

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: P677283

Luminaire Tested: **CCW-SA-1B-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677283  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

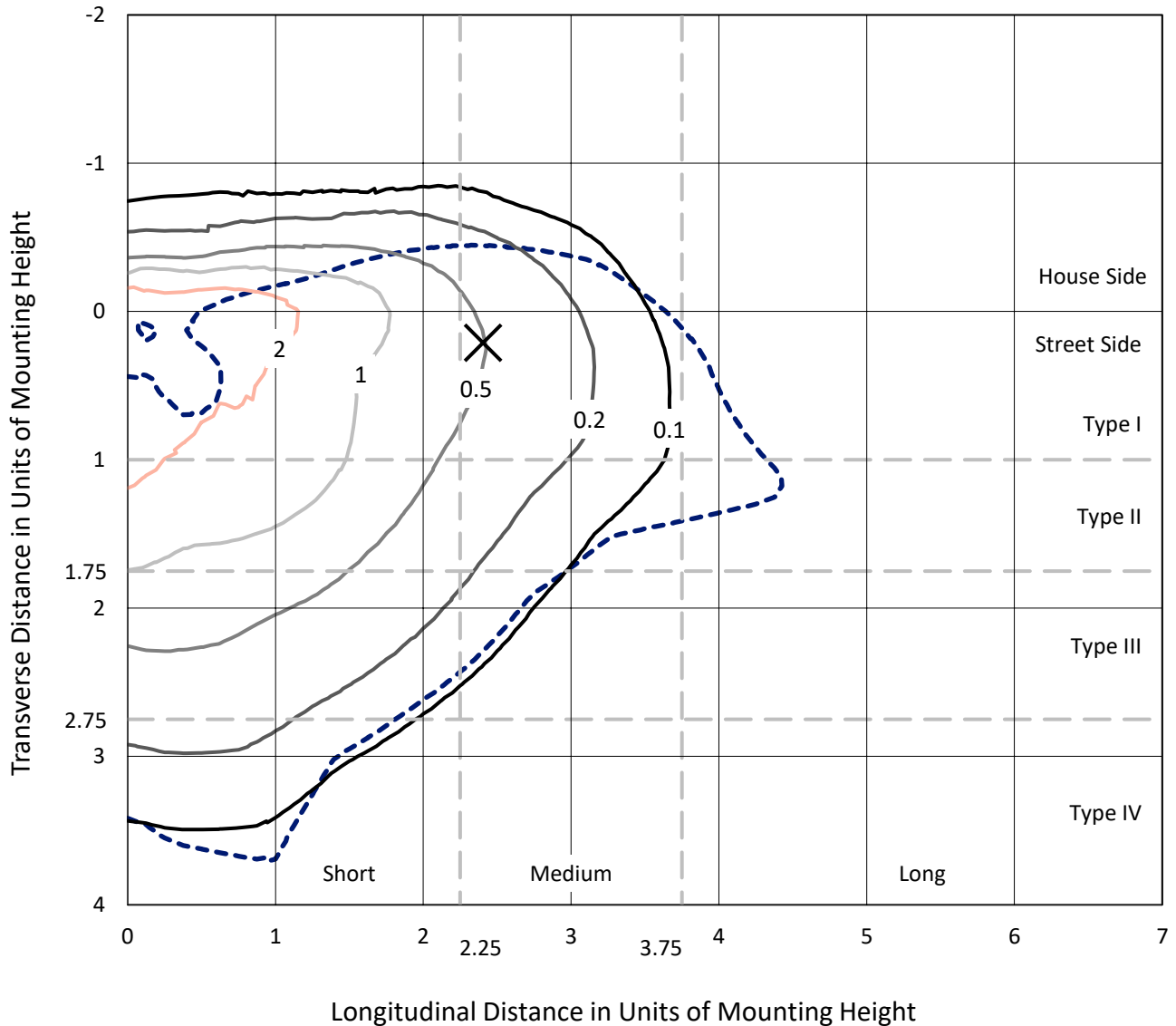
Lumens per Lamp: N/A  
Luminaire Lumens: 2505.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

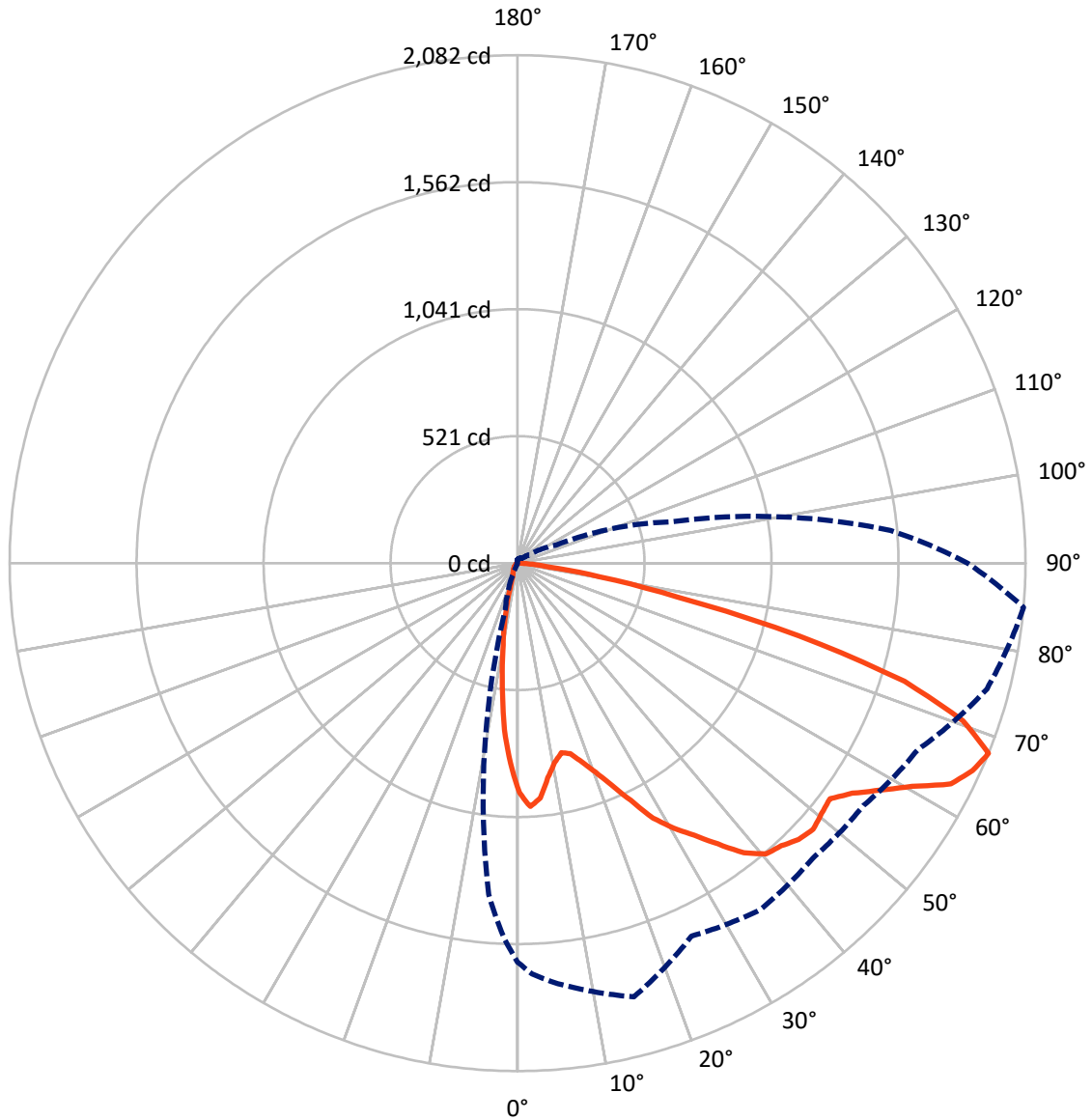
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type 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	435.1	0.0	435.1
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2070.6	0.0	2070.6
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2505.7	0.0	2505.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	2.9
10°-20°	140.4	5.6
20°-30°	194.2	7.8
30°-40°	274.5	11.0
40°-50°	373.7	14.9
50°-60°	495.0	19.8
60°-70°	574.7	22.9
70°-80°	325.5	13.0
80°-90°	56.2	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°	2505.7	100.0
0°-180°	2505.7	100.0



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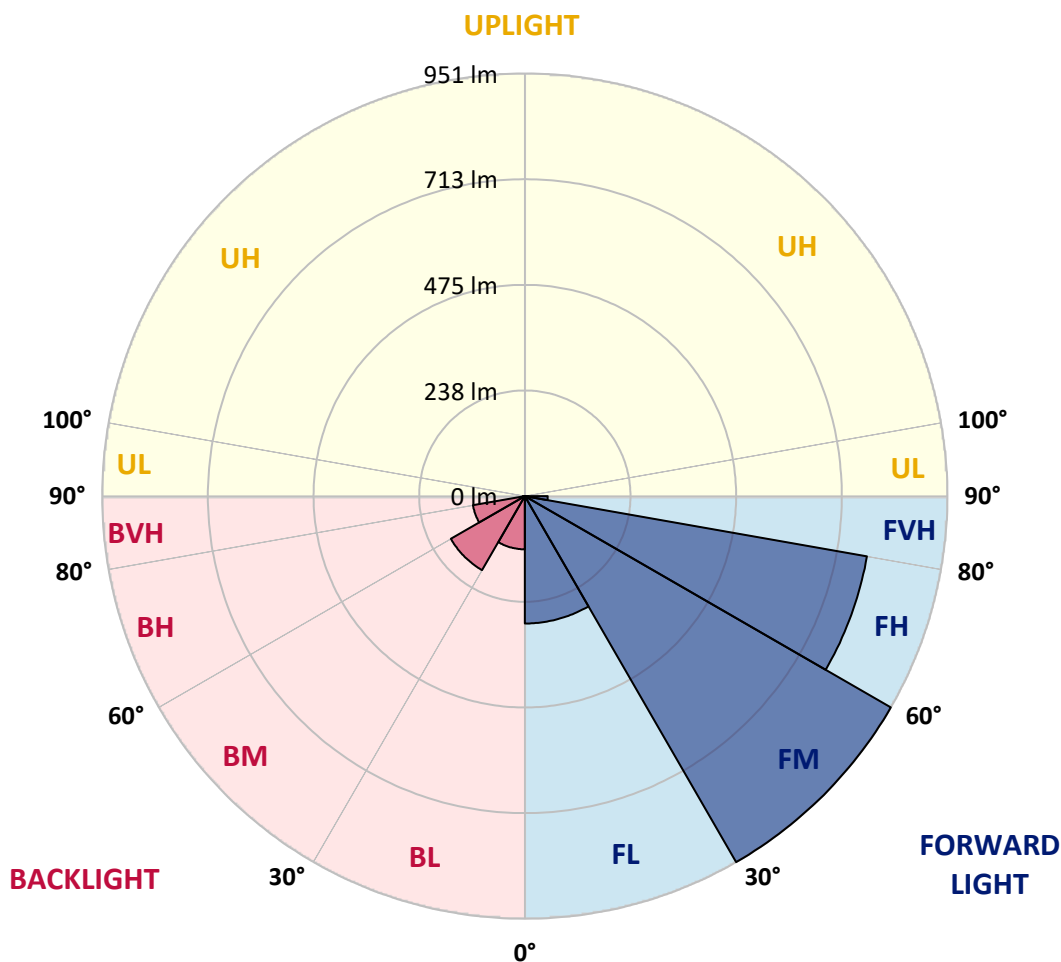
CATALOG NUMBER: CCW-SA-1B-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.5	11.4			
FM (30°-60°)	950.9	38.0			
FH (60°-80°)	781.7	31.2			G1/1800
FVH (80°-90°)	51.5	2.1			G1/100
BL (0°-30°)	119.6	4.8	B1/500		
BM (30°-60°)	192.2	7.7	B0/220		
BH (60°-80°)	118.5	4.7	B1/500		G1/500
BVH (80°-90°)	4.7	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°	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1
2.5°	978.9	999.7	1000.3	1009.7	1019.1	1019.1	1041.2	1035.8	1016.4	1013.1	999.0
