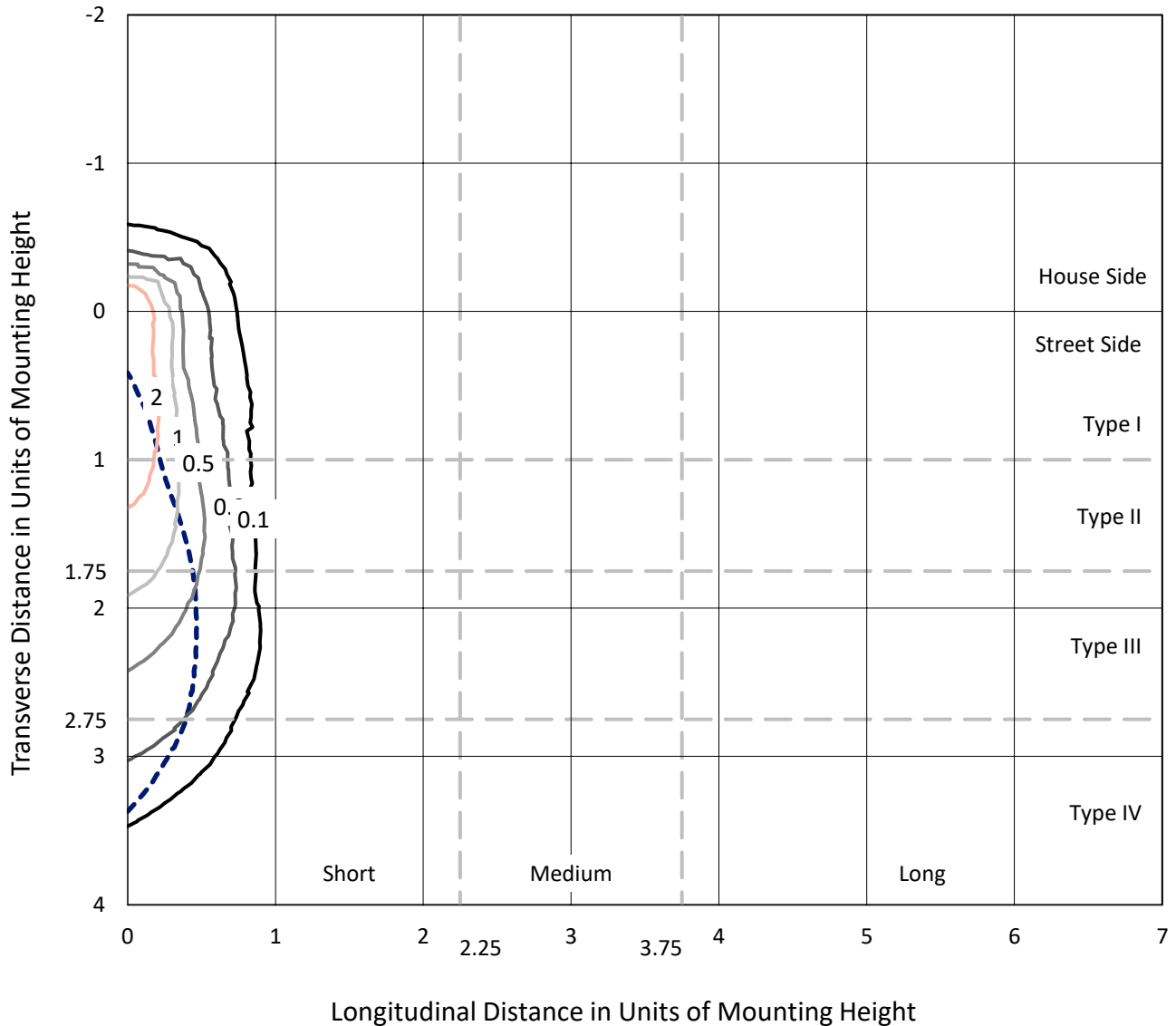
Lumens per Lamp: N/A  
Luminaire Lumens: 2835.2 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

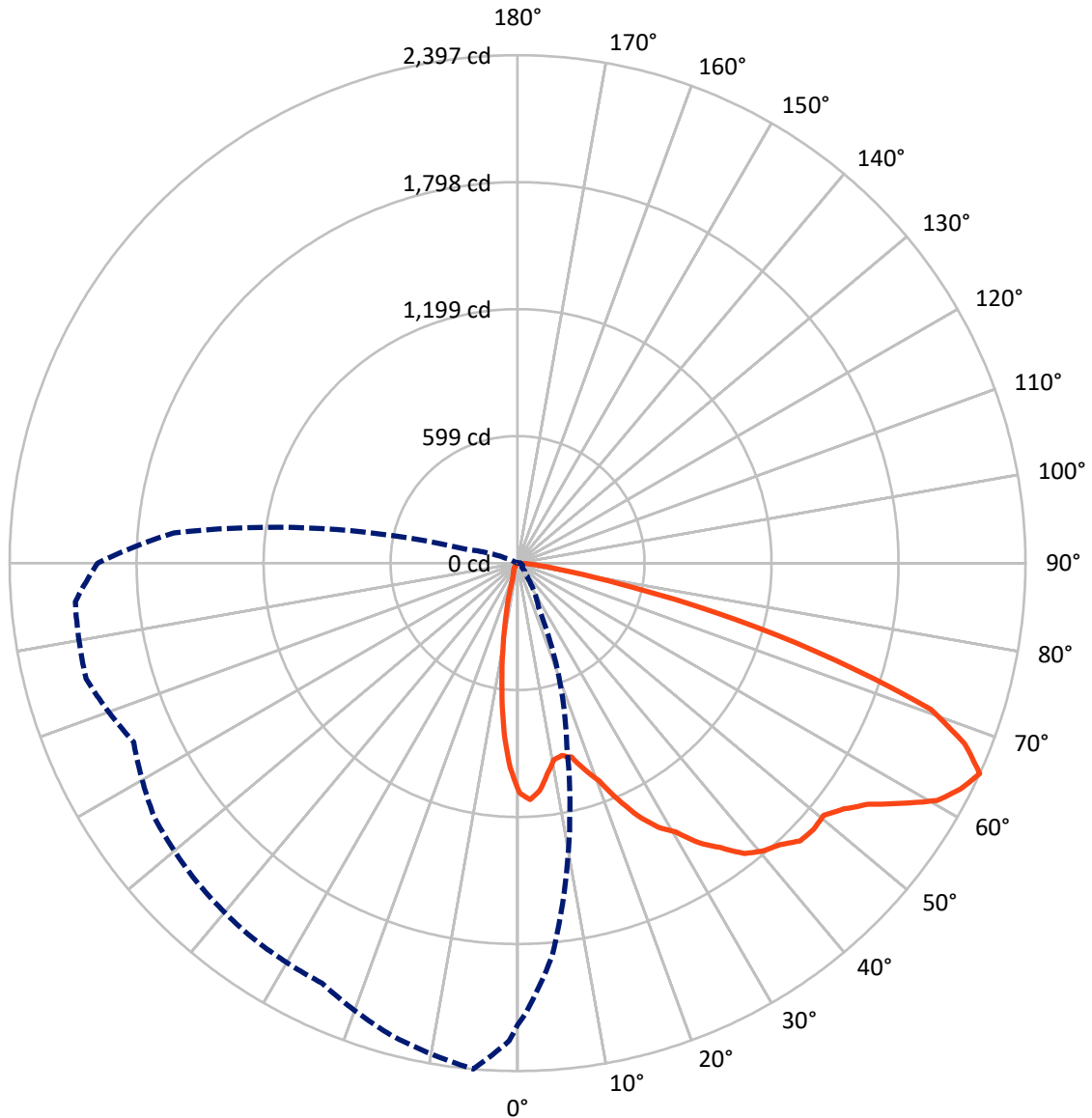
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	368.1	0.0	368.1
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2467.1	0.0	2467.1
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2835.2	0.0	2835.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	2.9
10°-20°	159.0	5.6
20°-30°	221.4	7.8
30°-40°	314.6	11.1
40°-50°	436.3	15.4
50°-60°	594.5	21.0
60°-70°	653.6	23.1
70°-80°	321.2	11.3
80°-90°	52.5	1.9
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°	2835.2	100.0
0°-180°	2835.2	100.0



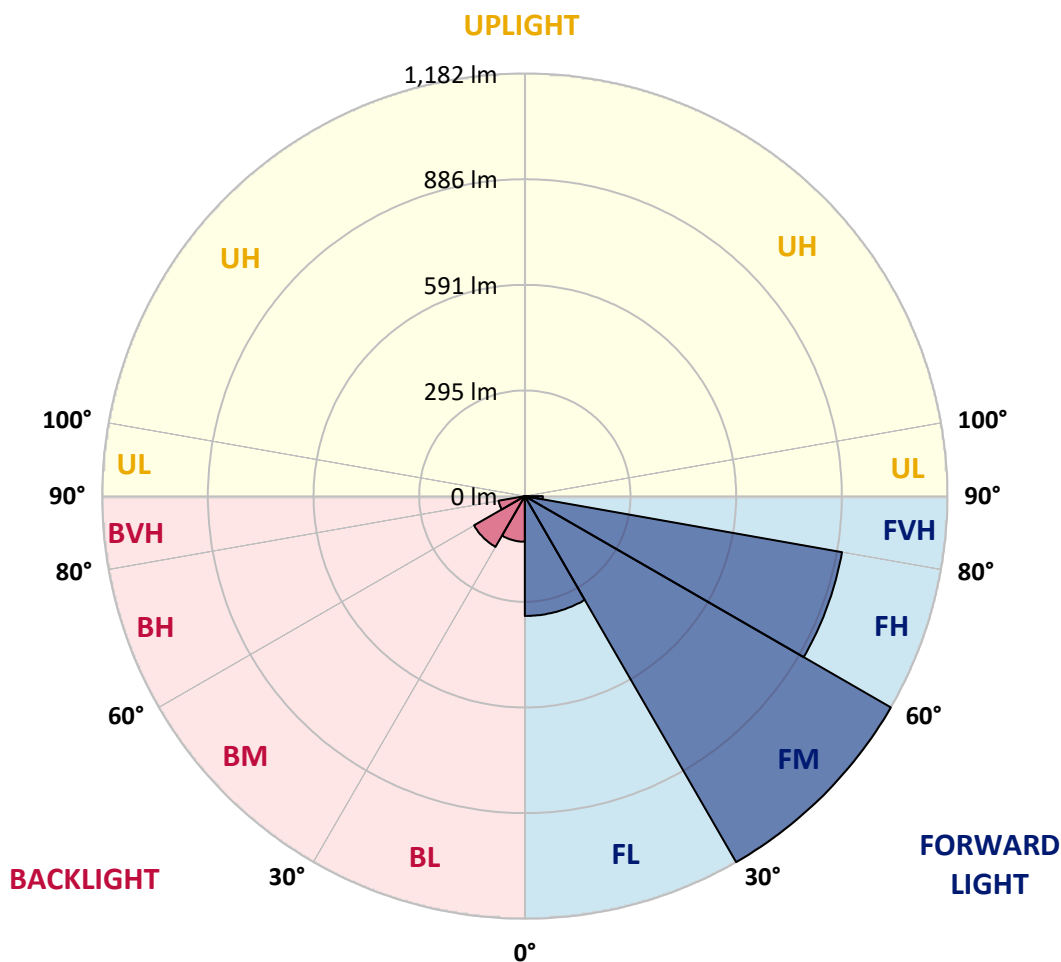
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.1	11.8			
FM (30°-60°)	1181.5	41.7			
FH (60°-80°)	900.4	31.8			G1/1800
FVH (80°-90°)	50.1	1.8			G1/100
BL (0°-30°)	127.5	4.5	B1/500		
BM (30°-60°)	163.9	5.8	B0/220		
BH (60°-80°)	74.4	2.6	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1106.1	1119.1	1106.8	1064.0	1056.4	1035.7	1004.4	1002.1	969.2	973.1	955.5
5°	1039.6	1052.5	1026.6	970.0	917.3	875.2	850.0	804.9	795.0	772.8	772.8
7.5°	971.5	970.8	926.4	879.0	800.3	723.1	687.9	623.0	584.7	564.1	544.2
10°	915.0	902.7	875.2	777.4	691.8	611.5	567.9	525.1	485.4	451.0	416.6
12.5°	875.2	882.9	839.3	733.0	622.2	566.4	519.8	474.7	427.3	388.3	350.1
15°	895.9	883.6	832.4	723.1	610.7	534.3	472.4	417.4	364.6	313.4	284.3
