

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: P677421

Luminaire Tested: **CCW-SA-2A-735-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677421
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-735-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

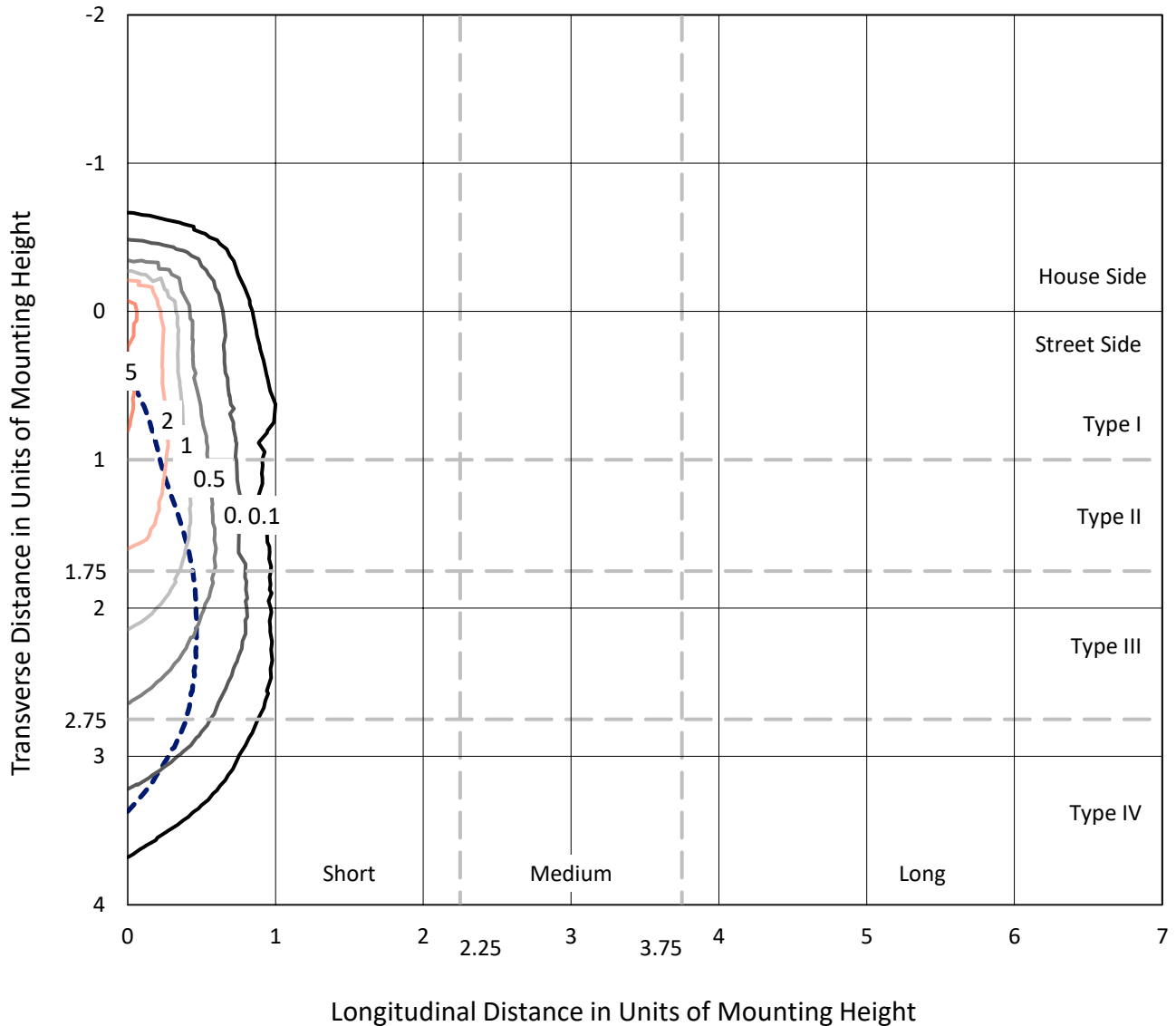
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

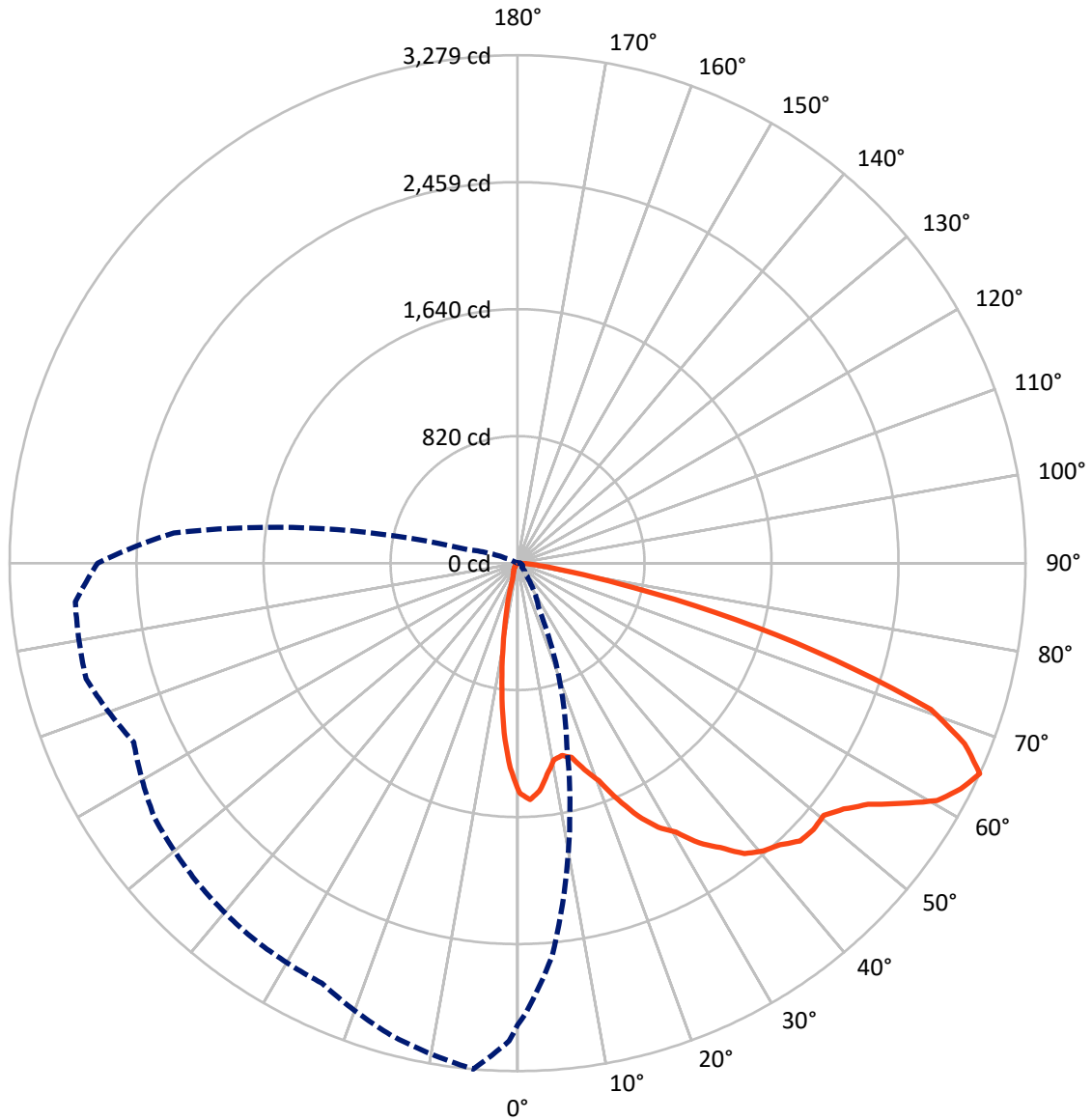
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 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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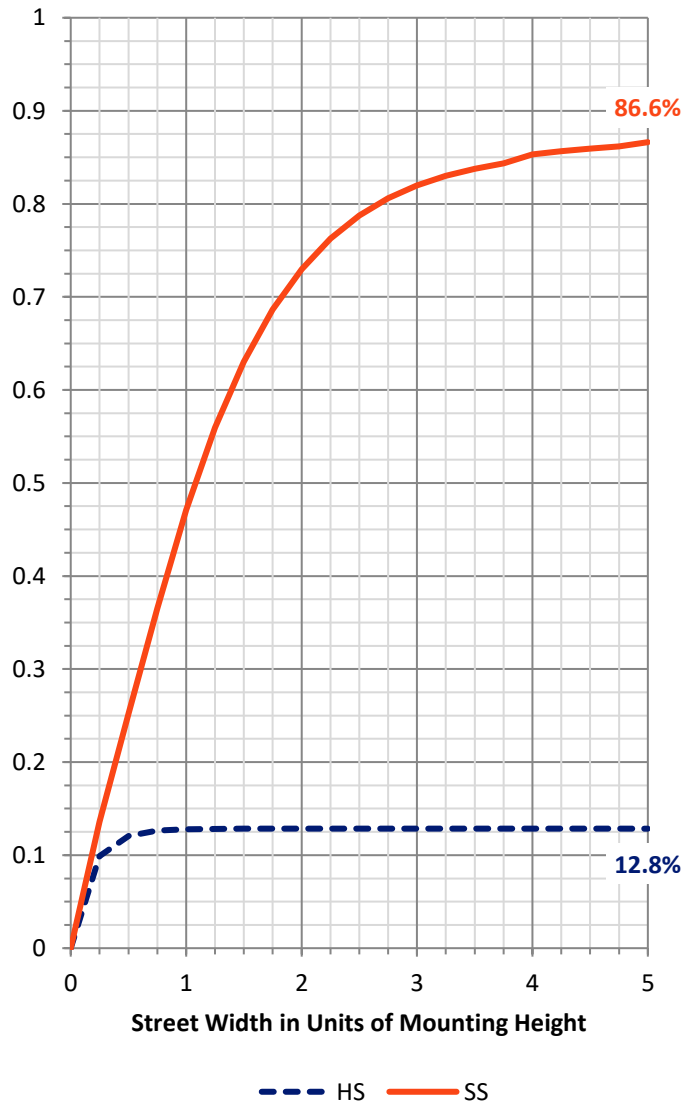
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.5	0.0	503.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3374.7	0.0	3374.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	3878.2	0.0	3878.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	2.9
10°-20°	217.5	5.6
20°-30°	302.9	7.8
30°-40°	430.4	11.1
40°-50°	596.8	15.4
50°-60°	813.2	21.0
60°-70°	894.0	23.1
70°-80°	439.4	11.3
80°-90°	71.8	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°	3878.2	100.0
0°-180°	3878.2	100.0



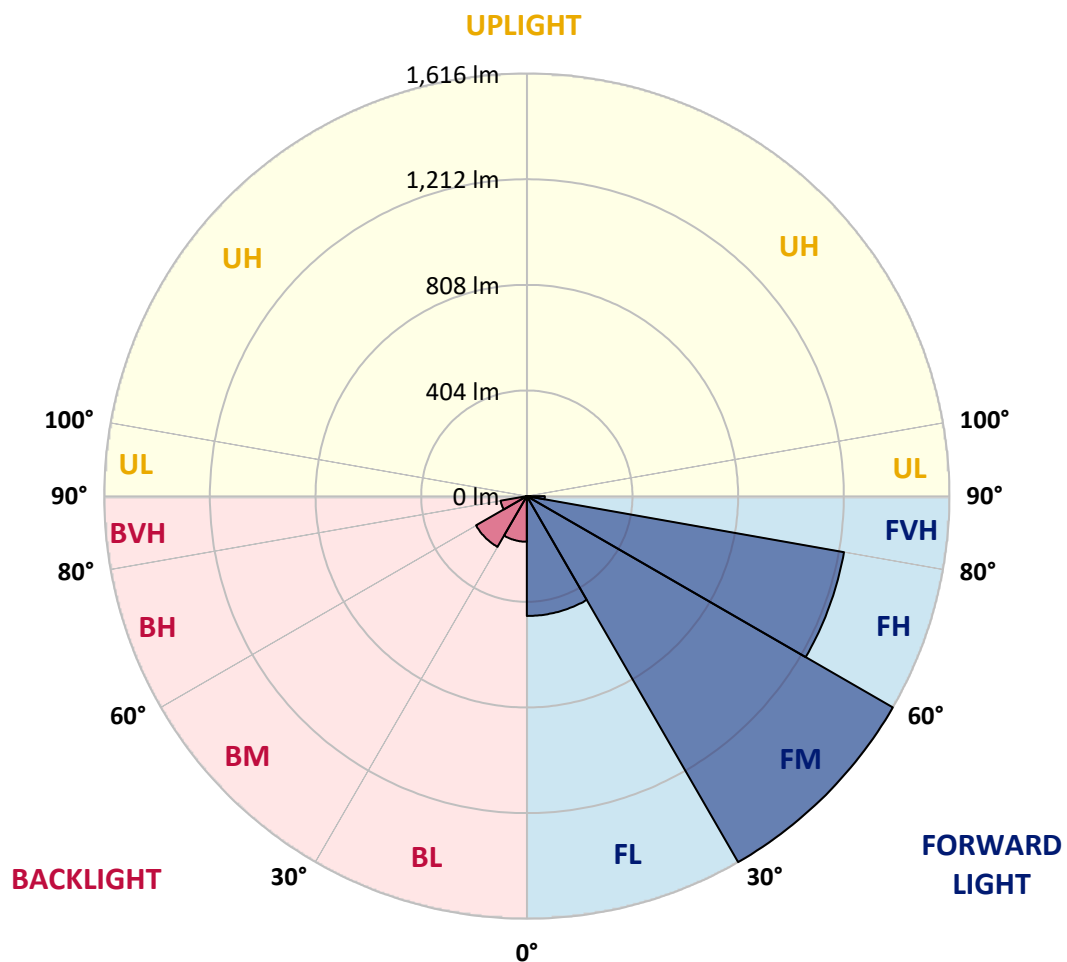
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.3	11.8			
FM (30°-60°)	1616.2	41.7			
FH (60°-80°)	1231.7	31.8			G1/1800
FVH (80°-90°)	68.5	1.8			G1/100
BL (0°-30°)	174.4	4.5	B1/500		
BM (30°-60°)	224.2	5.8	B1/1000		
BH (60°-80°)	101.8	2.6	B0/110		G0/110
BVH (80°-90°)	3.2	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°	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1513.0	1530.7	1514.0	1455.5	1445.0	1416.8	1373.9	1370.8	1325.8	1331.0	1307.0