5°	986.3	993.7	999.0	1046.5	1086.7	1082.7	1094.7	1086.7	1049.2	1001.0	968.2
7.5°	922.7	930.8	952.2	1033.1	1087.3	1105.4	1128.2	1078.0	1038.5	951.5	888.6
10°	838.4	853.8	893.3	985.6	1052.5	1110.1	1110.1	1069.9	993.7	908.7	831.7
12.5°	791.6	822.4	843.8	937.5	1024.4	1063.9	1062.6	1041.2	991.7	884.6	797.6
15°	799.6	808.3	853.8	926.7	984.3	982.3	1006.4	999.7	964.9	906.0	810.3
17.5°	836.4	849.8	889.3	926.7	954.2	946.2	945.5	977.6	979.6	942.1	857.8
20°	896.6	936.1	954.8	966.2	932.8	898.6	894.6	939.5	974.3	988.3	914.7
22.5°	993.0	1019.1	1057.2	999.0	912.0	869.2	861.2	910.7	980.9	1043.2	988.3
25°	1087.3	1107.4	1144.2	1069.3	935.4	863.2	849.1	892.0	1006.4	1119.5	1077.3
27.5°	1187.0	1204.4	1208.4	1120.8	948.2	851.1	834.4	892.0	1027.8	1159.6	1183.7
30°	1247.9	1268.7	1272.7	1166.3	968.9	861.2	853.1	896.0	1042.5	1193.7	1260.0
32.5°	1316.2	1321.5	1318.2	1174.3	991.7	890.6	857.2	922.7	1059.2	1234.5	1329.6
35°	1397.8	1407.2	1373.1	1211.1	1042.5	909.3	897.3	955.5	1088.0	1253.3	1413.9
37.5°	1460.0	1489.5	1412.5	1225.2	1052.5	948.8	950.8	1023.8	1108.1	1276.0	1506.9
40°	1577.1	1527.6	1479.4	1273.4	1090.7	1015.7	1005.0	1094.0	1175.7	1290.8	1567.8
42.5°	1641.4	1615.3	1505.5	1278.0	1149.6	1108.1	1110.8	1173.7	1211.1	1332.2	1584.5
45°	1657.4	1630.0	1541.0	1281.4	1207.8	1217.1	1263.3	1275.4	1263.3	1359.7	1615.9
47.5°	1698.3	1638.7	1537.0	1326.2	1302.1	1338.3	1397.1	1423.2	1334.2	1349.6	1630.7
50°	1690.2	1656.1	1528.3	1345.0	1417.2	1512.9	1552.4	1541.7	1413.2	1328.9	1614.6
52.5°	1656.8	1620.0	1555.1	1395.8	1524.9	1640.7	1695.6	1668.8	1483.5	1375.7	1603.9
