

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: P677483

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677483
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2677.3 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

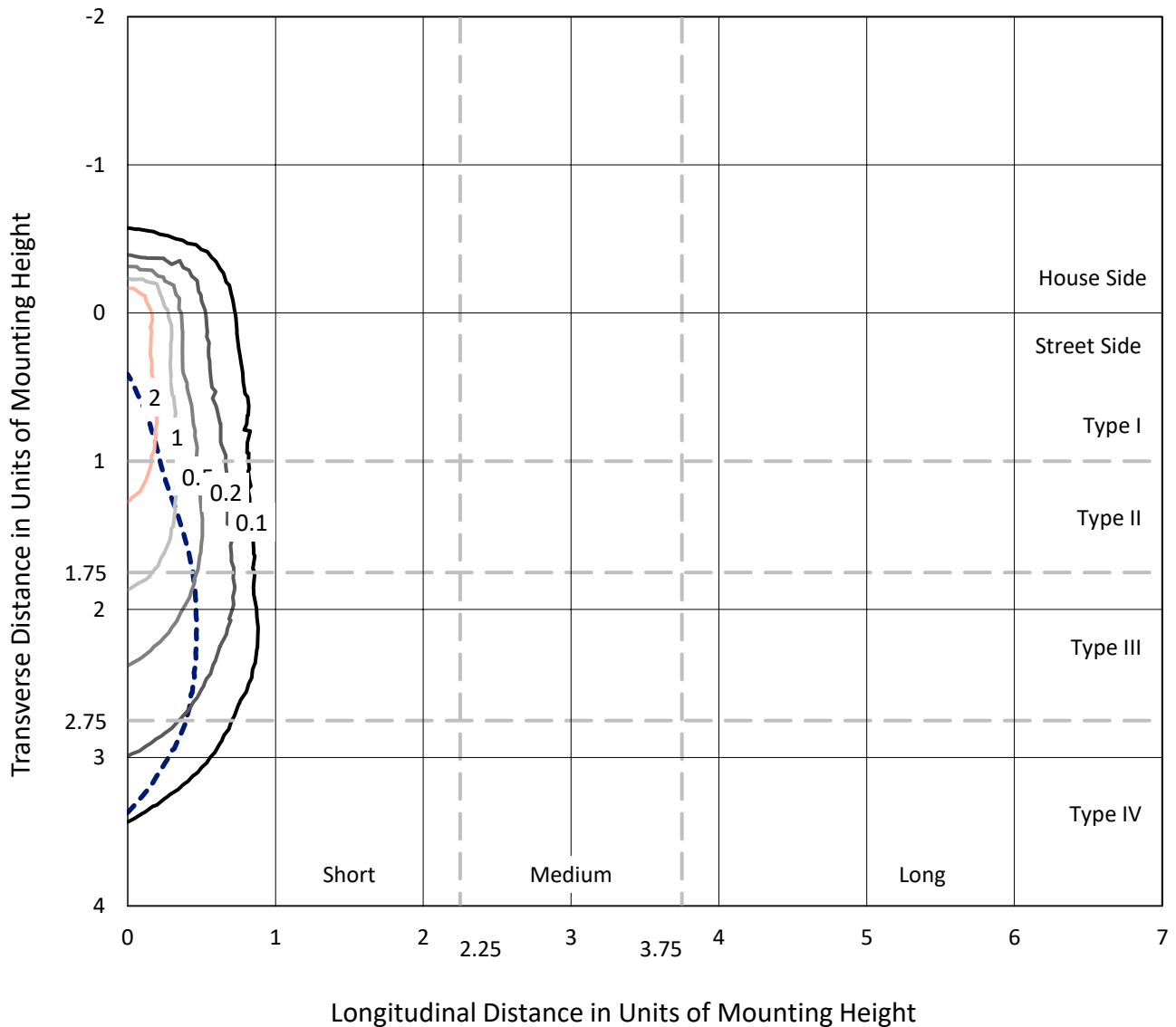
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

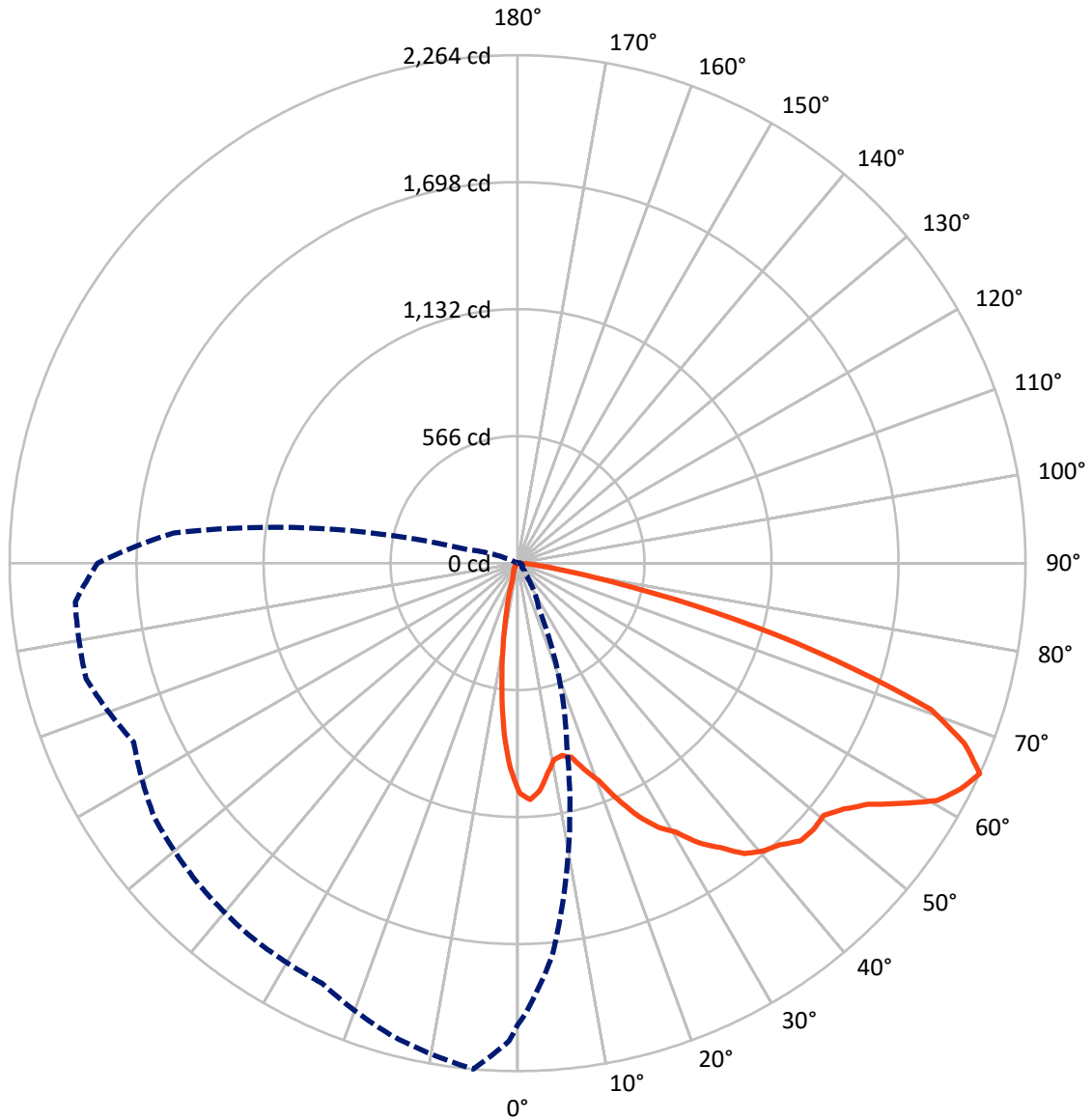
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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	347.6	0.0	347.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2329.7	0.0	2329.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	2677.3	0.0	2677.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	2.9
10°-20°	150.1	5.6
20°-30°	209.1	7.8
30°-40°	297.1	11.1
40°-50°	412.0	15.4
50°-60°	561.4	21.0
60°-70°	617.2	23.1
70°-80°	303.3	11.3
80°-90°	49.5	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°	2677.3	100.0
0°-180°	2677.3	100.0



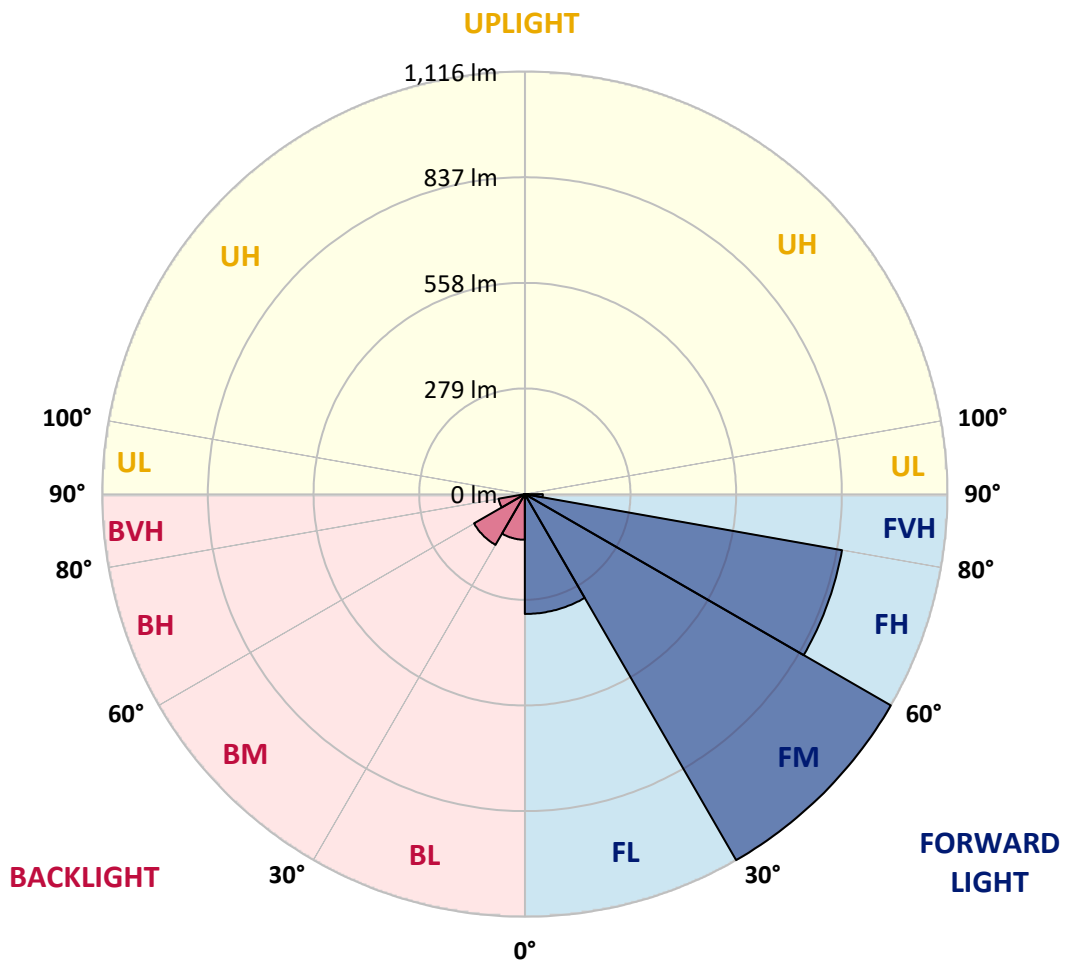
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.4	11.8			
FM (30°-60°)	1115.7	41.7			
FH (60°-80°)	850.3	31.8			G1/1800
FVH (80°-90°)	47.3	1.8			G1/100
BL (0°-30°)	120.4	4.5	B1/500		
BM (30°-60°)	154.8	5.8	B0/220		
BH (60°-80°)	70.3	2.6	B0/110		G0/110
BVH (80°-90°)	2.2	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°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	1044.5	1056.7	1045.2	1004.8	997.5	978.0	948.5	946.3	915.3	918.9	902.3
5°	981.7	993.9	969.4	916.0	866.2	826.5	802.6	760.1	750.7	729.7	729.7
