

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: P677465

Luminaire Tested: **CCW-SA-2A-827-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677465
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.5 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

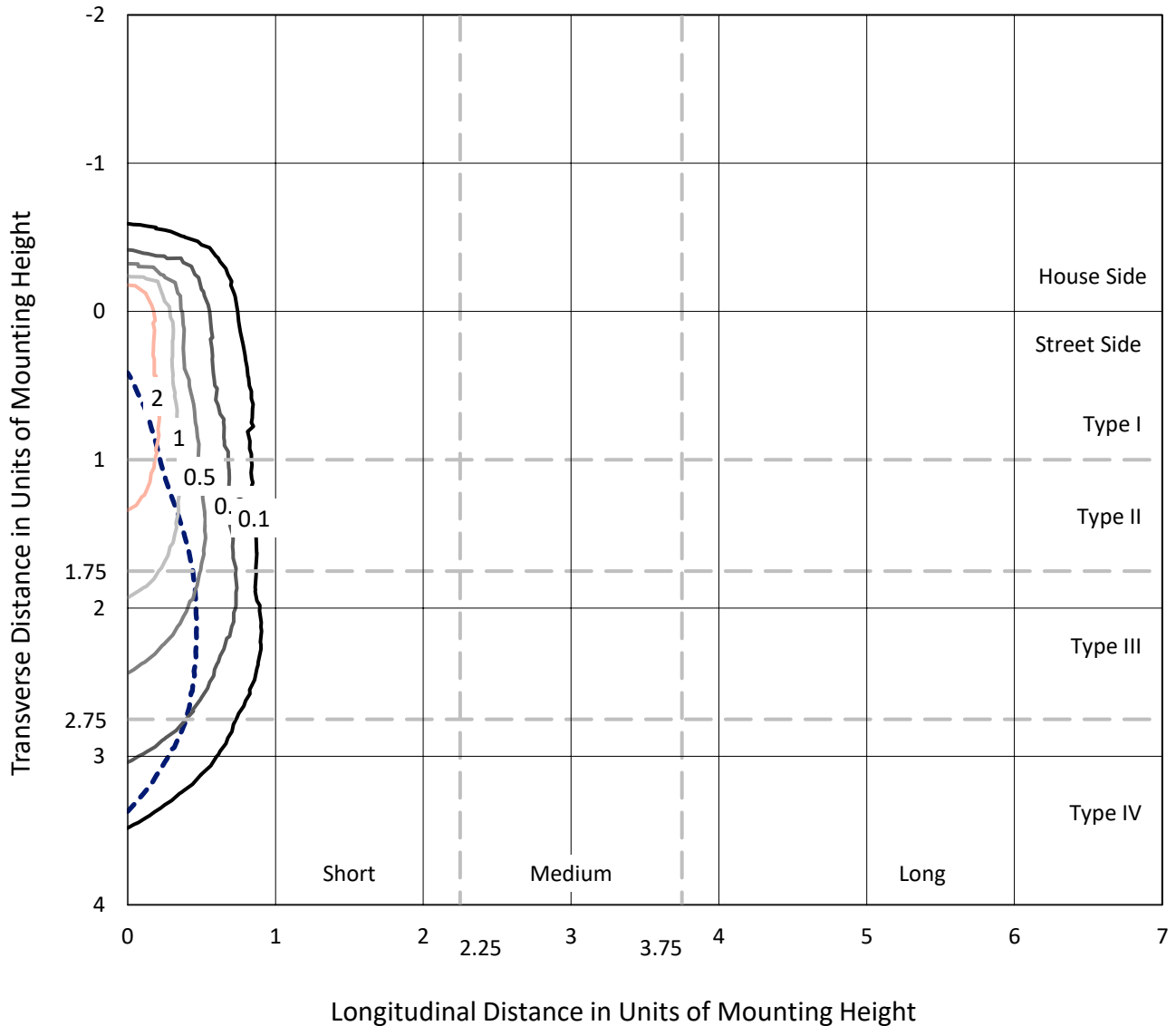
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

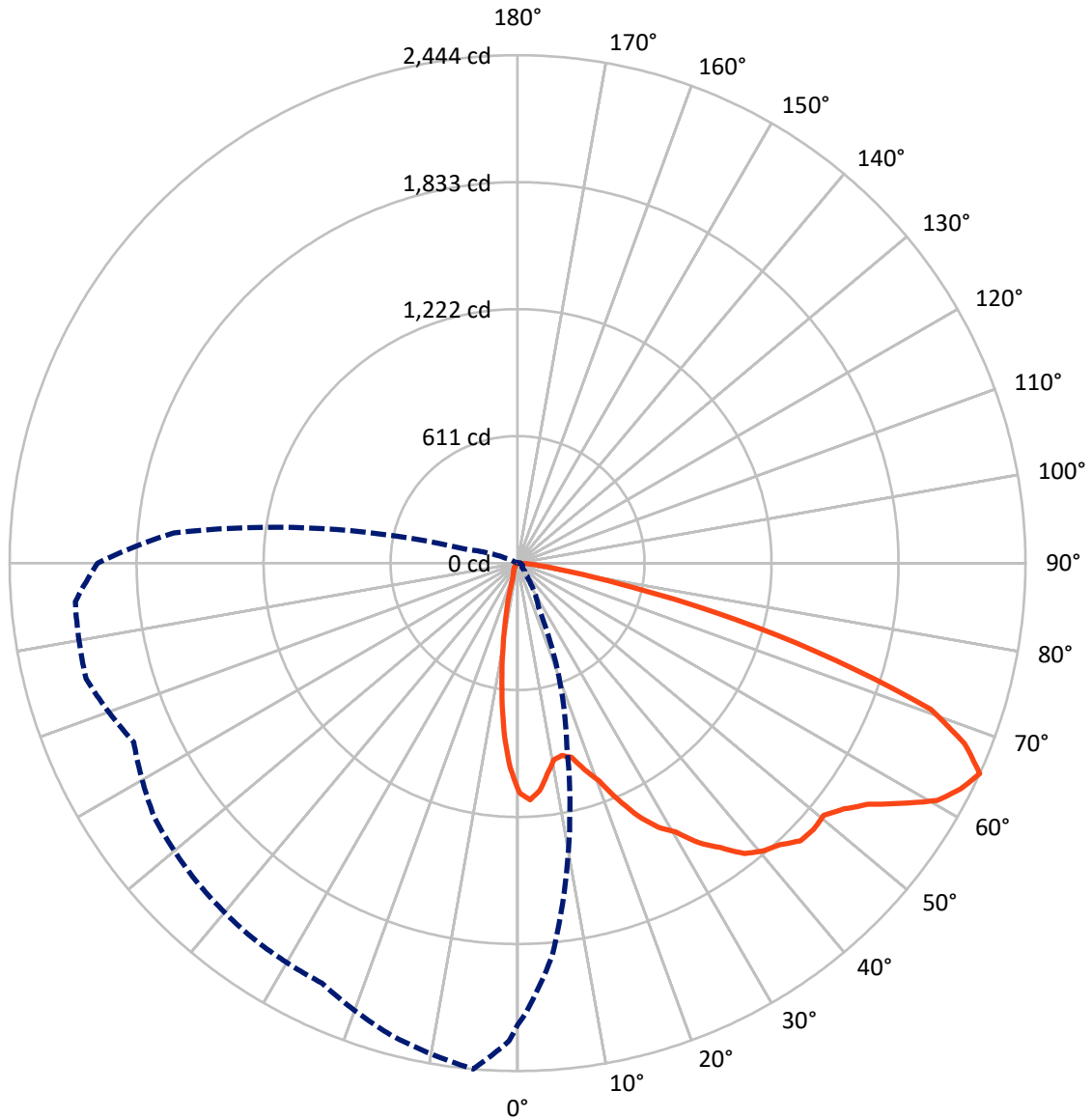
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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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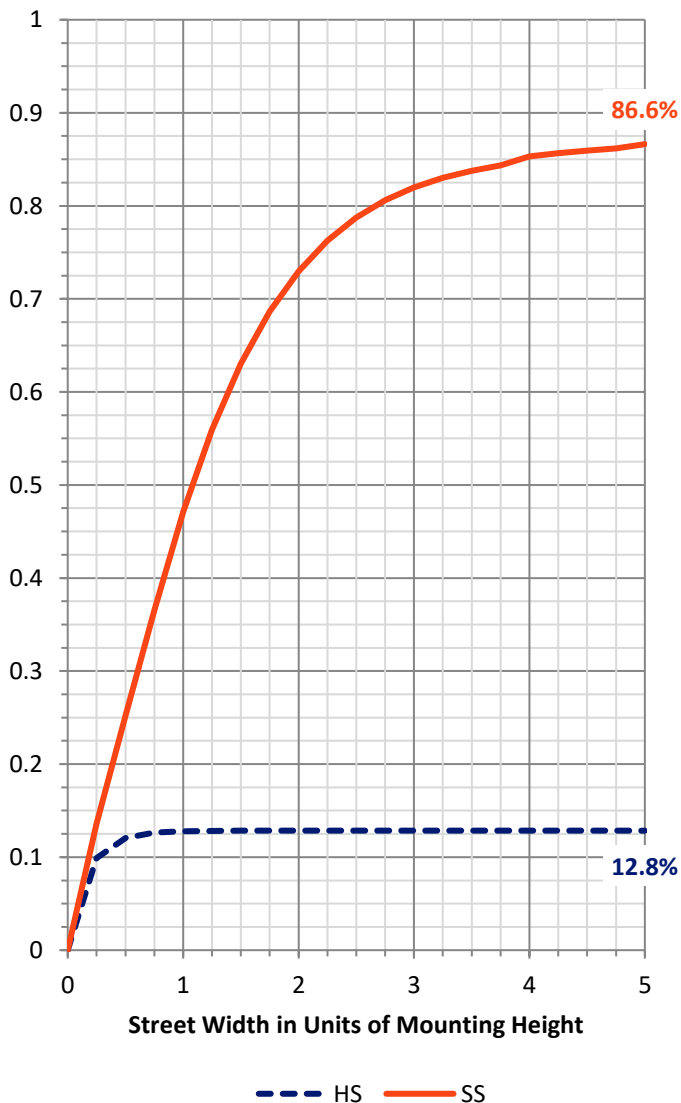
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.3	0.0	375.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2515.2	0.0	2515.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	2890.5	0.0	2890.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	2.9
10°-20°	162.1	5.6
20°-30°	225.7	7.8
30°-40°	320.8	11.1
40°-50°	444.8	15.4
50°-60°	606.1	21.0
60°-70°	666.3	23.1
70°-80°	327.5	11.3
80°-90°	53.5	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°	2890.5	100.0
0°-180°	2890.5	100.0



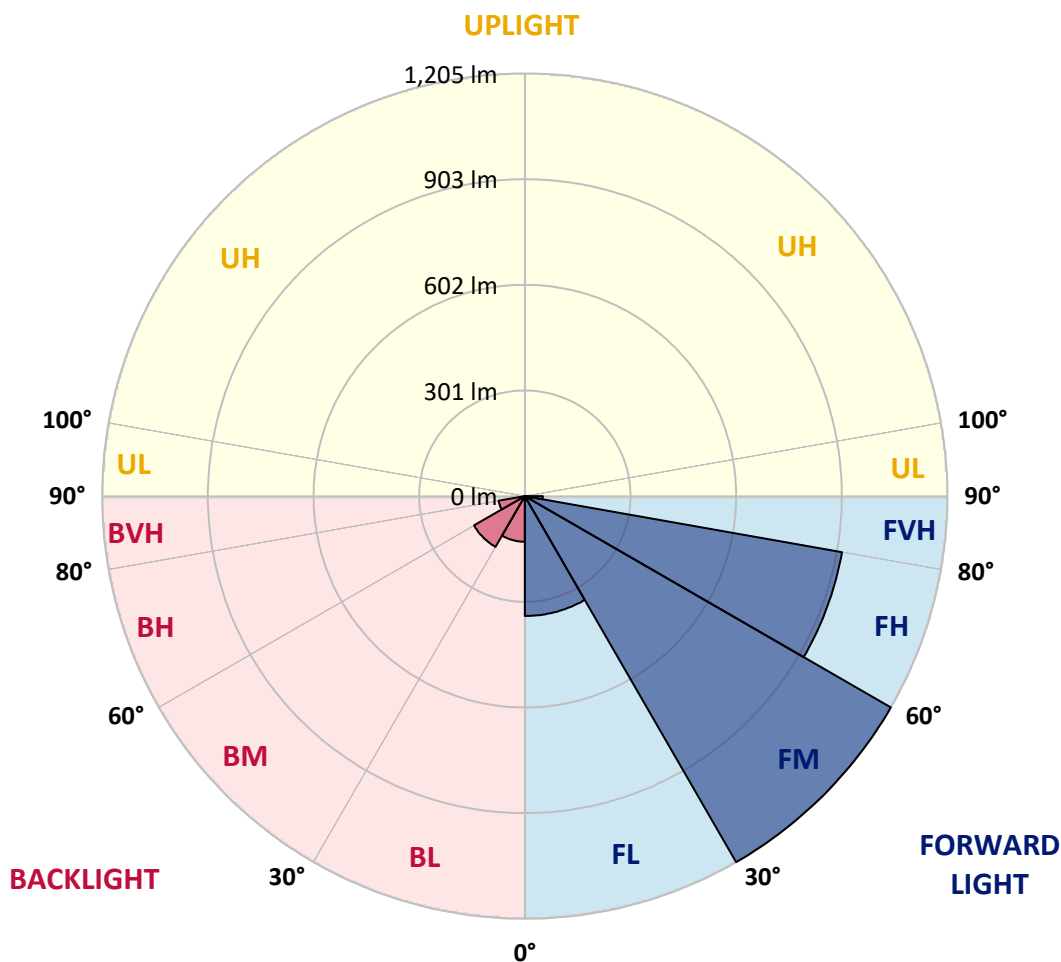
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.6	11.8			
FM (30°-60°)	1204.5	41.7			
FH (60°-80°)	918.0	31.8			G1/1800
FVH (80°-90°)	51.1	1.8			G1/100
BL (0°-30°)	129.9	4.5	B1/500		
BM (30°-60°)	167.1	5.8	B0/220		
BH (60°-80°)	75.8	2.6	B0/110		G0/110
BVH (80°-90°)	2.4	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°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1127.6	1140.9	1128.4	1084.8	1077.0	1055.9	1024.0	1021.6	988.1	992.0	974.1