55°	1705.6	1677.5	1589.9	1464.7	1605.9	1753.1	1791.9	1771.9	1569.8	1419.2	1664.8
57.5°	1758.5	1752.5	1684.2	1545.7	1701.6	1868.9	1868.9	1844.1	1644.7	1482.1	1755.1
60°	1834.8	1848.1	1753.8	1599.2	1734.4	1862.2	1959.2	1930.4	1720.3	1592.5	1857.5
62.5°	1810.0	1852.8	1843.5	1714.3	1771.9	1895.0	1947.8	1969.3	1814.0	1727.0	1994.0
65°	1730.4	1775.9	1842.8	1789.9	1743.8	1815.4	1842.1	1907.0	1860.9	1853.5	2050.2
67.5°	1635.4	1684.9	1726.4	1840.8	1686.9	1734.4	1711.0	1731.7	1810.0	1992.0	2082.3
70°	1427.9	1475.4	1541.0	1727.7	1536.3	1493.5	1487.5	1477.4	1599.2	1942.5	1936.5
72.5°	1174.3	1196.4	1304.8	1404.5	1136.9	1128.8	1138.2	1126.8	1268.0	1758.5	1658.8
75°	879.2	901.3	962.9	1078.6	774.2	728.0	781.5	834.4	968.2	1365.0	1191.7
77.5°	661.1	689.2	728.0	807.0	568.1	495.8	503.2	553.4	699.9	1093.4	667.8
80°	428.9	425.6	500.5	555.4	427.6	441.0	422.2	459.0	507.2	584.8	341.3
82.5°	247.6	250.9	282.4	318.5	297.8	340.6	245.6	410.2	362.0	238.2	127.1
85°	139.2	145.2	174.0	220.8	186.7	125.1	102.4	203.4	227.5	97.7	61.6
87.5°	14.1	12.0	23.4	83.6	50.9	20.7	30.8	48.8	54.9	36.8	18.1
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°	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1
2.5°	978.9	978.9	962.2	934.1	922.7	902.7	875.2	883.9	874.6	840.4	831.7
5°	938.8	906.7	871.9	829.1	804.3	753.4	737.4	708.6	713.3	684.5	685.9
7.5°	855.1	829.7	770.8	714.6	665.8	621.6	559.4	536.0	513.2	501.8	515.2
10°	806.3	758.8	678.5	604.9	540.0	500.5	459.0	426.9	397.5	375.4	370.7
12.5°	770.8	728.7	631.7	542.0	491.1	459.0	420.9	376.7	347.9	309.8	298.4
15°	760.1	708.6	606.2	517.2	467.7	414.9	371.4	327.9	290.4	250.3	236.2
