

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: P677321

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677321
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

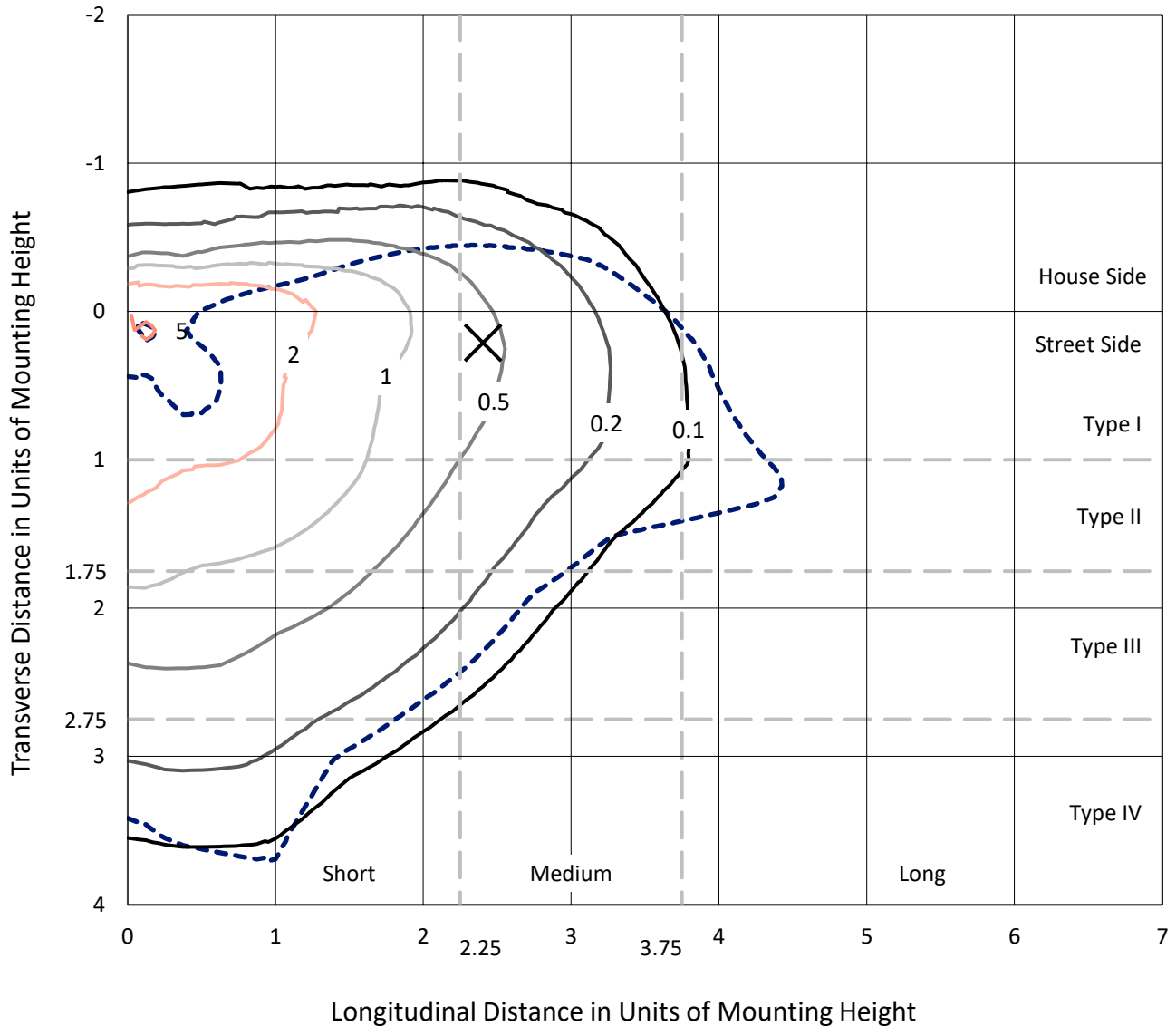
Lumens per Lamp: N/A
Luminaire Lumens: 2918.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

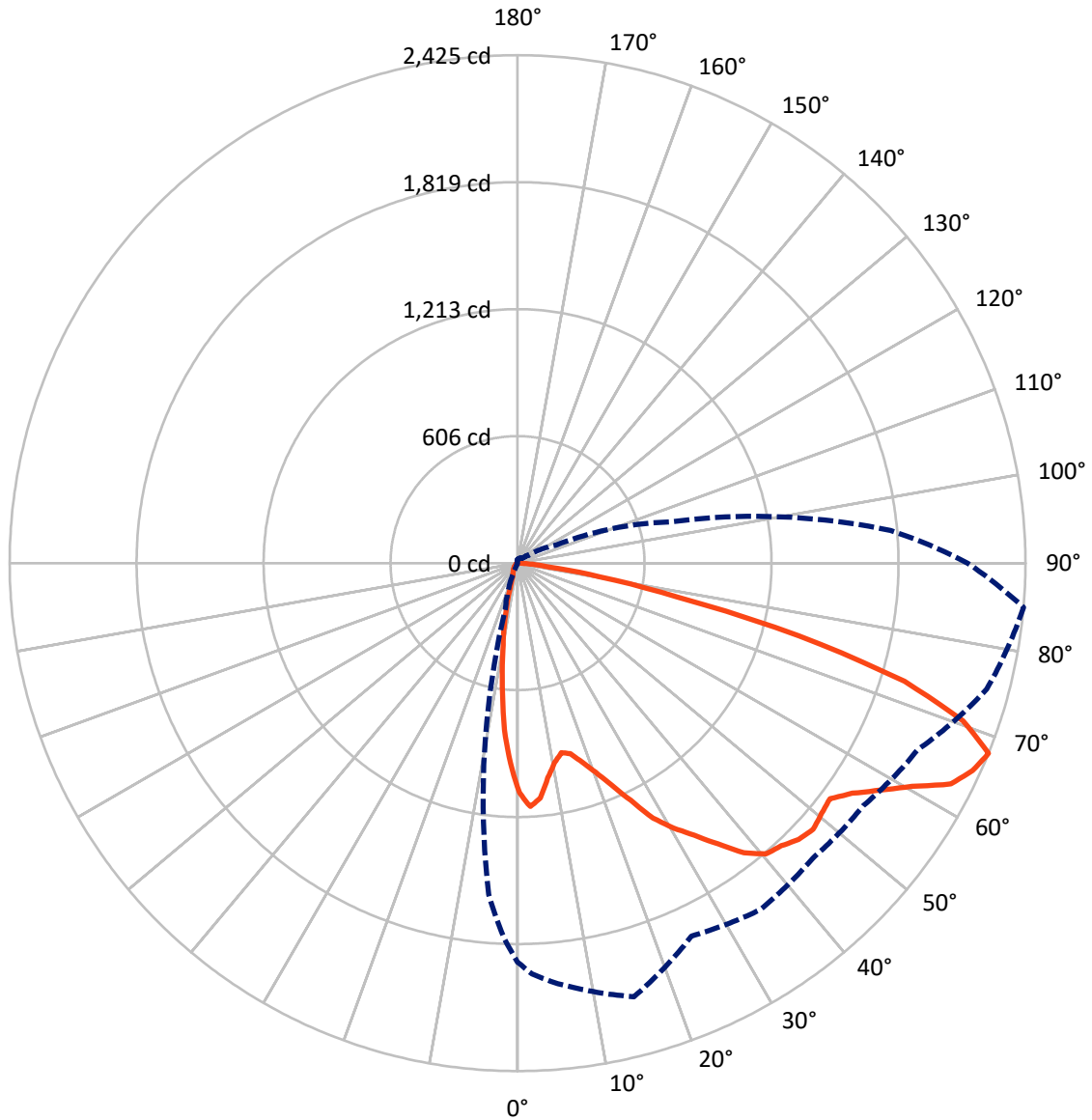
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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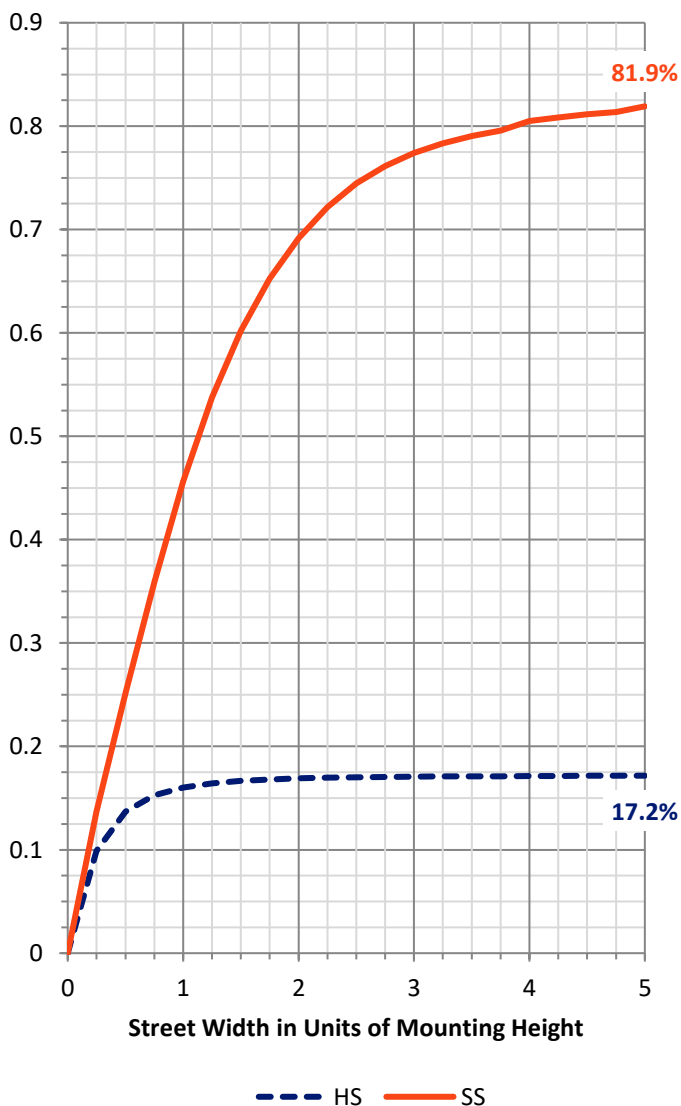
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.7	0.0	506.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2411.6	0.0	2411.6
	% Fixture	82.6	0.0	82.6
Total	Lumens	2918.3	0.0	2918.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	2.9
10°-20°	163.5	5.6
20°-30°	226.2	7.8
30°-40°	319.7	11.0
40°-50°	435.3	14.9
50°-60°	576.5	19.8
60°-70°	669.3	22.9
70°-80°	379.0	13.0
80°-90°	65.5	2.2
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°	2918.3	100.0
0°-180°	2918.3	100.0

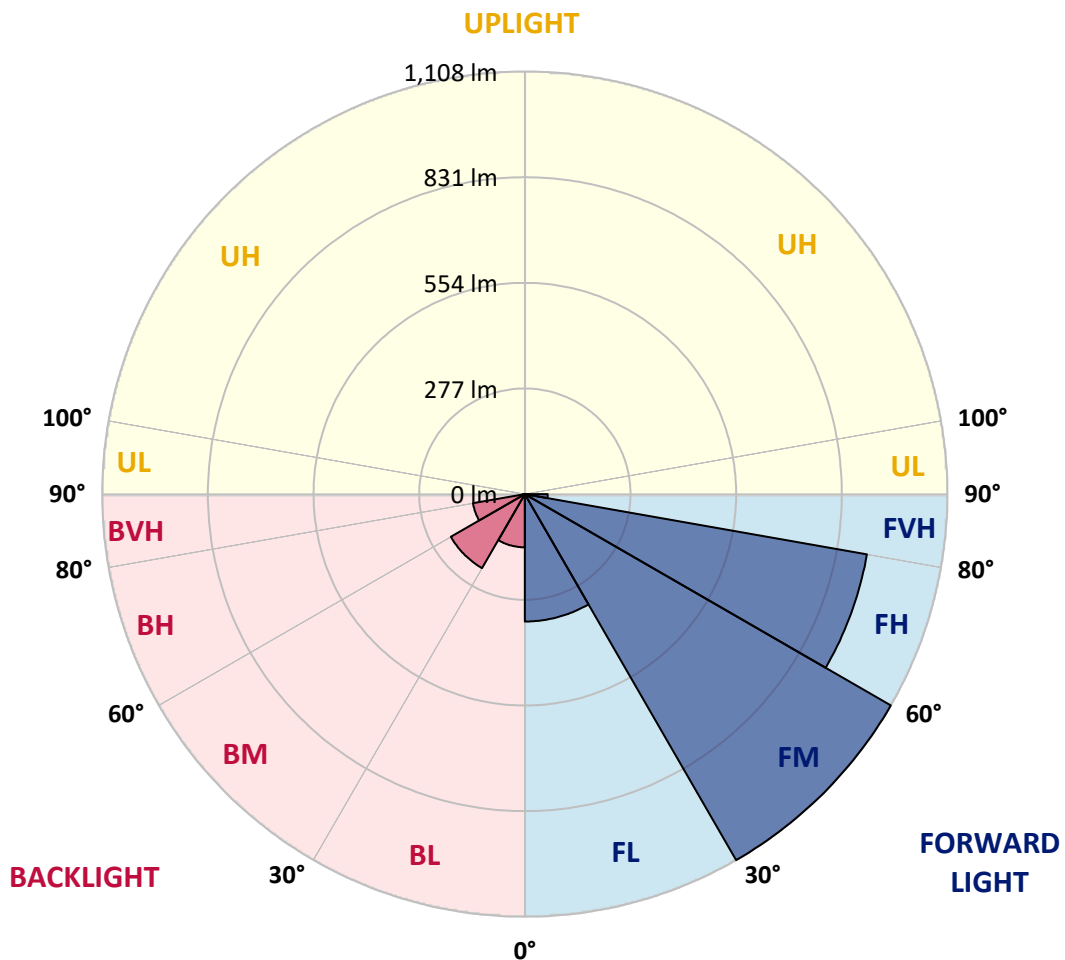


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.7	11.4			
FM (30°-60°)	1107.5	38.0			
FH (60°-80°)	910.4	31.2			G1/1800
FVH (80°-90°)	60.0	2.1			G1/100
BL (0°-30°)	139.3	4.8	B1/500		
BM (30°-60°)	223.9	7.7	B1/1000		
BH (60°-80°)	138.0	4.7	B1/500		G1/500
