

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: P677339

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677339
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

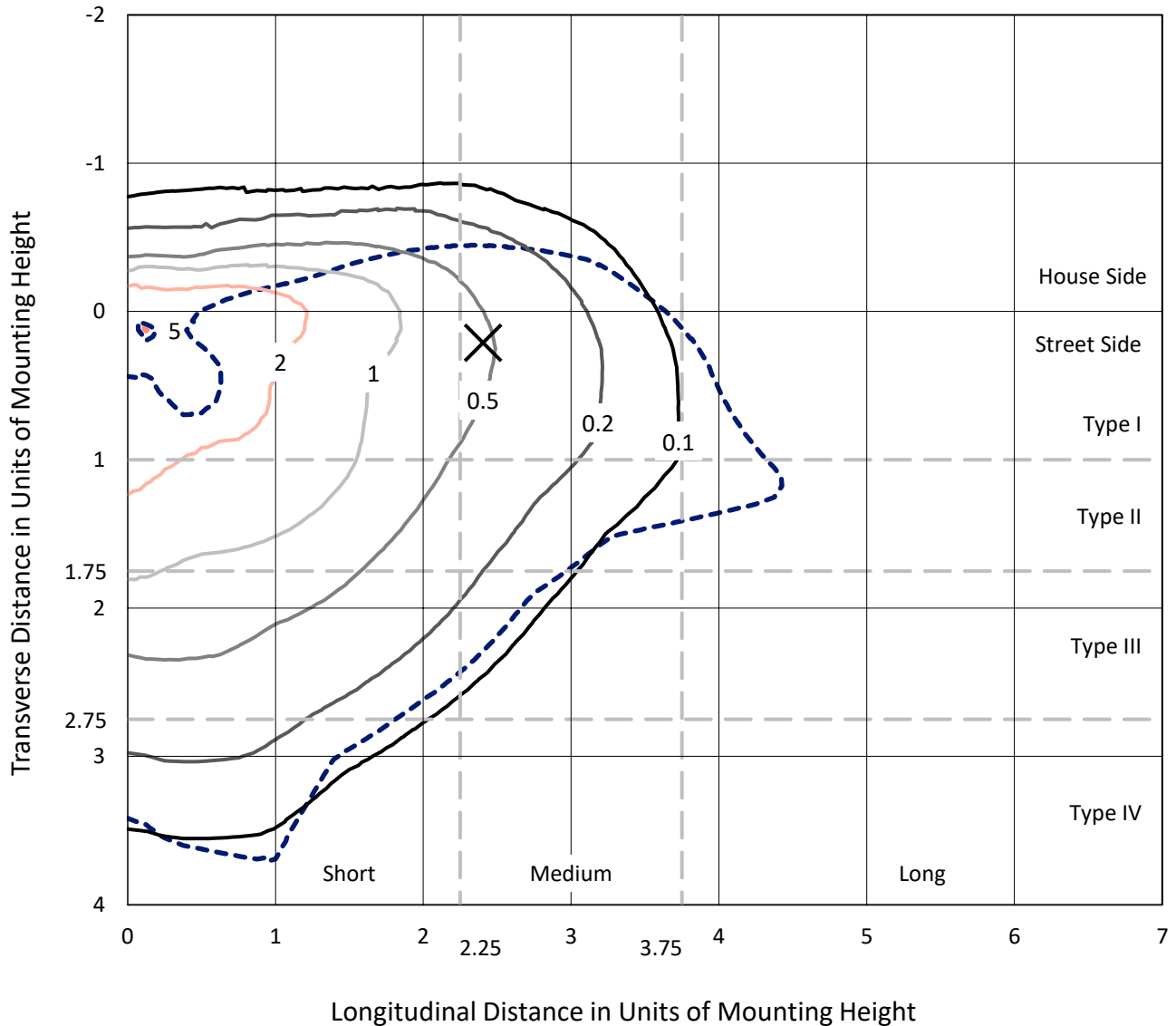
Lumens per Lamp: N/A
Luminaire Lumens: 2703 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

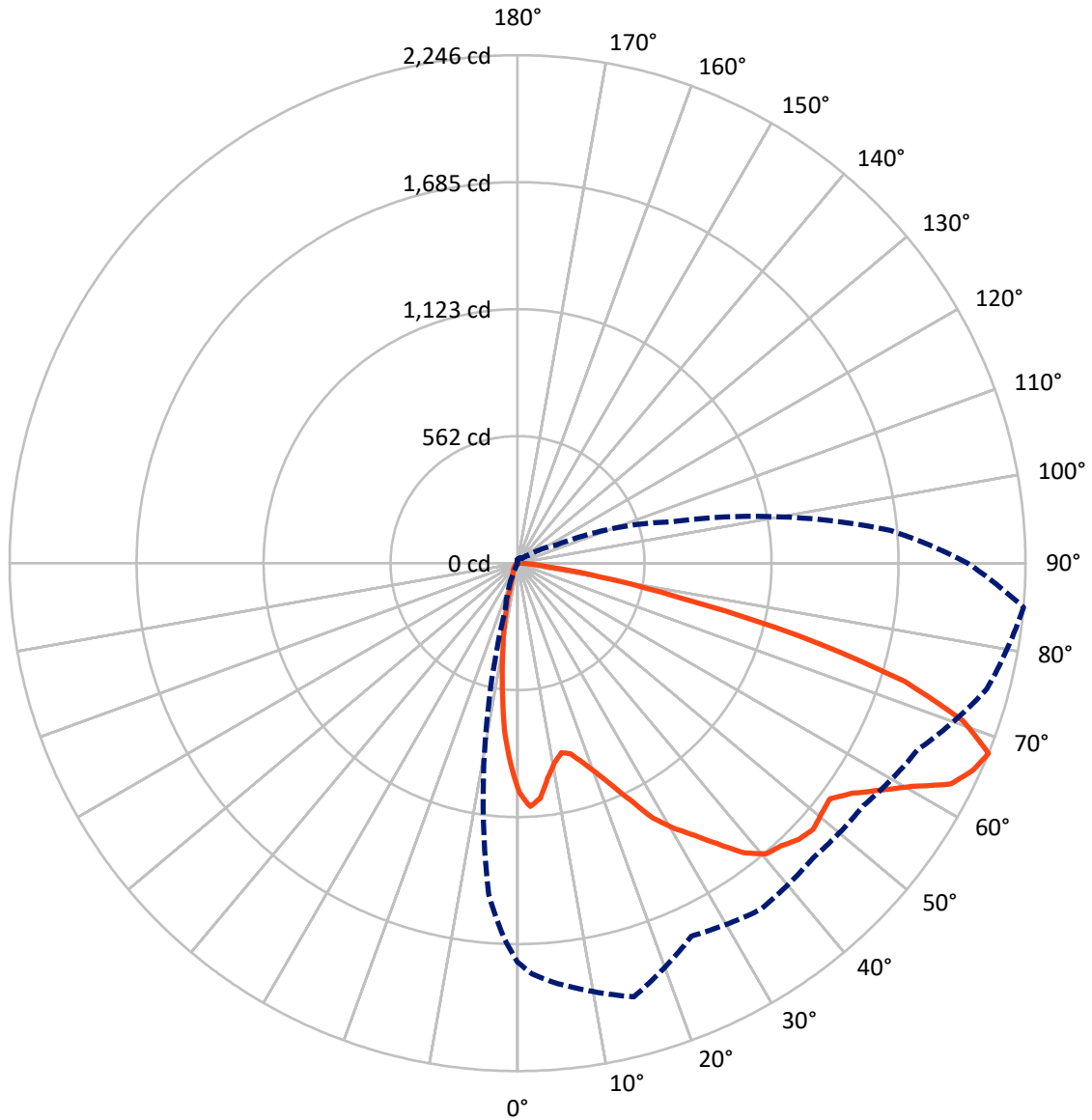
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 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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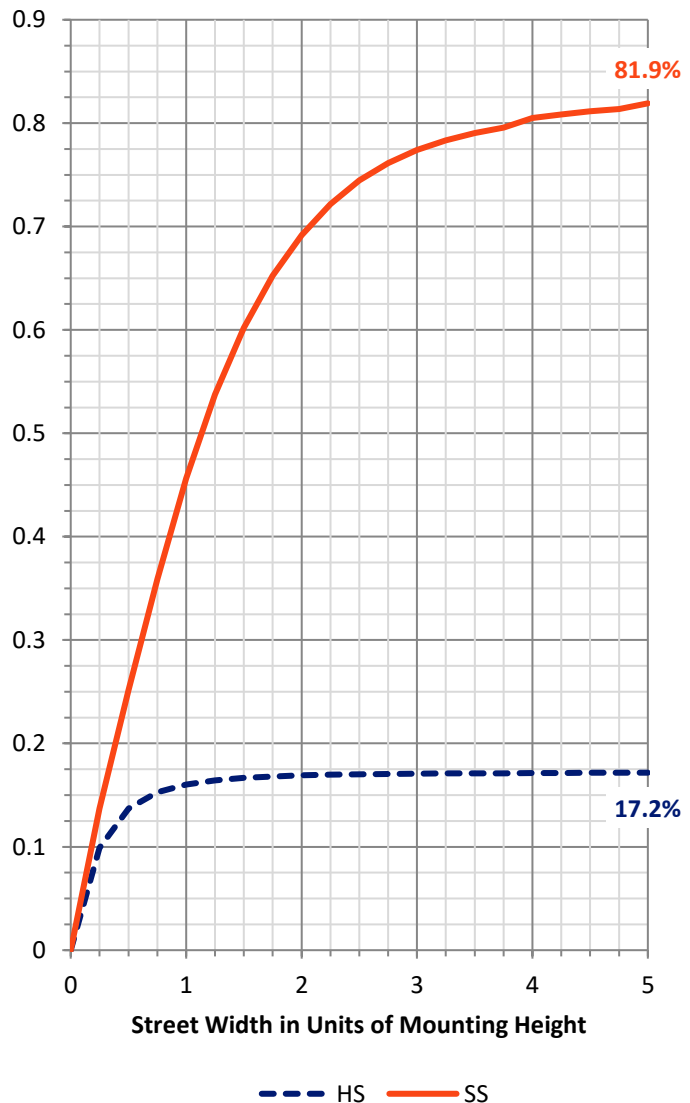
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.3	0.0	469.3
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2233.7	0.0	2233.7
	% Fixture	82.6	0.0	82.6
Total	Lumens	2703.0	0.0	2703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	2.9
10°-20°	151.4	5.6
20°-30°	209.5	7.8
30°-40°	296.1	11.0
40°-50°	403.1	14.9
50°-60°	533.9	19.8
60°-70°	619.9	22.9
70°-80°	351.1	13.0
80°-90°	60.7	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°	2703.0	100.0
0°-180°	2703.0	100.0



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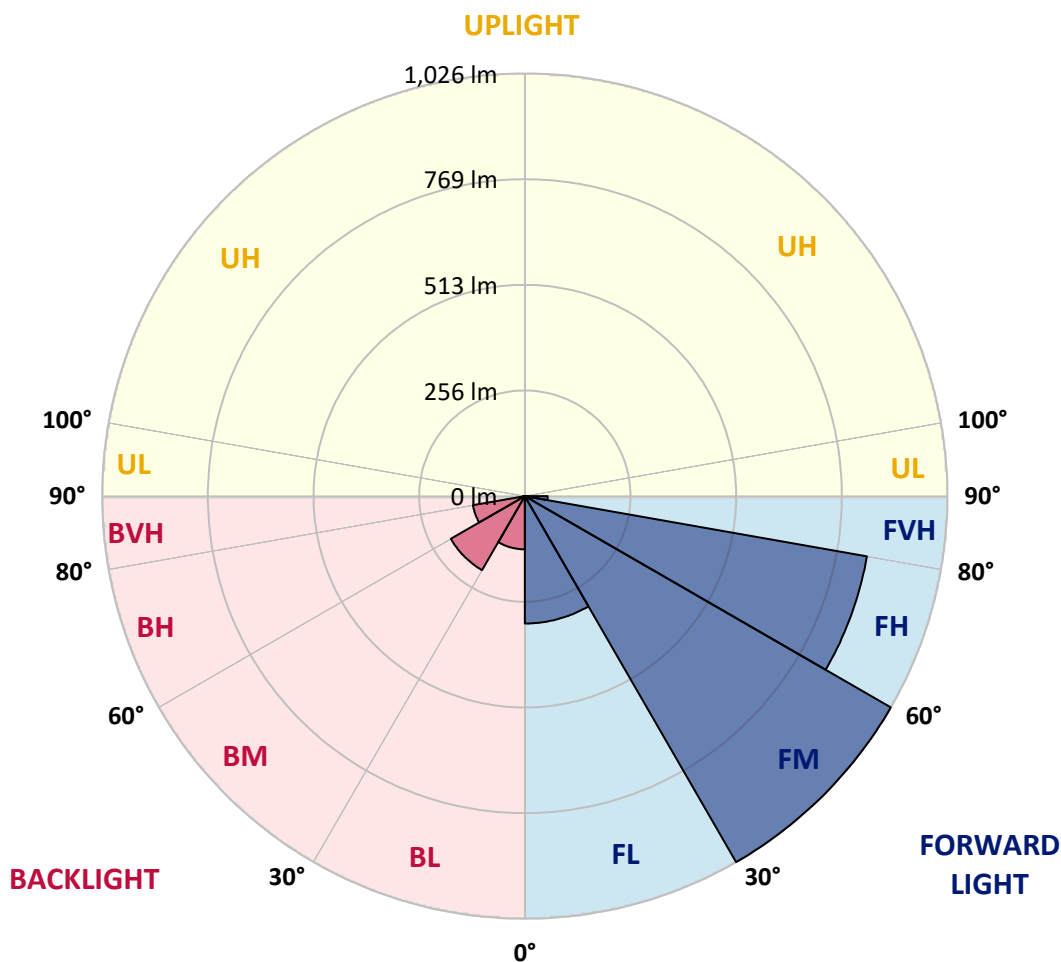
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.1	11.4			
FM (30°-60°)	1025.8	38.0			
FH (60°-80°)	843.2	31.2			G1/1800
FVH (80°-90°)	55.5	2.1			G1/100
BL (0°-30°)	129.0	4.8	B1/500		
BM (30°-60°)	207.4	7.7	B0/220		