17.5°	796.9	737.4	605.6	497.2	427.6	370.7	310.5	261.6	223.5	186.7	178.0
20°	859.2	768.2	625.0	485.1	389.4	313.2	244.9	196.1	153.2	129.1	123.1
22.5°	930.1	820.4	627.0	453.0	351.3	255.6	178.7	129.1	105.1	93.7	90.3
25°	1017.1	904.0	651.1	426.9	306.5	194.0	127.1	99.0	85.0	78.3	76.9
27.5°	1088.7	962.2	677.2	399.5	262.3	143.9	99.7	81.0	73.6	66.9	66.2
30°	1162.9	1029.1	684.5	382.7	224.2	118.4	85.6	71.6	63.6	60.2	59.6
32.5°	1227.9	1102.1	707.9	355.3	188.0	104.4	77.6	64.2	58.9	53.5	52.9
35°	1311.5	1144.2	719.3	340.6	174.6	94.3	70.9	58.9	50.9	47.5	46.2
37.5°	1401.2	1185.0	726.7	329.2	163.3	88.3	66.9	55.5	48.2	43.5	42.2
40°	1484.8	1242.6	716.0	315.2	154.6	81.0	64.2	51.5	44.8	40.1	38.1
42.5°	1549.0	1298.8	712.6	301.8	145.2	78.3	60.9	49.5	42.2	36.8	36.1
45°	1585.2	1336.9	689.2	291.1	137.8	79.6	59.6	46.8	40.1	35.5	32.8
47.5°	1576.5	1366.4	695.2	287.7	127.8	74.3	58.9	44.8	36.8	32.8	30.8
50°	1624.6	1425.9	685.2	277.0	120.4	66.9	64.2	44.8	36.1	31.4	29.4
52.5°	1632.7	1480.1	706.6	257.6	109.1	61.6	63.6	44.2	34.8	30.1	27.4
55°	1699.6	1543.0	748.1	246.9	99.7	53.5	58.2	42.8	31.4	27.4	26.1
57.5°	1790.6	1673.5	774.9	236.9	87.0	46.8	48.8	42.2	28.8	25.4	23.4
60°	1878.2	1725.7	776.9	218.8	74.9	42.2	38.1	42.2	26.8	22.8	20.7
62.5°	1943.8	1725.7	763.5	203.4	65.6	37.5	33.5	40.1	24.1	20.1	18.7
65°	1908.4	1679.5	728.7	190.7	59.6	32.8	28.8	30.8	21.4	17.4	16.1
67.5°	1844.8	1535.7	651.7	175.3	58.9	28.8	24.8	22.8	18.7	15.4	14.1
70°	1743.1	1341.6	542.7	157.9	57.5	26.1	22.1	19.4	16.7	13.4	12.0
72.5°	1404.5	1108.1	445.6	147.9	56.2	22.8	18.7	16.7	14.1	11.4	10.0
