

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: P677251

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677251  
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-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

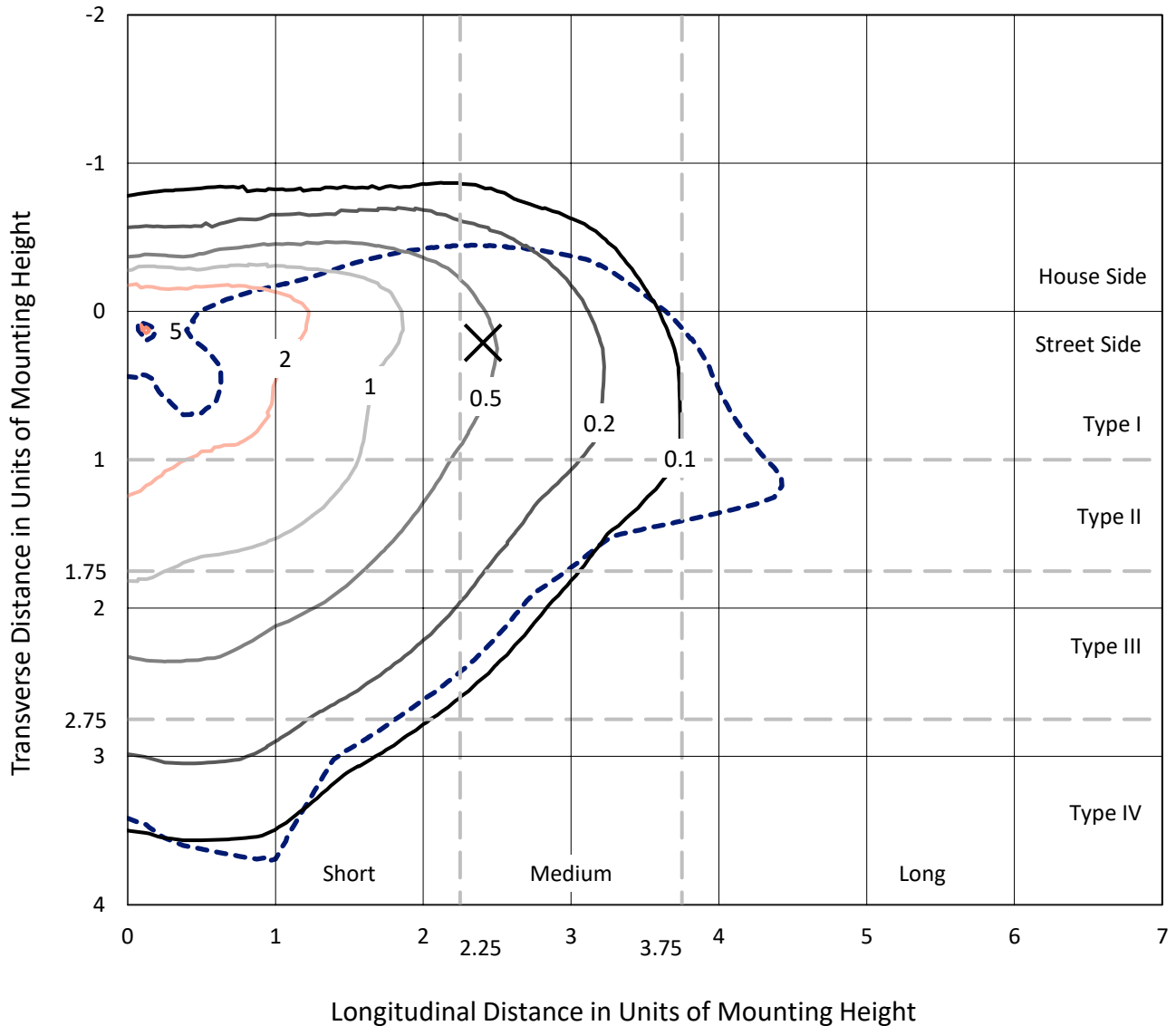
Lumens per Lamp: N/A  
Luminaire Lumens: 2743.4 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

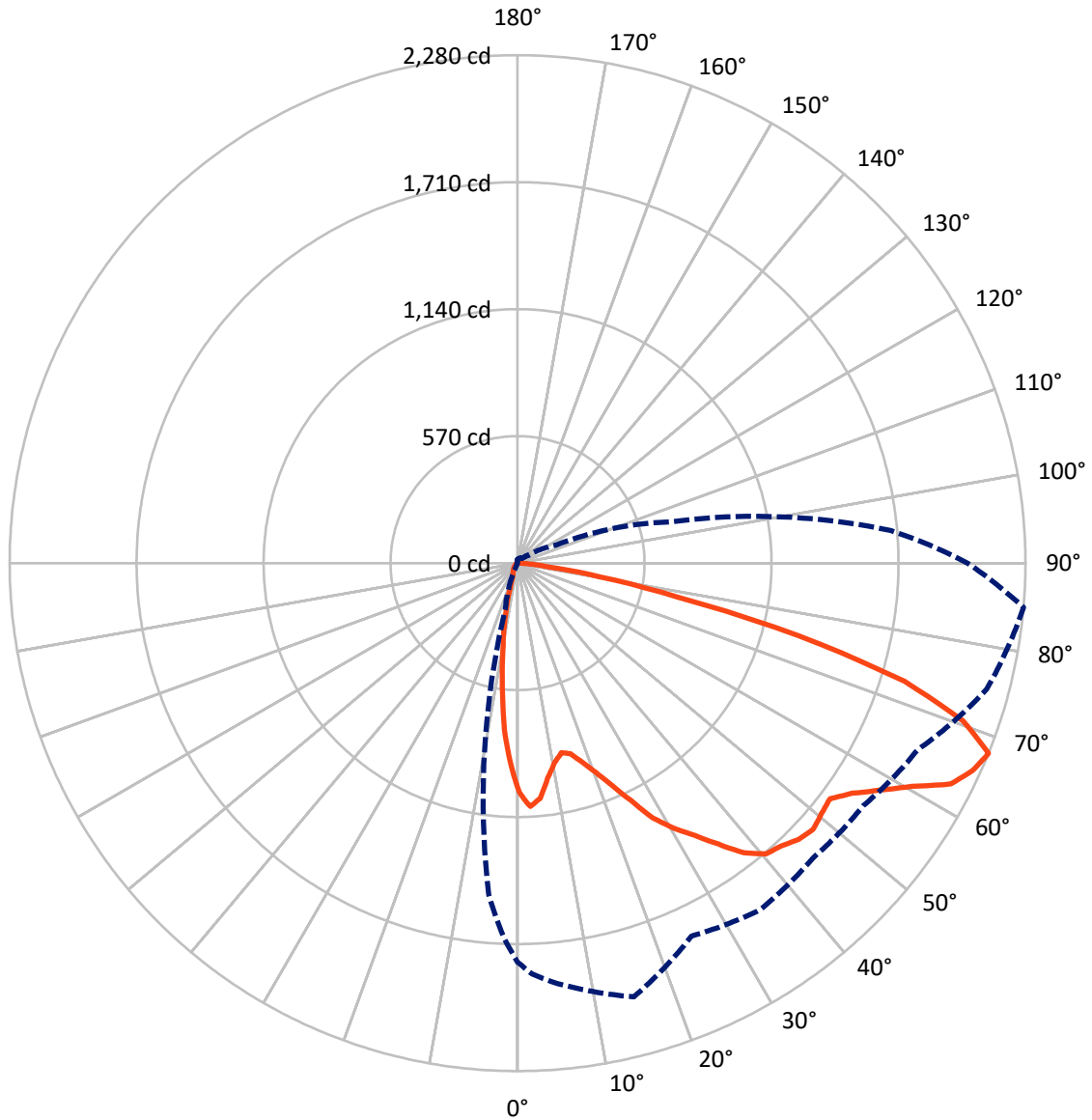
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.3	0.0	476.3
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2267.0	0.0	2267.0
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2743.4	0.0	2743.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	2.9
10°-20°	153.7	5.6
20°-30°	212.6	7.8
30°-40°	300.5	11.0
40°-50°	409.2	14.9
50°-60°	541.9	19.8
60°-70°	629.2	22.9
70°-80°	356.3	13.0
80°-90°	61.6	2.2
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°	2743.4	100.0
0°-180°	2743.4	100.0



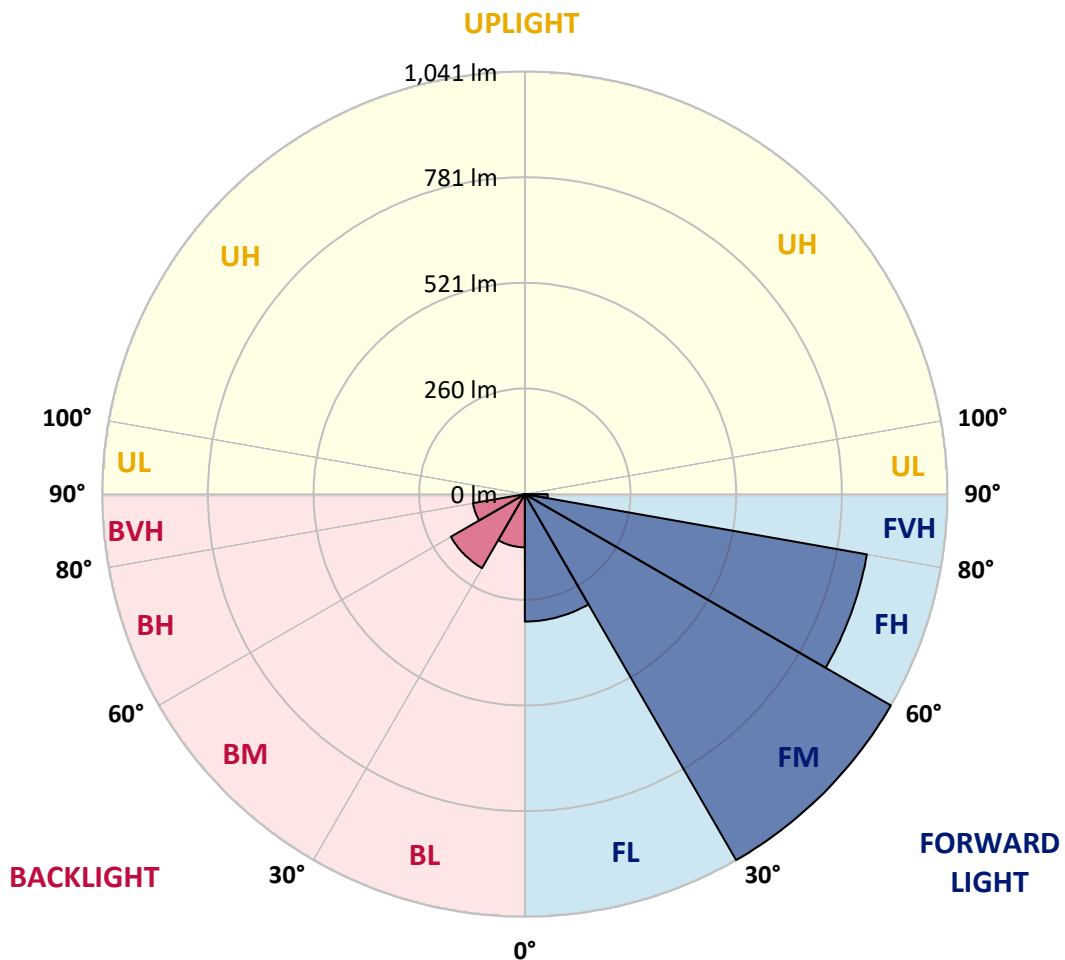
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.7	11.4			
FM (30°-60°)	1041.1	38.0			
FH (60°-80°)	855.8	31.2			G1/1800
FVH (80°-90°)	56.4	2.1			G1/100
BL (0°-30°)	131.0	4.8	B1/500		
BM (30°-60°)	210.5	7.7	B0/220		
BH (60°-80°)	129.7	4.7	B1/500		G1/500
BVH (80°-90°)	5.2	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	1071.8	1094.5	1095.2	1105.5	1115.7	1115.7	1139.9	1134.0	1112.8	1109.1	1093.8
5°	1079.8	1087.9	1093.8	1145.8	1189.7	1185.3	1198.5	1189.7	1148.7	1096.0	1060.1
7.5°	1010.2	1019.0	1042.5	1131.1	1190.5	1210.2	1235.1	1180.2	1137.0	1041.7	972.9