5°	1422.0	1439.8	1404.2	1326.8	1254.7	1197.2	1162.7	1101.0	1087.4	1057.1	1057.1
7.5°	1328.9	1327.9	1267.2	1202.4	1094.7	989.1	941.0	852.2	799.9	771.6	744.5
10°	1251.6	1234.8	1197.2	1063.4	946.3	836.5	776.9	718.3	663.9	616.9	569.8
12.5°	1197.2	1207.7	1148.1	1002.7	851.1	774.8	711.0	649.3	584.5	531.2	478.9
15°	1225.4	1208.7	1138.6	989.1	835.4	730.9	646.2	570.9	498.7	428.7	389.0
17.5°	1313.3	1270.4	1187.8	989.1	803.0	663.9	561.5	472.6	395.2	332.5	283.4
20°	1431.4	1382.3	1293.4	1025.7	779.0	614.8	474.7	362.8	282.3	223.8	186.1
22.5°	1552.7	1514.0	1380.2	1040.4	750.7	548.9	374.3	262.4	188.2	150.6	131.7
25°	1698.0	1643.7	1497.3	1098.9	708.9	485.2	294.9	183.0	140.1	120.2	108.7
27.5°	1814.1	1804.7	1607.1	1134.5	677.5	432.9	233.2	145.3	116.1	101.4	94.1
30°	1960.5	1909.2	1740.9	1205.6	642.0	373.3	194.5	130.7	106.6	91.0	85.7
32.5°	2048.3	2024.3	1811.0	1245.3	602.3	324.1	167.3	115.0	97.2	85.7	80.5
35°	2175.9	2127.8	1911.3	1270.4	581.3	295.9	150.6	104.6	81.6	70.1	63.8
37.5°	2318.1	2300.3	2031.6	1269.3	551.0	279.2	139.1	97.2	77.4	64.8	57.5
40°	2463.4	2391.3	2104.8	1298.6	535.3	266.6	130.7	93.1	73.2	61.7	52.3
42.5°	2572.1	2489.5	2189.5	1288.2	516.5	244.7	127.6	86.8	70.1	56.5	48.1
45°	2601.4	2572.1	2265.8	1285.0	502.9	226.9	122.3	85.7	68.0	53.3	45.0
47.5°	2657.9	2638.0	2359.9	1290.3	492.5	213.3	109.8	87.8	64.8	50.2	42.9
50°	2683.0	2647.4	2436.2	1302.8	468.4	196.6	98.3	92.0	63.8	49.1	40.8
52.5°	2786.5	2755.1	2540.8	1338.3	448.6	174.6	86.8	87.8	65.9	46.0	38.7
55°	2887.9	2852.4	2701.8	1419.9	420.3	156.8	74.2	77.4	62.7	41.8	34.5
57.5°	3027.0	2968.4	2809.5	1453.4	395.2	132.8	65.9	63.8	58.6	37.6	30.3