7.5°	917.4	916.7	874.8	830.1	755.7	682.8	649.6	588.3	552.2	532.7	513.9
10°	864.0	852.5	826.5	734.1	653.2	577.4	536.3	495.9	458.3	425.9	393.4
12.5°	826.5	833.7	792.5	692.2	587.6	534.9	490.8	448.2	403.5	366.7	330.6
15°	846.0	834.4	786.0	682.8	576.7	504.5	446.1	394.1	344.3	295.9	268.5
17.5°	906.6	877.0	820.0	682.8	554.3	458.3	387.6	326.3	272.8	229.5	195.6
20°	988.2	954.2	892.9	708.1	537.7	424.4	327.7	250.5	194.9	154.5	128.5
22.5°	1071.9	1045.2	952.8	718.2	518.3	378.9	258.4	181.2	129.9	103.9	90.9
25°	1172.2	1134.7	1033.6	758.6	489.4	334.9	203.5	126.3	96.7	83.0	75.1
27.5°	1252.3	1245.8	1109.4	783.2	467.7	298.8	161.0	100.3	80.1	70.0	65.0
30°	1353.4	1318.0	1201.8	832.2	443.2	257.7	134.3	90.2	73.6	62.8	59.2
32.5°	1414.0	1397.4	1250.2	859.7	415.8	223.8	115.5	79.4	67.1	59.2	55.6
35°	1502.1	1468.9	1319.5	877.0	401.3	204.3	103.9	72.2	56.3	48.4	44.0
37.5°	1600.2	1588.0	1402.5	876.3	380.4	192.7	96.0	67.1	53.4	44.8	39.7
40°	1700.6	1650.8	1453.0	896.5	369.6	184.1	90.2	64.2	50.5	42.6	36.1
42.5°	1775.6	1718.6	1511.5	889.3	356.6	168.9	88.1	59.9	48.4	39.0	33.2
45°	1795.9	1775.6	1564.2	887.1	347.2	156.6	84.5	59.2	46.9	36.8	31.0
47.5°	1834.8	1821.1	1629.1	890.7	340.0	147.2	75.8	60.6	44.8	34.6	29.6
50°	1852.2	1827.6	1681.8	899.4	323.4	135.7	67.8	63.5	44.0	33.9	28.2
52.5°	1923.6	1902.0	1754.0	923.9	309.7	120.5	59.9	60.6	45.5	31.8	26.7
55°	1993.6	1969.1	1865.1	980.2	290.2	108.3	51.2	53.4	43.3	28.9	23.8
57.5°	2089.6	2049.2	1939.5	1003.3	272.8	91.7	45.5	44.0	40.4	26.0	20.9
60°	2104.1	2120.7	1928.7	988.9	254.8	80.8	39.7	33.9	43.3	23.1	18.0