10°	917.9	934.8	978.0	1079.1	1152.4	1215.4	1215.4	1171.4	1087.9	994.9	910.6
12.5°	866.7	900.4	923.8	1026.4	1121.6	1164.8	1163.4	1139.9	1085.7	968.5	873.2
15°	875.4	885.0	934.8	1014.6	1077.6	1075.4	1101.8	1094.5	1056.4	991.9	887.2
17.5°	915.7	930.4	973.6	1014.6	1044.7	1035.9	1035.1	1070.3	1072.5	1031.5	939.2
20°	981.7	1024.9	1045.4	1057.9	1021.2	983.9	979.5	1028.6	1066.6	1082.0	1001.4
22.5°	1087.2	1115.7	1157.5	1093.8	998.5	951.6	942.8	997.1	1074.0	1142.1	1082.0
25°	1190.5	1212.4	1252.7	1170.7	1024.2	945.0	929.7	976.5	1101.8	1225.6	1179.5
27.5°	1299.6	1318.7	1323.1	1227.1	1038.1	931.9	913.5	976.5	1125.3	1269.6	1295.9
30°	1366.3	1389.0	1393.4	1276.9	1060.8	942.8	934.1	980.9	1141.4	1306.9	1379.5
32.5°	1441.0	1446.9	1443.2	1285.7	1085.7	975.1	938.4	1010.2	1159.7	1351.6	1455.7
35°	1530.4	1540.6	1503.3	1326.0	1141.4	995.6	982.4	1046.1	1191.2	1372.1	1548.0
37.5°	1598.5	1630.7	1546.5	1341.4	1152.4	1038.8	1041.0	1120.9	1213.2	1397.0	1649.8
40°	1726.7	1672.5	1619.8	1394.1	1194.1	1112.1	1100.3	1197.8	1287.2	1413.2	1716.5
42.5°	1797.0	1768.5	1648.3	1399.2	1258.6	1213.2	1216.1	1285.0	1326.0	1458.6	1734.8
45°	1814.6	1784.6	1687.2	1402.9	1322.3	1332.6	1383.1	1396.3	1383.1	1488.6	1769.2
47.5°	1859.3	1794.1	1682.8	1452.0	1425.6	1465.2	1529.6	1558.2	1460.8	1477.6	1785.3
50°	1850.5	1813.2	1673.2	1472.5	1551.6	1656.4	1699.6	1687.9	1547.2	1454.9	1767.7
52.5°	1813.9	1773.6	1702.5	1528.2	1669.6	1796.3	1856.4	1827.1	1624.1	1506.2	1756.0
55°	1867.4	1836.6	1740.6	1603.6	1758.2	1919.4	1961.9	1939.9	1718.7	1553.8	1822.7
