

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: P677484

Luminaire Tested: **CCW-SA-1D-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677484
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

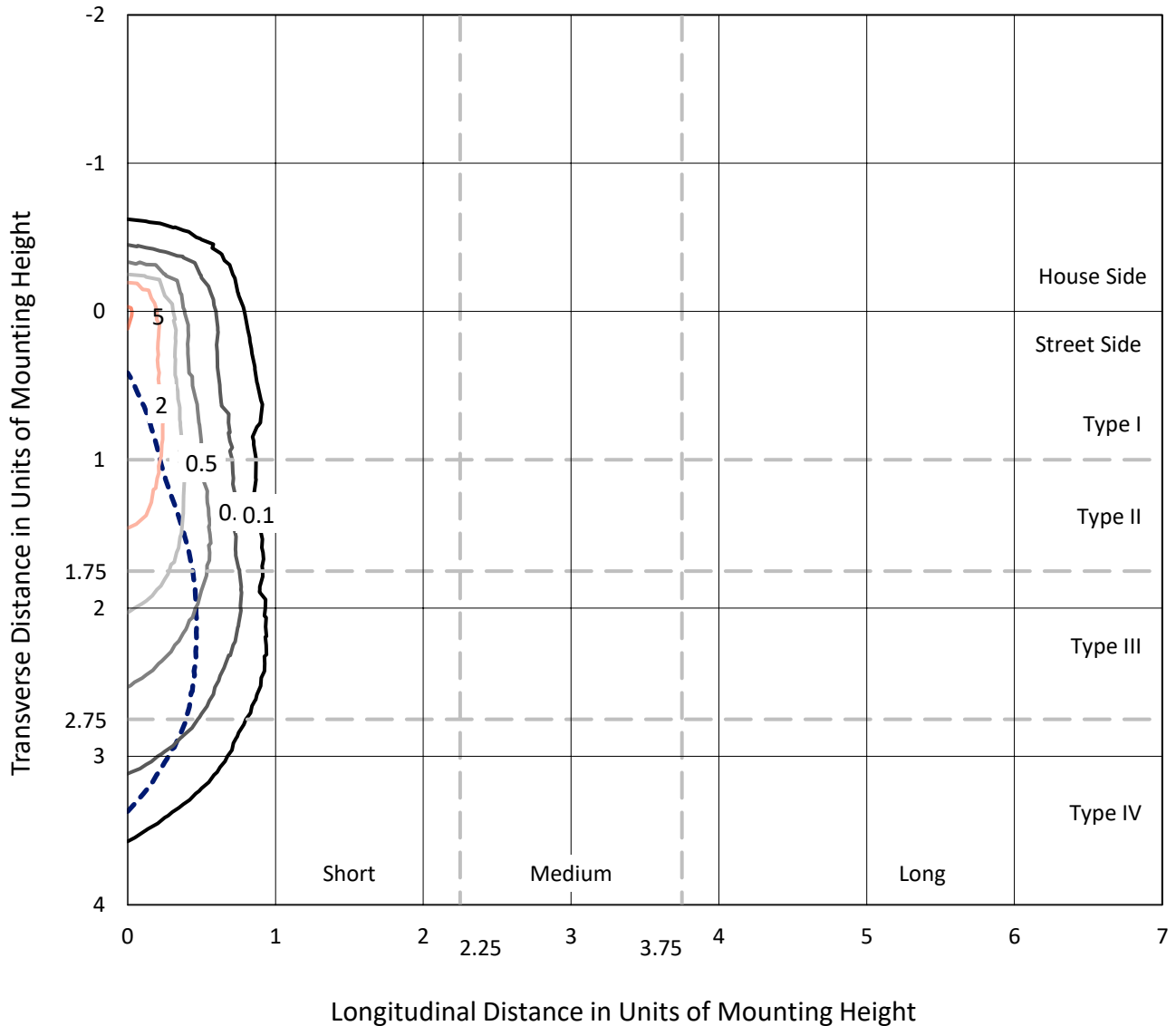
Lumens per Lamp: N/A
Luminaire Lumens: 3302.4 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (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

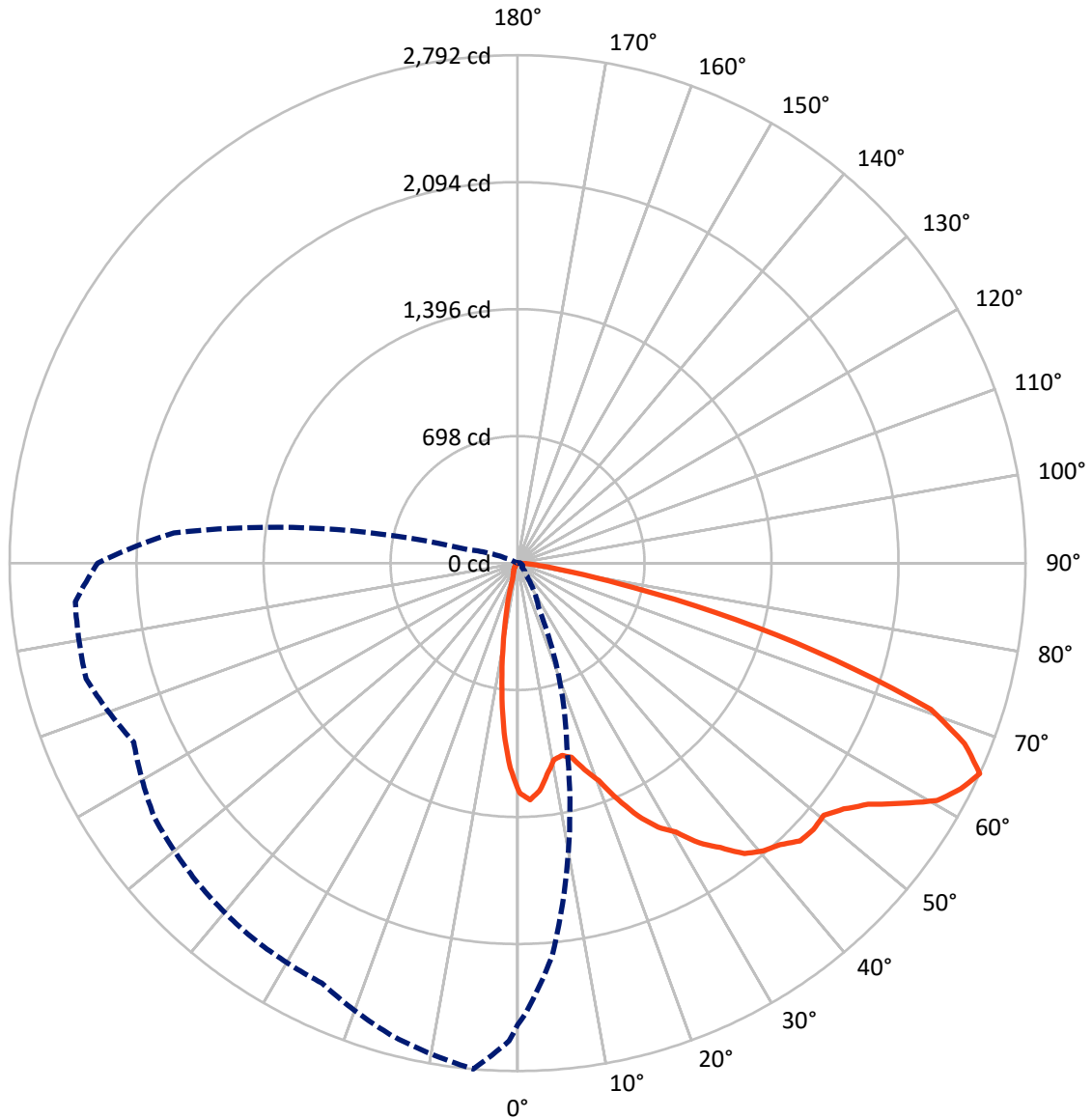
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 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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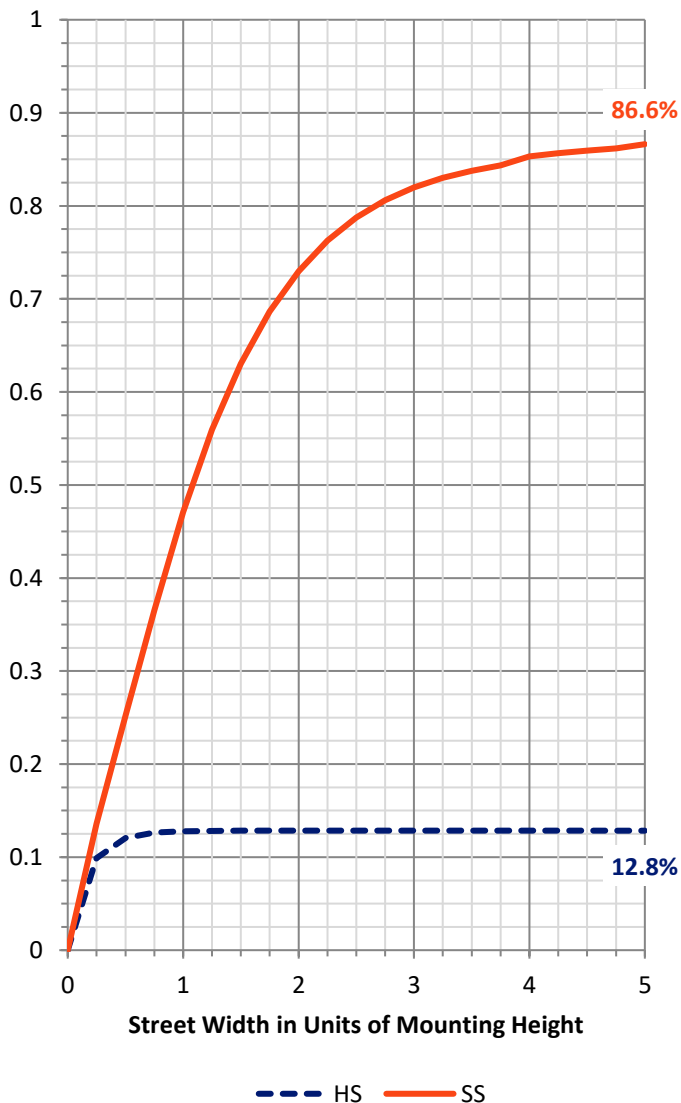
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.8	0.0	428.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2873.6	0.0	2873.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	3302.4	0.0	3302.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	2.9
10°-20°	185.2	5.6
20°-30°	257.9	7.8
30°-40°	366.5	11.1
40°-50°	508.2	15.4
50°-60°	692.4	21.0
60°-70°	761.3	23.1
70°-80°	374.2	11.3
80°-90°	61.1	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°	3302.4	100.0
0°-180°	3302.4	100.0



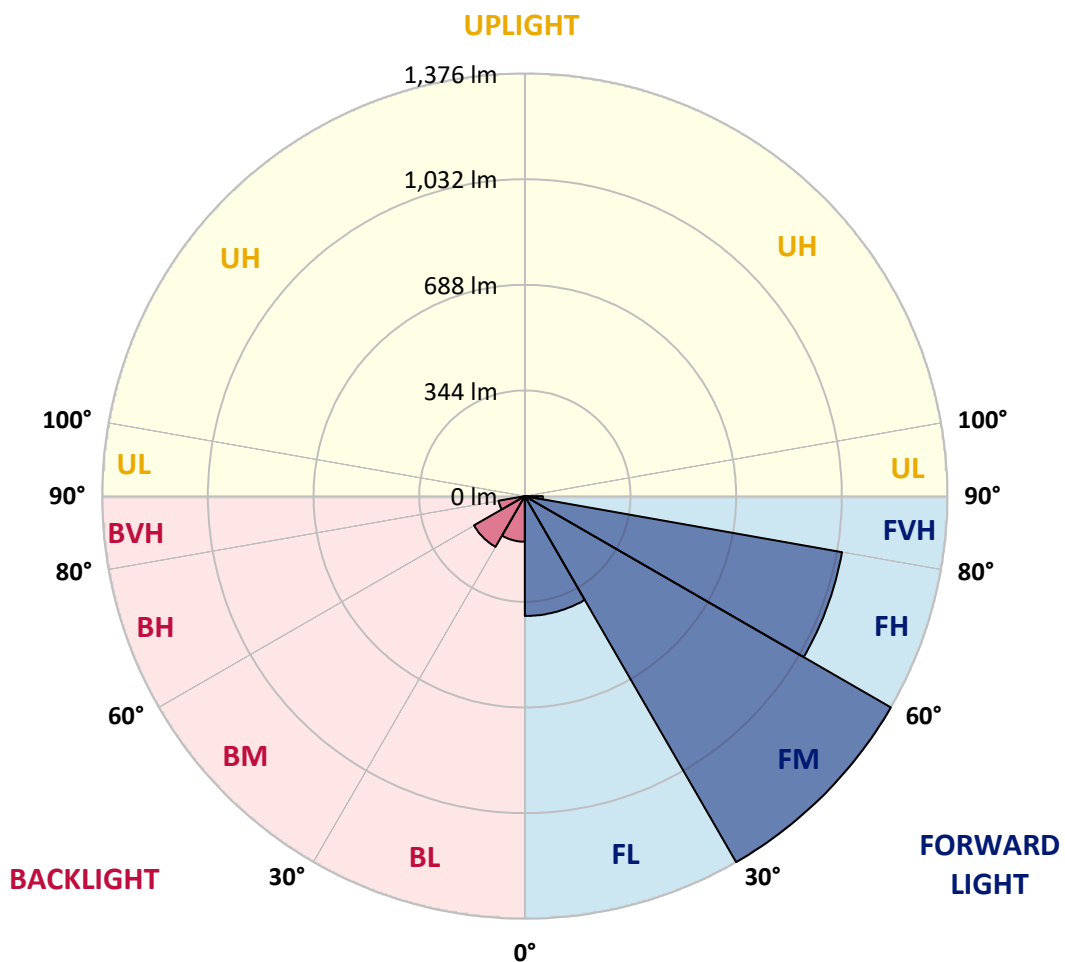
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.3	11.8			
FM (30°-60°)	1376.2	41.7			
FH (60°-80°)	1048.8	31.8			G1/1800
FVH (80°-90°)	58.3	1.8			G1/100
BL (0°-30°)	148.5	4.5	B1/500		
BM (30°-60°)	190.9	5.8	B0/220		
BH (60°-80°)	86.7	2.6	B0/110		G0/110
BVH (80°-90°)	2.8	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°	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1288.3	1303.4	1289.2	1239.3	1230.4	1206.4	1169.9	1167.2	1128.9	1133.4	1112.9