60°	3047.9	3071.9	2793.8	1432.5	369.1	117.1	57.5	49.1	62.7	33.5	26.1
62.5°	3117.9	3017.6	2720.6	1384.4	350.3	107.7	51.2	40.8	54.4	29.3	22.0
65°	2983.1	2908.8	2549.1	1229.6	326.2	108.7	45.0	33.5	34.5	24.0	17.8
67.5°	2785.4	2726.9	2264.7	1061.3	302.2	106.6	39.7	29.3	26.1	20.9	15.7
70°	2444.6	2318.1	1923.9	861.6	266.6	99.3	33.5	26.1	22.0	16.7	11.5
72.5°	1778.5	1727.3	1380.2	666.0	239.4	89.9	31.4	22.0	18.8	12.5	9.4
75°	1197.2	1112.5	871.0	437.1	192.4	78.4	26.1	19.9	14.6	9.4	7.3
77.5°	632.6	598.1	493.5	208.1	106.6	36.6	14.6	11.5	8.4	7.3	4.2
80°	273.9	243.6	213.3	84.7	37.6	16.7	9.4	6.3	5.2	4.2	2.1
82.5°	140.1	133.8	110.8	36.6	22.0	12.5	5.2	4.2	3.1	2.1	1.0
85°	69.0	71.1	58.6	11.5	12.5	7.3	1.0	1.0	0.0	0.0	0.0
87.5°	5.2	5.2	4.2	2.1	3.1	1.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1297.6	1312.2	1287.1	1302.8	1295.5	1298.6	1301.8	1293.4	1295.5	1324.8	1325.8
5°	1039.3	1067.5	1057.1	1071.7	1096.8	1084.3	1095.8	1093.7	1095.8	1100.0	1118.8
7.5°	741.3	733.0	752.8	791.5	836.5	863.7	850.1	842.7	838.6	828.1	840.7
10°	559.4	555.2	550.0	561.5	590.8	621.1	637.8	609.6	593.9	574.0	566.7
12.5°	464.2	438.1	423.5	405.7	414.1	441.2	442.3	415.1	390.0	379.5	391.0
15°	366.0	348.2	322.0	296.9	284.4	305.3	287.5	261.4	229.0	224.8	223.8
17.5°	261.4	250.9	232.1	221.7	207.0	201.8	183.0	143.2	120.2	114.0	116.1
20°	177.7	169.4	168.3	158.9	152.7	148.5	118.2	92.0	84.7	85.7	86.8
22.5°	131.7	127.6	122.3	121.3	116.1	110.8	86.8	77.4	72.1	72.1	75.3
25°	107.7	105.6	100.4	98.3	96.2	88.9	73.2	65.9	63.8	61.7	64.8
27.5°	92.0	91.0	87.8	84.7	82.6	75.3	63.8	57.5	55.4	55.4	55.4