75°	972.9	707.9	343.3	126.5	54.9	20.7	17.4	14.7	12.0	9.4	8.7
77.5°	583.5	473.1	221.5	95.0	36.1	16.7	14.7	11.4	10.0	8.0	7.4
80°	273.0	223.5	89.7	36.8	17.4	12.0	10.0	8.7	8.0	6.7	6.0
82.5°	107.1	94.3	43.5	21.4	14.1	9.4	8.0	7.4	6.7	5.4	4.7
85°	57.5	50.9	20.7	14.7	10.0	6.7	6.7	6.0	5.4	4.7	4.0
87.5°	12.7	9.4	8.7	8.7	7.4	5.4	5.4	4.7	4.0	3.3	2.7
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°	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1
2.5°	827.0	837.1	821.0	831.1	817.0	827.7	829.1	819.0	821.7	835.1	841.1
5°	704.6	697.9	683.2	678.5	679.2	670.5	673.8	678.5	685.9	689.9	701.9
7.5°	507.9	523.3	522.6	534.0	534.6	533.3	523.9	503.9	510.5	505.2	511.9
10°	363.3	370.0	382.7	390.1	403.5	396.1	374.7	366.7	362.7	362.0	368.7
12.5°	290.4	274.3	273.0	275.7	282.4	273.7	263.0	253.6	258.3	267.7	275.0
15°	224.8	211.4	194.0	191.4	192.7	188.7	177.3	165.3	168.6	178.0	183.3
17.5°	172.6	157.2	145.2	137.2	134.5	120.4	103.7	93.7	91.0	90.3	95.0
20°	116.4	113.8	111.7	101.7	101.7	81.6	67.6	60.2	60.2	61.6	62.2
22.5°	87.0	83.6	84.3	82.3	76.9	60.9	53.5	51.5	51.5	52.9	52.9
25°	75.6	70.9	69.6	68.9	63.6	52.2	46.8	44.8	44.8	46.2	46.2
27.5°	64.2	62.9	60.9	58.2	53.5	44.8	41.5	39.5	40.1	40.8	40.1
30°	58.9	55.5	52.9	52.9	47.5	40.1	37.5	36.1	34.8	36.1	36.8
32.5°	52.2	50.2	48.8	46.8	40.8	35.5	32.8	31.4	30.8	30.8	31.4
35°	44.8	44.8	43.5	40.8	35.5	32.1	28.8	27.4	26.8	27.4	27.4
37.5°	40.1	38.1	38.8	36.1	31.4	28.1	24.8	23.4	23.4	22.8	23.4
40°	37.5	34.1	32.1	30.8	28.1	24.1	21.4	20.1	19.4	19.4	19.4
42.5°	33.5	30.8	26.8	26.1	25.4	20.7	17.4	16.7	16.1	15.4	15.4
