

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: P677274

Luminaire Tested: **CCW-SA-1D-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677274
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

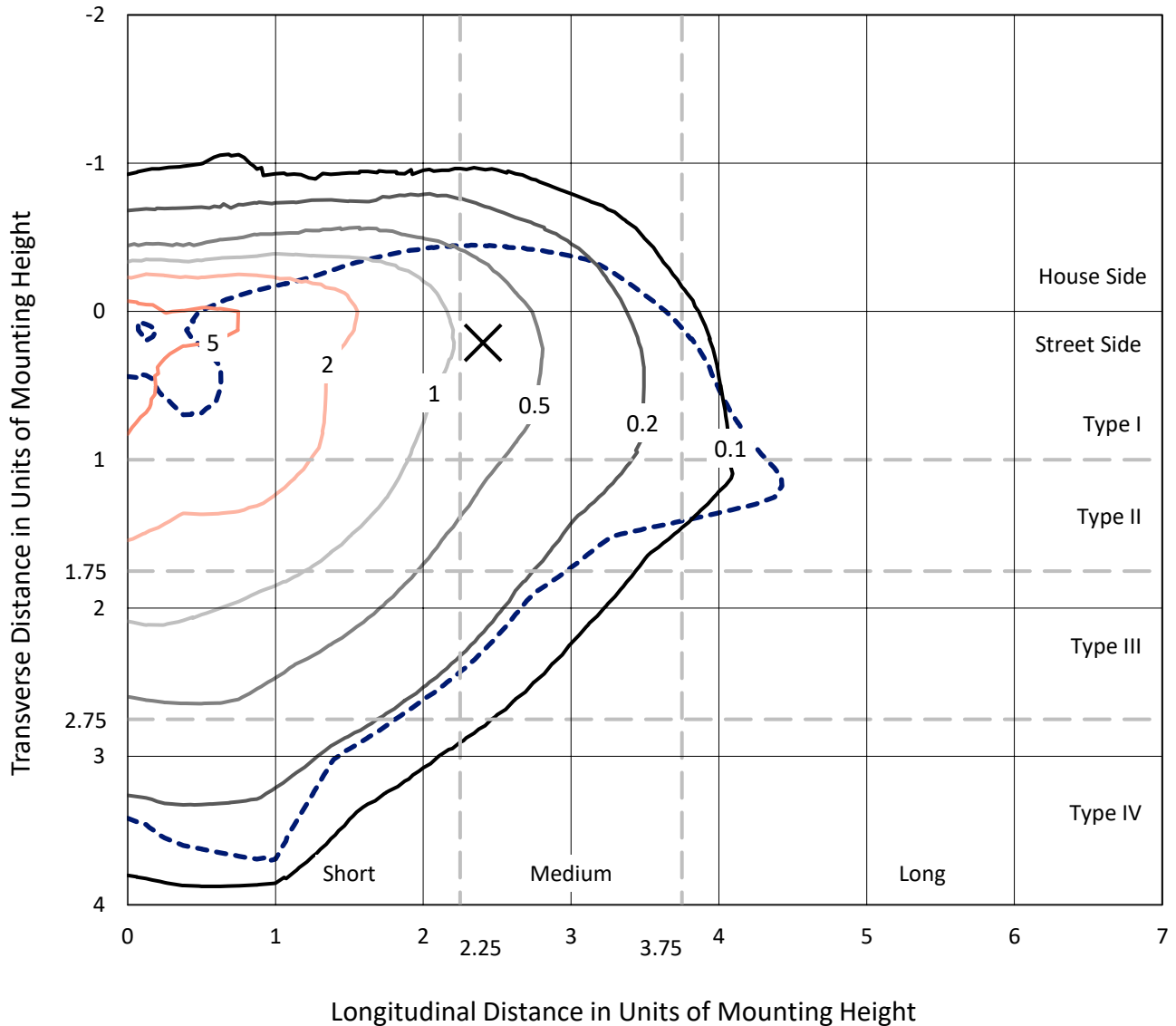
Lumens per Lamp: N/A
Luminaire Lumens: 3990.8 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