30°	82.6	82.6	78.4	72.1	72.1	63.8	54.4	50.2	48.1	48.1	47.1
32.5°	77.4	75.3	70.1	65.9	62.7	54.4	48.1	43.9	40.8	40.8	41.8
35°	62.7	62.7	61.7	58.6	54.4	46.0	40.8	36.6	34.5	33.5	34.5
37.5°	55.4	52.3	48.1	49.1	47.1	39.7	34.5	31.4	28.2	28.2	28.2
40°	50.2	47.1	42.9	39.7	38.7	35.5	30.3	25.1	22.0	20.9	20.9
42.5°	45.0	42.9	36.6	31.4	30.3	30.3	23.0	18.8	15.7	15.7	15.7
45°	41.8	38.7	33.5	27.2	22.0	23.0	18.8	13.6	11.5	10.5	10.5
47.5°	39.7	36.6	29.3	23.0	16.7	16.7	13.6	9.4	7.3	6.3	6.3
50°	36.6	33.5	26.1	18.8	12.5	10.5	8.4	5.2	3.1	2.1	2.1
52.5°	34.5	31.4	23.0	15.7	10.5	7.3	5.2	1.0	0.0	0.0	0.0
55°	31.4	27.2	19.9	12.5	8.4	4.2	1.0	0.0	0.0	0.0	0.0
57.5°	27.2	24.0	15.7	9.4	5.2	1.0	0.0	0.0	0.0	0.0	0.0
60°	23.0	19.9	12.5	7.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18.8	16.7	9.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15.7	12.5	7.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.6	10.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.5	7.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.3	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	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°	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1330.0	1361.4	1390.6	1399.0	1422.0	1485.8	1485.8	1516.1	1570.5	1590.3	1594.5
5°	1121.9	1155.4	1161.6	1226.5	1256.8	1321.6	1364.5	1467.0	1528.6	1567.3	1591.4
7.5°	853.2	864.7	888.7	949.4	1009.0	1087.4	1169.0	1299.7	1408.4	1452.3	1533.9
10°	586.6	621.1	673.4	727.7	820.8	907.6	1013.2	1136.6	1270.4	1324.8	1394.8
12.5°	395.2	443.3	527.0	604.3	690.1	777.9	878.3	1043.5	1195.1	1270.4	1340.4
15°	231.1	289.6	361.8	487.2	601.2	699.5	799.9	967.2	1151.2	1248.4	1334.2