62.5°	2152.4	2083.1	1878.1	955.7	241.8	74.3	35.4	28.2	37.5	20.2	15.2
65°	2059.3	2008.1	1759.8	848.8	225.2	75.1	31.0	23.1	23.8	16.6	12.3
67.5°	1922.9	1882.5	1563.4	732.6	208.6	73.6	27.4	20.2	18.0	14.4	10.8
70°	1687.6	1600.2	1328.1	594.8	184.1	68.6	23.1	18.0	15.2	11.5	7.9
72.5°	1227.8	1192.4	952.8	459.8	165.3	62.1	21.7	15.2	13.0	8.7	6.5
75°	826.5	768.0	601.3	301.7	132.8	54.1	18.0	13.7	10.1	6.5	5.1
77.5°	436.7	412.9	340.7	143.6	73.6	25.3	10.1	7.9	5.8	5.1	2.9
80°	189.1	168.2	147.2	58.5	26.0	11.5	6.5	4.3	3.6	2.9	1.4
82.5°	96.7	92.4	76.5	25.3	15.2	8.7	3.6	2.9	2.2	1.4	0.7
85°	47.6	49.1	40.4	7.9	8.7	5.1	0.7	0.7	0.0	0.0	0.0
87.5°	3.6	3.6	2.9	1.4	2.2	0.7	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°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	895.8	905.9	888.5	899.4	894.3	896.5	898.6	892.9	894.3	914.5	915.3
5°	717.5	737.0	729.7	739.9	757.2	748.5	756.5	755.0	756.5	759.3	772.3
7.5°	511.8	506.0	519.7	546.4	577.4	596.2	586.8	581.8	578.9	571.7	580.3
10°	386.2	383.3	379.7	387.6	407.8	428.8	440.3	420.8	410.0	396.3	391.2
12.5°	320.5	302.4	292.3	280.1	285.8	304.6	305.3	286.6	269.2	262.0	270.0
15°	252.6	240.4	222.3	205.0	196.3	210.8	198.5	180.5	158.1	155.2	154.5
17.5°	180.5	173.2	160.2	153.0	142.9	139.3	126.3	98.9	83.0	78.7	80.1
20°	122.7	116.9	116.2	109.7	105.4	102.5	81.6	63.5	58.5	59.2	59.9
22.5°	90.9	88.1	84.5	83.7	80.1	76.5	59.9	53.4	49.8	49.8	52.0
25°	74.3	72.9	69.3	67.8	66.4	61.4	50.5	45.5	44.0	42.6	44.8
27.5°	63.5	62.8	60.6	58.5	57.0	52.0	44.0	39.7	38.3	38.3	38.3
30°	57.0	57.0	54.1	49.8	49.8	44.0	37.5	34.6	33.2	33.2	32.5