57.5°	1925.2	1918.6	1843.9	1692.3	1863.0	2046.1	2046.1	2019.0	1800.7	1622.7	1921.6
60°	2008.8	2023.4	1920.1	1750.9	1898.9	2038.8	2145.0	2113.5	1883.5	1743.6	2033.7
62.5°	1981.7	2028.5	2018.3	1876.9	1939.9	2074.7	2132.6	2156.0	1986.0	1890.8	2183.1
65°	1894.5	1944.3	2017.5	1959.7	1909.1	1987.5	2016.8	2087.9	2037.3	2029.3	2244.7
67.5°	1790.4	1844.7	1890.1	2015.4	1846.9	1898.9	1873.2	1895.9	1981.7	2180.9	2279.8
70°	1563.3	1615.4	1687.2	1891.5	1682.0	1635.1	1628.5	1617.6	1750.9	2126.7	2120.1
72.5°	1285.7	1309.9	1428.5	1537.7	1244.7	1235.9	1246.1	1233.7	1388.3	1925.2	1816.1
75°	962.6	986.8	1054.2	1180.9	847.6	797.1	855.7	913.5	1060.1	1494.5	1304.7
77.5°	723.8	754.6	797.1	883.5	622.0	542.8	550.9	605.9	766.3	1197.0	731.1
80°	469.6	465.9	548.0	608.0	468.1	482.8	462.3	502.6	555.3	640.3	373.6
82.5°	271.1	274.7	309.2	348.7	326.0	372.9	268.9	449.1	396.3	260.8	139.2
85°	152.4	159.0	190.5	241.8	204.4	137.0	112.1	222.7	249.1	107.0	67.4
87.5°	15.4	13.2	25.6	91.6	55.7	22.7	33.7	53.5	60.1	40.3	19.8
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°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	1071.8	1071.8	1053.5	1022.7	1010.2	988.3	958.2	967.7	957.5	920.1	910.6
5°	1027.8	992.7	954.6	907.7	880.6	824.9	807.3	775.8	780.9	749.4	750.9
7.5°	936.2	908.4	843.9	782.4	728.9	680.6	612.4	586.8	561.9	549.4	564.1
10°	882.8	830.8	742.8	662.3	591.2	548.0	502.6	467.4	435.2	411.0	405.9
12.5°	843.9	797.8	691.6	593.4	537.7	502.6	460.8	412.4	380.9	339.2	326.7
15°	832.2	775.8	663.7	566.3	512.1	454.2	406.6	359.0	317.9	274.0	258.6