17.5°	117.1	134.9	194.5	303.2	453.8	614.8	764.3	977.6	1184.6	1303.8	1374.9
20°	87.8	93.1	109.8	161.0	310.5	508.2	730.9	993.3	1277.7	1423.0	1461.7
22.5°	76.3	80.5	87.8	104.6	174.6	389.0	683.8	1032.0	1404.2	1541.2	1622.7
25°	64.8	69.0	75.3	85.7	111.9	264.5	626.3	1072.8	1517.1	1689.7	1766.0
27.5°	56.5	59.6	65.9	74.2	91.0	168.3	527.0	1127.1	1689.7	1869.5	1889.4
30°	48.1	51.2	56.5	65.9	77.4	119.2	386.9	1134.5	1784.8	1947.9	2003.3
32.5°	41.8	42.9	49.1	57.5	64.8	94.1	271.9	1141.8	1854.9	2049.3	2060.8
35°	34.5	36.6	42.9	48.1	56.5	74.2	206.0	1105.2	1945.8	2153.9	2150.8
37.5°	28.2	31.4	35.5	39.7	46.0	62.7	164.2	1037.2	2059.8	2316.0	2217.7
40°	22.0	25.1	29.3	34.5	38.7	56.5	123.4	934.8	2179.0	2395.4	2290.9
42.5°	15.7	17.8	22.0	27.2	34.5	47.1	88.9	813.5	2226.1	2488.5	2378.7
45°	11.5	13.6	16.7	23.0	35.5	37.6	61.7	702.6	2276.2	2529.3	2358.8
47.5°	6.3	8.4	12.5	19.9	31.4	28.2	43.9	603.3	2333.7	2565.9	2374.5
50°	2.1	3.1	7.3	20.9	25.1	22.0	34.5	550.0	2390.2	2573.2	2405.9
52.5°	0.0	0.0	4.2	22.0	18.8	16.7	30.3	529.1	2375.6	2596.2	2386.0
55°	0.0	0.0	1.0	9.4	10.5	12.5	25.1	528.0	2479.1	2603.5	2494.8
57.5°	0.0	0.0	0.0	3.1	6.3	10.5	22.0	494.6	2545.0	2785.4	2641.1
60°	0.0	0.0	0.0	1.0	4.2	7.3	16.7	465.3	2611.9	2867.0	2798.0
62.5°	0.0	0.0	0.0	0.0	1.0	3.1	11.5	420.3	2477.0	2860.7	2949.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	332.5	2228.1	2711.2	2865.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	230.0	1951.1	2523.0	2712.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.1	1574.7	2212.5	2300.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.6	1124.0	1756.6	1887.