

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: P677451

Luminaire Tested: **CCW-SA-1D-760-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677451
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-760-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

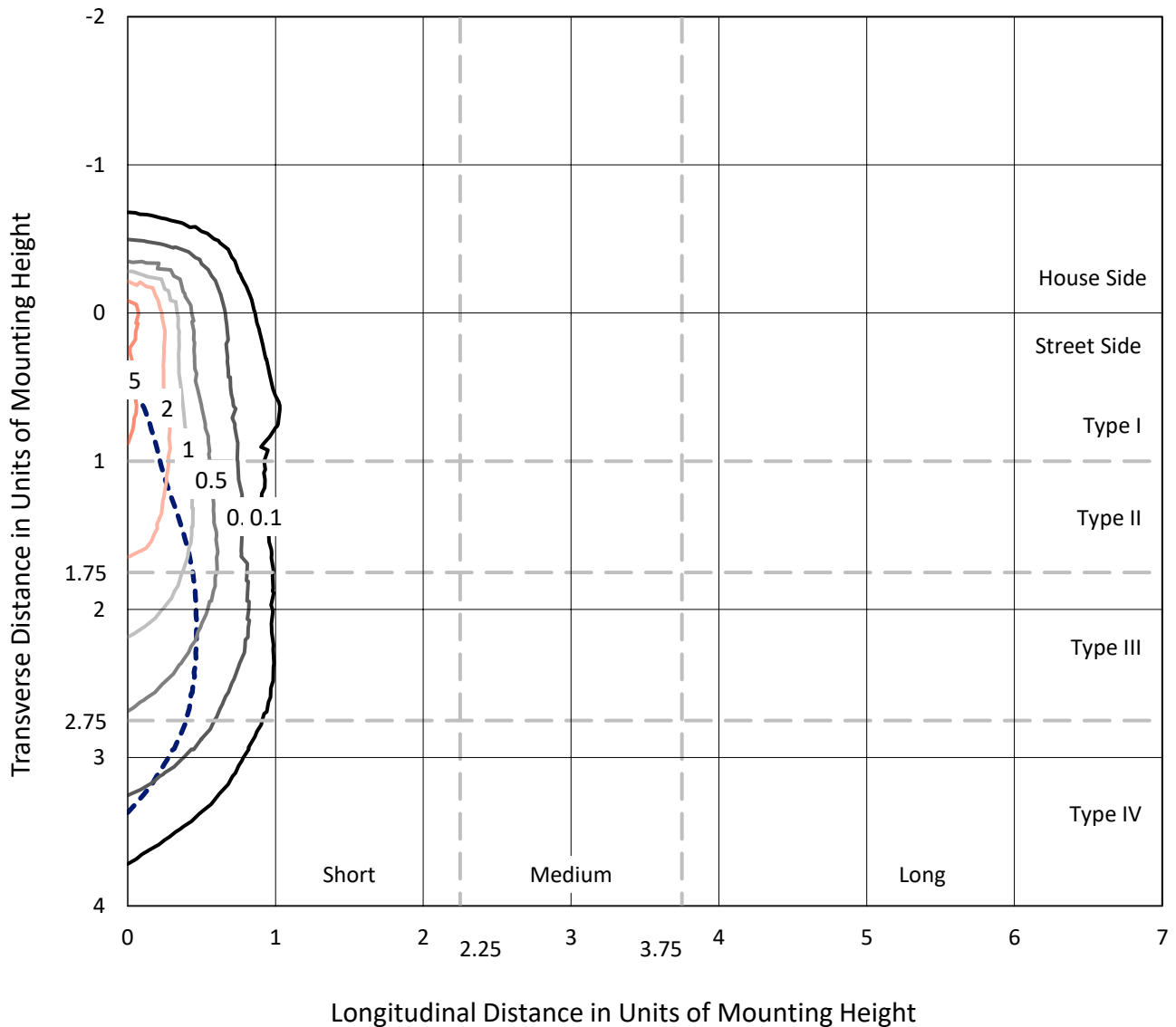
Lumens per Lamp: N/A
Luminaire Lumens: 4099.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

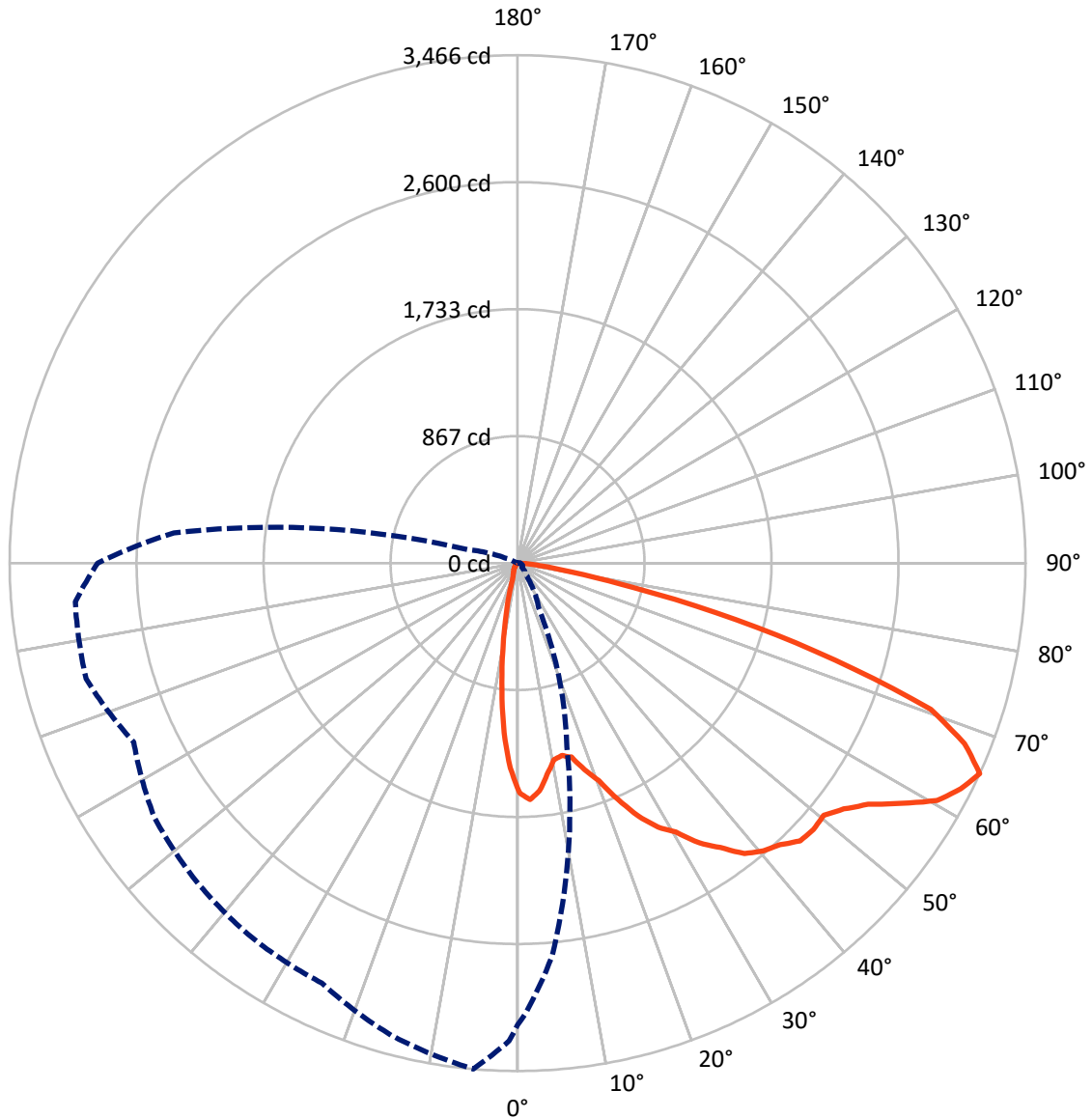
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 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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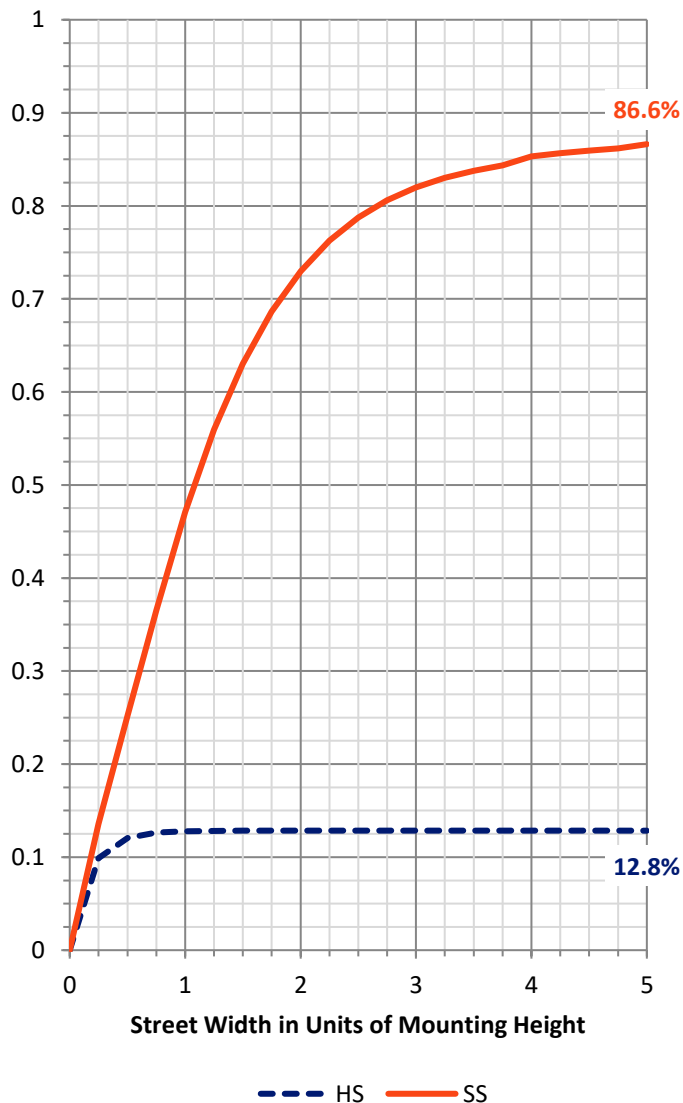
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	532.3	0.0	532.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3567.2	0.0	3567.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	4099.5	0.0	4099.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	2.9
10°-20°	229.9	5.6
20°-30°	320.2	7.8
30°-40°	454.9	11.1
40°-50°	630.9	15.4
50°-60°	859.6	21.0
60°-70°	945.0	23.1
70°-80°	464.5	11.3
80°-90°	75.8	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°	4099.5	100.0
0°-180°	4099.5	100.0



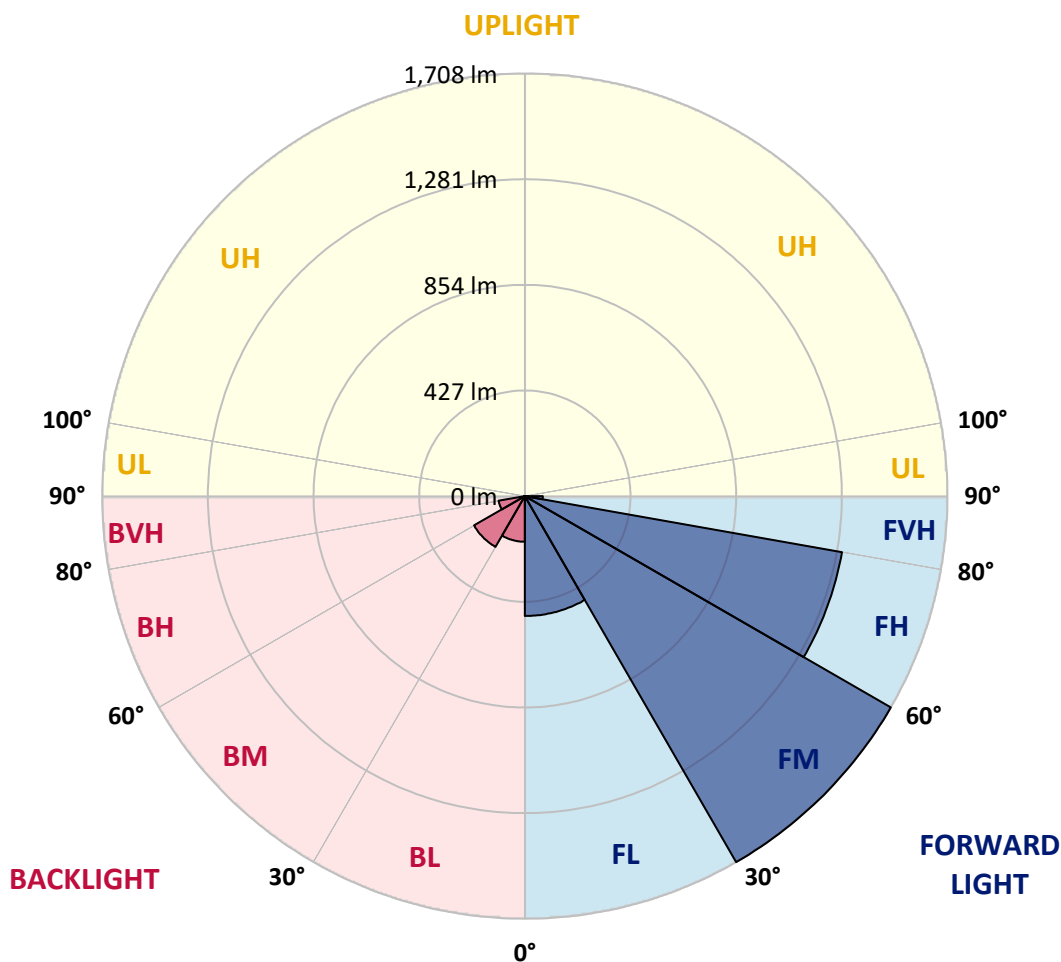
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.5	11.8			
FM (30°-60°)	1708.4	41.7			
FH (60°-80°)	1301.9	31.8			G1/1800
FVH (80°-90°)	72.4	1.8			G1/100
BL (0°-30°)	184.3	4.5	B1/500		
BM (30°-60°)	237.0	5.8	B1/1000		
BH (60°-80°)	107.6	2.6	B0/110		G0/110
BVH (80°-90°)	3.4	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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1599.3	1618.1	1600.4	1538.5	1527.5	1497.6	1452.3	1449.0	1401.5	1407.0	1381.6