BH (60°-80°)	127.8	4.7	B1/500		G1/500
BVH (80°-90°)	5.1	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°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1056.0	1078.4	1079.1	1089.2	1099.3	1099.3	1123.1	1117.4	1096.4	1092.8	1077.7
5°	1064.0	1071.9	1077.7	1128.9	1172.2	1167.9	1180.9	1172.2	1131.8	1079.8	1044.5
7.5°	995.4	1004.0	1027.1	1114.5	1172.9	1192.4	1217.0	1162.8	1120.3	1026.4	958.6
10°	904.4	921.0	963.6	1063.2	1135.4	1197.5	1197.5	1154.2	1071.9	980.2	897.2
12.5°	853.9	887.1	910.2	1011.3	1105.1	1147.7	1146.2	1123.1	1069.7	954.2	860.4
15°	862.6	872.0	921.0	999.7	1061.8	1059.6	1085.6	1078.4	1040.9	977.3	874.1
17.5°	902.3	916.7	959.3	999.7	1029.3	1020.6	1019.9	1054.6	1056.7	1016.3	925.4
20°	967.2	1009.8	1030.0	1042.3	1006.2	969.4	965.1	1013.4	1051.0	1066.1	986.7
22.5°	1071.2	1099.3	1140.5	1077.7	983.8	937.6	929.0	982.4	1058.2	1125.3	1066.1
25°	1172.9	1194.6	1234.3	1153.5	1009.1	931.1	916.0	962.2	1085.6	1207.6	1162.1
27.5°	1280.5	1299.3	1303.6	1209.0	1022.8	918.1	900.1	962.2	1108.7	1250.9	1276.9
30°	1346.2	1368.6	1372.9	1258.1	1045.2	929.0	920.3	966.5	1124.6	1287.7	1359.2
32.5°	1419.8	1425.6	1422.0	1266.8	1069.7	960.7	924.6	995.4	1142.6	1331.7	1434.2
35°	1507.9	1518.0	1481.2	1306.5	1124.6	980.9	968.0	1030.8	1173.7	1352.0	1525.2
37.5°	1575.0	1606.8	1523.7	1321.6	1135.4	1023.5	1025.7	1104.4	1195.3	1376.5	1625.5
40°	1701.3	1647.9	1595.9	1373.6	1176.6	1095.7	1084.2	1180.2	1268.2	1392.4	1691.2
