

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: P677428

Luminaire Tested: **CCW-SA-1C-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677428
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3249.1 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

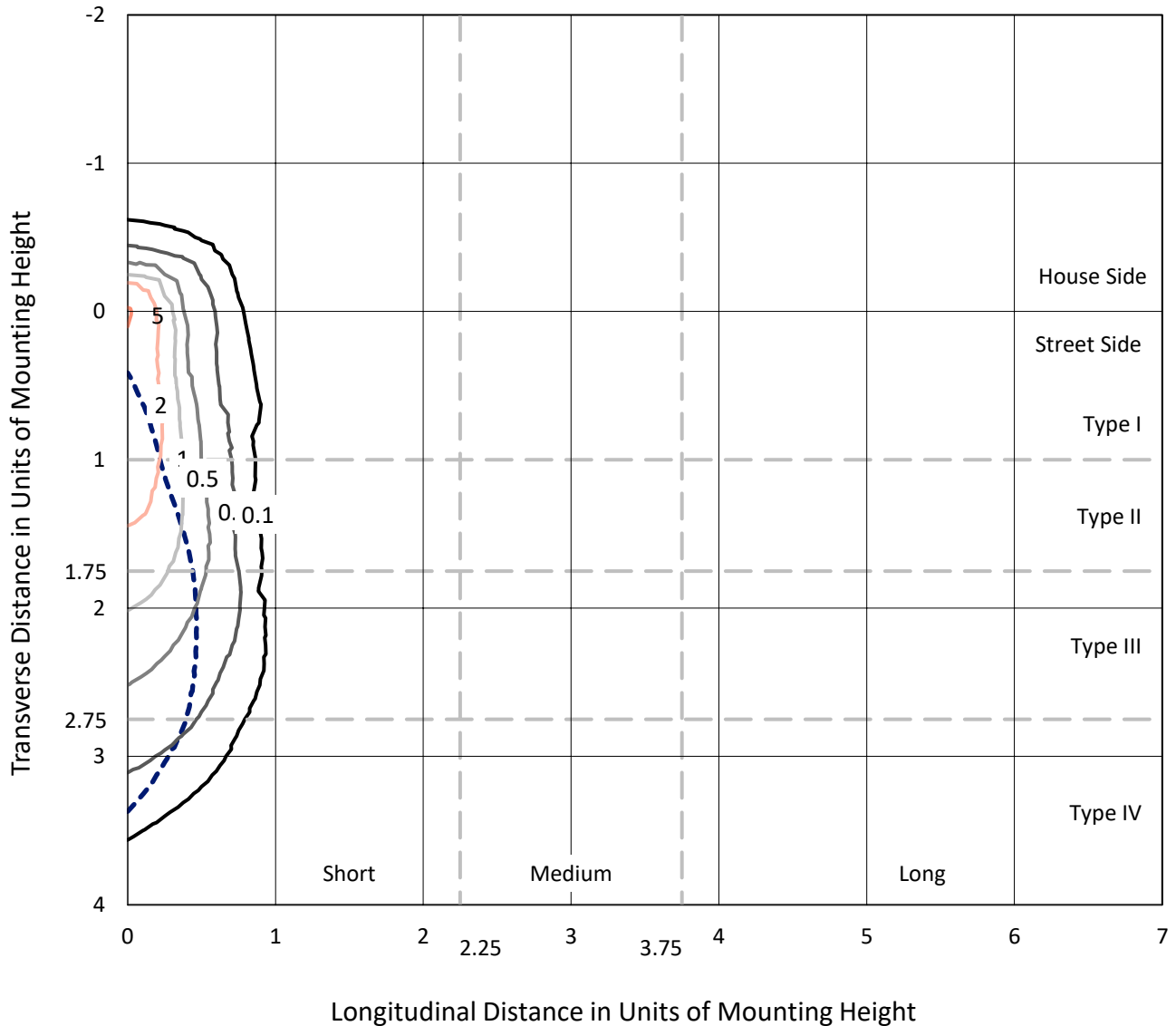
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

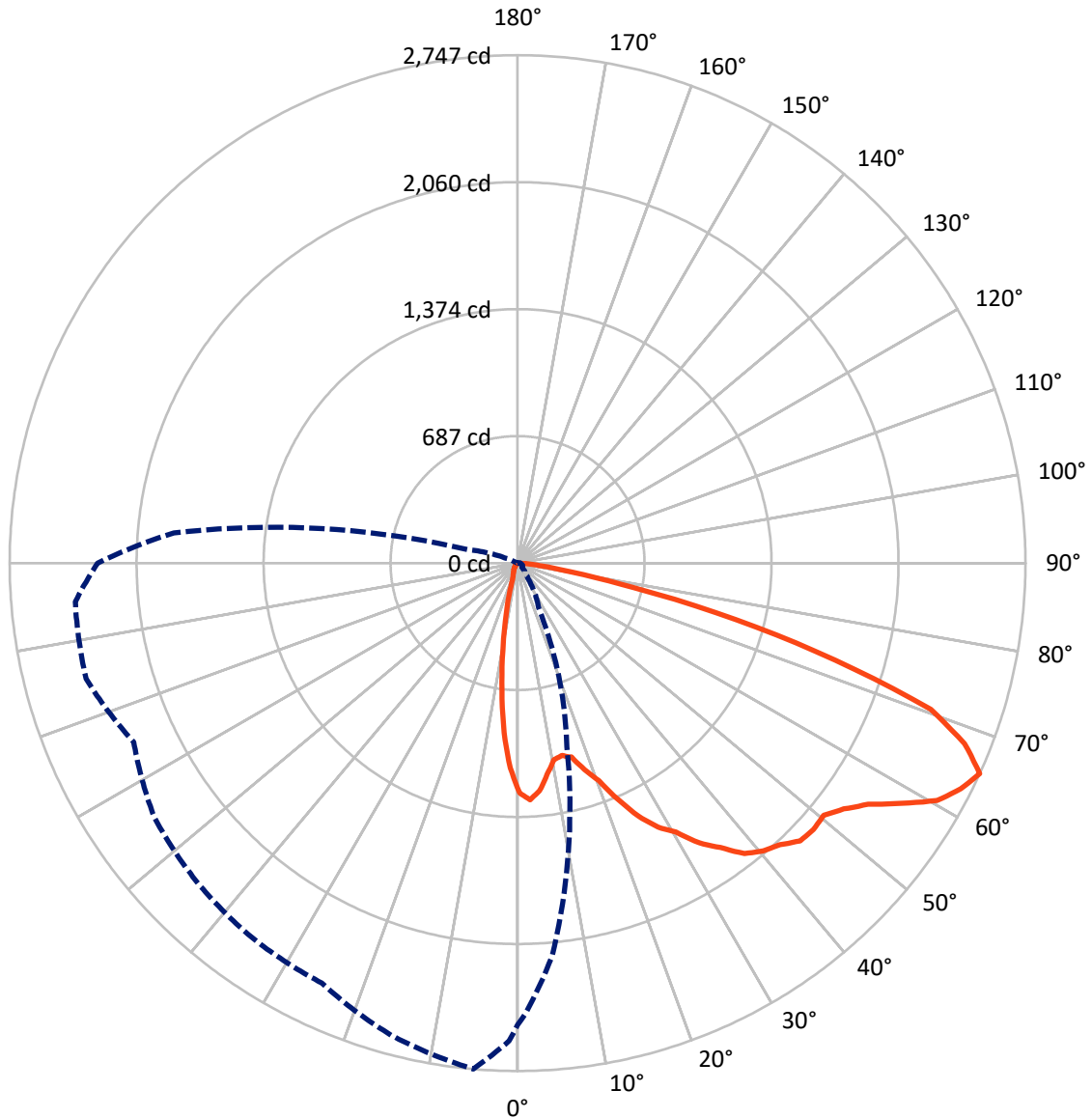
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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	421.9	0.0	421.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2827.3	0.0	2827.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	3249.1	0.0	3249.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	2.9
10°-20°	182.2	5.6
20°-30°	253.8	7.8
30°-40°	360.6	11.1
40°-50°	500.0	15.4
50°-60°	681.3	21.0
60°-70°	749.0	23.1
70°-80°	368.1	11.3
80°-90°	60.1	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°	3249.1	100.0
0°-180°	3249.1	100.0



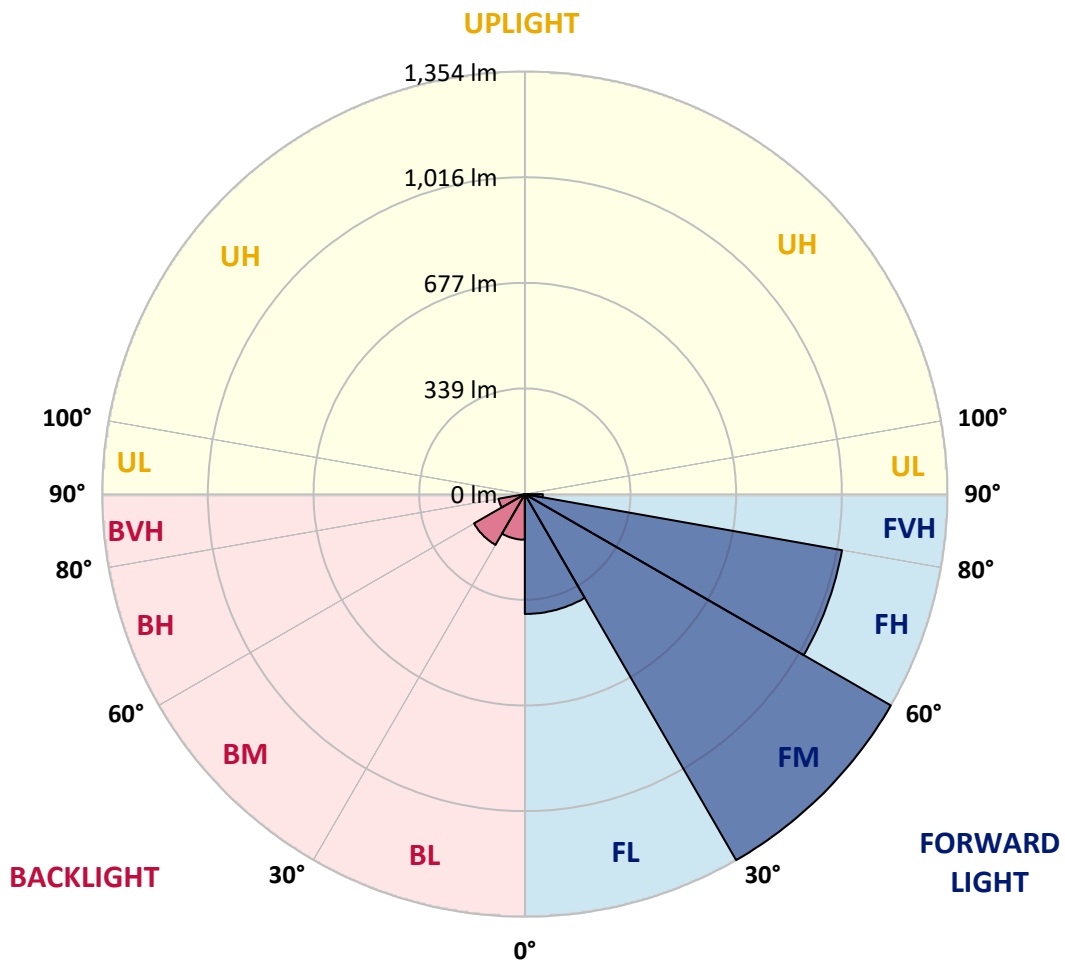
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.0	11.8			
FM (30°-60°)	1354.0	41.7			
FH (60°-80°)	1031.9	31.8			G1/1800
FVH (80°-90°)	57.4	1.8			G1/100
BL (0°-30°)	146.1	4.5	B1/500		
BM (30°-60°)	187.8	5.8	B0/220		
BH (60°-80°)	85.3	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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1267.5	1282.4	1268.4	1219.4	1210.6	1187.0	1151.0	1148.4	1110.7	1115.1	1095.0
5°	1191.3	1206.2	1176.4	1111.6	1051.2	1003.0	974.1	922.4	911.0	885.6	885.6
7.5°	1113.4	1112.5	1061.7	1007.4	917.1	828.7	788.4	713.9	670.1	646.5	623.7
