

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: P677395

Luminaire Tested: **CCW-SA-1C-727-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677395  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

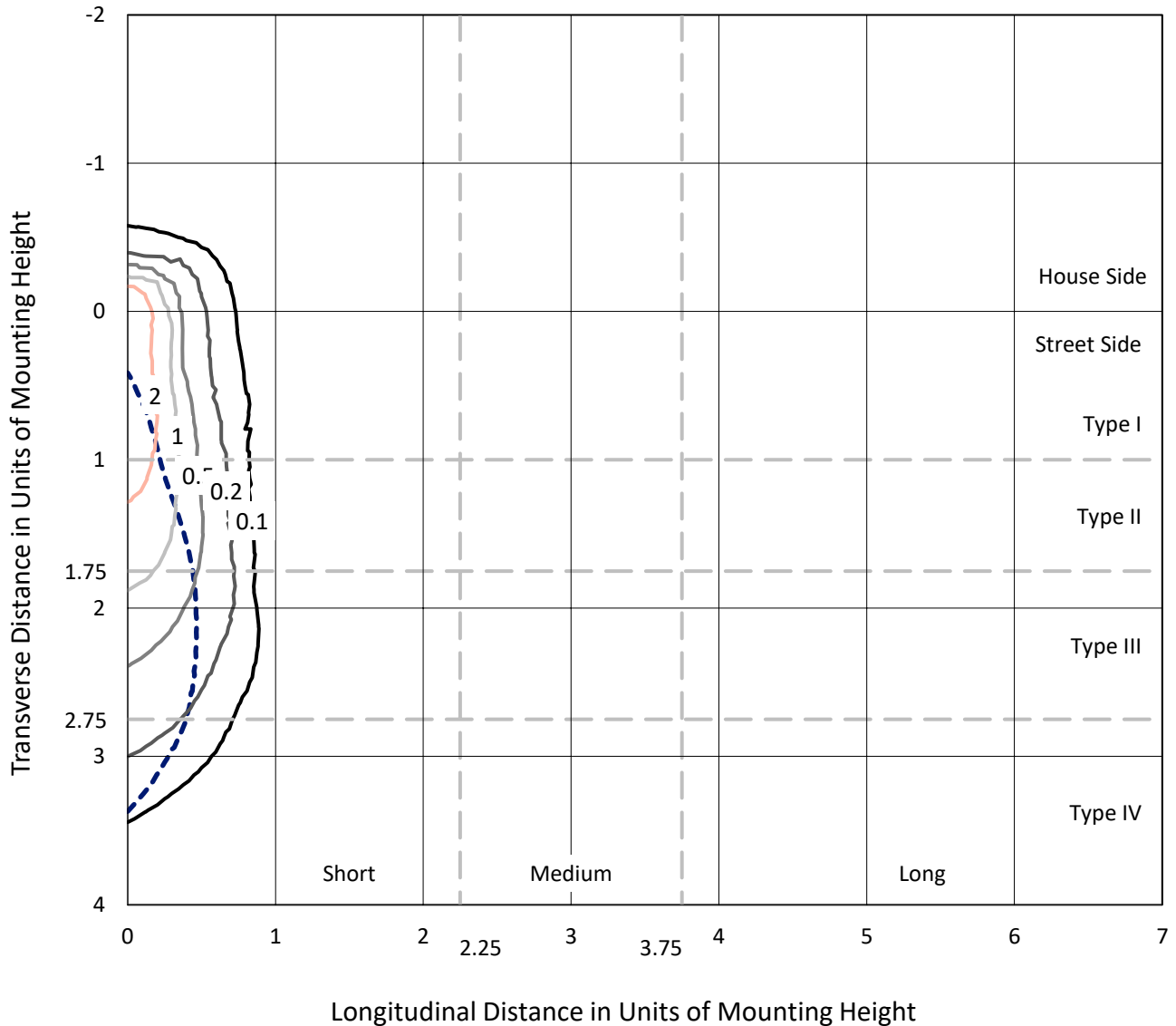
Lumens per Lamp: N/A  
Luminaire Lumens: 2717.2 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (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

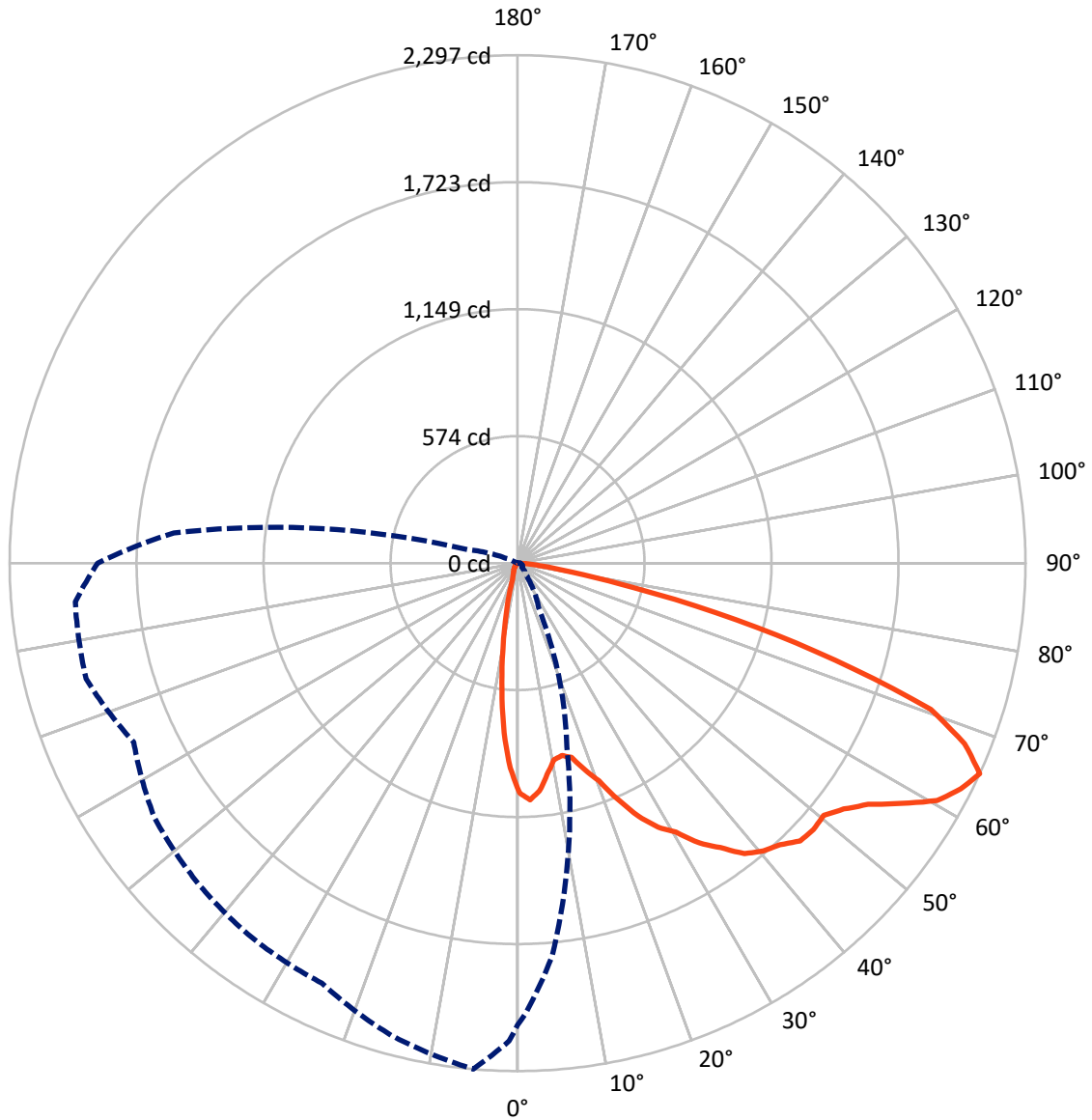
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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	352.8	0.0	352.8
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2364.4	0.0	2364.4
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2717.2	0.0	2717.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	2.9
10°-20°	152.4	5.6
20°-30°	212.2	7.8
30°-40°	301.5	11.1
40°-50°	418.1	15.4
50°-60°	569.7	21.0
60°-70°	626.4	23.1
70°-80°	307.9	11.3
80°-90°	50.3	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°	2717.2	100.0
0°-180°	2717.2	100.0



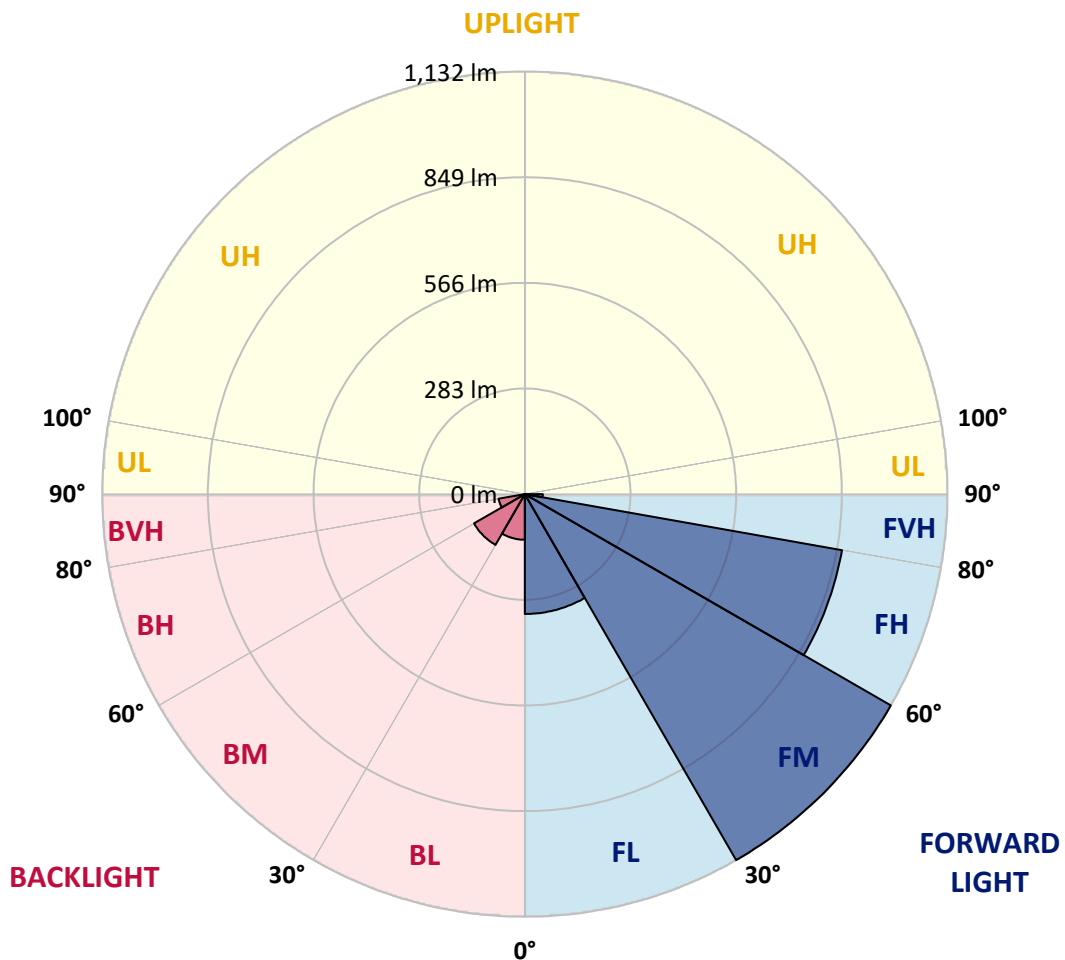
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.1	11.8			
FM (30°-60°)	1132.3	41.7			
FH (60°-80°)	863.0	31.8			G1/1800
FVH (80°-90°)	48.0	1.8			G1/100
BL (0°-30°)	122.2	4.5	B1/500		
BM (30°-60°)	157.1	5.8	B0/220		
BH (60°-80°)	71.3	2.6	B0/110		G0/110
BVH (80°-90°)	2.3	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°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1060.0	1072.5	1060.8	1019.8	1012.4	992.6	962.6	960.4	928.9	932.6	915.7