42.5°	1770.6	1742.5	1624.1	1378.7	1240.1	1195.3	1198.2	1266.1	1306.5	1437.1	1709.3
45°	1787.9	1758.3	1662.3	1382.3	1302.9	1313.0	1362.8	1375.8	1362.8	1466.7	1743.2
47.5°	1832.0	1767.7	1658.0	1430.6	1404.6	1443.6	1507.1	1535.3	1439.3	1455.9	1759.1
50°	1823.3	1786.5	1648.6	1450.8	1528.8	1632.0	1674.6	1663.1	1524.5	1433.5	1741.7
52.5°	1787.2	1747.5	1677.5	1505.7	1645.0	1769.9	1829.1	1800.2	1600.3	1484.0	1730.2
55°	1839.9	1809.6	1715.0	1580.1	1732.4	1891.2	1933.0	1911.4	1693.4	1531.0	1795.9
57.5°	1896.9	1890.4	1816.8	1667.4	1835.6	2016.0	2016.0	1989.3	1774.2	1598.8	1893.3
60°	1979.2	1993.6	1891.9	1725.1	1870.9	2008.8	2113.5	2082.4	1855.8	1717.9	2003.8
62.5°	1952.5	1998.7	1988.6	1849.3	1911.4	2044.2	2101.2	2124.3	1956.8	1863.0	2151.0
65°	1866.6	1915.7	1987.9	1930.9	1881.0	1958.3	1987.2	2057.2	2007.4	1999.4	2211.6
67.5°	1764.1	1817.5	1862.3	1985.7	1819.7	1870.9	1845.7	1868.1	1952.5	2148.8	2246.3
70°	1540.4	1591.6	1662.3	1863.7	1657.3	1611.1	1604.6	1593.8	1725.1	2095.4	2088.9
72.5°	1266.8	1290.6	1407.5	1515.1	1226.4	1217.7	1227.8	1215.5	1367.8	1896.9	1789.4
75°	948.5	972.3	1038.7	1163.6	835.1	785.3	843.1	900.1	1044.5	1472.5	1285.6
77.5°	713.2	743.5	785.3	870.5	612.8	534.9	542.8	596.9	755.0	1179.4	720.4
80°	462.7	459.1	539.9	599.1	461.2	475.7	455.5	495.2	547.1	630.9	368.1
82.5°	267.1	270.7	304.6	343.6	321.2	367.4	264.9	442.5	390.5	257.0	137.1
