

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: P677397

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677397
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

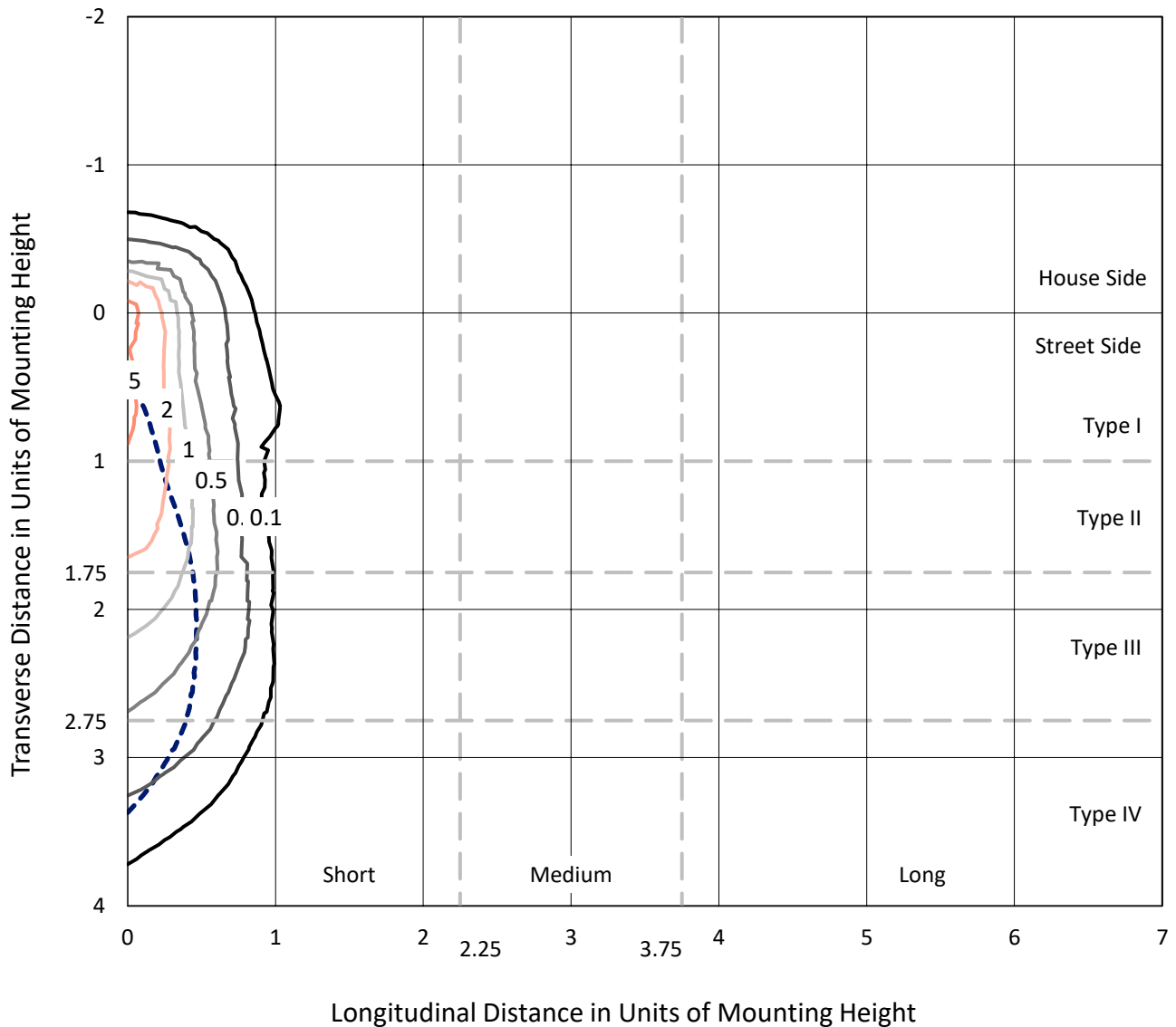
Lumens per Lamp: N/A
Luminaire Lumens: 4109 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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

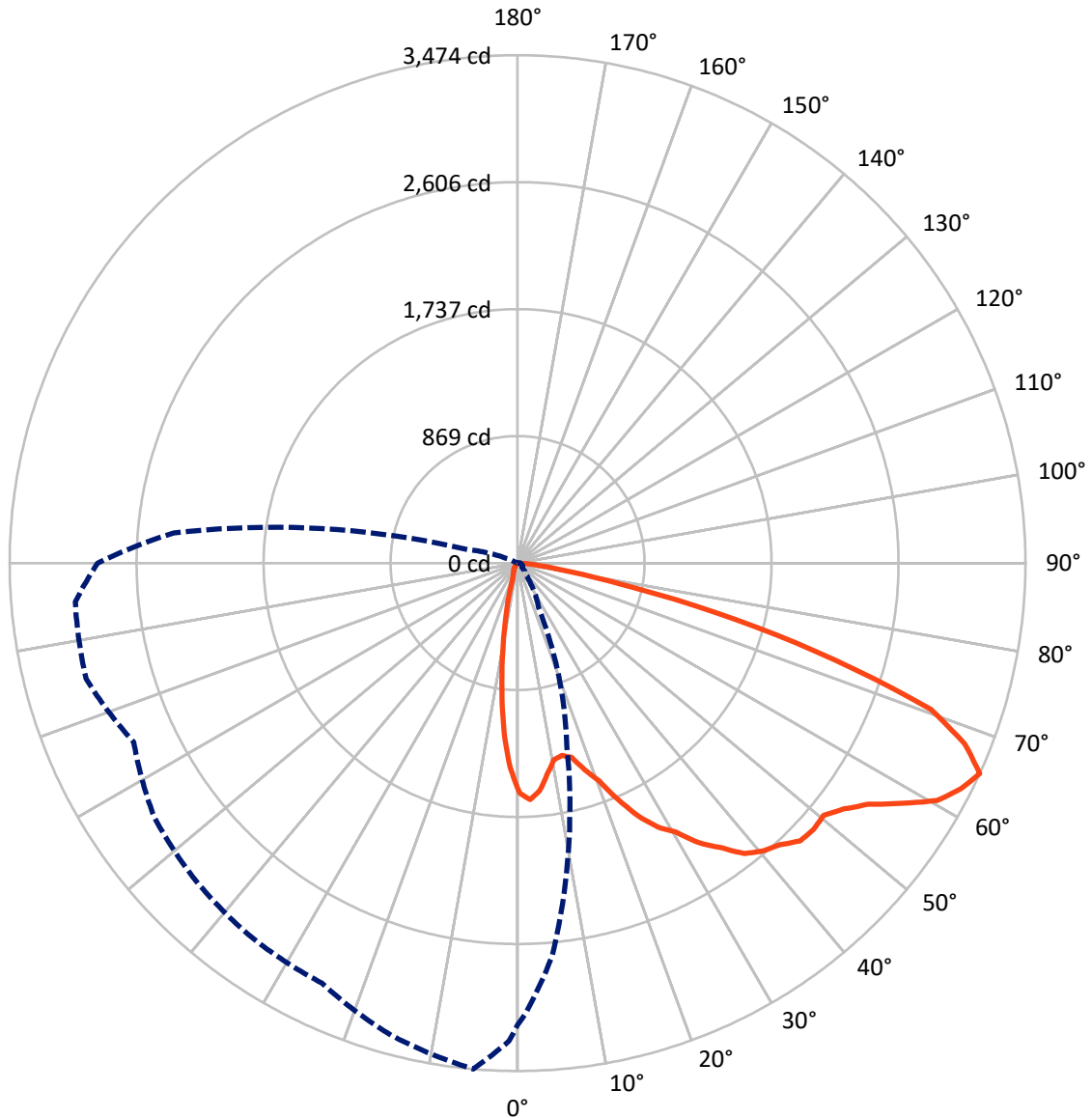
× Max cd
 - - - 1/2 Max cd



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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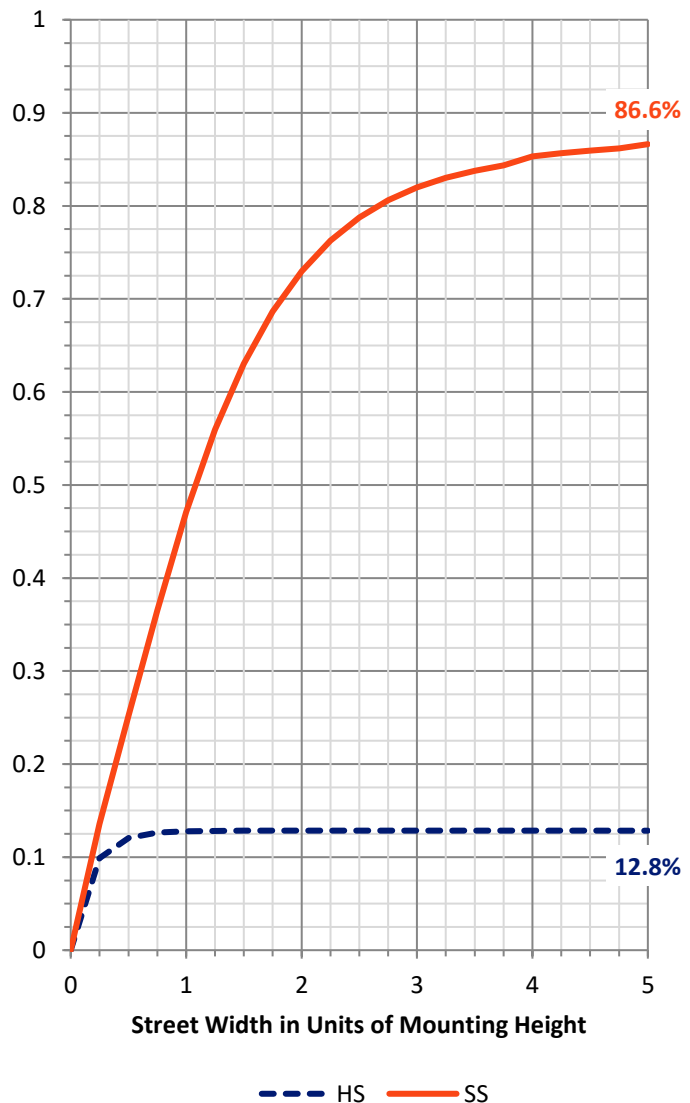
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.5	0.0	533.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3575.5	0.0	3575.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	4109.0	0.0	4109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.9
10°-20°	230.4	5.6
20°-30°	320.9	7.8
30°-40°	456.0	11.1
40°-50°	632.3	15.4
50°-60°	861.6	21.0
60°-70°	947.2	23.1
70°-80°	465.6	11.3
80°-90°	76.0	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°	4109.0	100.0
0°-180°	4109.0	100.0



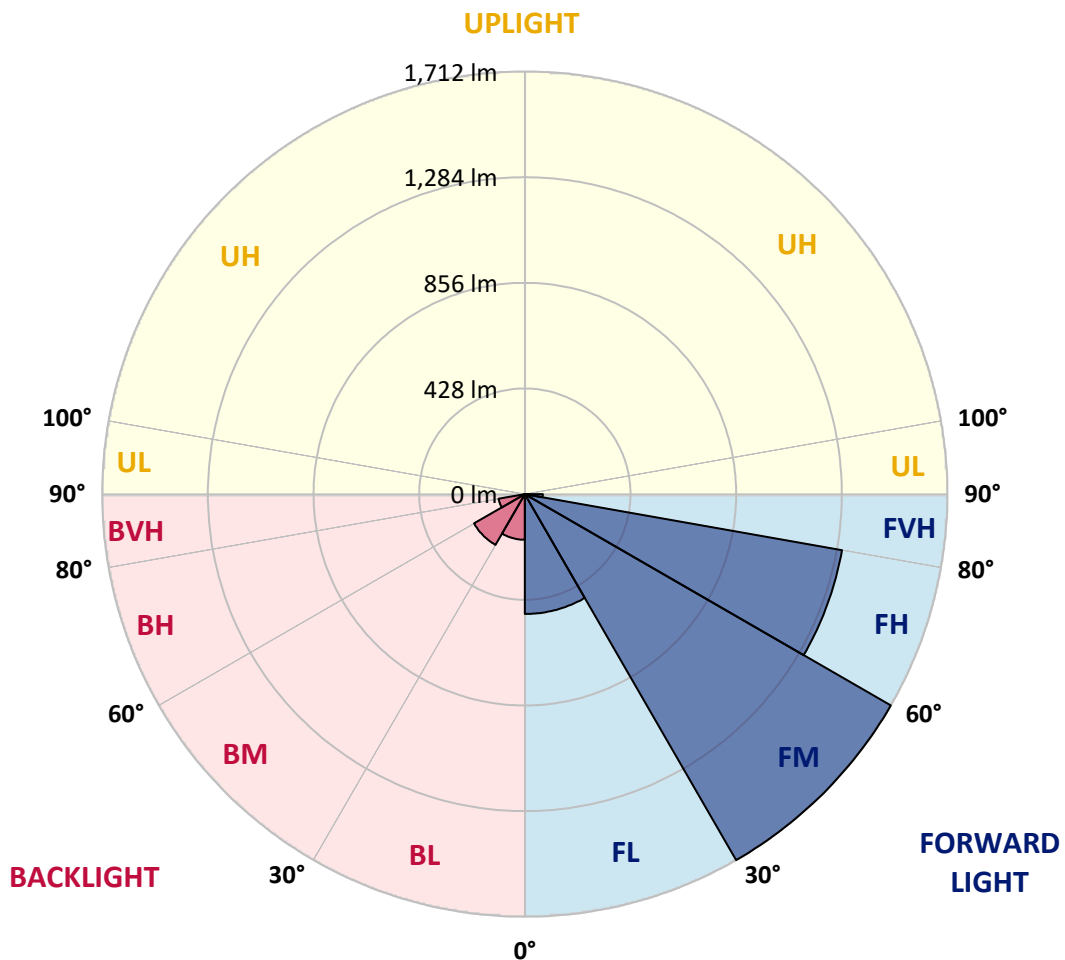
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.6	11.8			
FM (30°-60°)	1712.3	41.7			
FH (60°-80°)	1305.0	31.8			G1/1800
FVH (80°-90°)	72.6	1.8			G1/100
BL (0°-30°)	184.7	4.5	B1/500		
BM (30°-60°)	237.5	5.8	B1/1000		
BH (60°-80°)	107.8	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°	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1603.0	1621.8	1604.1	1542.1	1531.0	1501.1	1455.7	1452.3	1404.7	1410.2	1384.8