5°	996.3	1008.8	983.9	929.6	879.1	838.8	814.6	771.4	761.9	740.6	740.6
7.5°	931.1	930.4	887.9	842.5	767.0	693.0	659.3	597.1	560.4	540.6	521.6
10°	876.9	865.2	838.8	745.0	663.0	586.1	544.3	503.3	465.2	432.2	399.3
12.5°	838.8	846.1	804.4	702.5	596.3	542.8	498.2	454.9	409.5	372.2	335.5
15°	858.6	846.9	797.8	693.0	585.3	512.1	452.7	400.0	349.4	300.4	272.5
17.5°	920.1	890.1	832.2	693.0	562.6	465.2	393.4	331.1	276.9	233.0	198.5
20°	1002.9	968.5	906.2	718.7	545.8	430.8	332.6	254.2	197.8	156.8	130.4
22.5°	1087.9	1060.8	967.0	728.9	526.0	384.6	262.3	183.9	131.9	105.5	92.3
25°	1189.7	1151.6	1049.1	769.9	496.7	339.9	206.6	128.2	98.2	84.2	76.2
27.5°	1271.0	1264.4	1126.0	794.9	474.7	303.3	163.4	101.8	81.3	71.1	65.9
30°	1373.6	1337.7	1219.7	844.7	449.8	261.5	136.3	91.6	74.7	63.7	60.1
32.5°	1435.1	1418.3	1268.8	872.5	422.0	227.1	117.2	80.6	68.1	60.1	56.4
35°	1524.5	1490.8	1339.2	890.1	407.3	207.3	105.5	73.3	57.1	49.1	44.7
37.5°	1624.1	1611.7	1423.4	889.4	386.1	195.6	97.4	68.1	54.2	45.4	40.3
40°	1726.0	1675.4	1474.7	909.9	375.1	186.8	91.6	65.2	51.3	43.2	36.6
42.5°	1802.1	1744.3	1534.0	902.5	361.9	171.4	89.4	60.8	49.1	39.6	33.7
45°	1822.7	1802.1	1587.5	900.3	352.4	159.0	85.7	60.1	47.6	37.4	31.5
47.5°	1862.2	1848.3	1653.4	904.0	345.0	149.4	76.9	61.5	45.4	35.2	30.0
50°	1879.8	1854.9	1706.9	912.8	328.2	137.7	68.9	64.5	44.7	34.4	28.6
52.5°	1952.3	1930.4	1780.2	937.7	314.3	122.3	60.8	61.5	46.2	32.2	27.1
55°	2023.4	1998.5	1893.0	994.8	294.5	109.9	52.0	54.2	44.0	29.3	24.2
57.5°	2120.8	2079.8	1968.4	1018.3	276.9	93.0	46.2	44.7	41.0	26.4	21.2