BVH (80°-90°)	5.5	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	1140.1	1164.3	1165.0	1176.0	1186.9	1186.9	1212.6	1206.3	1183.7	1179.9	1163.5
5°	1148.7	1157.3	1163.5	1218.8	1265.6	1260.9	1274.9	1265.6	1221.9	1165.8	1127.6
7.5°	1074.6	1084.0	1108.9	1203.2	1266.4	1287.4	1313.9	1255.4	1209.5	1108.2	1034.9
10°	976.5	994.4	1040.4	1147.9	1225.8	1292.8	1292.8	1246.1	1157.3	1058.3	968.7
12.5°	921.9	957.8	982.7	1091.8	1193.1	1239.1	1237.5	1212.6	1154.9	1030.2	928.9
15°	931.3	941.4	994.4	1079.3	1146.3	1144.0	1172.1	1164.3	1123.7	1055.2	943.7
17.5°	974.1	989.7	1035.7	1079.3	1111.3	1101.9	1101.1	1138.5	1140.9	1097.2	999.1
20°	1044.3	1090.2	1112.1	1125.3	1086.3	1046.6	1041.9	1094.1	1134.7	1151.0	1065.3
22.5°	1156.5	1186.9	1231.3	1163.5	1062.2	1012.3	1003.0	1060.6	1142.4	1214.9	1151.0
25°	1266.4	1289.7	1332.6	1245.3	1089.5	1005.3	988.9	1038.8	1172.1	1303.8	1254.7
27.5°	1382.5	1402.7	1407.4	1305.3	1104.3	991.3	971.8	1038.8	1197.0	1350.5	1378.6
30°	1453.4	1477.5	1482.2	1358.3	1128.4	1003.0	993.6	1043.5	1214.1	1390.3	1467.4
32.5°	1532.9	1539.1	1535.2	1367.7	1154.9	1037.2	998.3	1074.6	1233.6	1437.8	1548.5
35°	1627.9	1638.9	1599.1	1410.5	1214.1	1059.1	1045.0	1112.8	1267.1	1459.6	1646.6
37.5°	1700.4	1734.7	1645.1	1426.9	1225.8	1105.0	1107.4	1192.3	1290.5	1486.1	1755.0
40°	1836.8	1779.1	1723.0	1483.0	1270.2	1183.0	1170.5	1274.1	1369.2	1503.3	1825.9
42.5°	1911.6	1881.2	1753.4	1488.5	1338.8	1290.5	1293.6	1366.9	1410.5	1551.6	1845.4