5°	1059.8	1073.1	1046.6	988.9	935.1	892.3	866.6	820.6	810.5	787.9	787.9
7.5°	990.5	989.7	944.5	896.2	815.9	737.2	701.4	635.1	596.2	575.1	554.9
10°	932.8	920.3	892.3	792.5	705.3	623.4	579.0	535.4	494.8	459.8	424.7
12.5°	892.3	900.1	855.7	747.3	634.3	577.5	529.9	483.9	435.6	395.9	356.9
15°	913.3	900.9	848.6	737.2	622.6	544.7	481.6	425.5	371.7	319.5	289.9
17.5°	978.8	946.8	885.3	737.2	598.5	494.8	418.5	352.2	294.6	247.8	211.2
20°	1066.8	1030.2	964.0	764.5	580.6	458.2	353.8	270.4	210.4	166.8	138.7
22.5°	1157.2	1128.4	1028.7	775.4	559.5	409.1	279.0	195.6	140.3	112.2	98.2
25°	1265.6	1225.0	1115.9	819.0	528.4	361.6	219.8	136.4	104.4	89.6	81.0
27.5°	1352.1	1345.0	1197.8	845.5	505.0	322.6	173.8	108.3	86.5	75.6	70.1
30°	1461.2	1423.0	1297.5	898.5	478.5	278.2	144.9	97.4	79.5	67.8	63.9
32.5°	1526.6	1508.7	1349.7	928.1	448.9	241.6	124.7	85.7	72.5	63.9	60.0
35°	1621.7	1585.8	1424.5	946.8	433.3	220.5	112.2	77.9	60.8	52.2	47.5
37.5°	1727.7	1714.4	1514.2	946.1	410.7	208.1	103.6	72.5	57.7	48.3	42.9
40°	1836.0	1782.2	1568.7	967.9	399.0	198.7	97.4	69.4	54.6	46.0	39.0
42.5°	1917.0	1855.5	1631.8	960.1	385.0	182.4	95.1	64.7	52.2	42.1	35.8
45°	1938.9	1917.0	1688.7	957.7	374.8	169.1	91.2	63.9	50.7	39.7	33.5
47.5°	1980.9	1966.1	1758.8	961.6	367.0	159.0	81.8	65.5	48.3	37.4	32.0
50°	1999.6	1973.2	1815.7	971.0	349.1	146.5	73.3	68.6	47.5	36.6	30.4
52.5°	2076.8	2053.4	1893.7	997.5	334.3	130.1	64.7	65.5	49.1	34.3	28.8
55°	2152.4	2125.9	2013.7	1058.3	313.3	116.9	55.3	57.7	46.8	31.2	25.7
57.5°	2256.0	2212.4	2093.9	1083.2	294.6	99.0	49.1	47.5	43.6	28.1	22.6