10°	1048.5	1034.5	1003.0	890.9	792.8	700.8	650.9	601.8	556.2	516.8	477.4
12.5°	1003.0	1011.8	961.8	840.1	713.0	649.1	595.7	544.0	489.7	445.0	401.2
15°	1026.6	1012.6	953.9	828.7	699.9	612.3	541.4	478.3	417.8	359.2	325.9
17.5°	1100.2	1064.3	995.1	828.7	672.8	556.2	470.4	395.9	331.1	278.6	237.4
20°	1199.2	1158.0	1083.6	859.3	652.6	515.1	397.7	304.0	236.5	187.5	155.9
22.5°	1300.8	1268.4	1156.3	871.6	629.0	459.9	313.6	219.9	157.7	126.1	110.4
25°	1422.6	1377.0	1254.4	920.7	593.9	406.5	247.0	153.3	117.4	100.7	91.1
27.5°	1519.8	1511.9	1346.4	950.4	567.6	362.7	195.3	121.8	97.2	85.0	78.8
30°	1642.5	1599.5	1458.5	1010.0	537.9	312.7	162.9	109.5	89.3	76.2	71.8
32.5°	1716.0	1695.9	1517.2	1043.3	504.6	271.6	140.2	96.4	81.5	71.8	67.5
35°	1822.9	1782.6	1601.3	1064.3	487.0	247.9	126.1	87.6	68.3	58.7	53.4
37.5°	1942.0	1927.2	1702.0	1063.4	461.6	233.9	116.5	81.5	64.8	54.3	48.2
40°	2063.8	2003.4	1763.3	1088.0	448.5	223.4	109.5	78.0	61.3	51.7	43.8
42.5°	2154.9	2085.7	1834.3	1079.2	432.7	205.0	106.9	72.7	58.7	47.3	40.3
45°	2179.4	2154.9	1898.2	1076.6	421.3	190.1	102.5	71.8	56.9	44.7	37.7
47.5°	2226.7	2210.1	1977.1	1081.0	412.6	178.7	92.0	73.6	54.3	42.0	35.9
50°	2247.8	2218.0	2041.0	1091.5	392.4	164.7	82.3	77.1	53.4	41.2	34.2
52.5°	2334.5	2308.2	2128.6	1121.3	375.8	146.3	72.7	73.6	55.2	38.5	32.4
55°	2419.5	2389.7	2263.5	1189.6	352.1	131.4	62.2	64.8	52.6	35.0	28.9
57.5°	2536.0	2486.9	2353.8	1217.6	331.1	111.2	55.2	53.4	49.1	31.5	25.4
60°	2553.5	2573.6	2340.6	1200.1	309.2	98.1	48.2	41.2	52.6	28.0	21.9