45°	1930.3	1898.4	1794.7	1492.3	1406.6	1417.5	1471.3	1485.3	1471.3	1583.5	1882.0
47.5°	1977.8	1908.5	1790.0	1544.6	1516.5	1558.6	1627.2	1657.6	1553.9	1571.8	1899.1
50°	1968.5	1928.8	1779.9	1566.4	1650.5	1762.0	1808.0	1795.5	1645.9	1547.7	1880.4
52.5°	1929.5	1886.7	1811.1	1625.6	1776.0	1910.8	1974.7	1943.6	1727.7	1602.2	1868.0
55°	1986.4	1953.7	1851.6	1705.9	1870.3	2041.8	2086.9	2063.6	1828.2	1652.9	1938.9
57.5°	2048.0	2041.0	1961.5	1800.2	1981.7	2176.6	2176.6	2147.7	1915.5	1726.1	2044.1
60°	2136.8	2152.4	2042.5	1862.5	2019.9	2168.8	2281.8	2248.3	2003.6	1854.7	2163.3
62.5°	2108.0	2157.9	2147.0	1996.6	2063.6	2207.0	2268.5	2293.5	2112.7	2011.4	2322.3
65°	2015.3	2068.2	2146.2	2084.6	2030.8	2114.2	2145.4	2221.0	2167.2	2158.6	2387.8
67.5°	1904.6	1962.3	2010.6	2143.8	1964.6	2019.9	1992.7	2016.8	2108.0	2320.0	2425.2
70°	1663.0	1718.3	1794.7	2012.1	1789.3	1739.4	1732.4	1720.7	1862.5	2262.3	2255.3
72.5°	1367.7	1393.4	1519.6	1635.7	1324.0	1314.7	1325.6	1312.3	1476.8	2048.0	1931.9
75°	1024.0	1049.7	1121.4	1256.2	901.6	847.9	910.2	971.8	1127.6	1589.8	1387.9
77.5°	769.9	802.7	847.9	939.8	661.6	577.5	586.0	644.5	815.1	1273.4	777.7
80°	499.5	495.6	582.9	646.8	498.0	513.6	491.7	534.6	590.7	681.1	397.4
82.5°	288.3	292.2	328.9	370.9	346.8	396.7	286.0	477.7	421.6	277.4	148.1
85°	162.1	169.1	202.6	257.2	217.4	145.7	119.2	236.9	265.0	113.8	71.7