60°	2271.6	2289.5	2082.3	1067.6	275.1	87.3	42.9	36.6	46.8	24.9	19.5
62.5°	2323.8	2249.0	2027.7	1031.8	261.1	80.3	38.2	30.4	40.5	21.8	16.4
65°	2223.3	2168.0	1899.9	916.4	243.1	81.0	33.5	24.9	25.7	17.9	13.2
67.5°	2076.0	2032.4	1687.9	791.0	225.2	79.5	29.6	21.8	19.5	15.6	11.7
70°	1822.0	1727.7	1433.9	642.1	198.7	74.0	24.9	19.5	16.4	12.5	8.6
72.5°	1325.6	1287.4	1028.7	496.4	178.5	67.0	23.4	16.4	14.0	9.4	7.0
75°	892.3	829.2	649.1	325.7	143.4	58.4	19.5	14.8	10.9	7.0	5.5
77.5°	471.5	445.8	367.8	155.1	79.5	27.3	10.9	8.6	6.2	5.5	3.1
80°	204.2	181.6	159.0	63.1	28.1	12.5	7.0	4.7	3.9	3.1	1.6
82.5°	104.4	99.7	82.6	27.3	16.4	9.4	3.9	3.1	2.3	1.6	0.8
85°	51.4	53.0	43.6	8.6	9.4	5.5	0.8	0.8	0.0	0.0	0.0
87.5°	3.9	3.9	3.1	1.6	2.3	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°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	967.1	978.0	959.3	971.0	965.5	967.9	970.2	964.0	965.5	987.4	988.1
5°	774.6	795.7	787.9	798.8	817.5	808.1	816.7	815.1	816.7	819.8	833.8
7.5°	552.5	546.3	561.1	589.9	623.4	643.7	633.6	628.1	625.0	617.2	626.5
10°	416.9	413.8	409.9	418.5	440.3	462.9	475.4	454.3	442.6	427.8	422.4
12.5°	346.0	326.5	315.6	302.4	308.6	328.9	329.6	309.4	290.7	282.9	291.5
15°	272.8	259.5	240.0	221.3	212.0	227.6	214.3	194.8	170.7	167.5	166.8
17.5°	194.8	187.0	173.0	165.2	154.3	150.4	136.4	106.8	89.6	84.9	86.5
20°	132.5	126.2	125.5	118.5	113.8	110.7	88.1	68.6	63.1	63.9	64.7
22.5°	98.2	95.1	91.2	90.4	86.5	82.6	64.7	57.7	53.8	53.8	56.1
25°	80.3	78.7	74.8	73.3	71.7	66.2	54.6	49.1	47.5	46.0	48.3
27.5°	68.6	67.8	65.5	63.1	61.6	56.1	47.5	42.9	41.3	41.3	41.3