5°	1503.1	1521.9	1484.3	1402.6	1326.3	1265.5	1229.0	1163.8	1149.5	1117.4	1117.4
7.5°	1404.8	1403.7	1339.6	1271.0	1157.2	1045.6	994.7	900.8	845.5	815.7	786.9
10°	1323.0	1305.3	1265.5	1124.0	1000.2	884.2	821.2	759.3	701.8	652.1	602.4
12.5°	1265.5	1276.6	1213.6	1059.9	899.7	819.0	751.6	686.4	617.8	561.5	506.2
15°	1295.3	1277.7	1203.6	1045.6	883.1	772.6	683.0	603.5	527.2	453.2	411.2
17.5°	1388.2	1342.9	1255.6	1045.6	848.8	701.8	593.5	499.6	417.8	351.5	299.5
20°	1513.1	1461.1	1367.2	1084.2	823.4	649.9	501.8	383.5	298.4	236.5	196.7
22.5°	1641.3	1600.4	1458.9	1099.7	793.6	580.3	395.7	277.4	198.9	159.2	139.3
25°	1794.9	1737.4	1582.7	1161.6	749.4	512.8	311.7	193.4	148.1	127.1	114.9
27.5°	1917.6	1907.7	1698.8	1199.2	716.2	457.6	246.5	153.6	122.7	107.2	99.5
30°	2072.3	2018.2	1840.2	1274.3	678.6	394.6	205.6	138.2	112.7	96.2	90.6
32.5°	2165.2	2139.8	1914.3	1316.3	636.6	342.6	176.8	121.6	102.8	90.6	85.1
35°	2300.0	2249.2	2020.4	1342.9	614.5	312.8	159.2	110.5	86.2	74.1	67.4
37.5°	2450.3	2431.5	2147.5	1341.8	582.5	295.1	147.0	102.8	81.8	68.5	60.8
40°	2604.0	2527.7	2224.9	1372.7	565.9	281.8	138.2	98.4	77.4	65.2	55.3
42.5°	2718.9	2631.6	2314.4	1361.7	546.0	258.6	134.8	91.7	74.1	59.7	50.8
45°	2749.9	2718.9	2395.1	1358.3	531.6	239.8	129.3	90.6	71.8	56.4	47.5
47.5°	2809.5	2788.5	2494.5	1363.9	520.6	225.5	116.1	92.8	68.5	53.1	45.3
50°	2836.1	2798.5	2575.2	1377.1	495.2	207.8	103.9	97.3	67.4	51.9	43.1
52.5°	2945.5	2912.3	2685.7	1414.7	474.2	184.6	91.7	92.8	69.6	48.6	40.9
55°	3052.7	3015.1	2856.0	1500.9	444.3	165.8	78.5	81.8	66.3	44.2	36.5
