

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: P677408

Luminaire Tested: **CCW-SA-1E-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677408
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4474.1 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

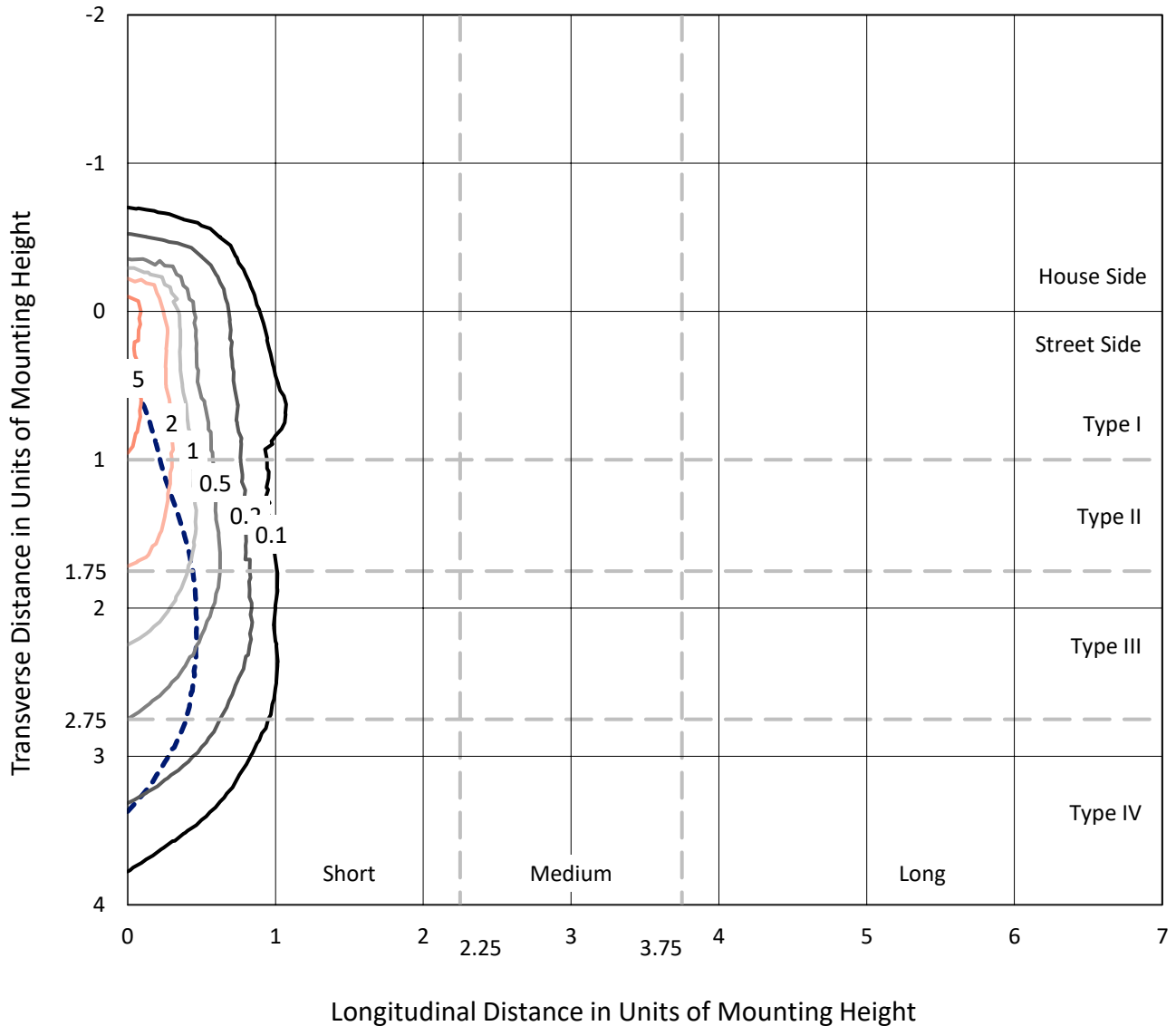
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

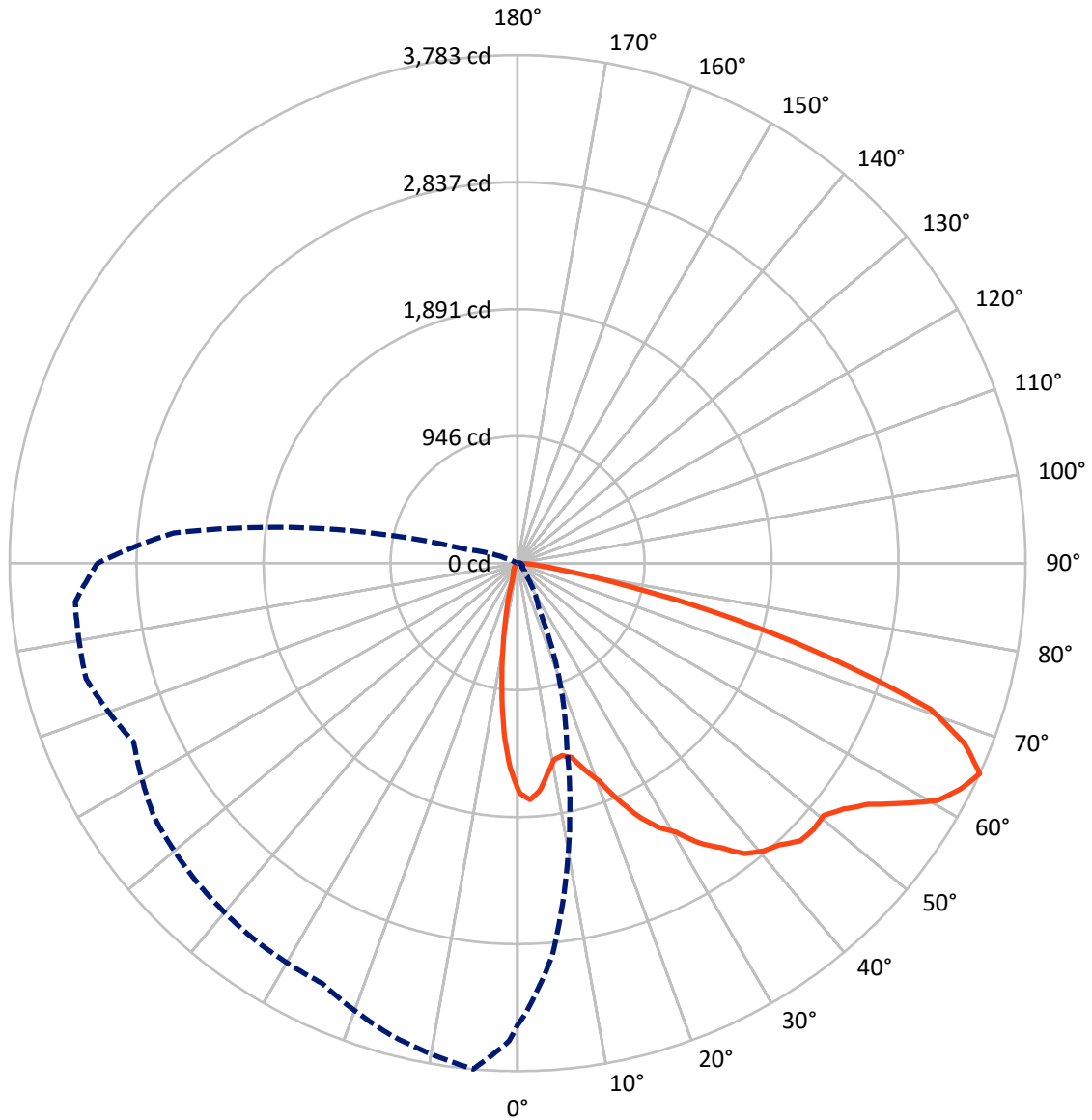
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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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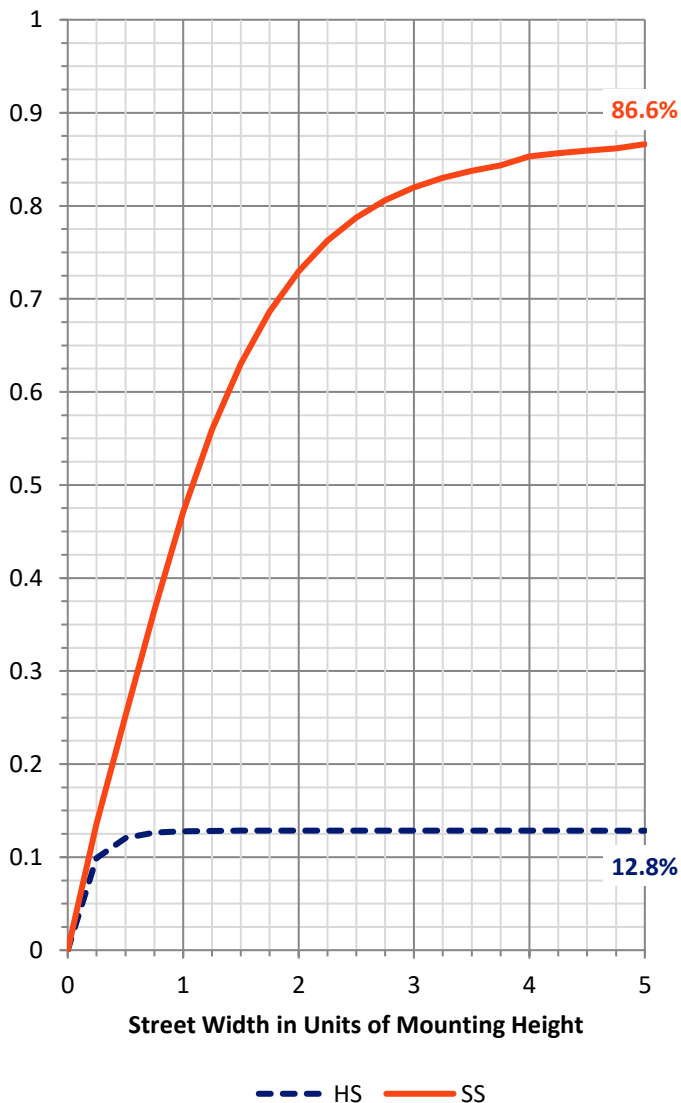
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.9	0.0	580.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3893.2	0.0	3893.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	4474.1	0.0	4474.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	2.9
10°-20°	250.9	5.6
20°-30°	349.4	7.8
30°-40°	496.5	11.1
40°-50°	688.5	15.4
50°-60°	938.1	21.0
60°-70°	1031.4	23.1
70°-80°	506.9	11.3
80°-90°	82.8	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°	4474.1	100.0
0°-180°	4474.1	100.0



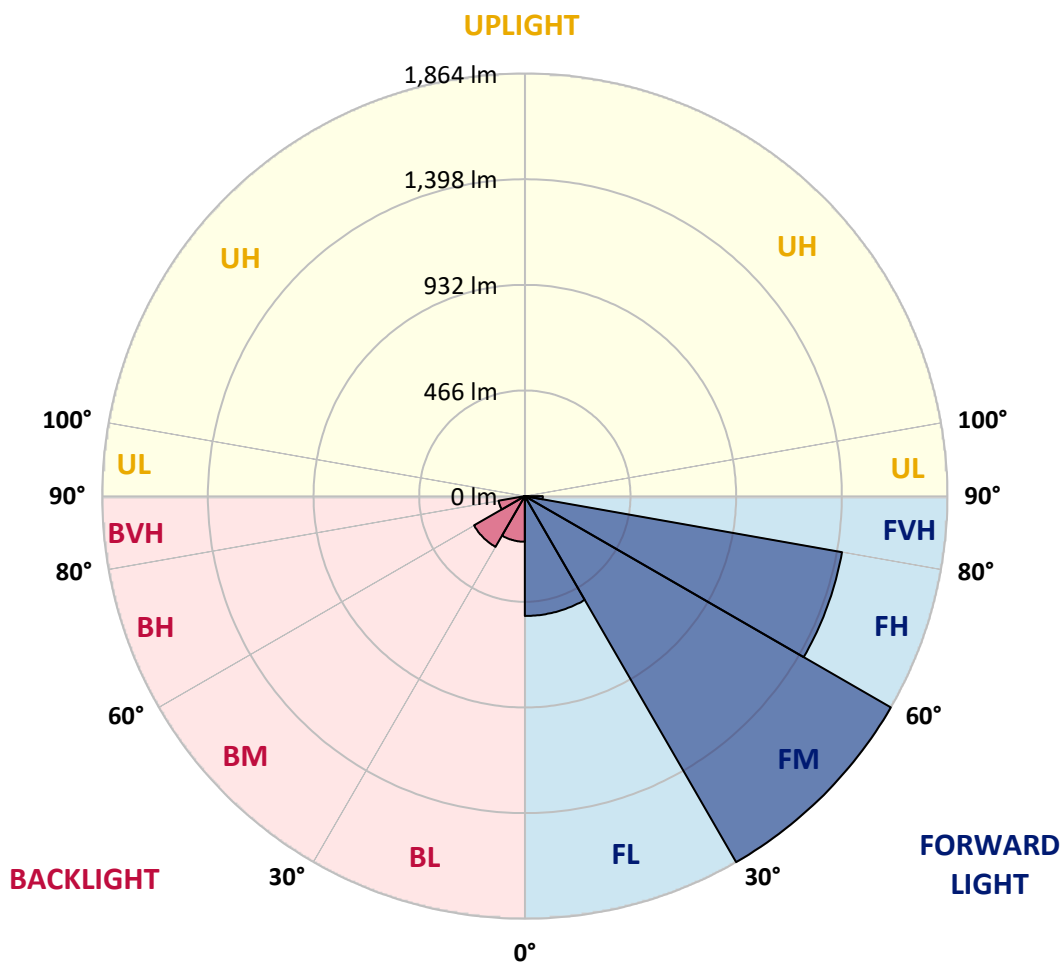
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.7	11.8			
FM (30°-60°)	1864.5	41.7			
FH (60°-80°)	1420.9	31.8			G1/1800
FVH (80°-90°)	79.0	1.8			G1/100
BL (0°-30°)	201.1	4.5	B1/500		
BM (30°-60°)	258.6	5.8	B1/1000		
BH (60°-80°)	117.4	2.6	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1745.4	1765.9	1746.6	1679.1	1667.0	1634.4	1585.0	1581.4	1529.5	1535.5	1507.8
5°	1640.5	1661.0	1620.0	1530.7	1447.5	1381.1	1341.3	1270.2	1254.5	1219.5	1219.5