17.5°	960.1	928.7	868.3	723.1	587.0	485.4	410.5	345.5	288.9	243.1	207.1
20°	1046.4	1010.5	945.5	749.9	569.5	449.5	347.0	265.2	206.4	163.6	136.1
22.5°	1135.1	1106.8	1009.0	760.6	548.8	401.3	273.6	191.9	137.6	110.1	96.3
25°	1241.4	1201.6	1094.6	803.4	518.2	354.7	215.6	133.8	102.4	87.9	79.5
27.5°	1326.2	1319.3	1174.9	829.4	495.3	316.5	170.5	106.2	84.8	74.1	68.8
30°	1433.2	1395.8	1272.7	881.3	469.3	272.9	142.2	95.5	78.0	66.5	62.7
32.5°	1497.4	1479.8	1323.9	910.4	440.3	237.0	122.3	84.1	71.1	62.7	58.9
35°	1590.7	1555.5	1397.3	928.7	425.0	216.3	110.1	76.4	59.6	51.2	46.6
37.5°	1694.6	1681.6	1485.2	928.0	402.8	204.1	101.7	71.1	56.6	47.4	42.0
40°	1800.9	1748.1	1538.7	949.4	391.4	194.9	95.5	68.0	53.5	45.1	38.2
42.5°	1880.4	1820.0	1600.6	941.7	377.6	178.9	93.3	63.4	51.2	41.3	35.2
45°	1901.8	1880.4	1656.4	939.4	367.7	165.9	89.4	62.7	49.7	39.0	32.9
47.5°	1943.1	1928.5	1725.2	943.2	360.0	155.9	80.3	64.2	47.4	36.7	31.3
50°	1961.4	1935.4	1781.0	952.4	342.4	143.7	71.9	67.3	46.6	35.9	29.8
52.5°	2037.1	2014.1	1857.4	978.4	327.9	127.7	63.4	64.2	48.2	33.6	28.3
55°	2111.2	2085.2	1975.2	1038.0	307.3	114.7	54.3	56.6	45.9	30.6	25.2
57.5°	2212.9	2170.1	2053.9	1062.5	288.9	97.1	48.2	46.6	42.8	27.5	22.2
60°	2228.2	2245.7	2042.4	1047.2	269.8	85.6	42.0	35.9	45.9	24.5	19.1
62.5°	2279.4	2206.0	1988.9	1012.0	256.1	78.7	37.5	29.8	39.7	21.4	16.1
65°	2180.8	2126.5	1863.6	898.9	238.5	79.5	32.9	24.5	25.2	17.6	13.0
67.5°	2036.3	1993.5	1655.6	775.8	220.9	78.0	29.0	21.4	19.1	15.3	11.5