57.5°	3199.7	3137.8	2969.8	1536.3	417.8	140.4	69.6	67.4	61.9	39.8	32.1
60°	3221.8	3247.2	2953.2	1514.2	390.2	123.8	60.8	51.9	66.3	35.4	27.6
62.5°	3295.8	3189.7	2875.9	1463.3	370.3	113.8	54.2	43.1	57.5	30.9	23.2
65°	3153.3	3074.8	2694.6	1299.8	344.8	114.9	47.5	35.4	36.5	25.4	18.8
67.5°	2944.4	2882.5	2394.0	1121.8	319.4	112.7	42.0	30.9	27.6	22.1	16.6
70°	2584.1	2450.3	2033.7	910.7	281.8	105.0	35.4	27.6	23.2	17.7	12.2
72.5°	1880.0	1825.9	1458.9	704.0	253.1	95.1	33.2	23.2	19.9	13.3	9.9
75°	1265.5	1176.0	920.7	462.0	203.4	82.9	27.6	21.0	15.5	9.9	7.7
77.5°	668.7	632.2	521.7	219.9	112.7	38.7	15.5	12.2	8.8	7.7	4.4
80°	289.6	257.5	225.5	89.5	39.8	17.7	9.9	6.6	5.5	4.4	2.2
82.5°	148.1	141.5	117.2	38.7	23.2	13.3	5.5	4.4	3.3	2.2	1.1
85°	72.9	75.2	61.9	12.2	13.3	7.7	1.1	1.1	0.0	0.0	0.0
87.5°	5.5	5.5	4.4	2.2	3.3	1.1	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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1371.6	1387.1	1360.6	1377.1	1369.4	1372.7	1376.0	1367.2	1369.4	1400.3	1401.5
5°	1098.6	1128.5	1117.4	1132.9	1159.4	1146.1	1158.3	1156.1	1158.3	1162.7	1182.6
7.5°	783.6	774.8	795.8	836.7	884.2	912.9	898.6	890.8	886.4	875.4	888.6
10°	591.3	586.9	581.4	593.5	624.5	656.5	674.2	644.4	627.8	606.8	599.0
12.5°	490.7	463.1	447.6	428.8	437.7	466.4	467.5	438.8	412.3	401.2	413.4
15°	386.8	368.0	340.4	313.9	300.6	322.7	303.9	276.3	242.0	237.6	236.5
17.5°	276.3	265.3	245.4	234.3	218.8	213.3	193.4	151.4	127.1	120.5	122.7
20°	187.9	179.0	177.9	168.0	161.4	156.9	124.9	97.3	89.5	90.6	91.7
22.5°	139.3	134.8	129.3	128.2	122.7	117.2	91.7	81.8	76.3	76.3	79.6
