

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: P677406

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677406
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

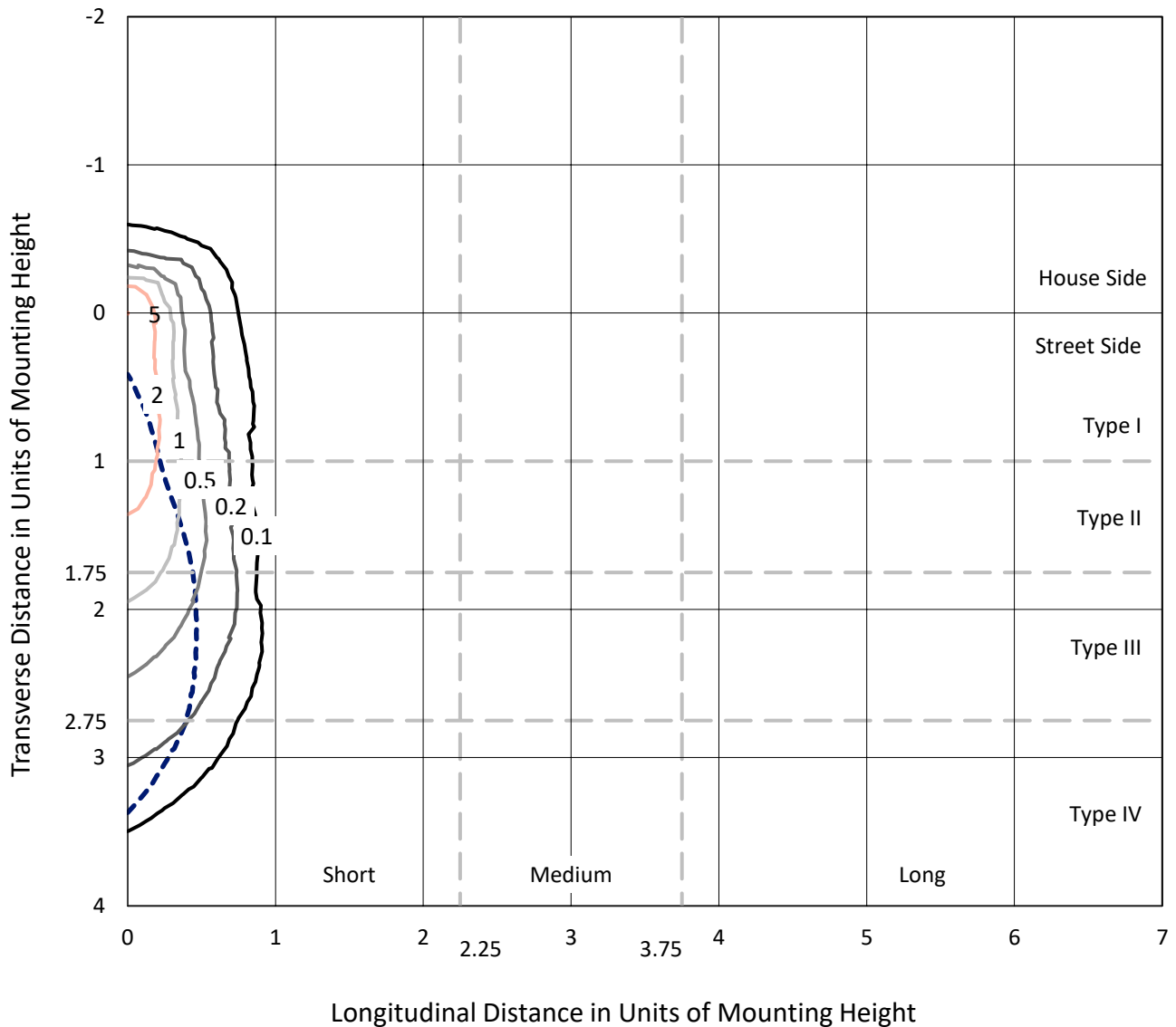
Lumens per Lamp: N/A
Luminaire Lumens: 2958.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

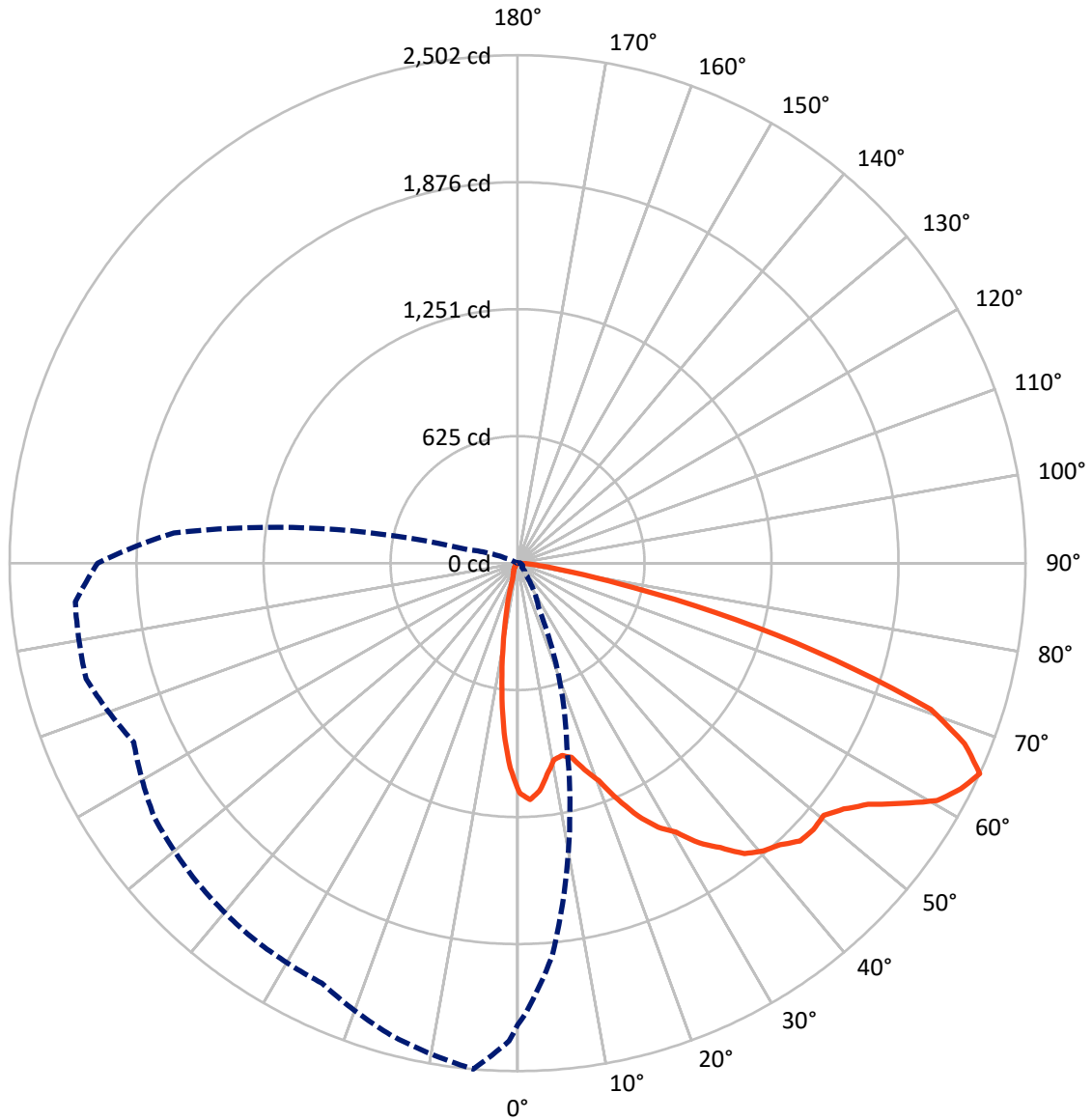
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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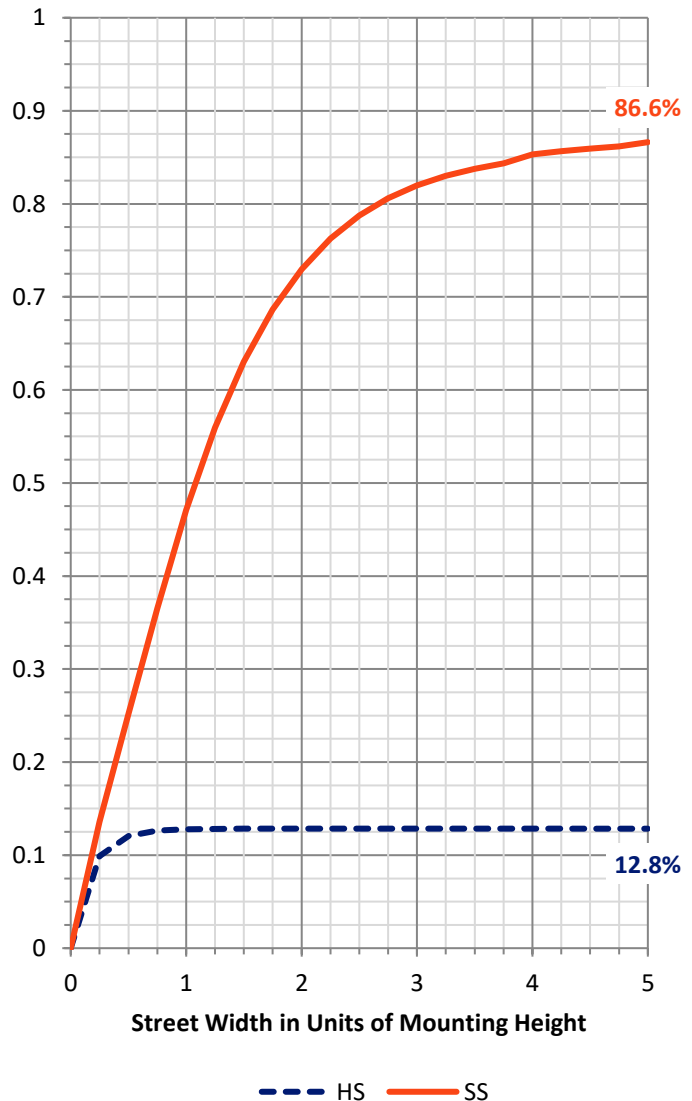
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	384.2	0.0	384.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2574.5	0.0	2574.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	2958.7	0.0	2958.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	2.9
10°-20°	165.9	5.6
20°-30°	231.1	7.8
30°-40°	328.3	11.1
40°-50°	455.3	15.4
50°-60°	620.4	21.0
60°-70°	682.0	23.1
70°-80°	335.2	11.3
80°-90°	54.7	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°	2958.7	100.0
0°-180°	2958.7	100.0



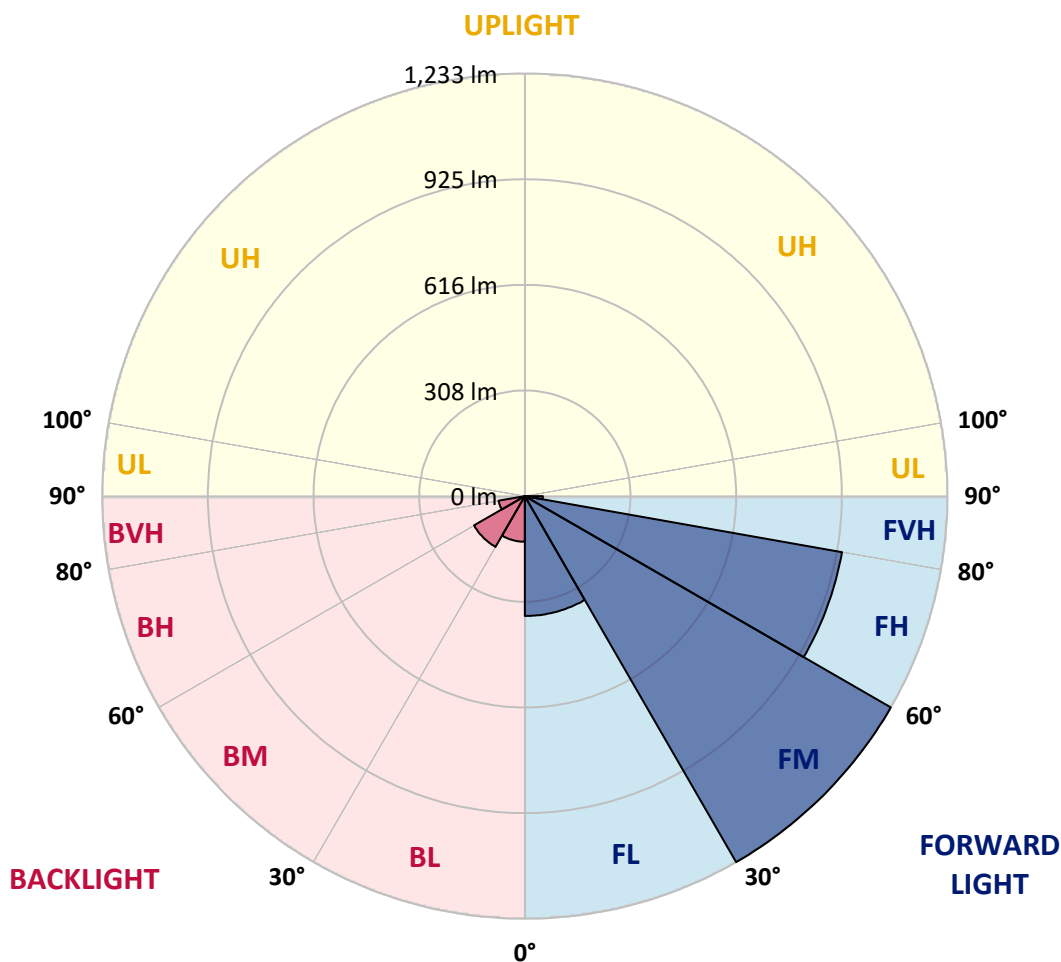
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.7	11.8			
FM (30°-60°)	1233.0	41.7			
FH (60°-80°)	939.6	31.8			G1/1800
FVH (80°-90°)	52.3	1.8			G1/100
BL (0°-30°)	133.0	4.5	B1/500		
BM (30°-60°)	171.0	5.8	B0/220		
BH (60°-80°)	77.6	2.6	B0/110		G0/110
BVH (80°-90°)	2.5	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°	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1
2.5°	1154.2	1167.8	1155.0	1110.4	1102.4	1080.8	1048.1	1045.7	1011.4	1015.4	997.1
5°	1084.8	1098.4	1071.3	1012.2	957.2	913.3	887.0	839.9	829.6	806.4	806.4