85°	150.1	156.6	187.7	238.2	201.4	135.0	110.4	219.4	245.4	105.4	66.4
87.5°	15.2	13.0	25.3	90.2	54.9	22.4	33.2	52.7	59.2	39.7	19.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1056.0	1056.0	1038.0	1007.7	995.4	973.7	944.1	953.5	943.4	906.6	897.2
5°	1012.7	978.1	940.5	894.3	867.6	812.8	795.4	764.4	769.5	738.4	739.9
7.5°	922.5	895.0	831.5	770.9	718.2	670.6	603.4	578.2	553.6	541.4	555.8
10°	869.8	818.5	731.9	652.5	582.5	539.9	495.2	460.5	428.8	404.9	399.9
12.5°	831.5	786.1	681.4	584.7	529.8	495.2	454.0	406.4	375.3	334.2	321.9
15°	820.0	764.4	654.0	558.0	504.5	447.5	400.6	353.7	313.3	270.0	254.8
17.5°	859.7	795.4	653.2	536.3	461.2	399.9	334.9	282.2	241.1	201.4	192.0
20°	926.8	828.6	674.2	523.3	420.1	337.8	264.2	211.5	165.3	139.3	132.8
22.5°	1003.3	884.9	676.3	488.7	379.0	275.7	192.7	139.3	113.3	101.1	97.4
25°	1097.2	975.2	702.3	460.5	330.6	209.3	137.1	106.8	91.7	84.5	83.0
27.5°	1174.4	1038.0	730.5	430.9	283.0	155.2	107.6	87.3	79.4	72.2	71.5
30°	1254.5	1110.1	738.4	412.9	241.8	127.8	92.4	77.2	68.6	65.0	64.2
32.5°	1324.5	1188.8	763.7	383.3	202.8	112.6	83.7	69.3	63.5	57.7	57.0
35°	1414.8	1234.3	775.9	367.4	188.4	101.8	76.5	63.5	54.9	51.2	49.8
37.5°	1511.5	1278.3	783.9	355.1	176.1	95.3	72.2	59.9	52.0	46.9	45.5
40°	1601.7	1340.4	772.3	340.0	166.7	87.3	69.3	55.6	48.4	43.3	41.1
42.5°	1671.0	1401.0	768.7	325.5	156.6	84.5	65.7	53.4	45.5	39.7	39.0