7.5°	1533.1	1531.9	1461.9	1387.2	1262.9	1141.1	1085.6	983.1	922.8	890.2	858.8
10°	1443.9	1424.6	1381.1	1226.7	1091.6	965.0	896.2	828.7	766.0	711.7	657.4
12.5°	1381.1	1393.2	1324.4	1156.8	981.9	893.8	820.2	749.1	674.3	612.8	552.5
15°	1413.7	1394.4	1313.6	1141.1	963.8	843.2	745.4	658.6	575.4	494.6	448.7
17.5°	1515.0	1465.6	1370.3	1141.1	926.4	766.0	647.7	545.2	456.0	383.6	326.9
20°	1651.3	1594.6	1492.1	1183.3	898.6	709.3	547.6	418.6	325.7	258.1	214.7
22.5°	1791.2	1746.6	1592.2	1200.2	866.1	633.3	431.8	302.8	217.1	173.7	152.0
25°	1958.9	1896.2	1727.3	1267.7	817.8	559.7	340.2	211.1	161.6	138.7	125.4
27.5°	2092.8	2081.9	1854.0	1308.8	781.6	499.4	269.0	167.7	133.9	117.0	108.6
30°	2261.7	2202.6	2008.4	1390.8	740.6	430.6	224.4	150.8	123.0	104.9	98.9
32.5°	2363.0	2335.3	2089.2	1436.6	694.8	373.9	193.0	132.7	112.2	98.9	92.9
35°	2510.2	2454.7	2205.0	1465.6	670.7	341.4	173.7	120.6	94.1	80.8	73.6
37.5°	2674.2	2653.7	2343.7	1464.4	635.7	322.1	160.4	112.2	89.3	74.8	66.3
40°	2841.9	2758.6	2428.1	1498.1	617.6	307.6	150.8	107.4	84.4	71.2	60.3
42.5°	2967.3	2872.0	2525.8	1486.1	595.9	282.3	147.2	100.1	80.8	65.1	55.5
45°	3001.1	2967.3	2613.9	1482.5	580.2	261.8	141.1	98.9	78.4	61.5	51.9
47.5°	3066.2	3043.3	2722.5	1488.5	568.1	246.1	126.7	101.3	74.8	57.9	49.5
50°	3095.2	3054.2	2810.5	1503.0	540.4	226.8	113.4	106.1	73.6	56.7	47.0
52.5°	3214.6	3178.4	2931.1	1544.0	517.5	201.4	100.1	101.3	76.0	53.1	44.6
55°	3331.6	3290.6	3116.9	1638.1	484.9	180.9	85.6	89.3	72.4	48.2	39.8
57.5°	3492.0	3424.5	3241.1	1676.7	456.0	153.2	76.0	73.6	67.5	43.4	35.0
60°	3516.2	3543.9	3223.0	1652.5	425.8	135.1	66.3	56.7	72.4	38.6	30.2
