

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: P677399

Luminaire Tested: **CCW-SA-2A-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677399
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

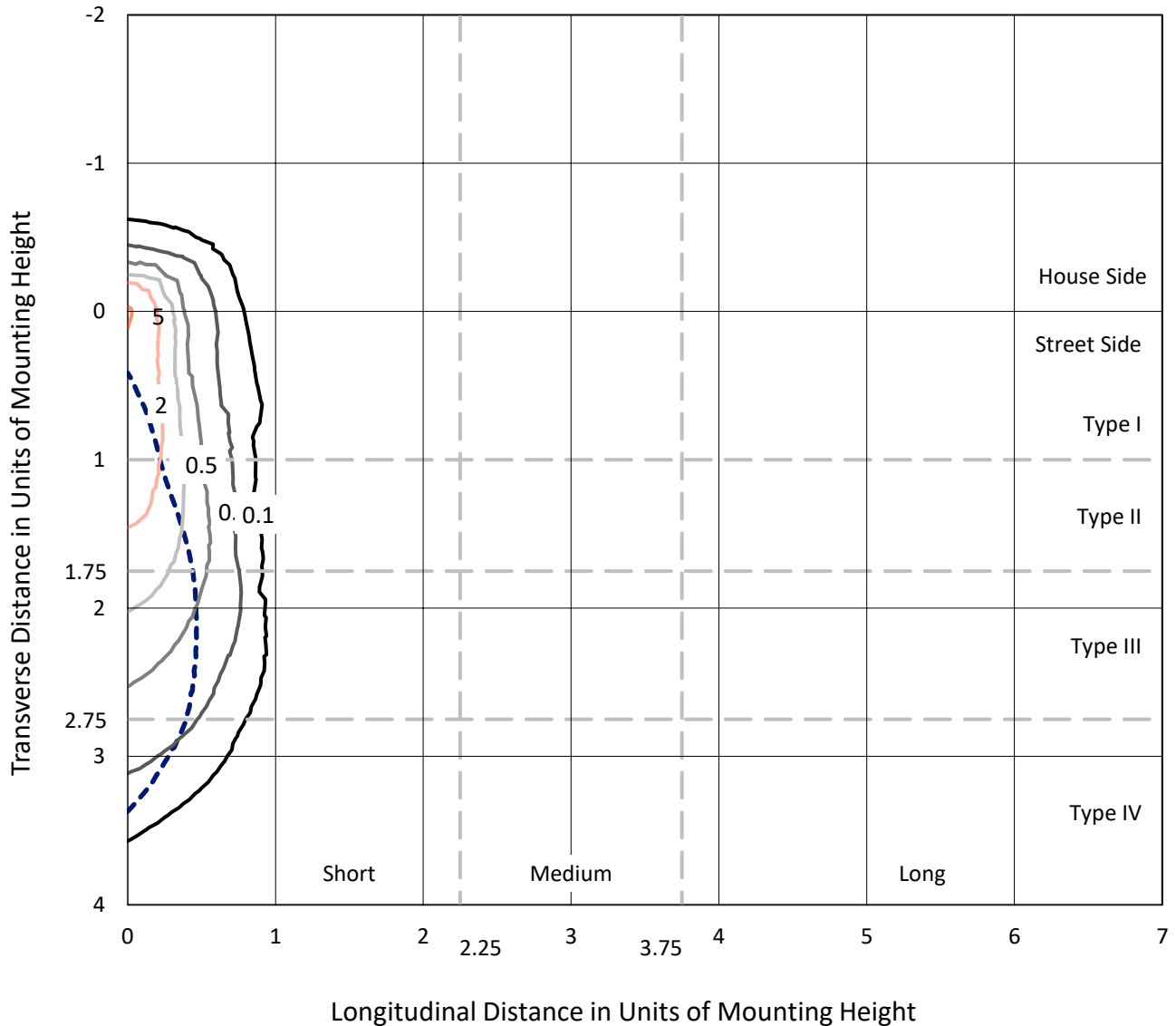
Lumens per Lamp: N/A
Luminaire Lumens: 3288.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (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

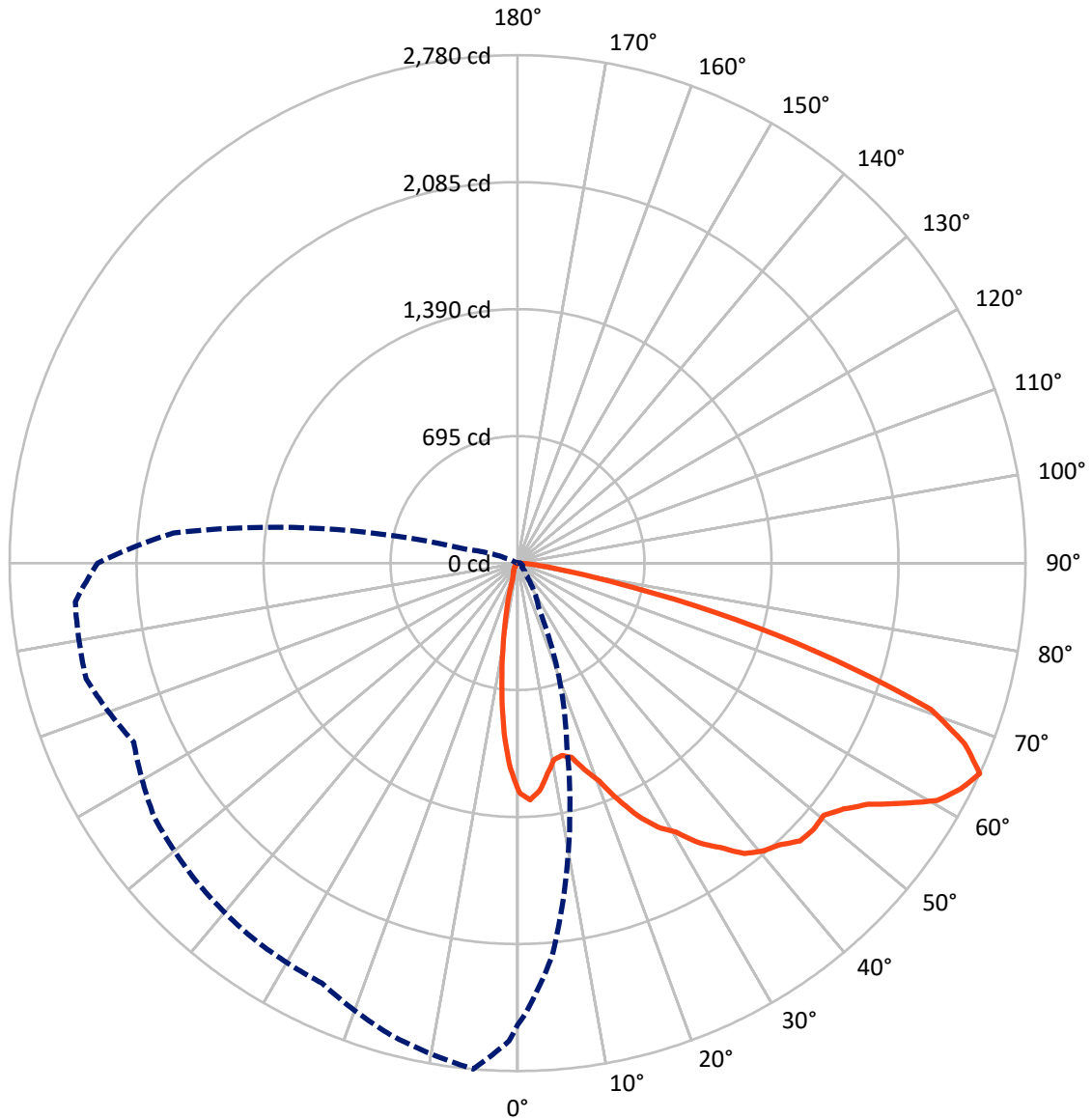
× Max cd
 - - - 1/2 Max cd



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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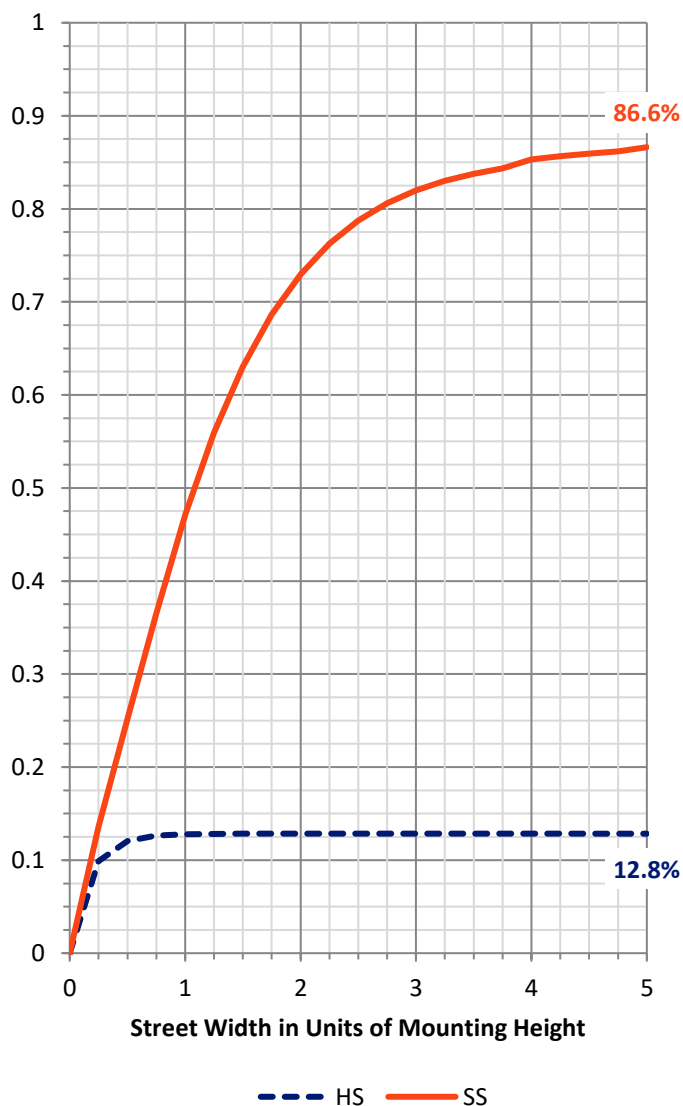
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.0	0.0	427.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2861.4	0.0	2861.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	3288.4	0.0	3288.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.9
10°-20°	184.4	5.6
20°-30°	256.8	7.8
30°-40°	364.9	11.1
40°-50°	506.0	15.4
50°-60°	689.5	21.0
60°-70°	758.1	23.1
70°-80°	372.6	11.3
80°-90°	60.8	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°	3288.4	100.0
0°-180°	3288.4	100.0



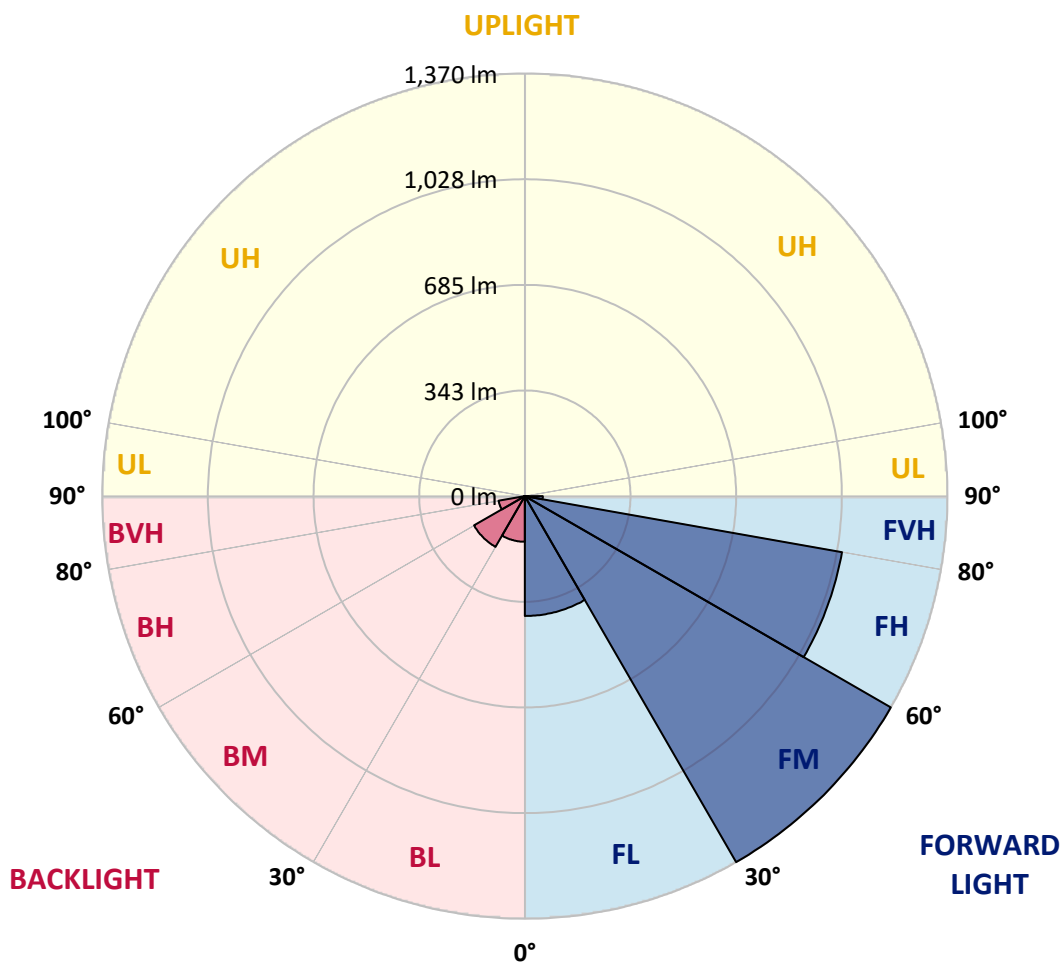
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.6	11.8			
FM (30°-60°)	1370.4	41.7			
FH (60°-80°)	1044.4	31.8			G1/1800
FVH (80°-90°)	58.1	1.8			G1/100
BL (0°-30°)	147.8	4.5	B1/500		
BM (30°-60°)	190.1	5.8	B0/220		
BH (60°-80°)	86.3	2.6	B0/110		G0/110
BVH (80°-90°)	2.7	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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1282.9	1297.9	1283.8	1234.1	1225.2	1201.3	1165.0	1162.3	1124.2	1128.6	1108.2