7.5°	1013.8	1013.0	966.8	917.3	835.2	754.6	717.9	650.1	610.2	588.7	567.9
10°	954.8	942.0	913.3	811.2	721.9	638.1	592.7	548.0	506.5	470.6	434.7
12.5°	913.3	921.3	875.8	765.0	649.3	591.1	542.4	495.4	445.9	405.2	365.3
15°	934.9	922.1	868.7	754.6	637.3	557.6	493.0	435.5	380.5	327.0	296.7
17.5°	1001.9	969.2	906.1	754.6	612.6	506.5	428.3	360.5	301.5	253.7	216.2
20°	1092.0	1054.5	986.7	782.5	594.3	469.0	362.1	276.8	215.4	170.7	142.0
22.5°	1184.5	1155.0	1052.9	793.7	572.7	418.8	285.6	200.2	143.6	114.9	100.5
25°	1295.4	1253.9	1142.3	838.3	540.8	370.1	224.9	139.6	106.9	91.7	83.0
27.5°	1384.0	1376.8	1226.0	865.5	516.9	330.2	177.9	110.9	88.5	77.4	71.8
30°	1495.6	1456.5	1328.1	919.7	489.8	284.8	148.4	99.7	81.4	69.4	65.4
32.5°	1562.6	1544.3	1381.6	950.0	459.5	247.3	127.6	87.7	74.2	65.4	61.4
35°	1659.9	1623.3	1458.1	969.2	443.5	225.7	114.9	79.8	62.2	53.4	48.7
37.5°	1768.4	1754.9	1549.9	968.4	420.4	213.0	106.1	74.2	59.0	49.5	43.9
40°	1879.3	1824.3	1605.7	990.7	408.4	203.4	99.7	71.0	55.8	47.1	39.9
42.5°	1962.3	1899.2	1670.3	982.7	394.0	186.7	97.3	66.2	53.4	43.1	36.7
45°	1984.6	1962.3	1728.5	980.3	383.7	173.1	93.3	65.4	51.8	40.7	34.3
47.5°	2027.7	2012.5	1800.3	984.3	375.7	162.7	83.8	67.0	49.5	38.3	32.7
50°	2046.8	2019.7	1858.6	993.9	357.4	150.0	75.0	70.2	48.7	37.5	31.1
52.5°	2125.8	2101.8	1938.3	1021.0	342.2	133.2	66.2	67.0	50.3	35.1	29.5
55°	2203.2	2176.0	2061.2	1083.2	320.7	119.6	56.6	59.0	47.9	31.9	26.3
57.5°	2309.2	2264.6	2143.3	1108.8	301.5	101.3	50.3	48.7	44.7	28.7	23.1
60°	2325.2	2343.5	2131.4	1092.8	281.6	89.3	43.9	37.5	47.9	25.5	19.9