60°	2135.5	2152.3	1957.5	1003.6	258.6	82.0	40.3	34.4	44.0	23.4	18.3
62.5°	2184.6	2114.2	1906.2	969.9	245.4	75.5	35.9	28.6	38.1	20.5	15.4
65°	2090.1	2038.0	1786.0	861.5	228.6	76.2	31.5	23.4	24.2	16.8	12.5
67.5°	1951.6	1910.6	1586.8	743.6	211.7	74.7	27.8	20.5	18.3	14.7	11.0
70°	1712.8	1624.1	1347.9	603.6	186.8	69.6	23.4	18.3	15.4	11.7	8.1
72.5°	1246.1	1210.2	967.0	466.7	167.8	63.0	22.0	15.4	13.2	8.8	6.6
75°	838.8	779.5	610.2	306.2	134.8	54.9	18.3	13.9	10.3	6.6	5.1
77.5°	443.2	419.0	345.8	145.8	74.7	25.6	10.3	8.1	5.9	5.1	2.9
80°	191.9	170.7	149.4	59.3	26.4	11.7	6.6	4.4	3.7	2.9	1.5
82.5°	98.2	93.8	77.7	25.6	15.4	8.8	3.7	2.9	2.2	1.5	0.7
85°	48.4	49.8	41.0	8.1	8.8	5.1	0.7	0.7	0.0	0.0	0.0
87.5°	3.7	3.7	2.9	1.5	2.2	0.7	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°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	909.1	919.4	901.8	912.8	907.7	909.9	912.1	906.2	907.7	928.2	928.9
5°	728.2	748.0	740.6	750.9	768.5	759.7	767.7	766.3	767.7	770.7	783.9
7.5°	519.4	513.5	527.5	554.6	586.1	605.1	595.6	590.5	587.5	580.2	589.0
10°	391.9	389.0	385.3	393.4	413.9	435.2	446.9	427.1	416.1	402.2	397.1
12.5°	325.3	307.0	296.7	284.2	290.1	309.1	309.9	290.8	273.3	265.9	274.0
15°	256.4	243.9	225.6	208.1	199.3	213.9	201.5	183.1	160.4	157.5	156.8
17.5°	183.1	175.8	162.6	155.3	145.1	141.4	128.2	100.4	84.2	79.9	81.3
20°	124.5	118.7	117.9	111.4	107.0	104.0	82.8	64.5	59.3	60.1	60.8
22.5°	92.3	89.4	85.7	85.0	81.3	77.7	60.8	54.2	50.5	50.5	52.7
25°	75.5	74.0	70.3	68.9	67.4	62.3	51.3	46.2	44.7	43.2	45.4
27.5°	64.5	63.7	61.5	59.3	57.9	52.7	44.7	40.3	38.8	38.8	38.8