5°	1506.6	1525.4	1487.8	1405.8	1329.4	1268.4	1231.9	1166.5	1152.1	1120.0	1120.0
7.5°	1408.0	1406.9	1342.7	1274.0	1159.9	1048.0	997.0	902.9	847.5	817.6	788.8
10°	1326.0	1308.3	1268.4	1126.6	1002.6	886.2	823.1	761.1	703.5	653.6	603.8
12.5°	1268.4	1279.5	1216.4	1062.4	901.8	820.9	753.3	687.9	619.3	562.8	507.4
15°	1298.3	1280.6	1206.4	1048.0	885.1	774.4	684.6	604.9	528.4	454.2	412.1
17.5°	1391.4	1346.0	1258.5	1048.0	850.8	703.5	594.9	500.7	418.8	352.3	300.2
20°	1516.6	1464.5	1370.4	1086.8	825.3	651.4	502.9	384.4	299.1	237.1	197.2
22.5°	1645.1	1604.1	1462.3	1102.3	795.4	581.6	396.6	278.1	199.4	159.5	139.6
25°	1799.1	1741.5	1586.4	1164.3	751.1	514.0	312.4	193.9	148.4	127.4	115.2
27.5°	1922.0	1912.1	1702.7	1202.0	717.9	458.6	247.0	154.0	123.0	107.5	99.7
30°	2077.1	2022.9	1844.5	1277.3	680.2	395.5	206.1	138.5	113.0	96.4	90.8
32.5°	2170.2	2144.7	1918.7	1319.4	638.1	343.4	177.2	121.9	103.0	90.8	85.3
35°	2305.3	2254.4	2025.1	1346.0	615.9	313.5	159.5	110.8	86.4	74.2	67.6
37.5°	2456.0	2437.2	2152.5	1344.9	583.8	295.8	147.3	103.0	82.0	68.7	60.9
40°	2610.0	2533.6	2230.0	1375.9	567.2	282.5	138.5	98.6	77.5	65.4	55.4
42.5°	2725.2	2637.7	2319.7	1364.8	547.3	259.2	135.2	91.9	74.2	59.8	51.0
45°	2756.2	2725.2	2400.6	1361.5	532.9	240.4	129.6	90.8	72.0	56.5	47.6
47.5°	2816.0	2795.0	2500.3	1367.0	521.8	226.0	116.3	93.1	68.7	53.2	45.4
50°	2842.6	2805.0	2581.2	1380.3	496.3	208.3	104.1	97.5	67.6	52.1	43.2
52.5°	2952.3	2919.1	2692.0	1418.0	475.2	185.0	91.9	93.1	69.8	48.7	41.0
55°	3059.8	3022.1	2862.6	1504.4	445.3	166.2	78.7	82.0	66.5	44.3	36.6