62.5°	2612.2	2528.1	2279.3	1159.8	293.5	90.2	42.9	34.2	45.6	24.5	18.4
65°	2499.2	2437.0	2135.6	1030.2	273.3	91.1	37.7	28.0	28.9	20.1	14.9
67.5°	2333.6	2284.6	1897.4	889.1	253.2	89.3	33.3	24.5	21.9	17.5	13.1
70°	2048.0	1942.0	1611.8	721.8	223.4	83.2	28.0	21.9	18.4	14.0	9.6
72.5°	1490.0	1447.1	1156.3	558.0	200.6	75.3	26.3	18.4	15.8	10.5	7.9
75°	1003.0	932.0	729.7	366.2	161.2	65.7	21.9	16.6	12.3	7.9	6.1
77.5°	530.0	501.1	413.5	174.3	89.3	30.7	12.3	9.6	7.0	6.1	3.5
80°	229.5	204.1	178.7	71.0	31.5	14.0	7.9	5.3	4.4	3.5	1.8
82.5°	117.4	112.1	92.9	30.7	18.4	10.5	4.4	3.5	2.6	1.8	0.9
85°	57.8	59.6	49.1	9.6	10.5	6.1	0.9	0.9	0.0	0.0	0.0
87.5°	4.4	4.4	3.5	1.8	2.6	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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1087.1	1099.4	1078.3	1091.5	1085.3	1088.0	1090.6	1083.6	1085.3	1109.9	1110.7
5°	870.7	894.4	885.6	897.9	918.9	908.4	918.0	916.3	918.0	921.5	937.3
7.5°	621.1	614.1	630.7	663.1	700.8	723.6	712.2	706.0	702.5	693.8	704.3
10°	468.6	465.1	460.8	470.4	494.9	520.3	534.3	510.7	497.6	480.9	474.8
12.5°	388.9	367.0	354.8	339.9	346.9	369.7	370.5	347.8	326.7	318.0	327.6
15°	306.6	291.7	269.8	248.8	238.3	255.8	240.9	219.0	191.8	188.3	187.5
17.5°	219.0	210.2	194.5	185.7	173.4	169.1	153.3	120.0	100.7	95.5	97.2
20°	148.9	141.9	141.0	133.1	127.9	124.4	99.0	77.1	71.0	71.8	72.7
22.5°	110.4	106.9	102.5	101.6	97.2	92.9	72.7	64.8	60.4	60.4	63.1
25°	90.2	88.5	84.1	82.3	80.6	74.5	61.3	55.2	53.4	51.7	54.3
27.5°	77.1	76.2	73.6	71.0	69.2	63.1	53.4	48.2	46.4	46.4	46.4
30°	69.2	69.2	65.7	60.4	60.4	53.4	45.6	42.0	40.3	40.3	39.4