45°	1710.0	1442.2	743.5	314.0	148.7	85.9	64.2	50.5	43.3	38.3	35.4
47.5°	1700.6	1473.9	750.0	310.4	137.9	80.1	63.5	48.4	39.7	35.4	33.2
50°	1752.6	1538.2	739.1	298.8	129.9	72.2	69.3	48.4	39.0	33.9	31.8
52.5°	1761.2	1596.7	762.2	277.9	117.7	66.4	68.6	47.6	37.5	32.5	29.6
55°	1833.4	1664.5	807.0	266.3	107.6	57.7	62.8	46.2	33.9	29.6	28.2
57.5°	1931.6	1805.3	835.9	255.5	93.8	50.5	52.7	45.5	31.0	27.4	25.3
60°	2026.1	1861.6	838.0	236.0	80.8	45.5	41.1	45.5	28.9	24.5	22.4
62.5°	2096.9	1861.6	823.6	219.4	70.7	40.4	36.1	43.3	26.0	21.7	20.2
65°	2058.6	1811.8	786.1	205.7	64.2	35.4	31.0	33.2	23.1	18.8	17.3
67.5°	1990.0	1656.6	703.0	189.1	63.5	31.0	26.7	24.5	20.2	16.6	15.2
70°	1880.3	1447.2	585.4	170.3	62.1	28.2	23.8	20.9	18.0	14.4	13.0
72.5°	1515.1	1195.3	480.7	159.5	60.6	24.5	20.2	18.0	15.2	12.3	10.8
75°	1049.5	763.7	370.3	136.4	59.2	22.4	18.8	15.9	13.0	10.1	9.4
77.5°	629.4	510.3	238.9	102.5	39.0	18.0	15.9	12.3	10.8	8.7	7.9
80°	294.5	241.1	96.7	39.7	18.8	13.0	10.8	9.4	8.7	7.2	6.5
82.5°	115.5	101.8	46.9	23.1	15.2	10.1	8.7	7.9	7.2	5.8	5.1
85°	62.1	54.9	22.4	15.9	10.8	7.2	7.2	6.5	5.8	5.1	4.3
87.5°	13.7	10.1	9.4	9.4	7.9	5.8	5.8	5.1	4.3	3.6	2.9
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°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	892.2	903.0	885.7	896.5	881.3	892.9	894.3	883.5	886.4	900.8	907.3
5°	760.1	752.9	737.0	731.9	732.6	723.3	726.9	731.9	739.9	744.2	757.2