30°	57.9	57.9	54.9	50.5	50.5	44.7	38.1	35.2	33.7	33.7	33.0
32.5°	54.2	52.7	49.1	46.2	44.0	38.1	33.7	30.8	28.6	28.6	29.3
35°	44.0	44.0	43.2	41.0	38.1	32.2	28.6	25.6	24.2	23.4	24.2
37.5°	38.8	36.6	33.7	34.4	33.0	27.8	24.2	22.0	19.8	19.8	19.8
40°	35.2	33.0	30.0	27.8	27.1	24.9	21.2	17.6	15.4	14.7	14.7
42.5°	31.5	30.0	25.6	22.0	21.2	21.2	16.1	13.2	11.0	11.0	11.0
45°	29.3	27.1	23.4	19.0	15.4	16.1	13.2	9.5	8.1	7.3	7.3
47.5°	27.8	25.6	20.5	16.1	11.7	11.7	9.5	6.6	5.1	4.4	4.4
50°	25.6	23.4	18.3	13.2	8.8	7.3	5.9	3.7	2.2	1.5	1.5
52.5°	24.2	22.0	16.1	11.0	7.3	5.1	3.7	0.7	0.0	0.0	0.0
55°	22.0	19.0	13.9	8.8	5.9	2.9	0.7	0.0	0.0	0.0	0.0
57.5°	19.0	16.8	11.0	6.6	3.7	0.7	0.0	0.0	0.0	0.0	0.0
60°	16.1	13.9	8.8	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13.2	11.7	6.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.0	8.8	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9.5	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.3	5.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	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°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	931.8	953.8	974.3	980.2	996.3	1041.0	1041.0	1062.2	1100.3	1114.3	1117.2
5°	786.1	809.5	813.9	859.3	880.6	926.0	956.0	1027.8	1071.0	1098.1	1115.0
7.5°	597.8	605.8	622.7	665.2	706.9	761.9	819.0	910.6	986.8	1017.6	1074.7
10°	411.0	435.2	471.8	509.9	575.1	635.9	709.9	796.3	890.1	928.2	977.3
12.5°	276.9	310.6	369.2	423.4	483.5	545.0	615.4	731.1	837.3	890.1	939.2
15°	161.9	202.9	253.5	341.4	421.2	490.1	560.4	677.6	806.6	874.7	934.8