32.5°	64.8	63.1	58.7	55.2	52.6	45.6	40.3	36.8	34.2	34.2	35.0
35°	52.6	52.6	51.7	49.1	45.6	38.5	34.2	30.7	28.9	28.0	28.9
37.5°	46.4	43.8	40.3	41.2	39.4	33.3	28.9	26.3	23.7	23.7	23.7
40°	42.0	39.4	35.9	33.3	32.4	29.8	25.4	21.0	18.4	17.5	17.5
42.5°	37.7	35.9	30.7	26.3	25.4	25.4	19.3	15.8	13.1	13.1	13.1
45°	35.0	32.4	28.0	22.8	18.4	19.3	15.8	11.4	9.6	8.8	8.8
47.5°	33.3	30.7	24.5	19.3	14.0	14.0	11.4	7.9	6.1	5.3	5.3
50°	30.7	28.0	21.9	15.8	10.5	8.8	7.0	4.4	2.6	1.8	1.8
52.5°	28.9	26.3	19.3	13.1	8.8	6.1	4.4	0.9	0.0	0.0	0.0
55°	26.3	22.8	16.6	10.5	7.0	3.5	0.9	0.0	0.0	0.0	0.0
57.5°	22.8	20.1	13.1	7.9	4.4	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.3	16.6	10.5	6.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15.8	14.0	7.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.1	10.5	6.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.4	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.8	6.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.1	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1114.2	1140.5	1165.1	1172.1	1191.3	1244.8	1244.8	1270.2	1315.7	1332.4	1335.9
5°	939.9	968.0	973.2	1027.5	1052.9	1107.2	1143.2	1229.0	1280.7	1313.1	1333.2
7.5°	714.8	724.4	744.6	795.4	845.3	911.0	979.3	1088.8	1179.9	1216.7	1285.1
10°	491.4	520.3	564.1	609.7	687.6	760.3	848.8	952.2	1064.3	1109.9	1168.6
12.5°	331.1	371.4	441.5	506.3	578.1	651.7	735.8	874.2	1001.2	1064.3	1123.0
15°	193.6	242.6	303.1	408.2	503.7	586.0	670.1	810.3	964.5	1045.9	1117.7
17.5°	98.1	113.0	162.9	254.0	380.2	515.1	640.3	819.0	992.5	1092.3	1151.9