45°	31.4	27.4	24.1	20.7	20.7	17.4	14.7	13.4	12.7	12.0	12.7
47.5°	28.8	24.8	20.7	17.4	16.7	14.1	11.4	10.0	9.4	9.4	9.4
50°	27.4	22.1	18.1	14.7	12.7	11.4	8.7	7.4	6.7	6.7	6.7
52.5°	25.4	20.7	16.1	12.7	10.0	8.7	6.7	5.4	4.7	4.7	4.7
55°	22.8	18.7	14.1	10.7	8.7	6.7	4.7	3.3	2.7	2.7	2.7
57.5°	21.4	16.7	12.0	9.4	6.7	4.7	2.7	2.0	2.0	1.3	2.0
60°	19.4	14.7	10.0	7.4	5.4	3.3	2.0	0.7	0.7	0.7	0.7
62.5°	16.7	12.7	8.7	6.0	4.0	2.0	0.7	0.0	0.0	0.0	0.0
65°	14.1	10.0	6.7	4.7	2.7	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	12.0	8.7	5.4	3.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.7	7.4	4.0	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.7	6.0	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.4	4.7	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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°	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1
2.5°	849.8	845.8	865.9	898.6	915.4	948.2	956.2	976.9	971.6	978.9
5°	703.3	711.3	740.7	788.9	806.3	853.8	898.6	943.5	972.2	986.3
7.5°	521.9	548.7	584.8	629.0	673.8	736.0	812.3	864.5	892.6	922.7
10°	388.8	417.5	459.0	502.5	575.5	645.0	721.3	786.2	810.3	838.4
12.5°	305.8	350.6	398.8	445.6	489.1	555.4	649.7	744.1	770.2	791.6
15°	212.8	267.7	336.6	397.5	458.4	515.9	613.6	728.0	763.5	799.6
17.5°	117.8	161.3	240.2	325.9	415.5	503.9	625.6	757.5	811.0	836.4
20°	68.3	85.6	141.9	243.6	362.0	477.8	631.7	813.0	883.9	896.6
22.5°	56.2	62.2	80.3	152.6	296.4	461.0	662.4	890.6	962.9	993.0
25°	48.2	52.9	62.2	91.7	224.2	425.6	681.8	987.6	1054.5	1087.3
27.5°	42.8	47.5	54.9	67.6	152.6	376.7	714.0	1075.3	1142.2	1187.0