62.5°	2378.6	2302.1	2075.5	1056.1	267.2	82.2	39.1	31.1	41.5	22.3	16.8
65°	2275.7	2219.1	1944.7	938.1	248.9	83.0	34.3	25.5	26.3	18.3	13.6
67.5°	2125.0	2080.3	1727.7	809.6	230.5	81.4	30.3	22.3	19.9	16.0	12.0
70°	1864.9	1768.4	1467.7	657.3	203.4	75.8	25.5	19.9	16.8	12.8	8.8
72.5°	1356.8	1317.7	1052.9	508.1	182.7	68.6	23.9	16.8	14.4	9.6	7.2
75°	913.3	848.7	664.5	333.4	146.8	59.8	19.9	15.2	11.2	7.2	5.6
77.5°	482.6	456.3	376.5	158.7	81.4	27.9	11.2	8.8	6.4	5.6	3.2
80°	209.0	185.9	162.7	64.6	28.7	12.8	7.2	4.8	4.0	3.2	1.6
82.5°	106.9	102.1	84.6	27.9	16.8	9.6	4.0	3.2	2.4	1.6	0.8
85°	52.6	54.2	44.7	8.8	9.6	5.6	0.8	0.8	0.0	0.0	0.0
87.5°	4.0	4.0	3.2	1.6	2.4	0.8	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°	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1
2.5°	989.9	1001.1	981.9	993.9	988.3	990.7	993.1	986.7	988.3	1010.6	1011.4
5°	792.9	814.4	806.4	817.6	836.8	827.2	836.0	834.4	836.0	839.1	853.5
7.5°	565.5	559.2	574.3	603.8	638.1	658.9	648.5	642.9	639.7	631.8	641.3
10°	426.8	423.6	419.6	428.3	450.7	473.8	486.6	465.0	453.1	437.9	432.3
12.5°	354.2	334.2	323.1	309.5	315.9	336.6	337.4	316.7	297.5	289.6	298.3
15°	279.2	265.6	245.7	226.5	217.0	232.9	219.4	199.4	174.7	171.5	170.7
17.5°	199.4	191.4	177.1	169.1	157.9	153.9	139.6	109.3	91.7	86.9	88.5
20°	135.6	129.2	128.4	121.2	116.5	113.3	90.1	70.2	64.6	65.4	66.2
22.5°	100.5	97.3	93.3	92.5	88.5	84.6	66.2	59.0	55.0	55.0	57.4
25°	82.2	80.6	76.6	75.0	73.4	67.8	55.8	50.3	48.7	47.1	49.5
27.5°	70.2	69.4	67.0	64.6	63.0	57.4	48.7	43.9	42.3	42.3	42.3
30°	63.0	63.0	59.8	55.0	55.0	48.7	41.5	38.3	36.7	36.7	35.9