20°	73.6	78.0	92.0	134.9	260.2	425.7	612.3	832.2	1070.4	1192.2	1224.6
22.5°	63.9	67.5	73.6	87.6	146.3	325.9	572.9	864.6	1176.4	1291.2	1359.5
25°	54.3	57.8	63.1	71.8	93.7	221.6	524.7	898.8	1271.0	1415.6	1479.5
27.5°	47.3	49.9	55.2	62.2	76.2	141.0	441.5	944.3	1415.6	1566.2	1582.9
30°	40.3	42.9	47.3	55.2	64.8	99.9	324.1	950.4	1495.3	1631.9	1678.4
32.5°	35.0	35.9	41.2	48.2	54.3	78.8	227.8	956.6	1554.0	1716.9	1726.6
35°	28.9	30.7	35.9	40.3	47.3	62.2	172.6	925.9	1630.2	1804.5	1801.9
37.5°	23.7	26.3	29.8	33.3	38.5	52.6	137.5	869.0	1725.7	1940.3	1858.0
40°	18.4	21.0	24.5	28.9	32.4	47.3	103.4	783.1	1825.5	2006.9	1919.3
42.5°	13.1	14.9	18.4	22.8	28.9	39.4	74.5	681.5	1865.0	2084.8	1992.9
45°	9.6	11.4	14.0	19.3	29.8	31.5	51.7	588.7	1907.0	2119.0	1976.2
47.5°	5.3	7.0	10.5	16.6	26.3	23.7	36.8	505.4	1955.2	2149.7	1989.3
50°	1.8	2.6	6.1	17.5	21.0	18.4	28.9	460.8	2002.5	2155.8	2015.6
52.5°	0.0	0.0	3.5	18.4	15.8	14.0	25.4	443.2	1990.2	2175.1	1999.0
55°	0.0	0.0	0.9	7.9	8.8	10.5	21.0	442.4	2076.9	2181.2	2090.1
57.5°	0.0	0.0	0.0	2.6	5.3	8.8	18.4	414.3	2132.1	2333.6	2212.7
60°	0.0	0.0	0.0	0.9	3.5	6.1	14.0	389.8	2188.2	2401.9	2344.1
62.5°	0.0	0.0	0.0	0.0	0.9	2.6	9.6	352.1	2075.2	2396.7	2471.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	278.6	1866.7	2271.4	2401.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	192.7	1634.6	2113.7	2272.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.5	1319.2	1853.6	1927.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	941.7	1471.6	1581.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1	582.5	1075.7	1210.