5°	1205.7	1220.8	1190.7	1125.1	1063.9	1015.1	985.9	933.6	922.0	896.3	896.3
7.5°	1126.8	1125.9	1074.5	1019.6	928.2	838.7	797.9	722.6	678.2	654.3	631.2
10°	1061.2	1047.0	1015.1	901.6	802.3	709.3	658.7	609.1	563.0	523.1	483.2
12.5°	1015.1	1024.0	973.5	850.2	721.7	656.9	602.9	550.6	495.6	450.4	406.0
15°	1039.1	1024.9	965.5	838.7	708.4	619.7	547.9	484.1	422.9	363.5	329.8
17.5°	1113.5	1077.2	1007.1	838.7	680.9	563.0	476.1	400.7	335.1	281.9	240.3
20°	1213.7	1172.0	1096.7	869.7	660.5	521.3	402.5	307.6	239.4	189.7	157.8
22.5°	1316.6	1283.8	1170.3	882.1	636.6	465.4	317.4	222.5	159.6	127.7	111.7
25°	1439.8	1393.7	1269.6	931.8	601.1	411.4	250.0	155.1	118.8	102.0	92.2
27.5°	1538.2	1530.2	1362.7	961.9	574.5	367.0	197.7	123.2	98.4	86.0	79.8
30°	1662.3	1618.9	1476.1	1022.2	544.4	316.5	164.9	110.8	90.4	77.1	72.7
32.5°	1736.8	1716.4	1535.5	1055.9	510.7	274.8	141.9	97.5	82.5	72.7	68.3
35°	1844.9	1804.2	1620.6	1077.2	492.9	250.9	127.7	88.7	69.2	59.4	54.1
37.5°	1965.5	1950.5	1722.6	1076.3	467.2	236.7	117.9	82.5	65.6	55.0	48.8
40°	2088.8	2027.6	1784.7	1101.1	453.9	226.1	110.8	78.9	62.1	52.3	44.3
42.5°	2181.0	2110.9	1856.5	1092.3	438.0	207.5	108.2	73.6	59.4	47.9	40.8
45°	2205.8	2181.0	1921.2	1089.6	426.4	192.4	103.7	72.7	57.6	45.2	38.1
47.5°	2253.7	2236.8	2001.0	1094.0	417.6	180.9	93.1	74.5	55.0	42.6	36.3
50°	2274.9	2244.8	2065.7	1104.7	397.2	166.7	83.3	78.0	54.1	41.7	34.6
52.5°	2362.7	2336.1	2154.4	1134.8	380.3	148.1	73.6	74.5	55.9	39.0	32.8
55°	2448.7	2418.6	2290.9	1204.0	356.4	133.0	62.9	65.6	53.2	35.5	29.3
57.5°	2566.6	2517.0	2382.2	1232.3	335.1	112.6	55.9	54.1	49.6	31.9	25.7