5°	1210.9	1226.0	1195.7	1129.8	1068.4	1019.4	990.1	937.5	925.9	900.1	900.1
7.5°	1131.6	1130.7	1079.1	1023.9	932.2	842.3	801.3	725.6	681.1	657.1	633.9
10°	1065.7	1051.5	1019.4	905.5	805.8	712.3	661.5	611.7	565.4	525.3	485.2
12.5°	1019.4	1028.3	977.6	853.8	724.7	659.7	605.4	552.9	497.7	452.3	407.8
15°	1043.5	1029.2	969.6	842.3	711.4	622.3	550.2	486.1	424.7	365.0	331.2
17.5°	1118.3	1081.8	1011.4	842.3	683.8	565.4	478.1	402.4	336.5	283.1	241.3
20°	1218.9	1177.0	1101.3	873.4	663.3	523.5	404.2	308.9	240.4	190.5	158.5
22.5°	1322.1	1289.2	1175.2	885.9	639.3	467.4	318.7	223.5	160.3	128.2	112.2
25°	1445.9	1399.6	1275.0	935.7	603.6	413.1	251.1	155.8	119.3	102.4	92.6
27.5°	1544.7	1536.7	1368.4	966.0	576.9	368.6	198.5	123.8	98.8	86.4	80.1
30°	1669.4	1625.8	1482.4	1026.6	546.7	317.8	165.6	111.3	90.8	77.5	73.0
32.5°	1744.2	1723.7	1542.1	1060.4	512.8	276.0	142.5	97.9	82.8	73.0	68.6
35°	1852.8	1811.8	1627.5	1081.8	495.0	252.0	128.2	89.0	69.4	59.7	54.3
37.5°	1973.9	1958.7	1729.9	1080.9	469.2	237.7	118.4	82.8	65.9	55.2	49.0
40°	2097.6	2036.2	1792.2	1105.8	455.9	227.0	111.3	79.2	62.3	52.5	44.5
42.5°	2190.2	2119.9	1864.4	1096.9	439.8	208.3	108.6	73.9	59.7	48.1	41.0
45°	2215.2	2190.2	1929.4	1094.2	428.3	193.2	104.2	73.0	57.9	45.4	38.3
47.5°	2263.2	2246.3	2009.5	1098.7	419.3	181.6	93.5	74.8	55.2	42.7	36.5
50°	2284.6	2254.3	2074.5	1109.4	398.9	167.4	83.7	78.3	54.3	41.8	34.7
52.5°	2372.7	2346.0	2163.5	1139.6	382.0	148.7	73.9	74.8	56.1	39.2	32.9
55°	2459.1	2428.8	2300.6	1209.1	357.9	133.6	63.2	65.9	53.4	35.6	29.4
57.5°	2577.5	2527.7	2392.3	1237.6	336.5	113.1	56.1	54.3	49.9	32.1	25.8