30°	61.6	61.6	58.4	53.8	53.8	47.5	40.5	37.4	35.8	35.8	35.1
32.5°	57.7	56.1	52.2	49.1	46.8	40.5	35.8	32.7	30.4	30.4	31.2
35°	46.8	46.8	46.0	43.6	40.5	34.3	30.4	27.3	25.7	24.9	25.7
37.5°	41.3	39.0	35.8	36.6	35.1	29.6	25.7	23.4	21.0	21.0	21.0
40°	37.4	35.1	32.0	29.6	28.8	26.5	22.6	18.7	16.4	15.6	15.6
42.5°	33.5	32.0	27.3	23.4	22.6	22.6	17.1	14.0	11.7	11.7	11.7
45°	31.2	28.8	24.9	20.3	16.4	17.1	14.0	10.1	8.6	7.8	7.8
47.5°	29.6	27.3	21.8	17.1	12.5	12.5	10.1	7.0	5.5	4.7	4.7
50°	27.3	24.9	19.5	14.0	9.4	7.8	6.2	3.9	2.3	1.6	1.6
52.5°	25.7	23.4	17.1	11.7	7.8	5.5	3.9	0.8	0.0	0.0	0.0
55°	23.4	20.3	14.8	9.4	6.2	3.1	0.8	0.0	0.0	0.0	0.0
57.5°	20.3	17.9	11.7	7.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0
60°	17.1	14.8	9.4	5.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14.0	12.5	7.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.7	9.4	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10.1	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.8	5.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.5	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	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°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	991.3	1014.6	1036.5	1042.7	1059.8	1107.4	1107.4	1130.0	1170.5	1185.3	1188.4
5°	836.2	861.1	865.8	914.1	936.7	985.0	1017.0	1093.3	1139.3	1168.1	1186.1
7.5°	635.9	644.5	662.4	707.6	752.0	810.5	871.2	968.7	1049.7	1082.4	1143.2
10°	437.2	462.9	501.9	542.4	611.7	676.4	755.1	847.1	946.8	987.4	1039.6
12.5°	294.6	330.4	392.8	450.4	514.3	579.8	654.6	777.7	890.7	946.8	999.0
15°	172.2	215.9	269.6	363.1	448.1	521.3	596.2	720.8	858.0	930.5	994.4