17.5°	82.0	94.5	136.3	212.4	317.9	430.8	535.5	685.0	830.0	913.5	963.3
20°	61.5	65.2	76.9	112.8	217.6	356.0	512.1	696.0	895.2	997.0	1024.1
22.5°	53.5	56.4	61.5	73.3	122.3	272.5	479.1	723.1	983.9	1079.8	1137.0
25°	45.4	48.4	52.7	60.1	78.4	185.3	438.8	751.6	1063.0	1183.9	1237.3
27.5°	39.6	41.8	46.2	52.0	63.7	117.9	369.2	789.7	1183.9	1309.9	1323.8
30°	33.7	35.9	39.6	46.2	54.2	83.5	271.1	794.9	1250.5	1364.8	1403.6
32.5°	29.3	30.0	34.4	40.3	45.4	65.9	190.5	800.0	1299.6	1435.9	1443.9
35°	24.2	25.6	30.0	33.7	39.6	52.0	144.3	774.3	1363.3	1509.1	1506.9
37.5°	19.8	22.0	24.9	27.8	32.2	44.0	115.0	726.7	1443.2	1622.7	1553.8
40°	15.4	17.6	20.5	24.2	27.1	39.6	86.4	654.9	1526.7	1678.3	1605.1
42.5°	11.0	12.5	15.4	19.0	24.2	33.0	62.3	569.9	1559.7	1743.5	1666.6
45°	8.1	9.5	11.7	16.1	24.9	26.4	43.2	492.3	1594.8	1772.1	1652.7
47.5°	4.4	5.9	8.8	13.9	22.0	19.8	30.8	422.7	1635.1	1797.8	1663.7
50°	1.5	2.2	5.1	14.7	17.6	15.4	24.2	385.3	1674.7	1802.9	1685.7
52.5°	0.0	0.0	2.9	15.4	13.2	11.7	21.2	370.7	1664.4	1819.0	1671.7
55°	0.0	0.0	0.7	6.6	7.3	8.8	17.6	370.0	1736.9	1824.1	1747.9
57.5°	0.0	0.0	0.0	2.2	4.4	7.3	15.4	346.5	1783.1	1951.6	1850.5
60°	0.0	0.0	0.0	0.7	2.9	5.1	11.7	326.0	1830.0	2008.7	1960.4
62.5°	0.0	0.0	0.0	0.0	0.7	2.2	8.1	294.5	1735.5	2004.3	2066.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	233.0	1561.1	1899.6	2008.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	161.2	1367.0	1767.7	1900.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.4	1103.3	1550.1	1611.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8	787.5	1230.7	1322.