70°	1787.1	1694.6	1406.5	629.8	194.9	72.6	24.5	19.1	16.1	12.2	8.4
72.5°	1300.2	1262.8	1009.0	486.9	175.0	65.7	22.9	16.1	13.8	9.2	6.9
75°	875.2	813.3	636.7	319.5	140.6	57.3	19.1	14.5	10.7	6.9	5.4
77.5°	462.4	437.2	360.8	152.1	78.0	26.8	10.7	8.4	6.1	5.4	3.1
80°	200.3	178.1	155.9	61.9	27.5	12.2	6.9	4.6	3.8	3.1	1.5
82.5°	102.4	97.8	81.0	26.8	16.1	9.2	3.8	3.1	2.3	1.5	0.8
85°	50.4	52.0	42.8	8.4	9.2	5.4	0.8	0.8	0.0	0.0	0.0
87.5°	3.8	3.8	3.1	1.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	948.6	959.3	941.0	952.4	947.1	949.4	951.7	945.5	947.1	968.5	969.2
5°	759.8	780.4	772.8	783.5	801.8	792.7	801.1	799.5	801.1	804.1	817.9
7.5°	541.9	535.8	550.4	578.6	611.5	631.4	621.4	616.1	613.0	605.4	614.6
10°	408.9	405.9	402.1	410.5	431.9	454.0	466.3	445.6	434.2	419.6	414.3
12.5°	339.4	320.3	309.6	296.6	302.7	322.6	323.3	303.5	285.1	277.5	285.9
15°	267.5	254.5	235.4	217.1	207.9	223.2	210.2	191.1	167.4	164.3	163.6
17.5°	191.1	183.5	169.7	162.0	151.3	147.5	133.8	104.7	87.9	83.3	84.8
20°	129.9	123.8	123.1	116.2	111.6	108.5	86.4	67.3	61.9	62.7	63.4
22.5°	96.3	93.3	89.4	88.7	84.8	81.0	63.4	56.6	52.7	52.7	55.0
25°	78.7	77.2	73.4	71.9	70.3	65.0	53.5	48.2	46.6	45.1	47.4
27.5°	67.3	66.5	64.2	61.9	60.4	55.0	46.6	42.0	40.5	40.5	40.5
30°	60.4	60.4	57.3	52.7	52.7	46.6	39.7	36.7	35.2	35.2	34.4
32.5°	56.6	55.0	51.2	48.2	45.9	39.7	35.2	32.1	29.8	29.8	30.6
35°	45.9	45.9	45.1	42.8	39.7	33.6	29.8	26.8	25.2	24.5	25.2
37.5°	40.5	38.2	35.2	35.9	34.4	29.0	25.2	22.9	20.6	20.6	20.6