57.5°	3207.1	3145.1	2976.7	1539.8	418.8	140.7	69.8	67.6	62.0	39.9	32.1
60°	3229.3	3254.7	2960.1	1517.7	391.1	124.1	60.9	52.1	66.5	35.4	27.7
62.5°	3303.5	3197.1	2882.5	1466.7	371.1	114.1	54.3	43.2	57.6	31.0	23.3
65°	3160.6	3081.9	2700.8	1302.8	345.6	115.2	47.6	35.4	36.6	25.5	18.8
67.5°	2951.2	2889.2	2399.5	1124.4	320.2	113.0	42.1	31.0	27.7	22.2	16.6
70°	2590.0	2456.0	2038.4	912.8	282.5	105.2	35.4	27.7	23.3	17.7	12.2
72.5°	1884.4	1830.1	1462.3	705.7	253.7	95.3	33.2	23.3	19.9	13.3	10.0
75°	1268.4	1178.7	922.8	463.1	203.8	83.1	27.7	21.0	15.5	10.0	7.8
77.5°	670.2	633.7	522.9	220.5	113.0	38.8	15.5	12.2	8.9	7.8	4.4
80°	290.2	258.1	226.0	89.7	39.9	17.7	10.0	6.6	5.5	4.4	2.2
82.5°	148.4	141.8	117.4	38.8	23.3	13.3	5.5	4.4	3.3	2.2	1.1
85°	73.1	75.3	62.0	12.2	13.3	7.8	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°	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1374.8	1390.3	1363.7	1380.3	1372.6	1375.9	1379.2	1370.4	1372.6	1403.6	1404.7
5°	1101.2	1131.1	1120.0	1135.5	1162.1	1148.8	1161.0	1158.8	1161.0	1165.4	1185.4
7.5°	785.4	776.6	797.6	838.6	886.2	915.0	900.6	892.9	888.5	877.4	890.7
10°	592.7	588.2	582.7	594.9	625.9	658.0	675.8	645.9	629.2	608.2	600.4
12.5°	491.9	464.2	448.7	429.8	438.7	467.5	468.6	439.8	413.2	402.1	414.3
15°	387.7	368.9	341.2	314.6	301.3	323.5	304.6	277.0	242.6	238.2	237.1
17.5°	277.0	265.9	245.9	234.9	219.3	213.8	193.9	151.8	127.4	120.8	123.0
20°	188.3	179.5	178.4	168.4	161.7	157.3	125.2	97.5	89.7	90.8	91.9
22.5°	139.6	135.2	129.6	128.5	123.0	117.4	91.9	82.0	76.4	76.4	79.8
25°	114.1	111.9	106.3	104.1	101.9	94.2	77.5	69.8	67.6	65.4	68.7