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	487.2	899.6	1012.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	315.7	681.3	768.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	168.5	427.1	496.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.3	259.3	298.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	157.5	179.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	32.2
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1118.7	1139.9	1148.0	1135.5	1137.0	1111.3	1107.7	1071.8	1057.1	1060.0
5°	1169.9	1200.7	1217.5	1203.6	1172.1	1123.0	1078.4	1035.9	1009.5	996.3
7.5°	1158.2	1192.6	1213.9	1227.1	1191.2	1112.1	1043.9	964.1	930.4	931.1
10°	1093.7	1165.5	1208.8	1191.9	1175.1	1095.9	990.4	904.0	874.0	876.9
12.5°	1041.7	1121.6	1147.2	1160.4	1126.0	1063.0	991.9	893.0	859.3	838.8
15°	1009.5	1068.8	1070.3	1090.8	1076.9	1076.9	1007.3	910.6	881.3	858.6
17.5°	1009.5	1022.7	1021.2	1028.5	1052.0	1079.8	1046.1	981.7	923.8	920.1
20°	1032.2	991.2	981.7	984.6	1004.4	1087.1	1131.8	1051.3	1014.6	1002.9
22.5°	1085.0	994.8	937.0	926.7	987.5	1086.4	1186.8	1161.1	1097.4	1087.9
25°	1157.5	988.3	925.2	912.1	958.2	1112.8	1262.2	1267.4	1209.5	1189.7
27.5°	1226.3	1017.6	923.8	920.9	981.7	1106.9	1314.2	1352.3	1287.1	1271.0
30°	1249.8	1046.9	950.9	912.1	990.4	1128.2	1312.8	1412.4	1369.9	1373.6
32.5°	1277.6	1076.2	953.8	938.4	1027.8	1162.6	1354.5	1509.1	1478.3	1435.1
35°	1318.6	1115.7	981.7	967.7	1054.2	1193.4	1363.3	1580.2	1575.0	1524.5
37.5°	1353.8	1154.5	1039.5	1041.7	1134.8	1243.2	1402.2	1667.4	1658.6	1624.1