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	695.3	1284.0	1445.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	450.6	972.4	1096.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	240.5	609.6	708.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.6	370.1	426.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	224.8	256.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	46.0
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°	359°	360°
0°	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1596.6	1626.9	1638.4	1620.7	1622.7	1586.2	1580.9	1529.7	1508.8	1513.0
5°	1669.8	1713.7	1737.8	1717.9	1672.9	1602.9	1539.1	1478.5	1440.8	1422.0
7.5°	1653.1	1702.2	1732.5	1751.4	1700.1	1587.2	1490.0	1376.0	1327.9	1328.9
10°	1561.1	1663.5	1725.2	1701.2	1677.1	1564.2	1413.6	1290.3	1247.4	1251.6
12.5°	1486.8	1600.8	1637.4	1656.2	1607.1	1517.1	1415.7	1274.6	1226.5	1197.2
15°	1440.8	1525.5	1527.6	1556.9	1537.0	1537.0	1437.7	1299.7	1257.8	1225.4
17.5°	1440.8	1459.6	1457.5	1468.0	1501.5	1541.2	1493.1	1401.1	1318.5	1313.3
20°	1473.2	1414.7	1401.1	1405.3	1433.5	1551.6	1615.4	1500.4	1448.1	1431.4
22.5°	1548.5	1419.9	1337.3	1322.7	1409.4	1550.6	1693.8	1657.3	1566.3	1552.7
25°	1652.0	1410.5	1320.6	1301.8	1367.6	1588.2	1801.5	1808.9	1726.3	1698.0
27.5°	1750.3	1452.3	1318.5	1314.3	1401.1	1579.9	1875.8	1930.2	1837.1	1814.1
30°	1783.8	1494.1	1357.2	1301.8	1413.6	1610.2	1873.7	2015.9	1955.2	1960.5
32.5°	1823.5	1536.0	1361.4	1339.4	1467.0	1659.3	1933.3	2153.9	2110.0	2048.3
35°	1882.1	1592.4	1401.1	1381.2	1504.6	1703.3	1945.8	2255.3	2248.0	2175.9