32.5°	53.4	52.0	48.4	45.5	43.3	37.5	33.2	30.3	28.2	28.2	28.9
35°	43.3	43.3	42.6	40.4	37.5	31.8	28.2	25.3	23.8	23.1	23.8
37.5°	38.3	36.1	33.2	33.9	32.5	27.4	23.8	21.7	19.5	19.5	19.5
40°	34.6	32.5	29.6	27.4	26.7	24.5	20.9	17.3	15.2	14.4	14.4
42.5°	31.0	29.6	25.3	21.7	20.9	20.9	15.9	13.0	10.8	10.8	10.8
45°	28.9	26.7	23.1	18.8	15.2	15.9	13.0	9.4	7.9	7.2	7.2
47.5°	27.4	25.3	20.2	15.9	11.5	11.5	9.4	6.5	5.1	4.3	4.3
50°	25.3	23.1	18.0	13.0	8.7	7.2	5.8	3.6	2.2	1.4	1.4
52.5°	23.8	21.7	15.9	10.8	7.2	5.1	3.6	0.7	0.0	0.0	0.0
55°	21.7	18.8	13.7	8.7	5.8	2.9	0.7	0.0	0.0	0.0	0.0
57.5°	18.8	16.6	10.8	6.5	3.6	0.7	0.0	0.0	0.0	0.0	0.0
60°	15.9	13.7	8.7	5.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13.0	11.5	6.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10.8	8.7	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.2	5.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	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°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	918.1	939.8	960.0	965.8	981.7	1025.7	1025.7	1046.6	1084.2	1097.9	1100.8
5°	774.5	797.6	801.9	846.7	867.6	912.4	942.0	1012.7	1055.3	1082.0	1098.6
7.5°	589.0	596.9	613.5	655.4	696.5	750.7	807.0	897.2	972.3	1002.6	1058.9
10°	404.9	428.8	464.8	502.4	566.6	626.5	699.4	784.6	877.0	914.5	962.9
12.5°	272.8	306.0	363.8	417.2	476.4	537.0	606.3	720.4	825.0	877.0	925.4
15°	159.5	199.9	249.7	336.4	415.0	482.9	552.2	667.7	794.7	861.8	921.0
17.5°	80.8	93.1	134.3	209.3	313.3	424.4	527.6	674.9	817.8	900.1	949.2