60°	2595.3	2615.8	2379.0	1219.8	314.3	99.7	49.0	41.8	53.4	28.5	22.3
62.5°	2655.0	2569.5	2316.7	1178.8	298.3	91.7	43.6	34.7	46.3	24.9	18.7
65°	2540.1	2476.9	2170.6	1047.0	277.8	92.6	38.3	28.5	29.4	20.5	15.1
67.5°	2371.9	2322.0	1928.5	903.7	257.3	90.8	33.8	24.9	22.3	17.8	13.4
70°	2081.6	1973.9	1638.2	733.6	227.0	84.6	28.5	22.3	18.7	14.2	9.8
72.5°	1514.5	1470.8	1175.2	567.1	203.9	76.6	26.7	18.7	16.0	10.7	8.0
75°	1019.4	947.3	741.6	372.2	163.8	66.8	22.3	16.9	12.5	8.0	6.2
77.5°	538.7	509.3	420.2	177.2	90.8	31.2	12.5	9.8	7.1	6.2	3.6
80°	233.3	207.4	181.6	72.1	32.1	14.2	8.0	5.3	4.5	3.6	1.8
82.5°	119.3	114.0	94.4	31.2	18.7	10.7	4.5	3.6	2.7	1.8	0.9
85°	58.8	60.5	49.9	9.8	10.7	6.2	0.9	0.9	0.0	0.0	0.0
87.5°	4.5	4.5	3.6	1.8	2.7	0.9	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°	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1104.9	1117.4	1096.0	1109.4	1103.1	1105.8	1108.5	1101.3	1103.1	1128.1	1128.9
5°	885.0	909.0	900.1	912.6	934.0	923.3	933.1	931.3	933.1	936.6	952.7
7.5°	631.2	624.1	641.0	674.0	712.3	735.4	723.8	717.6	714.0	705.1	715.8
10°	476.3	472.8	468.3	478.1	503.0	528.9	543.1	519.1	505.7	488.8	482.6
12.5°	395.3	373.1	360.6	345.4	352.6	375.7	376.6	353.5	332.1	323.2	333.0
15°	311.6	296.5	274.2	252.9	242.2	260.0	244.8	222.6	195.0	191.4	190.5
17.5°	222.6	213.7	197.7	188.8	176.3	171.8	155.8	122.0	102.4	97.0	98.8
20°	151.4	144.2	143.3	135.3	130.0	126.4	100.6	78.3	72.1	73.0	73.9
22.5°	112.2	108.6	104.2	103.3	98.8	94.4	73.9	65.9	61.4	61.4	64.1
25°	91.7	89.9	85.5	83.7	81.9	75.7	62.3	56.1	54.3	52.5	55.2
27.5°	78.3	77.5	74.8	72.1	70.3	64.1	54.3	49.0	47.2	47.2	47.2