62.5°	3597.0	3481.2	3138.6	1597.0	404.1	124.2	59.1	47.0	62.7	33.8	25.3
65°	3441.4	3355.7	2940.8	1418.5	376.3	125.4	51.9	38.6	39.8	27.7	20.5
67.5°	3213.4	3145.8	2612.7	1224.3	348.6	123.0	45.8	33.8	30.2	24.1	18.1
70°	2820.2	2674.2	2219.5	993.9	307.6	114.6	38.6	30.2	25.3	19.3	13.3
72.5°	2051.8	1992.7	1592.2	768.4	276.2	103.7	36.2	25.3	21.7	14.5	10.9
75°	1381.1	1283.4	1004.8	504.2	221.9	90.5	30.2	22.9	16.9	10.9	8.4
77.5°	729.8	690.0	569.3	240.0	123.0	42.2	16.9	13.3	9.6	8.4	4.8
80°	316.0	281.1	246.1	97.7	43.4	19.3	10.9	7.2	6.0	4.8	2.4
82.5°	161.6	154.4	127.9	42.2	25.3	14.5	6.0	4.8	3.6	2.4	1.2
85°	79.6	82.0	67.5	13.3	14.5	8.4	1.2	1.2	0.0	0.0	0.0
87.5°	6.0	6.0	4.8	2.4	3.6	1.2	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°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1496.9	1513.8	1484.9	1503.0	1494.5	1498.1	1501.8	1492.1	1494.5	1528.3	1529.5
5°	1199.0	1231.6	1219.5	1236.4	1265.3	1250.9	1264.1	1261.7	1264.1	1269.0	1290.7
7.5°	855.2	845.6	868.5	913.1	965.0	996.3	980.7	972.2	967.4	955.3	969.8
10°	645.3	640.5	634.5	647.7	681.5	716.5	735.8	703.2	685.1	662.2	653.8
12.5°	535.6	505.4	488.5	468.0	477.7	509.0	510.2	478.9	449.9	437.9	451.1
15°	422.2	401.7	371.5	342.6	328.1	352.2	331.7	301.6	264.2	259.3	258.1
17.5°	301.6	289.5	267.8	255.7	238.8	232.8	211.1	165.3	138.7	131.5	133.9
20°	205.1	195.4	194.2	183.3	176.1	171.3	136.3	106.1	97.7	98.9	100.1
22.5°	152.0	147.2	141.1	139.9	133.9	127.9	100.1	89.3	83.2	83.2	86.8
25°	124.2	121.8	115.8	113.4	111.0	102.5	84.4	76.0	73.6	71.2	74.8
27.5°	106.1	104.9	101.3	97.7	95.3	86.8	73.6	66.3	63.9	63.9	63.9