40°	36.7	34.4	31.3	29.0	28.3	26.0	22.2	18.3	16.1	15.3	15.3
42.5°	32.9	31.3	26.8	22.9	22.2	22.2	16.8	13.8	11.5	11.5	11.5
45°	30.6	28.3	24.5	19.9	16.1	16.8	13.8	9.9	8.4	7.6	7.6
47.5°	29.0	26.8	21.4	16.8	12.2	12.2	9.9	6.9	5.4	4.6	4.6
50°	26.8	24.5	19.1	13.8	9.2	7.6	6.1	3.8	2.3	1.5	1.5
52.5°	25.2	22.9	16.8	11.5	7.6	5.4	3.8	0.8	0.0	0.0	0.0
55°	22.9	19.9	14.5	9.2	6.1	3.1	0.8	0.0	0.0	0.0	0.0
57.5°	19.9	17.6	11.5	6.9	3.8	0.8	0.0	0.0	0.0	0.0	0.0
60°	16.8	14.5	9.2	5.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13.8	12.2	6.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.5	9.2	5.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9.9	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.6	5.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.4	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	972.3	995.2	1016.6	1022.7	1039.6	1086.2	1086.2	1108.3	1148.1	1162.6	1165.7
5°	820.2	844.6	849.2	896.6	918.8	966.2	997.5	1072.4	1117.5	1145.8	1163.4
7.5°	623.7	632.1	649.7	694.1	737.6	795.0	854.6	950.1	1029.6	1061.7	1121.3
10°	428.8	454.0	492.3	532.0	600.0	663.5	740.7	830.9	928.7	968.5	1019.7
12.5°	288.9	324.1	385.2	441.8	504.5	568.7	642.1	762.9	873.7	928.7	979.9
15°	168.9	211.7	264.5	356.2	439.5	511.4	584.7	707.1	841.6	912.7	975.3
17.5°	85.6	98.6	142.2	221.7	331.7	449.5	558.8	714.7	866.0	953.2	1005.2
20°	64.2	68.0	80.3	117.7	227.0	371.5	534.3	726.2	934.1	1040.3	1068.6
22.5°	55.8	58.9	64.2	76.4	127.7	284.3	499.9	754.4	1026.6	1126.7	1186.3