25°	113.8	111.6	106.1	103.9	101.7	93.9	77.4	69.6	67.4	65.2	68.5
27.5°	97.3	96.2	92.8	89.5	87.3	79.6	67.4	60.8	58.6	58.6	58.6
30°	87.3	87.3	82.9	76.3	76.3	67.4	57.5	53.1	50.8	50.8	49.7
32.5°	81.8	79.6	74.1	69.6	66.3	57.5	50.8	46.4	43.1	43.1	44.2
35°	66.3	66.3	65.2	61.9	57.5	48.6	43.1	38.7	36.5	35.4	36.5
37.5°	58.6	55.3	50.8	51.9	49.7	42.0	36.5	33.2	29.8	29.8	29.8
40°	53.1	49.7	45.3	42.0	40.9	37.6	32.1	26.5	23.2	22.1	22.1
42.5°	47.5	45.3	38.7	33.2	32.1	32.1	24.3	19.9	16.6	16.6	16.6
45°	44.2	40.9	35.4	28.7	23.2	24.3	19.9	14.4	12.2	11.1	11.1
47.5°	42.0	38.7	30.9	24.3	17.7	17.7	14.4	9.9	7.7	6.6	6.6
50°	38.7	35.4	27.6	19.9	13.3	11.1	8.8	5.5	3.3	2.2	2.2
52.5°	36.5	33.2	24.3	16.6	11.1	7.7	5.5	1.1	0.0	0.0	0.0
55°	33.2	28.7	21.0	13.3	8.8	4.4	1.1	0.0	0.0	0.0	0.0
57.5°	28.7	25.4	16.6	9.9	5.5	1.1	0.0	0.0	0.0	0.0	0.0
60°	24.3	21.0	13.3	7.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.9	17.7	9.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.6	13.3	7.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14.4	11.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.1	7.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.7	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1405.9	1439.0	1470.0	1478.8	1503.1	1570.6	1570.6	1602.6	1660.1	1681.1	1685.5
5°	1185.9	1221.3	1227.9	1296.5	1328.5	1397.0	1442.3	1550.7	1615.9	1656.8	1682.2
7.5°	901.9	914.0	939.5	1003.6	1066.6	1149.5	1235.7	1373.8	1488.8	1535.2	1621.4
10°	620.0	656.5	711.8	769.3	867.6	959.4	1071.0	1201.4	1342.9	1400.3	1474.4
12.5°	417.8	468.6	557.0	638.8	729.5	822.3	928.4	1103.0	1263.3	1342.9	1416.9
15°	244.3	306.2	382.4	515.0	635.5	739.4	845.5	1022.4	1216.9	1319.7	1410.3