17.5°	872.5	807.3	663.0	544.3	468.1	405.9	339.9	286.4	244.7	204.4	194.9
20°	940.6	841.0	684.2	531.1	426.4	342.9	268.1	214.6	167.8	141.4	134.8
22.5°	1018.3	898.2	686.4	496.0	384.6	279.8	195.6	141.4	115.0	102.6	98.9
25°	1113.5	989.7	712.8	467.4	335.5	212.5	139.2	108.4	93.0	85.7	84.2
27.5°	1191.9	1053.5	741.4	437.4	287.2	157.5	109.2	88.6	80.6	73.3	72.5
30°	1273.2	1126.7	749.4	419.0	245.4	129.7	93.8	78.4	69.6	65.9	65.2
32.5°	1344.3	1206.6	775.1	389.0	205.9	114.3	85.0	70.3	64.5	58.6	57.9
35°	1435.9	1252.7	787.5	372.9	191.2	103.3	77.7	64.5	55.7	52.0	50.5
37.5°	1534.0	1297.4	795.6	360.4	178.8	96.7	73.3	60.8	52.7	47.6	46.2
40°	1625.6	1360.4	783.9	345.0	169.2	88.6	70.3	56.4	49.1	44.0	41.8
42.5°	1695.9	1422.0	780.2	330.4	159.0	85.7	66.7	54.2	46.2	40.3	39.6
45°	1735.5	1463.7	754.6	318.7	150.9	87.2	65.2	51.3	44.0	38.8	35.9
47.5°	1726.0	1495.9	761.2	315.0	139.9	81.3	64.5	49.1	40.3	35.9	33.7
50°	1778.7	1561.1	750.2	303.3	131.9	73.3	70.3	49.1	39.6	34.4	32.2
52.5°	1787.5	1620.5	773.6	282.0	119.4	67.4	69.6	48.4	38.1	33.0	30.0
55°	1860.8	1689.3	819.0	270.3	109.2	58.6	63.7	46.9	34.4	30.0	28.6
57.5°	1960.4	1832.2	848.3	259.3	95.2	51.3	53.5	46.2	31.5	27.8	25.6
60°	2056.4	1889.3	850.5	239.6	82.0	46.2	41.8	46.2	29.3	24.9	22.7
62.5°	2128.2	1889.3	835.9	222.7	71.8	41.0	36.6	44.0	26.4	22.0	20.5
65°	2089.3	1838.8	797.8	208.8	65.2	35.9	31.5	33.7	23.4	19.0	17.6
67.5°	2019.7	1681.3	713.5	191.9	64.5	31.5	27.1	24.9	20.5	16.8	15.4
70°	1908.4	1468.8	594.1	172.9	63.0	28.6	24.2	21.2	18.3	14.7	13.2
72.5°	1537.7	1213.2	487.9	161.9	61.5	24.9	20.5	18.3	15.4	12.5	11.0