87.5°	16.4	14.0	27.3	97.4	59.2	24.2	35.8	56.9	63.9	42.9	21.0
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°	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	1140.1	1140.1	1120.6	1087.9	1074.6	1051.3	1019.3	1029.4	1018.5	978.8	968.7
5°	1093.3	1055.9	1015.4	965.5	936.7	877.5	858.8	825.3	830.7	797.2	798.8
7.5°	995.9	966.3	897.7	832.3	775.4	724.0	651.5	624.2	597.7	584.5	600.1
10°	939.0	883.7	790.2	704.5	628.9	582.9	534.6	497.2	462.9	437.2	431.7
12.5°	897.7	848.7	735.7	631.2	572.0	534.6	490.2	438.7	405.2	360.8	347.6
15°	885.3	825.3	706.0	602.4	544.7	483.2	432.5	381.9	338.2	291.5	275.1
17.5°	928.1	858.8	705.3	579.0	498.0	431.7	361.6	304.7	260.3	217.4	207.3
20°	1000.6	894.6	727.9	565.0	453.5	364.7	285.2	228.3	178.5	150.4	143.4
22.5°	1083.2	955.4	730.2	527.6	409.1	297.7	208.1	150.4	122.3	109.1	105.2
25°	1184.5	1052.8	758.3	497.2	356.9	226.0	148.1	115.3	99.0	91.2	89.6
27.5°	1267.9	1120.6	788.6	465.2	305.5	167.5	116.1	94.3	85.7	77.9	77.2
30°	1354.4	1198.6	797.2	445.8	261.1	137.9	99.7	83.4	74.0	70.1	69.4
32.5°	1430.0	1283.5	824.5	413.8	219.0	121.6	90.4	74.8	68.6	62.3	61.6
35°	1527.4	1332.6	837.7	396.7	203.4	109.9	82.6	68.6	59.2	55.3	53.8
37.5°	1631.8	1380.1	846.3	383.4	190.1	102.9	77.9	64.7	56.1	50.7	49.1
40°	1729.3	1447.1	833.8	367.0	180.0	94.3	74.8	60.0	52.2	46.8	44.4