17.5°	123.8	142.6	205.6	320.5	479.7	649.9	807.9	1033.4	1252.2	1378.2	1453.4
20°	92.8	98.4	116.1	170.2	328.3	537.1	772.6	1050.0	1350.6	1504.2	1545.1
22.5°	80.7	85.1	92.8	110.5	184.6	411.2	722.8	1090.9	1484.3	1629.1	1715.3
25°	68.5	72.9	79.6	90.6	118.3	279.6	662.0	1134.0	1603.7	1786.1	1866.8
27.5°	59.7	63.0	69.6	78.5	96.2	177.9	557.0	1191.5	1786.1	1976.2	1997.2
30°	50.8	54.2	59.7	69.6	81.8	126.0	408.9	1199.2	1886.7	2059.1	2117.7
32.5°	44.2	45.3	51.9	60.8	68.5	99.5	287.4	1206.9	1960.7	2166.3	2178.4
35°	36.5	38.7	45.3	50.8	59.7	78.5	217.7	1168.2	2056.9	2276.8	2273.5
37.5°	29.8	33.2	37.6	42.0	48.6	66.3	173.5	1096.4	2177.3	2448.1	2344.2
40°	23.2	26.5	30.9	36.5	40.9	59.7	130.4	988.1	2303.3	2532.1	2421.6
42.5°	16.6	18.8	23.2	28.7	36.5	49.7	93.9	859.9	2353.1	2630.5	2514.4
45°	12.2	14.4	17.7	24.3	37.6	39.8	65.2	742.7	2406.1	2673.6	2493.4
47.5°	6.6	8.8	13.3	21.0	33.2	29.8	46.4	637.7	2466.9	2712.3	2510.0
50°	2.2	3.3	7.7	22.1	26.5	23.2	36.5	581.4	2526.6	2720.0	2543.2
52.5°	0.0	0.0	4.4	23.2	19.9	17.7	32.1	559.3	2511.1	2744.3	2522.2
55°	0.0	0.0	1.1	9.9	11.1	13.3	26.5	558.1	2620.5	2752.1	2637.1
57.5°	0.0	0.0	0.0	3.3	6.6	11.1	23.2	522.8	2690.2	2944.4	2791.9
60°	0.0	0.0	0.0	1.1	4.4	7.7	17.7	491.8	2760.9	3030.6	2957.6
62.5°	0.0	0.0	0.0	0.0	1.1	3.3	12.2	444.3	2618.3	3024.0	3117.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	351.5	2355.3	2865.9	3029.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	243.2	2062.4	2667.0	2867.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.0	1664.5	2338.7	2431.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	1188.1	1856.8	1995.