60°	2584.3	2604.7	2368.9	1214.6	313.0	99.3	48.8	41.7	53.2	28.4	22.2
62.5°	2643.7	2558.6	2306.9	1173.8	297.0	91.3	43.4	34.6	46.1	24.8	18.6
65°	2529.4	2466.4	2161.5	1042.6	276.6	92.2	38.1	28.4	29.3	20.4	15.1
67.5°	2361.8	2312.2	1920.3	899.9	256.2	90.4	33.7	24.8	22.2	17.7	13.3
70°	2072.8	1965.5	1631.3	730.5	226.1	84.2	28.4	22.2	18.6	14.2	9.8
72.5°	1508.1	1464.6	1170.3	564.7	203.0	76.2	26.6	18.6	16.0	10.6	8.0
75°	1015.1	943.3	738.5	370.6	163.1	66.5	22.2	16.8	12.4	8.0	6.2
77.5°	536.4	507.1	418.5	176.4	90.4	31.0	12.4	9.8	7.1	6.2	3.5
80°	232.3	206.6	180.9	71.8	31.9	14.2	8.0	5.3	4.4	3.5	1.8
82.5°	118.8	113.5	94.0	31.0	18.6	10.6	4.4	3.5	2.7	1.8	0.9
85°	58.5	60.3	49.6	9.8	10.6	6.2	0.9	0.9	0.0	0.0	0.0
87.5°	4.4	4.4	3.5	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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1100.2	1112.6	1091.4	1104.7	1098.5	1101.1	1103.8	1096.7	1098.5	1123.3	1124.2
5°	881.2	905.2	896.3	908.7	930.0	919.4	929.1	927.4	929.1	932.7	948.6
7.5°	628.6	621.5	638.3	671.1	709.3	732.3	720.8	714.6	711.0	702.2	712.8
10°	474.3	470.8	466.3	476.1	500.9	526.6	540.8	516.9	503.6	486.7	480.5
12.5°	393.6	371.5	359.1	344.0	351.1	374.1	375.0	352.0	330.7	321.8	331.6
15°	310.3	295.2	273.1	251.8	241.1	258.9	243.8	221.6	194.2	190.6	189.7
17.5°	221.6	212.8	196.8	188.0	175.5	171.1	155.1	121.5	102.0	96.6	98.4
20°	150.7	143.6	142.7	134.8	129.4	125.9	100.2	78.0	71.8	72.7	73.6
22.5°	111.7	108.2	103.7	102.8	98.4	94.0	73.6	65.6	61.2	61.2	63.8
25°	91.3	89.5	85.1	83.3	81.6	75.4	62.1	55.9	54.1	52.3	55.0
27.5°	78.0	77.1	74.5	71.8	70.0	63.8	54.1	48.8	47.0	47.0	47.0