42.5°	1804.1	1512.6	829.9	351.5	169.1	91.2	70.9	57.7	49.1	42.9	42.1
45°	1846.1	1557.0	802.7	339.0	160.5	92.7	69.4	54.6	46.8	41.3	38.2
47.5°	1836.0	1591.3	809.7	335.1	148.8	86.5	68.6	52.2	42.9	38.2	35.8
50°	1892.1	1660.7	798.0	322.6	140.3	77.9	74.8	52.2	42.1	36.6	34.3
52.5°	1901.5	1723.8	822.9	300.0	127.0	71.7	74.0	51.4	40.5	35.1	32.0
55°	1979.4	1797.1	871.3	287.6	116.1	62.3	67.8	49.9	36.6	32.0	30.4
57.5°	2085.4	1949.0	902.4	275.9	101.3	54.6	56.9	49.1	33.5	29.6	27.3
60°	2187.5	2009.8	904.8	254.8	87.3	49.1	44.4	49.1	31.2	26.5	24.2
62.5°	2263.8	2009.8	889.2	236.9	76.4	43.6	39.0	46.8	28.1	23.4	21.8
65°	2222.5	1956.0	848.7	222.1	69.4	38.2	33.5	35.8	24.9	20.3	18.7
67.5°	2148.5	1788.5	759.0	204.2	68.6	33.5	28.8	26.5	21.8	17.9	16.4
70°	2030.1	1562.5	632.0	183.9	67.0	30.4	25.7	22.6	19.5	15.6	14.0
72.5°	1635.7	1290.5	519.0	172.2	65.5	26.5	21.8	19.5	16.4	13.2	11.7
75°	1133.1	824.5	399.8	147.3	63.9	24.2	20.3	17.1	14.0	10.9	10.1
77.5°	679.5	551.0	257.9	110.7	42.1	19.5	17.1	13.2	11.7	9.4	8.6
80°	318.0	260.3	104.4	42.9	20.3	14.0	11.7	10.1	9.4	7.8	7.0
82.5°	124.7	109.9	50.7	24.9	16.4	10.9	9.4	8.6	7.8	6.2	5.5
85°	67.0	59.2	24.2	17.1	11.7	7.8	7.8	7.0	6.2	5.5	4.7
87.5°	14.8	10.9	10.1	10.1	8.6	6.2	6.2	5.5	4.7	3.9	3.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	963.2	974.9	956.2	967.9	951.5	964.0	965.5	953.9	957.0	972.6	979.6
5°	820.6	812.8	795.7	790.2	791.0	780.9	784.7	790.2	798.8	803.5	817.5