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	735.0	1357.2	1527.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	476.4	1027.9	1159.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	254.2	644.4	749.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.5	391.3	450.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	237.6	270.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	48.6
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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1687.7	1719.8	1731.9	1713.1	1715.3	1676.7	1671.1	1617.0	1594.9	1599.3
5°	1765.1	1811.5	1836.9	1815.9	1768.4	1694.3	1626.9	1562.8	1523.0	1503.1
7.5°	1747.4	1799.3	1831.4	1851.3	1797.1	1677.8	1575.0	1454.5	1403.7	1404.8
10°	1650.1	1758.4	1823.7	1798.2	1772.8	1653.4	1494.3	1363.9	1318.6	1323.0
12.5°	1571.7	1692.1	1730.8	1750.7	1698.8	1603.7	1496.5	1347.3	1296.5	1265.5
15°	1523.0	1612.6	1614.8	1645.7	1624.7	1624.7	1519.7	1373.8	1329.6	1295.3
17.5°	1523.0	1542.9	1540.7	1551.8	1587.1	1629.1	1578.3	1481.0	1393.7	1388.2
20°	1557.3	1495.4	1481.0	1485.5	1515.3	1640.2	1707.6	1586.0	1530.8	1513.1
22.5°	1636.9	1500.9	1413.6	1398.1	1489.9	1639.1	1790.5	1751.8	1655.7	1641.3
25°	1746.3	1491.0	1395.9	1376.0	1445.7	1678.9	1904.3	1912.1	1824.8	1794.9
27.5°	1850.2	1535.2	1393.7	1389.3	1481.0	1670.0	1982.8	2040.3	1941.9	1917.6
30°	1885.6	1579.4	1434.6	1376.0	1494.3	1702.1	1980.6	2130.9	2066.8	2072.3
32.5°	1927.5	1623.6	1439.0	1415.8	1550.7	1754.0	2043.6	2276.8	2230.4	2165.2
35°	1989.4	1683.3	1481.0	1460.0	1590.4	1800.4	2056.9	2384.0	2376.3	2300.0