30°	37.5	41.5	48.8	57.5	105.7	321.9	741.4	1139.5	1233.9	1247.9
32.5°	33.5	36.8	42.2	49.5	78.3	244.2	763.5	1205.8	1285.4	1316.2
35°	28.8	32.8	36.1	42.2	59.6	184.0	750.1	1257.3	1361.0	1397.8
37.5°	25.4	28.1	31.4	35.5	50.2	143.9	722.7	1318.9	1425.9	1460.0
40°	21.4	23.4	27.4	31.4	45.5	111.1	691.2	1393.1	1516.9	1577.1
42.5°	18.1	20.1	22.8	29.4	37.5	82.3	627.6	1450.7	1590.5	1641.4
45°	14.1	16.7	20.7	29.4	30.1	60.9	562.1	1493.5	1632.0	1657.4
47.5°	10.7	13.4	20.1	25.4	24.1	42.2	484.5	1542.3	1674.8	1698.3
50°	8.0	10.7	22.8	22.1	20.1	32.1	435.6	1576.5	1677.5	1690.2
52.5°	5.4	8.0	18.7	16.7	16.7	28.1	422.2	1575.1	1684.2	1656.8
55°	4.0	6.0	10.7	12.0	14.7	24.8	410.2	1625.3	1686.2	1705.6
57.5°	2.7	4.7	7.4	9.4	12.7	21.4	385.4	1685.5	1748.4	1758.5
60°	1.3	3.3	5.4	7.4	10.7	18.7	350.6	1729.7	1824.0	1834.8
62.5°	0.7	2.0	4.0	6.0	8.7	14.7	314.5	1659.4	1791.3	1810.0
65°	0.0	1.3	2.7	4.0	5.4	10.7	255.6	1498.2	1661.5	1730.4
67.5°	0.0	0.0	1.3	2.7	3.3	8.0	192.7	1363.0	1541.7	1635.4
70°	0.0	0.0	0.7	0.7	2.0	6.0	123.1	1128.8	1376.4	1427.9
72.5°	0.0	0.0	0.0	0.0	0.7	4.0	71.6	838.4	1078.6	1174.3
75°	0.0	0.0	0.0	0.0	0.0	3.3	36.1	539.3	750.8	879.2
77.5°	0.0	0.0	0.0	0.0	0.0	2.7	19.4	347.9	553.4	661.1
80°	0.0	0.0	0.0	0.0	0.0	0.7	11.4	202.1	354.0	428.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	99.0	211.4	247.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	52.9	105.7	139.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.4	14.1
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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