27.5°	97.5	96.4	93.1	89.7	87.5	79.8	67.6	60.9	58.7	58.7	58.7
30°	87.5	87.5	83.1	76.4	76.4	67.6	57.6	53.2	51.0	51.0	49.9
32.5°	82.0	79.8	74.2	69.8	66.5	57.6	51.0	46.5	43.2	43.2	44.3
35°	66.5	66.5	65.4	62.0	57.6	48.7	43.2	38.8	36.6	35.4	36.6
37.5°	58.7	55.4	51.0	52.1	49.9	42.1	36.6	33.2	29.9	29.9	29.9
40°	53.2	49.9	45.4	42.1	41.0	37.7	32.1	26.6	23.3	22.2	22.2
42.5°	47.6	45.4	38.8	33.2	32.1	32.1	24.4	19.9	16.6	16.6	16.6
45°	44.3	41.0	35.4	28.8	23.3	24.4	19.9	14.4	12.2	11.1	11.1
47.5°	42.1	38.8	31.0	24.4	17.7	17.7	14.4	10.0	7.8	6.6	6.6
50°	38.8	35.4	27.7	19.9	13.3	11.1	8.9	5.5	3.3	2.2	2.2
52.5°	36.6	33.2	24.4	16.6	11.1	7.8	5.5	1.1	0.0	0.0	0.0
55°	33.2	28.8	21.0	13.3	8.9	4.4	1.1	0.0	0.0	0.0	0.0
57.5°	28.8	25.5	16.6	10.0	5.5	1.1	0.0	0.0	0.0	0.0	0.0
60°	24.4	21.0	13.3	7.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.9	17.7	10.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.6	13.3	7.8	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	7.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.8	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°	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1409.1	1442.4	1473.4	1482.2	1506.6	1574.2	1574.2	1606.3	1663.9	1685.0	1689.4
5°	1188.7	1224.1	1230.8	1299.5	1331.6	1400.3	1445.7	1554.3	1619.6	1660.6	1686.1
7.5°	904.0	916.2	941.6	1005.9	1069.0	1152.1	1238.5	1377.0	1492.2	1538.7	1625.2
10°	621.5	658.0	713.4	771.0	869.6	961.6	1073.5	1204.2	1346.0	1403.6	1477.8
12.5°	418.8	469.7	558.3	640.3	731.2	824.2	930.6	1105.6	1266.2	1346.0	1420.2
15°	244.8	306.9	383.3	516.2	637.0	741.1	847.5	1024.7	1219.7	1322.7	1413.6