30°	95.3	95.3	90.5	83.2	83.2	73.6	62.7	57.9	55.5	55.5	54.3
32.5°	89.3	86.8	80.8	76.0	72.4	62.7	55.5	50.7	47.0	47.0	48.2
35°	72.4	72.4	71.2	67.5	62.7	53.1	47.0	42.2	39.8	38.6	39.8
37.5°	63.9	60.3	55.5	56.7	54.3	45.8	39.8	36.2	32.6	32.6	32.6
40°	57.9	54.3	49.5	45.8	44.6	41.0	35.0	28.9	25.3	24.1	24.1
42.5°	51.9	49.5	42.2	36.2	35.0	35.0	26.5	21.7	18.1	18.1	18.1
45°	48.2	44.6	38.6	31.4	25.3	26.5	21.7	15.7	13.3	12.1	12.1
47.5°	45.8	42.2	33.8	26.5	19.3	19.3	15.7	10.9	8.4	7.2	7.2
50°	42.2	38.6	30.2	21.7	14.5	12.1	9.6	6.0	3.6	2.4	2.4
52.5°	39.8	36.2	26.5	18.1	12.1	8.4	6.0	1.2	0.0	0.0	0.0
55°	36.2	31.4	22.9	14.5	9.6	4.8	1.2	0.0	0.0	0.0	0.0
57.5°	31.4	27.7	18.1	10.9	6.0	1.2	0.0	0.0	0.0	0.0	0.0
60°	26.5	22.9	14.5	8.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21.7	19.3	10.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18.1	14.5	8.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15.7	12.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.1	8.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.4	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.2	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°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1534.3	1570.5	1604.3	1613.9	1640.5	1714.0	1714.0	1749.0	1811.8	1834.7	1839.5
5°	1294.3	1332.9	1340.1	1414.9	1449.9	1524.7	1574.1	1692.3	1763.5	1808.1	1835.9
7.5°	984.3	997.5	1025.3	1095.3	1164.0	1254.5	1348.6	1499.3	1624.8	1675.4	1769.5
10°	676.7	716.5	776.8	839.5	946.9	1047.0	1168.8	1311.2	1465.6	1528.3	1609.1
12.5°	456.0	511.4	607.9	697.2	796.1	897.4	1013.2	1203.8	1378.7	1465.6	1546.4