32.5°	59.0	57.4	53.4	50.3	47.9	41.5	36.7	33.5	31.1	31.1	31.9
35°	47.9	47.9	47.1	44.7	41.5	35.1	31.1	27.9	26.3	25.5	26.3
37.5°	42.3	39.9	36.7	37.5	35.9	30.3	26.3	23.9	21.5	21.5	21.5
40°	38.3	35.9	32.7	30.3	29.5	27.1	23.1	19.1	16.8	16.0	16.0
42.5°	34.3	32.7	27.9	23.9	23.1	23.1	17.5	14.4	12.0	12.0	12.0
45°	31.9	29.5	25.5	20.7	16.8	17.5	14.4	10.4	8.8	8.0	8.0
47.5°	30.3	27.9	22.3	17.5	12.8	12.8	10.4	7.2	5.6	4.8	4.8
50°	27.9	25.5	19.9	14.4	9.6	8.0	6.4	4.0	2.4	1.6	1.6
52.5°	26.3	23.9	17.5	12.0	8.0	5.6	4.0	0.8	0.0	0.0	0.0
55°	23.9	20.7	15.2	9.6	6.4	3.2	0.8	0.0	0.0	0.0	0.0
57.5°	20.7	18.3	12.0	7.2	4.0	0.8	0.0	0.0	0.0	0.0	0.0
60°	17.5	15.2	9.6	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14.4	12.8	7.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12.0	9.6	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10.4	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.0	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.6	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	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°	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1
2.5°	1014.6	1038.6	1060.9	1067.3	1084.8	1133.5	1133.5	1156.6	1198.1	1213.2	1216.4
5°	855.9	881.4	886.2	935.7	958.8	1008.2	1041.0	1119.1	1166.2	1195.7	1214.0
7.5°	650.9	659.7	678.0	724.3	769.7	829.6	891.8	991.5	1074.5	1108.0	1170.2
10°	447.5	473.8	513.7	555.2	626.2	692.4	772.9	867.1	969.2	1010.6	1064.1
12.5°	301.5	338.2	402.0	461.1	526.5	593.5	670.0	796.1	911.7	969.2	1022.6
15°	176.3	221.0	276.0	371.7	458.7	533.6	610.2	737.8	878.2	952.4	1017.8