7.5°	547.9	564.5	563.7	576.0	576.7	575.3	565.2	543.5	550.7	545.0	552.2
10°	391.9	399.2	412.9	420.8	435.3	427.3	404.2	395.6	391.2	390.5	397.7
12.5°	313.3	295.9	294.5	297.4	304.6	295.2	283.7	273.6	278.6	288.7	296.7
15°	242.5	228.1	209.3	206.4	207.9	203.6	191.3	178.3	181.9	192.0	197.8
17.5°	186.2	169.6	156.6	148.0	145.1	129.9	111.9	101.1	98.2	97.4	102.5
20°	125.6	122.7	120.5	109.7	109.7	88.1	72.9	65.0	65.0	66.4	67.1
22.5°	93.8	90.2	90.9	88.8	83.0	65.7	57.7	55.6	55.6	57.0	57.0
25°	81.6	76.5	75.1	74.3	68.6	56.3	50.5	48.4	48.4	49.8	49.8
27.5°	69.3	67.9	65.7	62.8	57.7	48.4	44.8	42.6	43.3	44.0	43.3
30°	63.5	59.9	57.0	57.0	51.2	43.3	40.4	39.0	37.5	39.0	39.7
32.5°	56.3	54.1	52.7	50.5	44.0	38.3	35.4	33.9	33.2	33.2	33.9
35°	48.4	48.4	46.9	44.0	38.3	34.6	31.0	29.6	28.9	29.6	29.6
37.5°	43.3	41.1	41.9	39.0	33.9	30.3	26.7	25.3	25.3	24.5	25.3
40°	40.4	36.8	34.6	33.2	30.3	26.0	23.1	21.7	20.9	20.9	20.9
42.5°	36.1	33.2	28.9	28.2	27.4	22.4	18.8	18.0	17.3	16.6	16.6
45°	33.9	29.6	26.0	22.4	22.4	18.8	15.9	14.4	13.7	13.0	13.7
47.5°	31.0	26.7	22.4	18.8	18.0	15.2	12.3	10.8	10.1	10.1	10.1
50°	29.6	23.8	19.5	15.9	13.7	12.3	9.4	7.9	7.2	7.2	7.2
52.5°	27.4	22.4	17.3	13.7	10.8	9.4	7.2	5.8	5.1	5.1	5.1
55°	24.5	20.2	15.2	11.5	9.4	7.2	5.1	3.6	2.9	2.9	2.9
57.5°	23.1	18.0	13.0	10.1	7.2	5.1	2.9	2.2	2.2	1.4	2.2
60°	20.9	15.9	10.8	7.9	5.8	3.6	2.2	0.7	0.7	0.7	0.7
62.5°	18.0	13.7	9.4	6.5	4.3	2.2	0.7	0.0	0.0	0.0	0.0