15°	266.6	334.1	417.4	562.1	693.6	807.0	922.8	1115.8	1328.1	1440.2	1539.1
17.5°	135.1	155.6	224.4	349.8	523.5	709.3	881.8	1127.8	1366.7	1504.2	1586.2
20°	101.3	107.4	126.7	185.8	358.2	586.2	843.2	1145.9	1474.0	1641.7	1686.3
22.5°	88.1	92.9	101.3	120.6	201.4	448.7	788.9	1190.5	1620.0	1778.0	1872.1
25°	74.8	79.6	86.8	98.9	129.1	305.2	722.5	1237.6	1750.2	1949.3	2037.3
27.5°	65.1	68.8	76.0	85.6	104.9	194.2	607.9	1300.3	1949.3	2156.7	2179.7
30°	55.5	59.1	65.1	76.0	89.3	137.5	446.3	1308.8	2059.0	2247.2	2311.1
32.5°	48.2	49.5	56.7	66.3	74.8	108.6	313.6	1317.2	2139.8	2364.2	2377.5
35°	39.8	42.2	49.5	55.5	65.1	85.6	237.6	1275.0	2244.8	2484.8	2481.2
37.5°	32.6	36.2	41.0	45.8	53.1	72.4	189.4	1196.6	2376.3	2671.8	2558.4
40°	25.3	28.9	33.8	39.8	44.6	65.1	142.3	1078.4	2513.8	2763.5	2642.8
42.5°	18.1	20.5	25.3	31.4	39.8	54.3	102.5	938.4	2568.1	2870.8	2744.2
45°	13.3	15.7	19.3	26.5	41.0	43.4	71.2	810.6	2626.0	2917.9	2721.2
47.5°	7.2	9.6	14.5	22.9	36.2	32.6	50.7	696.0	2692.3	2960.1	2739.3
50°	2.4	3.6	8.4	24.1	28.9	25.3	39.8	634.5	2757.4	2968.5	2775.5
52.5°	0.0	0.0	4.8	25.3	21.7	19.3	35.0	610.4	2740.5	2995.1	2752.6
55°	0.0	0.0	1.2	10.9	12.1	14.5	28.9	609.1	2860.0	3003.5	2878.1
57.5°	0.0	0.0	0.0	3.6	7.2	12.1	25.3	570.5	2936.0	3213.4	3046.9
60°	0.0	0.0	0.0	1.2	4.8	8.4	19.3	536.8	3013.2	3307.5	3227.9
62.5°	0.0	0.0	0.0	0.0	1.2	3.6	13.3	484.9	2857.6	3300.2	3402.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	8.4	383.6	2570.5	3127.7	3306.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	265.4	2250.8	2910.6	3129.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.4	1816.6	2552.4	2653.