40°	1378.7	1208.8	1129.6	1135.5	1205.1	1298.9	1471.0	1711.3	1776.5	1726.0
42.5°	1382.4	1257.1	1232.9	1279.8	1345.0	1385.3	1498.9	1741.3	1835.1	1802.1
45°	1396.3	1334.0	1401.4	1435.9	1489.3	1461.5	1497.4	1792.6	1839.5	1822.7
47.5°	1450.5	1474.0	1558.9	1663.7	1682.7	1591.2	1532.6	1800.7	1864.4	1862.2
50°	1506.9	1624.1	1743.5	1813.1	1837.3	1680.5	1565.5	1794.1	1897.4	1879.8
52.5°	1569.9	1754.5	1926.7	2012.4	1999.2	1779.4	1602.9	1847.6	1958.2	1952.3
55°	1609.5	1813.1	2044.6	2164.0	2153.8	1890.1	1721.6	1924.5	2038.0	2023.4
57.5°	1714.2	1908.4	2161.8	2217.5	2244.6	2035.1	1804.3	2050.5	2104.7	2120.8
60°	1800.7	1970.6	2192.6	2273.2	2282.7	2121.6	1949.4	2180.2	2189.7	2135.5
62.5°	1927.4	1994.8	2127.4	2199.9	2249.0	2170.6	2079.8	2249.8	2188.2	2184.6
65°	2020.5	1915.7	2005.8	2046.1	2077.6	2095.9	2210.9	2297.4	2161.1	2090.1
67.5°	1968.4	1766.3	1749.4	1751.6	1761.1	1871.7	2167.0	2180.9	2010.2	1951.6
70°	1732.6	1449.0	1426.3	1443.9	1396.3	1529.6	1989.0	1982.4	1773.6	1712.8
72.5°	1401.4	1056.4	1017.6	1041.7	1052.7	1194.1	1673.2	1503.3	1293.7	1246.1
75°	1113.5	774.3	653.5	712.1	749.4	869.6	1306.9	1021.2	903.3	838.8
77.5°	874.7	586.1	508.4	485.0	519.4	632.2	950.9	536.2	473.2	443.2
80°	554.6	430.8	467.4	433.7	448.3	451.3	495.2	243.9	194.1	191.9
82.5°	334.1	294.5	350.2	192.7	350.9	313.5	205.9	110.6	98.2	98.2
85°	236.6	182.4	120.9	78.4	156.0	172.2	79.9	57.1	49.8	48.4
87.5°	118.7	56.4	27.1	17.6	19.8	32.2	9.5	4.4	4.4	3.7
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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