30°	70.0	70.0	66.5	61.2	61.2	54.1	46.1	42.6	40.8	40.8	39.9
32.5°	65.6	63.8	59.4	55.9	53.2	46.1	40.8	37.2	34.6	34.6	35.5
35°	53.2	53.2	52.3	49.6	46.1	39.0	34.6	31.0	29.3	28.4	29.3
37.5°	47.0	44.3	40.8	41.7	39.9	33.7	29.3	26.6	23.9	23.9	23.9
40°	42.6	39.9	36.3	33.7	32.8	30.1	25.7	21.3	18.6	17.7	17.7
42.5°	38.1	36.3	31.0	26.6	25.7	25.7	19.5	16.0	13.3	13.3	13.3
45°	35.5	32.8	28.4	23.1	18.6	19.5	16.0	11.5	9.8	8.9	8.9
47.5°	33.7	31.0	24.8	19.5	14.2	14.2	11.5	8.0	6.2	5.3	5.3
50°	31.0	28.4	22.2	16.0	10.6	8.9	7.1	4.4	2.7	1.8	1.8
52.5°	29.3	26.6	19.5	13.3	8.9	6.2	4.4	0.9	0.0	0.0	0.0
55°	26.6	23.1	16.8	10.6	7.1	3.5	0.9	0.0	0.0	0.0	0.0
57.5°	23.1	20.4	13.3	8.0	4.4	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.5	16.8	10.6	6.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16.0	14.2	8.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.3	10.6	6.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.5	8.9	4.4	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	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.4	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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1127.7	1154.3	1179.1	1186.2	1205.7	1259.8	1259.8	1285.5	1331.6	1348.5	1352.0
5°	951.3	979.7	985.0	1039.9	1065.7	1120.6	1157.0	1243.9	1296.2	1329.0	1349.4
7.5°	723.4	733.2	753.6	805.0	855.5	922.0	991.2	1102.0	1194.2	1231.4	1300.6
10°	497.4	526.6	571.0	617.1	696.0	769.5	859.1	963.7	1077.2	1123.3	1182.7
12.5°	335.1	375.9	446.8	512.4	585.1	659.6	744.7	884.8	1013.3	1077.2	1136.6
15°	195.9	245.6	306.8	413.1	509.8	593.1	678.2	820.1	976.1	1058.6	1131.3