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8	1296.7	2026.5	2177.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	802.1	1481.2	1667.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	519.9	1121.8	1265.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	277.4	703.2	817.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.6	427.0	492.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	259.3	295.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.8	53.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1841.9	1876.9	1890.2	1869.7	1872.1	1829.8	1823.8	1764.7	1740.6	1745.4
5°	1926.3	1977.0	2004.7	1981.8	1930.0	1849.1	1775.6	1705.6	1662.2	1640.5
7.5°	1907.0	1963.7	1998.7	2020.4	1961.3	1831.1	1718.9	1587.4	1531.9	1533.1
10°	1800.9	1919.1	1990.3	1962.5	1934.8	1804.5	1630.8	1488.5	1439.0	1443.9
12.5°	1715.3	1846.7	1889.0	1910.7	1854.0	1750.2	1633.2	1470.4	1414.9	1381.1
15°	1662.2	1759.9	1762.3	1796.1	1773.2	1773.2	1658.6	1499.3	1451.1	1413.7
17.5°	1662.2	1683.9	1681.5	1693.5	1732.1	1778.0	1722.5	1616.3	1521.1	1515.0
20°	1699.6	1632.0	1616.3	1621.2	1653.7	1790.0	1863.6	1730.9	1670.6	1651.3
22.5°	1786.4	1638.1	1542.8	1525.9	1626.0	1788.8	1954.1	1911.9	1806.9	1791.2
25°	1905.8	1627.2	1523.5	1501.8	1577.7	1832.3	2078.3	2086.8	1991.5	1958.9
27.5°	2019.2	1675.4	1521.1	1516.2	1616.3	1822.6	2164.0	2226.7	2119.3	2092.8
30°	2057.8	1723.7	1565.7	1501.8	1630.8	1857.6	2161.6	2325.6	2255.6	2261.7
32.5°	2103.7	1771.9	1570.5	1545.2	1692.3	1914.3	2230.3	2484.8	2434.2	2363.0
35°	2171.2	1837.1	1616.3	1593.4	1735.8	1964.9	2244.8	2601.8	2593.4	2510.2