17.5°	124.1	142.9	206.1	321.3	480.8	651.4	809.8	1035.8	1255.1	1381.4	1456.8
20°	93.1	98.6	116.3	170.6	329.0	538.4	774.4	1052.4	1353.7	1507.7	1548.7
22.5°	80.9	85.3	93.1	110.8	185.0	412.1	724.5	1093.4	1487.8	1632.9	1719.3
25°	68.7	73.1	79.8	90.8	118.5	280.3	663.6	1136.6	1607.4	1790.2	1871.1
27.5°	59.8	63.1	69.8	78.7	96.4	178.4	558.3	1194.2	1790.2	1980.8	2001.8
30°	51.0	54.3	59.8	69.8	82.0	126.3	409.9	1202.0	1891.0	2063.8	2122.6
32.5°	44.3	45.4	52.1	60.9	68.7	99.7	288.0	1209.7	1965.2	2171.3	2183.5
35°	36.6	38.8	45.4	51.0	59.8	78.7	218.2	1170.9	2061.6	2282.1	2278.8
37.5°	29.9	33.2	37.7	42.1	48.7	66.5	173.9	1098.9	2182.4	2453.8	2349.7
40°	23.3	26.6	31.0	36.6	41.0	59.8	130.7	990.4	2308.7	2538.0	2427.2
42.5°	16.6	18.8	23.3	28.8	36.6	49.9	94.2	861.9	2358.5	2636.6	2520.3
45°	12.2	14.4	17.7	24.4	37.7	39.9	65.4	744.4	2411.7	2679.8	2499.2
47.5°	6.6	8.9	13.3	21.0	33.2	29.9	46.5	639.2	2472.6	2718.6	2515.8
50°	2.2	3.3	7.8	22.2	26.6	23.3	36.6	582.7	2532.4	2726.3	2549.1
52.5°	0.0	0.0	4.4	23.3	19.9	17.7	32.1	560.5	2516.9	2750.7	2528.0
55°	0.0	0.0	1.1	10.0	11.1	13.3	26.6	559.4	2626.6	2758.4	2643.2
57.5°	0.0	0.0	0.0	3.3	6.6	11.1	23.3	524.0	2696.4	2951.2	2798.3
60°	0.0	0.0	0.0	1.1	4.4	7.8	17.7	493.0	2767.3	3037.6	2964.5
62.5°	0.0	0.0	0.0	0.0	1.1	3.3	12.2	445.3	2624.4	3031.0	3125.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	352.3	2360.7	2872.5	3036.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	243.7	2067.2	2673.1	2873.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.3	1668.4	2344.1	2437.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	1190.9	1861.1	1999.