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	377.5	814.7	918.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	201.5	510.7	593.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.6	310.1	357.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	188.3	214.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	38.5
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°	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1	1242.1
2.5°	1337.6	1363.0	1372.7	1357.8	1359.5	1328.9	1324.5	1281.6	1264.0	1267.5
5°	1398.9	1435.7	1455.9	1439.2	1401.6	1342.9	1289.4	1238.6	1207.1	1191.3
7.5°	1384.9	1426.1	1451.5	1467.3	1424.3	1329.7	1248.3	1152.8	1112.5	1113.4
10°	1307.8	1393.7	1445.4	1425.2	1405.1	1310.5	1184.3	1081.0	1045.0	1048.5
12.5°	1245.6	1341.1	1371.8	1387.5	1346.4	1271.0	1186.1	1067.8	1027.5	1003.0
15°	1207.1	1278.1	1279.8	1304.3	1287.7	1287.7	1204.5	1088.8	1053.8	1026.6
17.5°	1207.1	1222.9	1221.1	1229.9	1257.9	1291.2	1250.9	1173.8	1104.6	1100.2
20°	1234.3	1185.2	1173.8	1177.3	1201.0	1300.0	1353.4	1257.0	1213.2	1199.2
22.5°	1297.3	1189.6	1120.4	1108.1	1180.8	1299.1	1419.1	1388.4	1312.2	1300.8
25°	1384.0	1181.7	1106.4	1090.6	1145.8	1330.6	1509.3	1515.4	1446.2	1422.6
27.5°	1466.4	1216.7	1104.6	1101.1	1173.8	1323.6	1571.5	1617.1	1539.1	1519.8
30°	1494.4	1251.8	1137.0	1090.6	1184.3	1349.0	1569.8	1688.9	1638.1	1642.5
32.5°	1527.7	1286.8	1140.5	1122.1	1229.0	1390.2	1619.7	1804.5	1767.7	1716.0
35°	1576.8	1334.1	1173.8	1157.2	1260.5	1427.0	1630.2	1889.5	1883.4	1822.9
37.5°	1618.8	1380.5	1243.0	1245.6	1356.9	1486.5	1676.6	1993.7	1983.2	1942.0