17.5°	99.3	114.4	164.9	257.1	384.8	521.3	648.1	828.9	1004.5	1105.6	1165.8
20°	74.5	78.9	93.1	136.5	263.3	430.9	619.7	842.2	1083.4	1206.6	1239.4
22.5°	64.7	68.3	74.5	88.7	148.1	329.8	579.8	875.0	1190.7	1306.8	1376.0
25°	55.0	58.5	63.8	72.7	94.9	224.3	531.1	909.6	1286.4	1432.7	1497.4
27.5°	47.9	50.5	55.9	62.9	77.1	142.7	446.8	955.7	1432.7	1585.2	1602.0
30°	40.8	43.4	47.9	55.9	65.6	101.1	328.0	961.9	1513.4	1651.7	1698.7
32.5°	35.5	36.3	41.7	48.8	55.0	79.8	230.5	968.1	1572.8	1737.7	1747.4
35°	29.3	31.0	36.3	40.8	47.9	62.9	174.7	937.1	1649.9	1826.3	1823.7
37.5°	23.9	26.6	30.1	33.7	39.0	53.2	139.2	879.5	1746.5	1963.8	1880.4
40°	18.6	21.3	24.8	29.3	32.8	47.9	104.6	792.6	1847.6	2031.1	1942.5
42.5°	13.3	15.1	18.6	23.1	29.3	39.9	75.4	689.8	1887.5	2110.0	2016.9
45°	9.8	11.5	14.2	19.5	30.1	31.9	52.3	595.8	1930.1	2144.6	2000.1
47.5°	5.3	7.1	10.6	16.8	26.6	23.9	37.2	511.6	1978.8	2175.6	2013.4
50°	1.8	2.7	6.2	17.7	21.3	18.6	29.3	466.3	2026.7	2181.8	2040.0
52.5°	0.0	0.0	3.5	18.6	16.0	14.2	25.7	448.6	2014.3	2201.4	2023.2
55°	0.0	0.0	0.9	8.0	8.9	10.6	21.3	447.7	2102.1	2207.6	2115.4
57.5°	0.0	0.0	0.0	2.7	5.3	8.9	18.6	419.3	2157.9	2361.8	2239.5
60°	0.0	0.0	0.0	0.9	3.5	6.2	14.2	394.5	2214.6	2431.0	2372.5
62.5°	0.0	0.0	0.0	0.0	0.9	2.7	9.8	356.4	2100.3	2425.7	2501.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	281.9	1889.3	2298.9	2430.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	195.0	1654.3	2139.3	2299.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.9	1335.2	1876.0	1950.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.5	953.1	1489.4	1600.