20°	60.6	64.2	75.8	111.2	214.4	350.8	504.5	685.7	882.0	982.4	1009.1
22.5°	52.7	55.6	60.6	72.2	120.5	268.5	472.1	712.4	969.4	1063.9	1120.2
25°	44.8	47.6	52.0	59.2	77.2	182.6	432.4	740.6	1047.3	1166.4	1219.1
27.5°	39.0	41.1	45.5	51.2	62.8	116.2	363.8	778.1	1166.4	1290.6	1304.3
30°	33.2	35.4	39.0	45.5	53.4	82.3	267.1	783.2	1232.1	1344.7	1383.0
32.5°	28.9	29.6	33.9	39.7	44.8	65.0	187.7	788.2	1280.5	1414.7	1422.7
35°	23.8	25.3	29.6	33.2	39.0	51.2	142.2	762.9	1343.3	1486.9	1484.8
37.5°	19.5	21.7	24.5	27.4	31.8	43.3	113.3	716.0	1422.0	1598.8	1531.0
40°	15.2	17.3	20.2	23.8	26.7	39.0	85.2	645.3	1504.2	1653.7	1581.5
42.5°	10.8	12.3	15.2	18.8	23.8	32.5	61.4	561.6	1536.7	1717.9	1642.1
45°	7.9	9.4	11.5	15.9	24.5	26.0	42.6	485.1	1571.4	1746.0	1628.4
47.5°	4.3	5.8	8.7	13.7	21.7	19.5	30.3	416.5	1611.1	1771.3	1639.2
50°	1.4	2.2	5.1	14.4	17.3	15.2	23.8	379.7	1650.0	1776.4	1660.9
52.5°	0.0	0.0	2.9	15.2	13.0	11.5	20.9	365.2	1639.9	1792.2	1647.2
55°	0.0	0.0	0.7	6.5	7.2	8.7	17.3	364.5	1711.4	1797.3	1722.2
57.5°	0.0	0.0	0.0	2.2	4.3	7.2	15.2	341.4	1756.9	1922.9	1823.3
60°	0.0	0.0	0.0	0.7	2.9	5.1	11.5	321.2	1803.1	1979.2	1931.6
62.5°	0.0	0.0	0.0	0.0	0.7	2.2	7.9	290.2	1710.0	1974.9	2036.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	229.5	1538.2	1871.6	1978.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	158.8	1346.9	1741.7	1872.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.0	1087.0	1527.3	1588.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.1	775.9	1212.6	1302.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	480.0	886.4	997.