30°	70.3	70.3	66.8	61.4	61.4	54.3	46.3	42.7	41.0	41.0	40.1
32.5°	65.9	64.1	59.7	56.1	53.4	46.3	41.0	37.4	34.7	34.7	35.6
35°	53.4	53.4	52.5	49.9	46.3	39.2	34.7	31.2	29.4	28.5	29.4
37.5°	47.2	44.5	41.0	41.8	40.1	33.8	29.4	26.7	24.0	24.0	24.0
40°	42.7	40.1	36.5	33.8	32.9	30.3	25.8	21.4	18.7	17.8	17.8
42.5°	38.3	36.5	31.2	26.7	25.8	25.8	19.6	16.0	13.4	13.4	13.4
45°	35.6	32.9	28.5	23.1	18.7	19.6	16.0	11.6	9.8	8.9	8.9
47.5°	33.8	31.2	24.9	19.6	14.2	14.2	11.6	8.0	6.2	5.3	5.3
50°	31.2	28.5	22.3	16.0	10.7	8.9	7.1	4.5	2.7	1.8	1.8
52.5°	29.4	26.7	19.6	13.4	8.9	6.2	4.5	0.9	0.0	0.0	0.0
55°	26.7	23.1	16.9	10.7	7.1	3.6	0.9	0.0	0.0	0.0	0.0
57.5°	23.1	20.5	13.4	8.0	4.5	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.6	16.9	10.7	6.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16.0	14.2	8.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.4	10.7	6.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.6	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.9	6.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.2	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.9	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°	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1132.5	1159.2	1184.1	1191.3	1210.9	1265.2	1265.2	1291.0	1337.3	1354.2	1357.8
5°	955.3	983.8	989.2	1044.4	1070.2	1125.4	1161.9	1249.1	1301.7	1334.6	1355.1
7.5°	726.5	736.3	756.8	808.4	859.2	925.9	995.4	1106.7	1199.3	1236.7	1306.1
10°	499.5	528.9	573.4	619.7	698.9	772.8	862.7	967.8	1081.8	1128.1	1187.7
12.5°	336.5	377.5	448.7	514.6	587.6	662.4	747.9	888.6	1017.7	1081.8	1141.4