17.5°	87.3	100.5	144.9	226.0	338.2	458.2	569.7	728.6	882.9	971.8	1024.8
20°	65.5	69.4	81.8	120.0	231.4	378.7	544.7	740.3	952.3	1060.6	1089.4
22.5°	56.9	60.0	65.5	77.9	130.1	289.9	509.7	769.2	1046.6	1148.7	1209.5
25°	48.3	51.4	56.1	63.9	83.4	197.2	466.8	799.5	1130.7	1259.3	1316.2
27.5°	42.1	44.4	49.1	55.3	67.8	125.5	392.8	840.1	1259.3	1393.4	1408.2
30°	35.8	38.2	42.1	49.1	57.7	88.8	288.3	845.5	1330.2	1451.8	1493.1
32.5°	31.2	32.0	36.6	42.9	48.3	70.1	202.6	851.0	1382.5	1527.4	1536.0
35°	25.7	27.3	32.0	35.8	42.1	55.3	153.5	823.7	1450.3	1605.3	1603.0
37.5°	21.0	23.4	26.5	29.6	34.3	46.8	122.3	773.1	1535.2	1726.1	1652.9
40°	16.4	18.7	21.8	25.7	28.8	42.1	92.0	696.7	1624.0	1785.3	1707.4
42.5°	11.7	13.2	16.4	20.3	25.7	35.1	66.2	606.3	1659.1	1854.7	1772.9
45°	8.6	10.1	12.5	17.1	26.5	28.1	46.0	523.7	1696.5	1885.1	1758.1
47.5°	4.7	6.2	9.4	14.8	23.4	21.0	32.7	449.6	1739.4	1912.4	1769.8
50°	1.6	2.3	5.5	15.6	18.7	16.4	25.7	409.9	1781.4	1917.8	1793.1
52.5°	0.0	0.0	3.1	16.4	14.0	12.5	22.6	394.3	1770.5	1935.0	1778.3
55°	0.0	0.0	0.8	7.0	7.8	9.4	18.7	393.5	1847.7	1940.4	1859.4
57.5°	0.0	0.0	0.0	2.3	4.7	7.8	16.4	368.6	1896.8	2076.0	1968.5
60°	0.0	0.0	0.0	0.8	3.1	5.5	12.5	346.8	1946.7	2136.8	2085.4
62.5°	0.0	0.0	0.0	0.0	0.8	2.3	8.6	313.3	1846.1	2132.1	2198.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	247.8	1660.7	2020.7	2136.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	171.4	1454.1	1880.4	2021.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.6	1173.6	1649.0	1714.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	837.7	1309.2	1406.