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	311.1	671.3	757.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	166.0	420.8	489.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.2	255.5	294.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	155.2	176.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	31.8
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°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	1102.2	1123.1	1131.1	1118.8	1120.2	1095.0	1091.4	1056.0	1041.6	1044.5
5°	1152.7	1183.0	1199.6	1185.9	1154.9	1106.5	1062.5	1020.6	994.6	981.7
7.5°	1141.2	1175.1	1196.0	1209.0	1173.7	1095.7	1028.6	949.9	916.7	917.4
10°	1077.7	1148.4	1191.0	1174.4	1157.8	1079.8	975.9	890.7	861.1	864.0
12.5°	1026.4	1105.1	1130.3	1143.3	1109.4	1047.3	977.3	879.9	846.7	826.5
15°	994.6	1053.1	1054.6	1074.8	1061.1	1061.1	992.5	897.2	868.3	846.0
17.5°	994.6	1007.6	1006.2	1013.4	1036.5	1063.9	1030.7	967.2	910.2	906.6
20°	1017.0	976.6	967.2	970.1	989.6	1071.2	1115.2	1035.8	999.7	988.2
22.5°	1069.0	980.2	923.2	913.1	973.0	1070.4	1169.3	1144.1	1081.3	1071.9
25°	1140.5	973.7	911.6	898.6	944.1	1096.4	1243.7	1248.7	1191.7	1172.2
27.5°	1208.3	1002.6	910.2	907.3	967.2	1090.6	1294.9	1332.5	1268.2	1252.3
30°	1231.4	1031.5	936.9	898.6	975.9	1111.6	1293.5	1391.6	1349.8	1353.4
32.5°	1258.8	1060.3	939.8	924.6	1012.7	1145.5	1334.6	1486.9	1456.6	1414.0
35°	1299.3	1099.3	967.2	953.5	1038.7	1175.8	1343.3	1556.9	1551.9	1502.1
37.5°	1333.9	1137.6	1024.2	1026.4	1118.1	1224.9	1381.5	1642.8	1634.2	1600.2