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	736.7	1360.4	1531.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	477.5	1030.3	1162.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	254.8	645.9	751.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.8	392.2	452.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	238.2	271.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	48.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1691.6	1723.7	1735.9	1717.1	1719.3	1680.5	1675.0	1620.7	1598.6	1603.0
5°	1769.2	1815.7	1841.2	1820.1	1772.5	1698.3	1630.7	1566.4	1526.6	1506.6
7.5°	1751.4	1803.5	1835.6	1855.6	1801.3	1681.6	1578.6	1457.9	1406.9	1408.0
10°	1654.0	1762.5	1827.9	1802.4	1776.9	1657.3	1497.8	1367.0	1321.6	1326.0
12.5°	1575.3	1696.0	1734.8	1754.8	1702.7	1607.4	1500.0	1350.4	1299.5	1268.4
15°	1526.6	1616.3	1618.5	1649.5	1628.5	1628.5	1523.2	1377.0	1332.7	1298.3
17.5°	1526.6	1546.5	1544.3	1555.4	1590.8	1632.9	1581.9	1484.5	1396.9	1391.4
20°	1560.9	1498.9	1484.5	1488.9	1518.8	1644.0	1711.6	1589.7	1534.3	1516.6
22.5°	1640.7	1504.4	1416.9	1401.4	1493.3	1642.9	1794.6	1755.9	1659.5	1645.1
25°	1750.3	1494.4	1399.2	1379.2	1449.0	1682.8	1908.7	1916.5	1829.0	1799.1
27.5°	1854.5	1538.7	1396.9	1392.5	1484.5	1673.9	1987.4	2045.0	1946.4	1922.0
30°	1889.9	1583.1	1437.9	1379.2	1497.8	1706.0	1985.2	2135.8	2071.6	2077.1
32.5°	1932.0	1627.4	1442.4	1419.1	1554.3	1758.1	2048.3	2282.1	2235.6	2170.2
35°	1994.0	1687.2	1484.5	1463.4	1594.1	1804.6	2061.6	2389.5	2381.8	2305.3