17.5°	89.3	102.9	148.4	231.3	346.2	469.0	583.1	745.8	903.8	994.7	1048.9
20°	67.0	71.0	83.8	122.8	236.9	387.7	557.6	757.8	974.7	1085.6	1115.1
22.5°	58.2	61.4	67.0	79.8	133.2	296.7	521.7	787.3	1071.3	1175.8	1238.0
25°	49.5	52.6	57.4	65.4	85.4	201.8	477.8	818.4	1157.4	1289.0	1347.3
27.5°	43.1	45.5	50.3	56.6	69.4	128.4	402.0	859.9	1289.0	1426.2	1441.4
30°	36.7	39.1	43.1	50.3	59.0	90.9	295.1	865.5	1361.6	1486.1	1528.3
32.5°	31.9	32.7	37.5	43.9	49.5	71.8	207.4	871.1	1415.1	1563.4	1572.2
35°	26.3	27.9	32.7	36.7	43.1	56.6	157.1	843.1	1484.5	1643.2	1640.8
37.5°	21.5	23.9	27.1	30.3	35.1	47.9	125.2	791.3	1571.4	1766.8	1691.8
40°	16.8	19.1	22.3	26.3	29.5	43.1	94.1	713.1	1662.3	1827.5	1747.7
42.5°	12.0	13.6	16.8	20.7	26.3	35.9	67.8	620.6	1698.2	1898.4	1814.7
45°	8.8	10.4	12.8	17.5	27.1	28.7	47.1	536.0	1736.5	1929.6	1799.5
47.5°	4.8	6.4	9.6	15.2	23.9	21.5	33.5	460.3	1780.4	1957.5	1811.5
50°	1.6	2.4	5.6	16.0	19.1	16.8	26.3	419.6	1823.5	1963.1	1835.4
52.5°	0.0	0.0	3.2	16.8	14.4	12.8	23.1	403.6	1812.3	1980.6	1820.3
55°	0.0	0.0	0.8	7.2	8.0	9.6	19.1	402.8	1891.3	1986.2	1903.2
57.5°	0.0	0.0	0.0	2.4	4.8	8.0	16.8	377.3	1941.5	2125.0	2014.9
60°	0.0	0.0	0.0	0.8	3.2	5.6	12.8	355.0	1992.6	2187.2	2134.6
62.5°	0.0	0.0	0.0	0.0	0.8	2.4	8.8	320.7	1889.7	2182.4	2250.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	253.7	1699.8	2068.3	2186.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	175.5	1488.4	1924.8	2069.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.1	1201.3	1687.9	1754.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	857.5	1340.1	1439.