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	589.6	1088.7	1225.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	382.1	824.5	930.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	203.9	516.9	601.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.7	313.8	361.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	190.6	217.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	39.0
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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1353.8	1379.5	1389.3	1374.2	1376.0	1344.9	1340.5	1297.1	1279.3	1282.9
5°	1415.9	1453.1	1473.5	1456.6	1418.5	1359.1	1305.0	1253.6	1221.7	1205.7
7.5°	1401.7	1443.3	1469.0	1485.0	1441.6	1345.8	1263.4	1166.7	1125.9	1126.8
10°	1323.6	1410.5	1462.8	1442.4	1422.1	1326.3	1198.6	1094.0	1057.7	1061.2
12.5°	1260.7	1357.3	1388.4	1404.3	1362.7	1286.4	1200.4	1080.7	1039.9	1015.1
15°	1221.7	1293.5	1295.3	1320.1	1303.3	1303.3	1219.0	1102.0	1066.5	1039.1
17.5°	1221.7	1237.7	1235.9	1244.7	1273.1	1306.8	1266.0	1188.0	1118.0	1113.5
20°	1249.2	1199.5	1188.0	1191.5	1215.5	1315.7	1369.7	1272.2	1227.9	1213.7
22.5°	1313.0	1204.0	1133.9	1121.5	1195.1	1314.8	1436.2	1405.2	1328.1	1316.6
25°	1400.8	1196.0	1119.7	1103.8	1159.6	1346.7	1527.6	1533.8	1463.7	1439.8
27.5°	1484.1	1231.4	1118.0	1114.4	1188.0	1339.6	1590.5	1636.6	1557.7	1538.2
30°	1512.5	1266.9	1150.8	1103.8	1198.6	1365.3	1588.7	1709.3	1657.9	1662.3
32.5°	1546.2	1302.4	1154.3	1135.7	1243.9	1407.0	1639.3	1826.3	1789.1	1736.8
35°	1595.8	1350.2	1188.0	1171.2	1275.8	1444.2	1649.9	1912.3	1906.1	1844.9