37.5°	2047.2	1745.9	1572.0	1575.3	1716.0	1879.9	2120.3	2521.4	2508.1	2456.0
40°	2084.9	1827.9	1708.2	1717.1	1822.3	1964.1	2224.5	2587.8	2686.4	2610.0
42.5°	2090.4	1901.0	1864.4	1935.3	2033.9	2094.9	2266.6	2633.3	2775.1	2725.2
45°	2111.5	2017.3	2119.2	2171.3	2252.2	2210.1	2264.4	2710.8	2781.7	2756.2
47.5°	2193.5	2228.9	2357.4	2515.8	2544.6	2406.2	2317.5	2723.0	2819.4	2816.0
50°	2278.8	2456.0	2636.6	2741.8	2778.4	2541.3	2367.4	2713.0	2869.2	2842.6
52.5°	2374.0	2653.2	2913.5	3043.1	3023.2	2690.9	2423.9	2793.9	2961.2	2952.3
55°	2433.8	2741.8	3091.9	3272.5	3256.9	2858.1	2603.3	2910.2	3081.9	3059.8
57.5°	2592.3	2885.8	3269.1	3353.3	3394.3	3077.5	2728.5	3100.7	3182.7	3207.1
60°	2723.0	2980.0	3315.7	3437.5	3451.9	3208.2	2947.9	3296.8	3311.2	3229.3
62.5°	2914.6	3016.6	3217.1	3326.7	3401.0	3282.4	3145.1	3402.1	3309.0	3303.5
65°	3055.3	2896.9	3033.2	3094.1	3141.7	3169.4	3343.4	3474.1	3268.0	3160.6
67.5°	2976.7	2670.9	2645.4	2648.8	2663.2	2830.4	3276.9	3297.9	3039.8	2951.2
70°	2620.0	2191.2	2156.9	2183.5	2111.5	2313.1	3007.7	2997.7	2682.0	2590.0
72.5°	2119.2	1597.5	1538.7	1575.3	1591.9	1805.7	2530.2	2273.2	1956.4	1884.4
75°	1683.9	1170.9	988.2	1076.8	1133.3	1315.0	1976.3	1544.3	1365.9	1268.4
77.5°	1322.7	886.2	768.8	733.4	785.4	956.0	1437.9	810.9	715.6	670.2
80°	838.6	651.4	706.8	655.8	678.0	682.4	748.9	368.9	293.6	290.2
82.5°	505.2	445.3	529.5	291.4	530.6	474.1	311.3	167.3	148.4	148.4
85°	357.8	275.8	182.8	118.5	236.0	260.3	120.8	86.4	75.3	73.1
87.5°	179.5	85.3	41.0	26.6	29.9	48.7	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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