40°	1648.6	1445.4	1350.8	1357.8	1441.0	1553.1	1759.0	2046.3	2124.2	2063.8
42.5°	1653.0	1503.2	1474.3	1530.3	1608.3	1656.5	1792.3	2082.2	2194.3	2154.9
45°	1669.6	1595.2	1675.7	1716.9	1780.9	1747.6	1790.5	2143.5	2199.6	2179.4
47.5°	1734.4	1762.5	1864.1	1989.3	2012.1	1902.6	1832.5	2153.2	2229.4	2226.7
50°	1801.9	1942.0	2084.8	2168.0	2197.0	2009.5	1872.0	2145.3	2268.8	2247.8
52.5°	1877.2	2098.0	2303.8	2406.3	2390.5	2127.8	1916.6	2209.2	2341.5	2334.5
55°	1924.5	2168.0	2444.9	2587.6	2575.4	2260.0	2058.5	2301.2	2437.0	2419.5
57.5°	2049.8	2281.9	2585.0	2651.6	2684.0	2433.5	2157.5	2451.9	2516.7	2536.0
60°	2153.2	2356.4	2621.8	2718.2	2729.5	2536.8	2331.0	2606.9	2618.3	2553.5
62.5°	2304.7	2385.3	2543.8	2630.6	2689.3	2595.5	2486.9	2690.1	2616.5	2612.2
65°	2415.9	2290.7	2398.4	2446.6	2484.3	2506.2	2643.7	2747.1	2584.1	2499.2
67.5°	2353.8	2112.0	2091.8	2094.5	2105.9	2238.1	2591.1	2607.8	2403.7	2333.6
70°	2071.7	1732.7	1705.5	1726.6	1669.6	1829.0	2378.3	2370.4	2120.7	2048.0
72.5°	1675.7	1263.2	1216.7	1245.6	1258.8	1427.8	2000.7	1797.5	1547.0	1490.0
75°	1331.5	925.9	781.4	851.5	896.1	1039.8	1562.7	1221.1	1080.1	1003.0
77.5°	1045.9	700.8	607.9	579.9	621.1	756.0	1137.0	641.2	565.9	530.0
80°	663.1	515.1	558.9	518.6	536.1	539.6	592.2	291.7	232.1	229.5
82.5°	399.4	352.1	418.7	230.4	419.6	374.9	246.1	132.3	117.4	117.4
85°	282.9	218.1	144.5	93.7	186.6	205.9	95.5	68.3	59.6	57.8
87.5°	141.9	67.5	32.4	21.0	23.7	38.5	11.4	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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