75°	1065.2	775.1	375.8	138.5	60.1	22.7	19.0	16.1	13.2	10.3	9.5
77.5°	638.8	517.9	242.5	104.0	39.6	18.3	16.1	12.5	11.0	8.8	8.1
80°	298.9	244.7	98.2	40.3	19.0	13.2	11.0	9.5	8.8	7.3	6.6
82.5°	117.2	103.3	47.6	23.4	15.4	10.3	8.8	8.1	7.3	5.9	5.1
85°	63.0	55.7	22.7	16.1	11.0	7.3	7.3	6.6	5.9	5.1	4.4
87.5°	13.9	10.3	9.5	9.5	8.1	5.9	5.9	5.1	4.4	3.7	2.9
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°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	905.5	916.5	898.9	909.9	894.5	906.2	907.7	896.7	899.6	914.3	920.9
5°	771.4	764.1	748.0	742.8	743.6	734.1	737.7	742.8	750.9	755.3	768.5
7.5°	556.0	572.9	572.2	584.6	585.3	583.9	573.6	551.6	559.0	553.1	560.4
10°	397.8	405.1	419.0	427.1	441.8	433.7	410.2	401.5	397.1	396.3	403.7
12.5°	317.9	300.4	298.9	301.8	309.2	299.6	287.9	277.7	282.8	293.0	301.1
15°	246.1	231.5	212.5	209.5	211.0	206.6	194.1	180.9	184.6	194.9	200.7
17.5°	189.0	172.2	159.0	150.2	147.3	131.9	113.6	102.6	99.6	98.9	104.0
20°	127.5	124.5	122.3	111.4	111.4	89.4	74.0	65.9	65.9	67.4	68.1
22.5°	95.2	91.6	92.3	90.1	84.2	66.7	58.6	56.4	56.4	57.9	57.9
25°	82.8	77.7	76.2	75.5	69.6	57.1	51.3	49.1	49.1	50.5	50.5
27.5°	70.3	68.9	66.7	63.7	58.6	49.1	45.4	43.2	44.0	44.7	44.0
30°	64.5	60.8	57.9	57.9	52.0	44.0	41.0	39.6	38.1	39.6	40.3
32.5°	57.1	54.9	53.5	51.3	44.7	38.8	35.9	34.4	33.7	33.7	34.4
35°	49.1	49.1	47.6	44.7	38.8	35.2	31.5	30.0	29.3	30.0	30.0
37.5°	44.0	41.8	42.5	39.6	34.4	30.8	27.1	25.6	25.6	24.9	25.6
40°	41.0	37.4	35.2	33.7	30.8	26.4	23.4	22.0	21.2	21.2	21.2
42.5°	36.6	33.7	29.3	28.6	27.8	22.7	19.0	18.3	17.6	16.8	16.8