15°	196.8	246.6	308.1	414.9	511.9	595.6	681.1	823.6	980.3	1063.1	1136.1
17.5°	99.7	114.9	165.6	258.2	386.4	523.5	650.8	832.5	1008.7	1110.2	1170.8
20°	74.8	79.2	93.5	137.1	264.4	432.7	622.3	845.8	1088.0	1211.7	1244.7
22.5°	65.0	68.6	74.8	89.0	148.7	331.2	582.3	878.8	1195.7	1312.4	1381.8
25°	55.2	58.8	64.1	73.0	95.3	225.3	533.3	913.5	1291.9	1438.8	1503.8
27.5°	48.1	50.7	56.1	63.2	77.5	143.3	448.7	959.8	1438.8	1591.9	1608.8
30°	41.0	43.6	48.1	56.1	65.9	101.5	329.4	966.0	1519.8	1658.7	1705.9
32.5°	35.6	36.5	41.8	49.0	55.2	80.1	231.5	972.2	1579.5	1745.1	1754.8
35°	29.4	31.2	36.5	41.0	48.1	63.2	175.4	941.1	1656.9	1834.1	1831.4
37.5°	24.0	26.7	30.3	33.8	39.2	53.4	139.8	883.2	1754.0	1972.1	1888.4
40°	18.7	21.4	24.9	29.4	32.9	48.1	105.1	796.0	1855.5	2039.8	1950.7
42.5°	13.4	15.1	18.7	23.1	29.4	40.1	75.7	692.7	1895.5	2119.0	2025.5
45°	9.8	11.6	14.2	19.6	30.3	32.1	52.5	598.3	1938.3	2153.7	2008.6
47.5°	5.3	7.1	10.7	16.9	26.7	24.0	37.4	513.7	1987.2	2184.9	2021.9
50°	1.8	2.7	6.2	17.8	21.4	18.7	29.4	468.3	2035.3	2191.1	2048.7
52.5°	0.0	0.0	3.6	18.7	16.0	14.2	25.8	450.5	2022.8	2210.7	2031.7
55°	0.0	0.0	0.9	8.0	8.9	10.7	21.4	449.6	2111.0	2216.9	2124.3
57.5°	0.0	0.0	0.0	2.7	5.3	8.9	18.7	421.1	2167.1	2371.9	2249.0
60°	0.0	0.0	0.0	0.9	3.6	6.2	14.2	396.2	2224.1	2441.3	2382.5
62.5°	0.0	0.0	0.0	0.0	0.9	2.7	9.8	357.9	2109.2	2436.0	2511.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	283.1	1897.3	2308.6	2440.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	195.9	1661.4	2148.4	2309.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.4	1340.8	1883.9	1958.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.7	957.1	1495.8	1607.