37.5°	1932.2	1647.8	1483.7	1486.8	1619.6	1774.4	2001.3	2379.8	2367.2	2318.1
40°	1967.8	1725.2	1612.3	1620.7	1720.0	1853.8	2099.5	2442.5	2535.5	2463.4
42.5°	1973.0	1794.2	1759.7	1826.6	1919.7	1977.2	2139.3	2485.4	2619.2	2572.1
45°	1992.9	1904.0	2000.2	2049.3	2125.7	2085.9	2137.2	2558.5	2625.5	2601.4
47.5°	2070.3	2103.7	2225.0	2374.5	2401.7	2271.0	2187.4	2570.0	2661.0	2657.9
50°	2150.8	2318.1	2488.5	2587.8	2622.3	2398.6	2234.4	2560.6	2708.1	2683.0
52.5°	2240.7	2504.2	2749.9	2872.2	2853.4	2539.7	2287.7	2637.0	2794.8	2786.5
55°	2297.2	2587.8	2918.2	3088.7	3074.0	2697.6	2457.1	2746.8	2908.8	2887.9
57.5°	2446.7	2723.7	3085.5	3165.0	3203.7	2904.6	2575.3	2926.6	3004.0	3027.0
60°	2570.0	2812.6	3129.4	3244.5	3258.0	3028.0	2782.3	3111.7	3125.3	3047.9
62.5°	2750.9	2847.1	3036.4	3139.9	3209.9	3098.1	2968.4	3211.0	3123.2	3117.9
65°	2883.7	2734.2	2862.8	2920.3	2965.3	2991.4	3155.6	3279.0	3084.5	2983.1
67.5°	2809.5	2520.9	2496.9	2500.0	2513.6	2671.5	3092.8	3112.7	2869.1	2785.4
70°	2472.8	2068.2	2035.8	2060.8	1992.9	2183.2	2838.8	2829.4	2531.4	2444.6
72.5°	2000.2	1507.7	1452.3	1486.8	1502.5	1704.3	2388.1	2145.5	1846.5	1778.5
75°	1589.3	1105.2	932.7	1016.3	1069.6	1241.1	1865.3	1457.5	1289.2	1197.2
77.5°	1248.4	836.5	725.6	692.2	741.3	902.3	1357.2	765.4	675.4	632.6
80°	791.5	614.8	667.1	619.0	639.9	644.1	706.8	348.2	277.1	273.9
82.5°	476.8	420.3	499.8	275.0	500.8	447.5	293.8	157.9	140.1	140.1
85°	337.7	260.4	172.5	111.9	222.7	245.7	114.0	81.6	71.1	69.0
87.5°	169.4	80.5	38.7	25.1	28.2	46.0	13.6	6.3	6.3	5.2
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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