45°	34.4	30.0	26.4	22.7	22.7	19.0	16.1	14.7	13.9	13.2	13.9
47.5°	31.5	27.1	22.7	19.0	18.3	15.4	12.5	11.0	10.3	10.3	10.3
50°	30.0	24.2	19.8	16.1	13.9	12.5	9.5	8.1	7.3	7.3	7.3
52.5°	27.8	22.7	17.6	13.9	11.0	9.5	7.3	5.9	5.1	5.1	5.1
55°	24.9	20.5	15.4	11.7	9.5	7.3	5.1	3.7	2.9	2.9	2.9
57.5°	23.4	18.3	13.2	10.3	7.3	5.1	2.9	2.2	2.2	1.5	2.2
60°	21.2	16.1	11.0	8.1	5.9	3.7	2.2	0.7	0.7	0.7	0.7
62.5°	18.3	13.9	9.5	6.6	4.4	2.2	0.7	0.0	0.0	0.0	0.0
65°	15.4	11.0	7.3	5.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	13.2	9.5	5.9	3.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.7	8.1	4.4	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.5	6.6	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.1	5.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.7	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	930.4	926.0	948.0	983.9	1002.2	1038.1	1046.9	1069.6	1063.7	1071.8
5°	770.0	778.7	811.0	863.7	882.8	934.8	983.9	1032.9	1064.5	1079.8
7.5°	571.4	600.7	640.3	688.6	737.7	805.8	889.4	946.5	977.3	1010.2
10°	425.6	457.1	502.6	550.2	630.0	706.2	789.7	860.8	887.2	917.9
12.5°	334.8	383.9	436.6	487.9	535.5	608.0	711.3	814.6	843.2	866.7
15°	233.0	293.0	368.5	435.2	501.8	564.8	671.8	797.1	835.9	875.4
17.5°	128.9	176.6	263.0	356.8	454.9	551.6	685.0	829.3	887.9	915.7
20°	74.7	93.8	155.3	266.7	396.3	523.1	691.6	890.1	967.7	981.7
22.5°	61.5	68.1	87.9	167.0	324.5	504.8	725.3	975.1	1054.2	1087.2
25°	52.7	57.9	68.1	100.4	245.4	465.9	746.5	1081.3	1154.6	1190.5
27.5°	46.9	52.0	60.1	74.0	167.0	412.4	781.7	1177.3	1250.5	1299.6