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	530.4	979.5	1102.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	343.8	741.8	836.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	183.5	465.0	540.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.8	282.4	325.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	171.5	195.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	35.1
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°	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1	1131.1
2.5°	1218.0	1241.2	1249.9	1236.4	1238.0	1210.1	1206.1	1167.0	1151.0	1154.2
5°	1273.9	1307.4	1325.7	1310.6	1276.3	1222.8	1174.2	1127.9	1099.2	1084.8
7.5°	1261.1	1298.6	1321.7	1336.1	1297.0	1210.9	1136.7	1049.7	1013.0	1013.8
10°	1190.9	1269.1	1316.1	1297.8	1279.5	1193.3	1078.4	984.3	951.6	954.8
12.5°	1134.3	1221.2	1249.1	1263.5	1226.0	1157.4	1080.0	972.4	935.7	913.3
15°	1099.2	1163.8	1165.4	1187.7	1172.6	1172.6	1096.8	991.5	959.6	934.9
17.5°	1099.2	1113.5	1111.9	1119.9	1145.4	1175.8	1139.1	1068.9	1005.9	1001.9
20°	1123.9	1079.2	1068.9	1072.1	1093.6	1183.7	1232.4	1144.7	1104.8	1092.0
22.5°	1181.3	1083.2	1020.2	1009.0	1075.3	1182.9	1292.2	1264.3	1194.9	1184.5
25°	1260.3	1076.1	1007.5	993.1	1043.3	1211.7	1374.4	1380.0	1316.9	1295.4
27.5°	1335.3	1108.0	1005.9	1002.7	1068.9	1205.3	1431.0	1472.5	1401.5	1384.0
30°	1360.8	1139.9	1035.4	993.1	1078.4	1228.4	1429.4	1537.9	1491.6	1495.6
32.5°	1391.1	1171.8	1038.6	1021.8	1119.1	1265.9	1474.9	1643.2	1609.7	1562.6
35°	1435.8	1214.8	1068.9	1053.7	1147.8	1299.4	1484.5	1720.6	1715.0	1659.9
37.5°	1474.1	1257.1	1131.9	1134.3	1235.6	1353.6	1526.7	1815.5	1805.9	1768.4