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	592.1	1093.3	1230.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	383.7	828.0	934.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	204.8	519.1	603.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.0	315.2	363.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	191.4	218.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	39.2
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°	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1359.5	1385.4	1395.2	1380.0	1381.8	1350.6	1346.2	1302.6	1284.8	1288.3
5°	1421.9	1459.3	1479.7	1462.8	1424.5	1364.9	1310.6	1258.9	1226.9	1210.9
7.5°	1407.6	1449.5	1475.3	1491.3	1447.7	1351.5	1268.7	1171.7	1130.7	1131.6
10°	1329.3	1416.5	1469.1	1448.6	1428.1	1331.9	1203.7	1098.7	1062.2	1065.7
12.5°	1266.1	1363.1	1394.3	1410.3	1368.4	1291.9	1205.5	1085.3	1044.4	1019.4
15°	1226.9	1299.0	1300.8	1325.7	1308.8	1308.8	1224.2	1106.7	1071.1	1043.5
17.5°	1226.9	1242.9	1241.1	1250.0	1278.5	1312.4	1271.4	1193.0	1122.7	1118.3
20°	1254.5	1204.6	1193.0	1196.6	1220.6	1321.3	1375.6	1277.6	1233.1	1218.9
22.5°	1318.6	1209.1	1138.7	1126.3	1200.2	1320.4	1442.3	1411.2	1333.7	1322.1
25°	1406.7	1201.1	1124.5	1108.5	1164.6	1352.4	1534.0	1540.3	1469.9	1445.9
27.5°	1490.4	1236.7	1122.7	1119.2	1193.0	1345.3	1597.3	1643.6	1564.3	1544.7
30°	1518.9	1272.3	1155.7	1108.5	1203.7	1371.1	1595.5	1716.6	1664.9	1669.4
32.5°	1552.7	1307.9	1159.2	1140.5	1249.1	1413.0	1646.2	1834.1	1796.7	1744.2
35°	1602.6	1356.0	1193.0	1176.1	1281.2	1450.4	1656.9	1920.5	1914.2	1852.8