30°	41.0	45.4	53.5	63.0	115.7	352.4	811.7	1247.6	1350.9	1366.3
32.5°	36.6	40.3	46.2	54.2	85.7	267.4	835.9	1320.1	1407.3	1441.0
35°	31.5	35.9	39.6	46.2	65.2	201.5	821.2	1376.5	1490.1	1530.4
37.5°	27.8	30.8	34.4	38.8	54.9	157.5	791.2	1443.9	1561.1	1598.5
40°	23.4	25.6	30.0	34.4	49.8	121.6	756.8	1525.2	1660.8	1726.7
42.5°	19.8	22.0	24.9	32.2	41.0	90.1	687.2	1588.3	1741.4	1797.0
45°	15.4	18.3	22.7	32.2	33.0	66.7	615.4	1635.1	1786.8	1814.6
47.5°	11.7	14.7	22.0	27.8	26.4	46.2	530.4	1688.6	1833.7	1859.3
50°	8.8	11.7	24.9	24.2	22.0	35.2	476.9	1726.0	1836.6	1850.5
52.5°	5.9	8.8	20.5	18.3	18.3	30.8	462.3	1724.5	1843.9	1813.9
55°	4.4	6.6	11.7	13.2	16.1	27.1	449.1	1779.5	1846.1	1867.4
57.5°	2.9	5.1	8.1	10.3	13.9	23.4	422.0	1845.4	1914.3	1925.2
60°	1.5	3.7	5.9	8.1	11.7	20.5	383.9	1893.7	1997.0	2008.8
62.5°	0.7	2.2	4.4	6.6	9.5	16.1	344.3	1816.8	1961.1	1981.7
65°	0.0	1.5	2.9	4.4	5.9	11.7	279.8	1640.3	1819.0	1894.5
67.5°	0.0	0.0	1.5	2.9	3.7	8.8	211.0	1492.3	1687.9	1790.4
70°	0.0	0.0	0.7	0.7	2.2	6.6	134.8	1235.9	1506.9	1563.3
72.5°	0.0	0.0	0.0	0.0	0.7	4.4	78.4	917.9	1180.9	1285.7
75°	0.0	0.0	0.0	0.0	0.0	3.7	39.6	590.5	822.0	962.6
77.5°	0.0	0.0	0.0	0.0	0.0	2.9	21.2	380.9	605.9	723.8
80°	0.0	0.0	0.0	0.0	0.0	0.7	12.5	221.2	387.5	469.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	108.4	231.5	271.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	57.9	115.7	152.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.1	15.4
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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