40°	1501.2	1316.1	1230.0	1236.4	1312.2	1414.3	1601.7	1863.3	1934.3	1879.3
42.5°	1505.2	1368.8	1342.5	1393.5	1464.5	1508.4	1632.0	1896.1	1998.2	1962.3
45°	1520.4	1452.5	1525.9	1563.4	1621.7	1591.3	1630.4	1951.9	2002.9	1984.6
47.5°	1579.4	1604.9	1697.4	1811.5	1832.2	1732.5	1668.7	1960.7	2030.1	2027.7
50°	1640.8	1768.4	1898.4	1974.2	2000.5	1829.8	1704.6	1953.5	2066.0	2046.8
52.5°	1709.4	1910.4	2097.9	2191.2	2176.8	1937.5	1745.3	2011.7	2132.2	2125.8
55°	1752.5	1974.2	2226.3	2356.3	2345.1	2058.0	1874.5	2095.5	2219.1	2203.2
57.5°	1866.5	2077.9	2353.9	2414.5	2444.0	2215.9	1964.7	2232.7	2291.7	2309.2
60°	1960.7	2145.7	2387.4	2475.2	2485.5	2310.0	2122.6	2373.9	2384.2	2325.2
62.5°	2098.7	2172.0	2316.4	2395.4	2448.8	2363.5	2264.6	2449.6	2382.6	2378.6
65°	2200.0	2085.9	2184.0	2227.9	2262.2	2282.1	2407.4	2501.5	2353.1	2275.7
67.5°	2143.3	1923.2	1904.8	1907.2	1917.6	2038.0	2359.5	2374.7	2188.8	2125.0
70°	1886.5	1577.8	1553.1	1572.2	1520.4	1665.5	2165.7	2158.5	1931.1	1864.9
72.5°	1525.9	1150.2	1108.0	1134.3	1146.2	1300.2	1821.9	1636.8	1408.7	1356.8
75°	1212.5	843.1	711.5	775.3	816.0	946.8	1423.0	1111.9	983.5	913.3
77.5°	952.4	638.1	553.6	528.1	565.5	688.4	1035.4	583.9	515.3	482.6
80°	603.8	469.0	508.9	472.2	488.2	491.4	539.2	265.6	211.4	209.0
82.5°	363.7	320.7	381.3	209.8	382.1	341.4	224.1	120.4	106.9	106.9
85°	257.6	198.6	131.6	85.4	169.9	187.5	86.9	62.2	54.2	52.6
87.5°	129.2	61.4	29.5	19.1	21.5	35.1	10.4	4.8	4.8	4.0
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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