37.5°	2042.5	1741.9	1568.3	1571.7	1712.0	1875.6	2115.4	2515.5	2502.3	2450.3
40°	2080.1	1823.7	1704.3	1713.1	1818.1	1959.6	2219.3	2581.9	2680.2	2604.0
42.5°	2085.6	1896.6	1860.1	1930.9	2029.2	2090.0	2261.3	2627.2	2768.6	2718.9
45°	2106.6	2012.7	2114.3	2166.3	2247.0	2205.0	2259.1	2704.5	2775.3	2749.9
47.5°	2188.4	2223.8	2352.0	2510.0	2538.8	2400.6	2312.2	2716.7	2812.9	2809.5
50°	2273.5	2450.3	2630.5	2735.5	2772.0	2535.4	2361.9	2706.7	2862.6	2836.1
52.5°	2368.5	2647.1	2906.8	3036.1	3016.2	2684.6	2418.3	2787.4	2954.3	2945.5
55°	2428.2	2735.5	3084.7	3264.9	3249.4	2851.5	2597.3	2903.5	3074.8	3052.7
57.5°	2586.3	2879.2	3261.6	3345.6	3386.5	3070.4	2722.2	3093.6	3175.4	3199.7
60°	2716.7	2973.1	3308.0	3429.6	3443.9	3200.8	2941.1	3289.2	3303.6	3221.8
62.5°	2907.9	3009.6	3209.6	3319.1	3393.1	3274.8	3137.8	3394.2	3301.4	3295.8
65°	3048.3	2890.2	3026.2	3087.0	3134.5	3162.1	3335.6	3466.1	3260.5	3153.3
67.5°	2969.8	2664.7	2639.3	2642.6	2657.0	2823.9	3269.3	3290.3	3032.8	2944.4
70°	2613.9	2186.2	2151.9	2178.4	2106.6	2307.8	3000.7	2990.8	2675.8	2584.1
72.5°	2114.3	1593.8	1535.2	1571.7	1588.2	1801.6	2524.4	2268.0	1951.9	1880.0
75°	1680.0	1168.2	985.9	1074.3	1130.7	1311.9	1971.8	1540.7	1362.8	1265.5
77.5°	1319.7	884.2	767.0	731.7	783.6	953.8	1434.6	809.0	714.0	668.7
80°	836.7	649.9	705.1	654.3	676.4	680.8	747.1	368.0	292.9	289.6
82.5°	504.0	444.3	528.3	290.7	529.4	473.0	310.6	166.9	148.1	148.1
85°	357.0	275.2	182.4	118.3	235.4	259.7	120.5	86.2	75.2	72.9
87.5°	179.0	85.1	40.9	26.5	29.8	48.6	14.4	6.6	6.6	5.5
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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