37.5°	1638.4	1397.2	1258.0	1260.7	1373.3	1504.5	1696.9	2017.8	2007.2	1965.5
40°	1668.5	1462.8	1367.1	1374.2	1458.4	1571.9	1780.2	2071.0	2149.9	2088.8
42.5°	1673.0	1521.4	1492.1	1548.8	1627.7	1676.5	1813.9	2107.4	2220.9	2181.0
45°	1689.8	1614.4	1696.0	1737.7	1802.4	1768.7	1812.1	2169.4	2226.2	2205.8
47.5°	1755.4	1783.8	1886.6	2013.4	2036.4	1925.6	1854.7	2179.2	2256.3	2253.7
50°	1823.7	1965.5	2110.0	2194.3	2223.5	2033.8	1894.6	2171.2	2296.2	2274.9
52.5°	1899.9	2123.3	2331.7	2435.4	2419.4	2153.5	1939.8	2235.9	2369.8	2362.7
55°	1947.8	2194.3	2474.4	2618.9	2606.5	2287.3	2083.4	2329.0	2466.4	2448.7
57.5°	2074.6	2309.5	2616.3	2683.6	2716.4	2462.9	2183.6	2481.5	2547.1	2566.6
60°	2179.2	2384.9	2653.5	2751.0	2762.5	2567.5	2359.2	2638.4	2650.0	2584.3
62.5°	2332.6	2414.1	2574.6	2662.4	2721.8	2626.9	2517.0	2722.7	2648.2	2643.7
65°	2445.2	2318.4	2427.4	2476.2	2514.3	2536.5	2675.7	2780.3	2615.4	2529.4
67.5°	2382.2	2137.5	2117.1	2119.8	2131.3	2265.2	2622.5	2639.3	2432.7	2361.8
70°	2096.7	1753.6	1726.1	1747.4	1689.8	1851.2	2407.0	2399.1	2146.4	2072.8
72.5°	1696.0	1278.4	1231.4	1260.7	1274.0	1445.1	2024.9	1819.2	1565.7	1508.1
75°	1347.6	937.1	790.8	861.7	907.0	1052.4	1581.6	1235.9	1093.1	1015.1
77.5°	1058.6	709.3	615.3	586.9	628.6	765.1	1150.8	649.0	572.7	536.4
80°	671.1	521.3	565.6	524.8	542.6	546.1	599.3	295.2	234.9	232.3
82.5°	404.3	356.4	423.8	233.2	424.7	379.5	249.1	133.9	118.8	118.8
85°	286.4	220.8	146.3	94.9	188.8	208.3	96.6	69.2	60.3	58.5
87.5°	143.6	68.3	32.8	21.3	23.9	39.0	11.5	5.3	5.3	4.4
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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