65°	15.2	10.8	7.2	5.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	13.0	9.4	5.8	3.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.5	7.9	4.3	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.4	6.5	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.9	5.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.5	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.7	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°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	916.7	912.4	934.0	969.4	987.4	1022.8	1031.5	1053.8	1048.1	1056.0
5°	758.6	767.3	799.0	851.0	869.8	921.0	969.4	1017.8	1048.8	1064.0
7.5°	563.0	591.9	630.9	678.5	726.9	794.0	876.3	932.6	962.9	995.4
10°	419.4	450.4	495.2	542.1	620.8	695.8	778.1	848.1	874.1	904.4
12.5°	329.9	378.2	430.2	480.7	527.6	599.1	700.9	802.7	830.8	853.9
15°	229.5	288.7	363.1	428.8	494.4	556.5	661.9	785.3	823.6	862.6
17.5°	127.0	174.0	259.1	351.5	448.2	543.5	674.9	817.1	874.8	902.3
20°	73.6	92.4	153.0	262.7	390.5	515.4	681.4	877.0	953.5	967.2
22.5°	60.6	67.1	86.6	164.6	319.8	497.3	714.6	960.7	1038.7	1071.2
25°	52.0	57.0	67.1	98.9	241.8	459.1	735.5	1065.4	1137.6	1172.9
27.5°	46.2	51.2	59.2	72.9	164.6	406.4	770.2	1160.0	1232.1	1280.5
30°	40.4	44.8	52.7	62.1	114.0	347.2	799.8	1229.2	1331.0	1346.2
32.5°	36.1	39.7	45.5	53.4	84.5	263.5	823.6	1300.7	1386.6	1419.8
35°	31.0	35.4	39.0	45.5	64.2	198.5	809.2	1356.3	1468.2	1507.9