40°	1358.4	1191.0	1113.0	1118.8	1187.4	1279.8	1449.4	1686.1	1750.4	1700.6
42.5°	1362.0	1238.6	1214.8	1261.0	1325.2	1364.9	1476.8	1715.7	1808.1	1775.6
45°	1375.8	1314.4	1380.8	1414.7	1467.4	1440.0	1475.4	1766.3	1812.5	1795.9
47.5°	1429.2	1452.3	1536.0	1639.2	1658.0	1567.8	1510.0	1774.2	1837.0	1834.8
50°	1484.8	1600.2	1717.9	1786.5	1810.3	1655.8	1542.5	1767.7	1869.5	1852.2
52.5°	1546.8	1728.7	1898.4	1982.8	1969.8	1753.3	1579.3	1820.4	1929.4	1923.6
55°	1585.8	1786.5	2014.6	2132.2	2122.1	1862.3	1696.2	1896.2	2008.1	1993.6
57.5°	1689.0	1880.3	2130.1	2184.9	2211.6	2005.2	1777.8	2020.3	2073.7	2089.6
60°	1774.2	1941.7	2160.4	2239.8	2249.1	2090.4	1920.7	2148.1	2157.5	2104.1
62.5°	1899.1	1965.5	2096.1	2167.6	2215.9	2138.7	2049.2	2216.7	2156.0	2152.4
65°	1990.7	1887.5	1976.3	2016.0	2047.0	2065.1	2178.4	2263.6	2129.3	2059.3
67.5°	1939.5	1740.3	1723.7	1725.8	1735.2	1844.2	2135.1	2148.8	1980.6	1922.9
70°	1707.1	1427.7	1405.4	1422.7	1375.8	1507.1	1959.7	1953.2	1747.5	1687.6
72.5°	1380.8	1040.8	1002.6	1026.4	1037.2	1176.5	1648.6	1481.1	1274.7	1227.8
75°	1097.1	762.9	643.9	701.6	738.4	856.8	1287.7	1006.2	890.0	826.5
77.5°	861.8	577.4	500.9	477.8	511.8	622.9	936.9	528.4	466.3	436.7
80°	546.4	424.4	460.5	427.3	441.7	444.6	487.9	240.4	191.3	189.1
82.5°	329.1	290.2	345.0	189.8	345.7	308.9	202.8	109.0	96.7	96.7
85°	233.1	179.7	119.1	77.2	153.7	169.6	78.7	56.3	49.1	47.6
87.5°	116.9	55.6	26.7	17.3	19.5	31.8	9.4	4.3	4.3	3.6
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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