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	518.2	957.0	1077.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	335.9	724.7	817.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	179.2	454.3	528.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.9	275.9	317.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	167.5	190.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	34.3
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°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1190.0	1212.6	1221.1	1207.9	1209.5	1182.2	1178.3	1140.1	1124.5	1127.6
5°	1244.5	1277.2	1295.2	1280.4	1246.9	1194.6	1147.1	1101.9	1073.9	1059.8
7.5°	1232.1	1268.7	1291.3	1305.3	1267.1	1183.0	1110.5	1025.5	989.7	990.5
10°	1163.5	1239.8	1285.8	1267.9	1250.0	1165.8	1053.6	961.6	929.7	932.8
12.5°	1108.1	1193.1	1220.4	1234.4	1197.8	1130.7	1055.2	949.9	914.1	892.3
15°	1073.9	1137.0	1138.5	1160.4	1145.6	1145.6	1071.5	968.7	937.5	913.3
17.5°	1073.9	1087.9	1086.3	1094.1	1119.1	1148.7	1112.8	1044.2	982.7	978.8
20°	1098.0	1054.4	1044.2	1047.4	1068.4	1156.5	1204.0	1118.3	1079.3	1066.8
22.5°	1154.1	1058.3	996.7	985.8	1050.5	1155.7	1262.4	1235.2	1167.4	1157.2
25°	1231.3	1051.3	984.2	970.2	1019.3	1183.7	1342.7	1348.2	1286.6	1265.6
27.5°	1304.5	1082.4	982.7	979.6	1044.2	1177.5	1398.0	1438.6	1369.2	1352.1
30°	1329.5	1113.6	1011.5	970.2	1053.6	1200.1	1396.5	1502.5	1457.3	1461.2
32.5°	1359.1	1144.8	1014.6	998.3	1093.3	1236.7	1440.9	1605.3	1572.6	1526.6
35°	1402.7	1186.9	1044.2	1029.4	1121.4	1269.5	1450.3	1680.9	1675.5	1621.7