37.5°	2229.1	1901.0	1711.6	1715.3	1868.4	2047.0	2308.7	2745.4	2730.9	2674.2
40°	2270.1	1990.3	1860.0	1869.7	1984.2	2138.6	2422.1	2817.7	2925.1	2841.9
42.5°	2276.1	2069.9	2030.1	2107.3	2214.6	2281.0	2467.9	2867.2	3021.6	2967.3
45°	2299.1	2196.5	2307.5	2364.2	2452.3	2406.4	2465.5	2951.6	3028.8	3001.1
47.5°	2388.3	2426.9	2566.9	2739.3	2770.7	2619.9	2523.4	2964.9	3069.8	3066.2
50°	2481.2	2674.2	2870.8	2985.4	3025.2	2767.1	2577.7	2954.0	3124.1	3095.2
52.5°	2584.9	2888.9	3172.4	3313.5	3291.8	2929.9	2639.2	3042.1	3224.2	3214.6
55°	2650.1	2985.4	3366.6	3563.2	3546.3	3112.1	2834.6	3168.8	3355.7	3331.6
57.5°	2822.6	3142.2	3559.6	3651.2	3695.9	3350.9	2970.9	3376.2	3465.5	3492.0
60°	2964.9	3244.7	3610.2	3742.9	3758.6	3493.2	3209.8	3589.7	3605.4	3516.2
62.5°	3173.6	3284.6	3502.9	3622.3	3703.1	3574.0	3424.5	3704.3	3603.0	3597.0
65°	3326.8	3154.3	3302.6	3369.0	3420.9	3451.0	3640.4	3782.7	3558.4	3441.4
67.5°	3241.1	2908.2	2880.5	2884.1	2899.8	3081.9	3568.0	3590.9	3309.9	3213.4
70°	2852.7	2385.9	2348.5	2377.5	2299.1	2518.6	3274.9	3264.0	2920.3	2820.2
72.5°	2307.5	1739.4	1675.4	1715.3	1733.3	1966.1	2755.0	2475.2	2130.2	2051.8
75°	1833.5	1275.0	1076.0	1172.5	1234.0	1431.8	2151.9	1681.5	1487.3	1381.1
77.5°	1440.2	965.0	837.1	798.5	855.2	1041.0	1565.7	883.0	779.2	729.8
80°	913.1	709.3	769.6	714.1	738.2	743.0	815.4	401.7	319.7	316.0
82.5°	550.0	484.9	576.6	317.2	577.8	516.3	338.9	182.1	161.6	161.6
85°	389.6	300.4	199.0	129.1	256.9	283.5	131.5	94.1	82.0	79.6
87.5°	195.4	92.9	44.6	28.9	32.6	53.1	15.7	7.2	7.2	6.0
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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