37.5°	27.4	30.3	33.9	38.3	54.1	155.2	779.6	1422.7	1538.2	1575.0
40°	23.1	25.3	29.6	33.9	49.1	119.8	745.6	1502.8	1636.4	1701.3
42.5°	19.5	21.7	24.5	31.8	40.4	88.8	677.1	1564.9	1715.8	1770.6
45°	15.2	18.0	22.4	31.8	32.5	65.7	606.3	1611.1	1760.5	1787.9
47.5°	11.5	14.4	21.7	27.4	26.0	45.5	522.6	1663.8	1806.7	1832.0
50°	8.7	11.5	24.5	23.8	21.7	34.6	469.9	1700.6	1809.6	1823.3
52.5°	5.8	8.7	20.2	18.0	18.0	30.3	455.5	1699.1	1816.8	1787.2
55°	4.3	6.5	11.5	13.0	15.9	26.7	442.5	1753.3	1819.0	1839.9
57.5°	2.9	5.1	7.9	10.1	13.7	23.1	415.8	1818.2	1886.1	1896.9
60°	1.4	3.6	5.8	7.9	11.5	20.2	378.2	1865.9	1967.7	1979.2
62.5°	0.7	2.2	4.3	6.5	9.4	15.9	339.3	1790.1	1932.3	1952.5
65°	0.0	1.4	2.9	4.3	5.8	11.5	275.7	1616.1	1792.3	1866.6
67.5°	0.0	0.0	1.4	2.9	3.6	8.7	207.9	1470.3	1663.1	1764.1
70°	0.0	0.0	0.7	0.7	2.2	6.5	132.8	1217.7	1484.8	1540.4
72.5°	0.0	0.0	0.0	0.0	0.7	4.3	77.2	904.4	1163.6	1266.8
75°	0.0	0.0	0.0	0.0	0.0	3.6	39.0	581.8	809.9	948.5
77.5°	0.0	0.0	0.0	0.0	0.0	2.9	20.9	375.3	596.9	713.2
80°	0.0	0.0	0.0	0.0	0.0	0.7	12.3	218.0	381.8	462.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	106.8	228.1	267.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	57.0	114.0	150.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	7.9	15.2
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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