25°	47.4	50.4	55.0	62.7	81.8	193.4	457.9	784.3	1109.1	1235.2	1291.0
27.5°	41.3	43.6	48.2	54.3	66.5	123.1	385.2	824.0	1235.2	1366.7	1381.2
30°	35.2	37.5	41.3	48.2	56.6	87.1	282.8	829.4	1304.8	1424.0	1464.5
32.5°	30.6	31.3	35.9	42.0	47.4	68.8	198.7	834.7	1356.0	1498.2	1506.6
35°	25.2	26.8	31.3	35.2	41.3	54.3	150.6	807.9	1422.5	1574.6	1572.3
37.5°	20.6	22.9	26.0	29.0	33.6	45.9	120.0	758.3	1505.8	1693.1	1621.2
40°	16.1	18.3	21.4	25.2	28.3	41.3	90.2	683.4	1593.0	1751.2	1674.8
42.5°	11.5	13.0	16.1	19.9	25.2	34.4	65.0	594.7	1627.4	1819.2	1739.0
45°	8.4	9.9	12.2	16.8	26.0	27.5	45.1	513.7	1664.1	1849.0	1724.4
47.5°	4.6	6.1	9.2	14.5	22.9	20.6	32.1	441.0	1706.1	1875.8	1735.9
50°	1.5	2.3	5.4	15.3	18.3	16.1	25.2	402.1	1747.4	1881.1	1758.8
52.5°	0.0	0.0	3.1	16.1	13.8	12.2	22.2	386.8	1736.7	1898.0	1744.3
55°	0.0	0.0	0.8	6.9	7.6	9.2	18.3	386.0	1812.3	1903.3	1823.8
57.5°	0.0	0.0	0.0	2.3	4.6	7.6	16.1	361.6	1860.5	2036.3	1930.8
60°	0.0	0.0	0.0	0.8	3.1	5.4	12.2	340.1	1909.4	2095.9	2045.5
62.5°	0.0	0.0	0.0	0.0	0.8	2.3	8.4	307.3	1810.8	2091.3	2156.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	243.1	1628.9	1982.0	2095.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	168.2	1426.3	1844.4	1982.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.7	1151.2	1617.4	1681.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	821.7	1284.2	1379.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	508.3	938.7	1056.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	329.4	710.9	801.