7.5°	591.5	609.4	608.6	621.9	622.7	621.1	610.2	586.8	594.6	588.4	596.2
10°	423.2	430.9	445.8	454.3	469.9	461.3	436.4	427.1	422.4	421.6	429.4
12.5°	338.2	319.5	318.0	321.1	328.9	318.7	306.3	295.4	300.8	311.7	320.3
15°	261.8	246.3	226.0	222.9	224.4	219.8	206.5	192.5	196.4	207.3	213.5
17.5°	201.1	183.1	169.1	159.8	156.6	140.3	120.8	109.1	106.0	105.2	110.7
20°	135.6	132.5	130.1	118.5	118.5	95.1	78.7	70.1	70.1	71.7	72.5
22.5°	101.3	97.4	98.2	95.9	89.6	70.9	62.3	60.0	60.0	61.6	61.6
25°	88.1	82.6	81.0	80.3	74.0	60.8	54.6	52.2	52.2	53.8	53.8
27.5°	74.8	73.3	70.9	67.8	62.3	52.2	48.3	46.0	46.8	47.5	46.8
30°	68.6	64.7	61.6	61.6	55.3	46.8	43.6	42.1	40.5	42.1	42.9
32.5°	60.8	58.4	56.9	54.6	47.5	41.3	38.2	36.6	35.8	35.8	36.6
35°	52.2	52.2	50.7	47.5	41.3	37.4	33.5	32.0	31.2	32.0	32.0
37.5°	46.8	44.4	45.2	42.1	36.6	32.7	28.8	27.3	27.3	26.5	27.3
40°	43.6	39.7	37.4	35.8	32.7	28.1	24.9	23.4	22.6	22.6	22.6
42.5°	39.0	35.8	31.2	30.4	29.6	24.2	20.3	19.5	18.7	17.9	17.9
45°	36.6	32.0	28.1	24.2	24.2	20.3	17.1	15.6	14.8	14.0	14.8
47.5°	33.5	28.8	24.2	20.3	19.5	16.4	13.2	11.7	10.9	10.9	10.9
50°	32.0	25.7	21.0	17.1	14.8	13.2	10.1	8.6	7.8	7.8	7.8
52.5°	29.6	24.2	18.7	14.8	11.7	10.1	7.8	6.2	5.5	5.5	5.5
55°	26.5	21.8	16.4	12.5	10.1	7.8	5.5	3.9	3.1	3.1	3.1
57.5°	24.9	19.5	14.0	10.9	7.8	5.5	3.1	2.3	2.3	1.6	2.3