37.5°	1645.3	1403.2	1263.4	1266.1	1379.1	1510.9	1704.1	2026.4	2015.7	1973.9
40°	1675.6	1469.1	1372.9	1380.0	1464.6	1578.6	1787.8	2079.8	2159.1	2097.6
42.5°	1680.1	1527.8	1498.4	1555.4	1634.7	1683.6	1821.6	2116.3	2230.3	2190.2
45°	1697.0	1621.3	1703.2	1745.1	1810.0	1776.2	1819.8	2178.6	2235.6	2215.2
47.5°	1762.9	1791.4	1894.6	2021.9	2045.1	1933.8	1862.6	2188.4	2265.9	2263.2
50°	1831.4	1973.9	2119.0	2203.6	2233.0	2042.4	1902.6	2180.4	2306.0	2284.6
52.5°	1908.0	2132.4	2341.6	2445.7	2429.7	2162.6	1948.1	2245.4	2379.9	2372.7
55°	1956.1	2203.6	2484.9	2630.0	2617.6	2297.1	2092.3	2338.9	2476.9	2459.1
57.5°	2083.4	2319.3	2627.4	2695.0	2728.0	2473.3	2192.9	2492.0	2557.9	2577.5
60°	2188.4	2395.0	2664.8	2762.7	2774.3	2578.4	2369.2	2649.6	2661.2	2595.3
62.5°	2342.5	2424.4	2585.5	2673.7	2733.3	2638.1	2527.7	2734.2	2659.4	2655.0
65°	2455.5	2328.2	2437.7	2486.7	2525.0	2547.2	2687.0	2792.1	2626.5	2540.1
67.5°	2392.3	2146.6	2126.1	2128.8	2140.4	2274.8	2633.6	2650.5	2443.1	2371.9
70°	2105.6	1761.1	1733.5	1754.8	1697.0	1859.0	2417.3	2409.2	2155.5	2081.6
72.5°	1703.2	1283.9	1236.7	1266.1	1279.4	1451.2	2033.5	1827.0	1572.3	1514.5
75°	1353.3	941.1	794.2	865.4	910.8	1056.8	1588.4	1241.1	1097.8	1019.4
77.5°	1063.1	712.3	617.9	589.4	631.2	768.4	1155.7	651.7	575.2	538.7
80°	674.0	523.5	568.0	527.1	544.9	548.4	601.9	296.5	235.9	233.3
82.5°	406.0	357.9	425.6	234.2	426.5	381.1	250.2	134.4	119.3	119.3
85°	287.6	221.7	146.9	95.3	189.6	209.2	97.0	69.4	60.5	58.8
87.5°	144.2	68.6	32.9	21.4	24.0	39.2	11.6	5.3	5.3	4.5
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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