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	175.8	445.6	518.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	270.6	311.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	164.3	187.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	33.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1167.2	1189.4	1197.8	1184.8	1186.3	1159.6	1155.7	1118.3	1103.0	1106.1
5°	1220.7	1252.8	1270.4	1255.9	1223.0	1171.8	1125.2	1080.8	1053.3	1039.6
7.5°	1208.5	1244.4	1266.6	1280.3	1242.9	1160.3	1089.2	1005.9	970.8	971.5
10°	1141.2	1216.1	1261.2	1243.6	1226.1	1143.5	1033.4	943.2	911.9	915.0
12.5°	1086.9	1170.3	1197.0	1210.8	1174.9	1109.1	1035.0	931.8	896.6	875.2
15°	1053.3	1115.2	1116.8	1138.2	1123.6	1123.6	1051.0	950.1	919.5	895.9
17.5°	1053.3	1067.1	1065.5	1073.2	1097.6	1126.7	1091.5	1024.3	963.9	960.1
20°	1077.0	1034.2	1024.3	1027.3	1048.0	1134.3	1181.0	1096.9	1058.7	1046.4
22.5°	1132.0	1038.0	977.6	966.9	1030.4	1133.6	1238.3	1211.5	1145.0	1135.1
25°	1207.7	1031.1	965.4	951.7	999.8	1161.1	1317.0	1322.4	1262.0	1241.4
27.5°	1279.6	1061.7	963.9	960.8	1024.3	1155.0	1371.3	1411.0	1343.0	1326.2
30°	1304.0	1092.3	992.2	951.7	1033.4	1177.1	1369.8	1473.7	1429.4	1433.2
32.5°	1333.1	1122.9	995.2	979.2	1072.4	1213.1	1413.3	1574.6	1542.5	1497.4
35°	1375.9	1164.1	1024.3	1009.7	1099.9	1245.2	1422.5	1648.8	1643.4	1590.7
37.5°	1412.6	1204.7	1084.7	1086.9	1184.0	1297.2	1463.0	1739.7	1730.6	1694.6
40°	1438.6	1261.2	1178.7	1184.8	1257.4	1355.2	1534.9	1785.6	1853.6	1800.9