60°	22.6	17.1	11.7	8.6	6.2	3.9	2.3	0.8	0.8	0.8	0.8
62.5°	19.5	14.8	10.1	7.0	4.7	2.3	0.8	0.0	0.0	0.0	0.0
65°	16.4	11.7	7.8	5.5	3.1	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	14.0	10.1	6.2	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.5	8.6	4.7	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.1	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.6	5.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	989.7	985.0	1008.4	1046.6	1066.1	1104.3	1113.6	1137.8	1131.5	1140.1
5°	819.0	828.4	862.7	918.8	939.0	994.4	1046.6	1098.8	1132.3	1148.7
7.5°	607.8	639.0	681.1	732.5	784.7	857.2	946.1	1006.8	1039.6	1074.6
10°	452.8	486.3	534.6	585.2	670.2	751.2	840.1	915.7	943.7	976.5
12.5°	356.1	408.4	464.5	519.0	569.7	646.8	756.7	866.6	897.0	921.9
15°	247.8	311.7	392.0	462.9	533.8	600.8	714.6	847.9	889.2	931.3
17.5°	137.2	187.8	279.8	379.5	483.9	586.8	728.6	882.2	944.5	974.1
20°	79.5	99.7	165.2	283.7	421.6	556.4	735.7	946.8	1029.4	1044.3
22.5°	65.5	72.5	93.5	177.7	345.2	536.9	771.5	1037.2	1121.4	1156.5
25°	56.1	61.6	72.5	106.8	261.1	495.6	794.1	1150.2	1228.2	1266.4
27.5°	49.9	55.3	63.9	78.7	177.7	438.7	831.5	1252.3	1330.3	1382.5
30°	43.6	48.3	56.9	67.0	123.1	374.8	863.5	1327.1	1437.0	1453.4
32.5°	39.0	42.9	49.1	57.7	91.2	284.4	889.2	1404.3	1497.0	1532.9
35°	33.5	38.2	42.1	49.1	69.4	214.3	873.6	1464.3	1585.1	1627.9