37.5°	1440.1	1228.2	1105.8	1108.1	1207.1	1322.4	1491.6	1773.7	1764.3	1727.7
40°	1466.6	1285.8	1201.7	1207.9	1281.9	1381.7	1564.8	1820.4	1889.8	1836.0
42.5°	1470.5	1337.3	1311.5	1361.4	1430.8	1473.6	1594.4	1852.4	1952.1	1917.0
45°	1485.3	1419.1	1490.8	1527.4	1584.3	1554.7	1592.9	1906.9	1956.8	1938.9
47.5°	1543.0	1567.9	1658.3	1769.8	1790.0	1692.6	1630.3	1915.5	1983.3	1980.9
50°	1603.0	1727.7	1854.7	1928.7	1954.4	1787.7	1665.3	1908.5	2018.4	1999.6
52.5°	1670.0	1866.4	2049.5	2140.7	2126.7	1892.9	1705.1	1965.4	2083.0	2076.8
55°	1712.1	1928.7	2175.0	2302.0	2291.1	2010.6	1831.3	2047.2	2168.0	2152.4
57.5°	1823.5	2030.0	2299.7	2358.9	2387.7	2164.9	1919.4	2181.2	2238.9	2256.0
60°	1915.5	2096.3	2332.4	2418.1	2428.3	2256.8	2073.7	2319.2	2329.3	2271.6
62.5°	2050.3	2122.0	2263.0	2340.2	2392.4	2309.0	2212.4	2393.2	2327.7	2323.8
65°	2149.3	2037.8	2133.7	2176.5	2210.1	2229.5	2351.9	2443.8	2298.9	2223.3
67.5°	2093.9	1878.9	1860.9	1863.3	1873.4	1991.1	2305.1	2319.9	2138.4	2076.0
70°	1843.0	1541.4	1517.3	1536.0	1485.3	1627.1	2115.8	2108.7	1886.7	1822.0
72.5°	1490.8	1123.7	1082.4	1108.1	1119.8	1270.2	1779.9	1599.1	1376.2	1325.6
75°	1184.5	823.7	695.1	757.5	797.2	925.0	1390.2	1086.3	960.9	892.3
77.5°	930.5	623.4	540.8	515.9	552.5	672.5	1011.5	570.4	503.4	471.5
80°	589.9	458.2	497.2	461.3	476.9	480.0	526.8	259.5	206.5	204.2
82.5°	355.4	313.3	372.5	205.0	373.3	333.5	219.0	117.7	104.4	104.4
85°	251.7	194.0	128.6	83.4	166.0	183.1	84.9	60.8	53.0	51.4
87.5°	126.2	60.0	28.8	18.7	21.0	34.3	10.1	4.7	4.7	3.9
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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