42.5°	1442.4	1311.7	1286.4	1335.4	1403.4	1445.4	1563.9	1816.9	1914.8	1880.4
45°	1456.9	1391.9	1462.3	1498.2	1554.0	1524.9	1562.4	1870.4	1919.4	1901.8
47.5°	1513.5	1537.9	1626.6	1735.9	1755.8	1660.2	1599.1	1878.8	1945.3	1943.1
50°	1572.3	1694.6	1819.2	1891.8	1917.1	1753.5	1633.5	1872.0	1979.7	1961.4
52.5°	1638.1	1830.7	2010.3	2099.7	2086.0	1856.7	1672.5	1927.8	2043.2	2037.1
55°	1679.3	1891.8	2133.4	2258.0	2247.3	1972.1	1796.3	2008.0	2126.5	2111.2
57.5°	1788.6	1991.2	2255.7	2313.8	2342.1	2123.4	1882.7	2139.5	2196.1	2212.9
60°	1878.8	2056.2	2287.8	2371.9	2381.8	2213.6	2034.0	2274.8	2284.7	2228.2
62.5°	2011.1	2081.4	2219.8	2295.4	2346.6	2264.9	2170.1	2347.4	2283.2	2279.4
65°	2108.2	1998.9	2092.9	2134.9	2167.8	2186.9	2306.9	2397.1	2254.9	2180.8
67.5°	2053.9	1842.9	1825.3	1827.6	1837.6	1953.0	2261.0	2275.6	2097.5	2036.3
70°	1807.8	1511.9	1488.2	1506.6	1456.9	1596.0	2075.3	2068.4	1850.6	1787.1
72.5°	1462.3	1102.2	1061.7	1086.9	1098.4	1245.9	1745.8	1568.5	1349.9	1300.2
75°	1161.9	807.9	681.8	743.0	782.0	907.3	1363.7	1065.5	942.5	875.2
77.5°	912.7	611.5	530.5	506.0	541.9	659.7	992.2	559.5	493.8	462.4
80°	578.6	449.5	487.7	452.5	467.8	470.9	516.7	254.5	202.6	200.3
82.5°	348.6	307.3	365.4	201.0	366.1	327.2	214.8	115.4	102.4	102.4
85°	246.9	190.3	126.1	81.8	162.8	179.6	83.3	59.6	52.0	50.4
87.5°	123.8	58.9	28.3	18.3	20.6	33.6	9.9	4.6	4.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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