37.5°	29.6	32.7	36.6	41.3	58.4	167.5	841.6	1536.0	1660.7	1700.4
40°	24.9	27.3	32.0	36.6	53.0	129.4	805.0	1622.5	1766.7	1836.8
42.5°	21.0	23.4	26.5	34.3	43.6	95.9	731.0	1689.5	1852.4	1911.6
45°	16.4	19.5	24.2	34.3	35.1	70.9	654.6	1739.4	1900.7	1930.3
47.5°	12.5	15.6	23.4	29.6	28.1	49.1	564.2	1796.3	1950.6	1977.8
50°	9.4	12.5	26.5	25.7	23.4	37.4	507.3	1836.0	1953.7	1968.5
52.5°	6.2	9.4	21.8	19.5	19.5	32.7	491.7	1834.5	1961.5	1929.5
55°	4.7	7.0	12.5	14.0	17.1	28.8	477.7	1892.9	1963.8	1986.4
57.5°	3.1	5.5	8.6	10.9	14.8	24.9	448.9	1963.0	2036.3	2048.0
60°	1.6	3.9	6.2	8.6	12.5	21.8	408.4	2014.5	2124.4	2136.8
62.5°	0.8	2.3	4.7	7.0	10.1	17.1	366.3	1932.6	2086.2	2108.0
65°	0.0	1.6	3.1	4.7	6.2	12.5	297.7	1744.8	1935.0	2015.3
67.5°	0.0	0.0	1.6	3.1	3.9	9.4	224.4	1587.4	1795.5	1904.6
70°	0.0	0.0	0.8	0.8	2.3	7.0	143.4	1314.7	1603.0	1663.0
72.5°	0.0	0.0	0.0	0.0	0.8	4.7	83.4	976.5	1256.2	1367.7
75°	0.0	0.0	0.0	0.0	0.0	3.9	42.1	628.1	874.4	1024.0
77.5°	0.0	0.0	0.0	0.0	0.0	3.1	22.6	405.2	644.5	769.9
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.2	235.3	412.2	499.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	115.3	246.3	288.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	61.6	123.1	162.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.6	16.4
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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