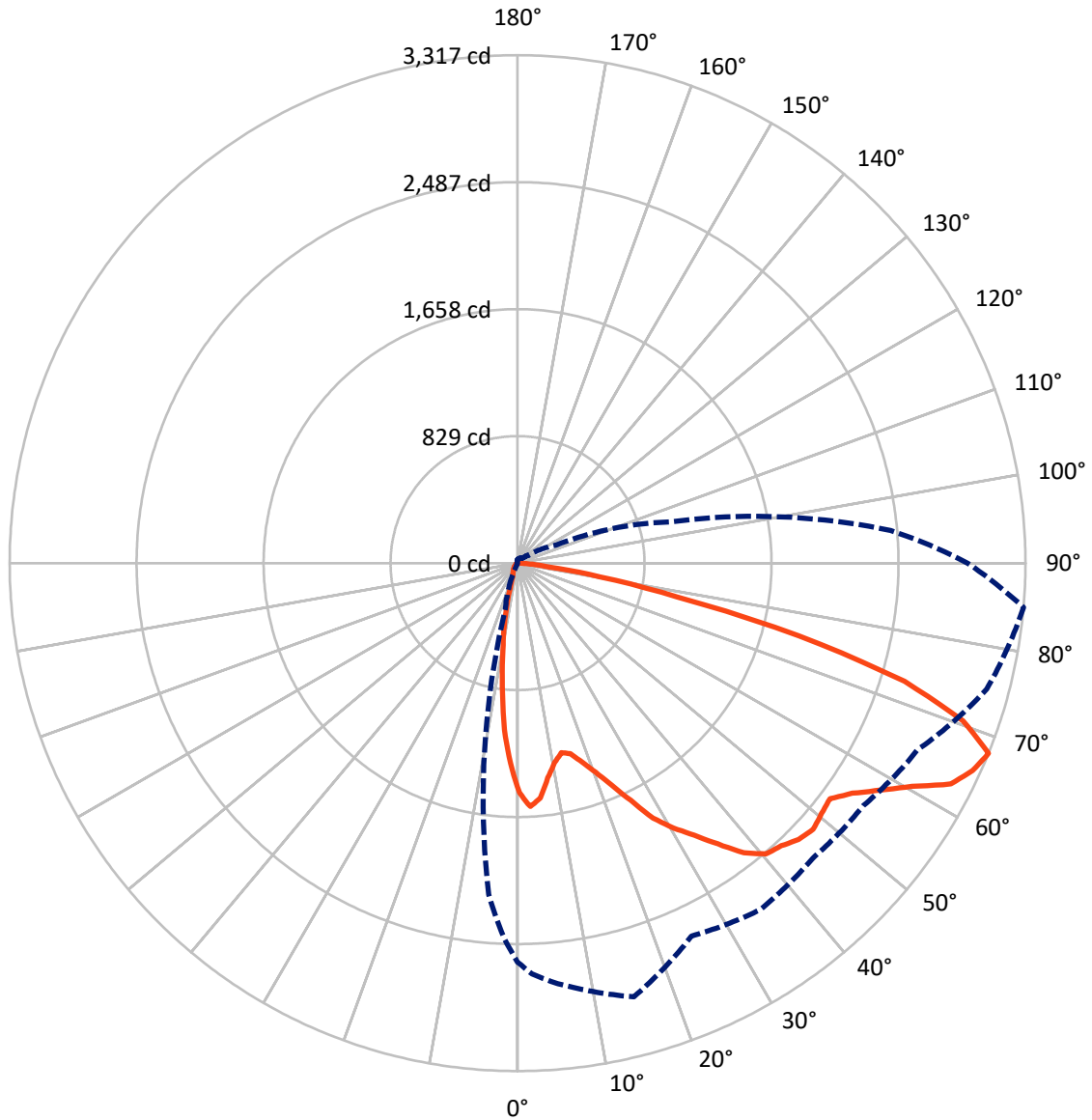
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 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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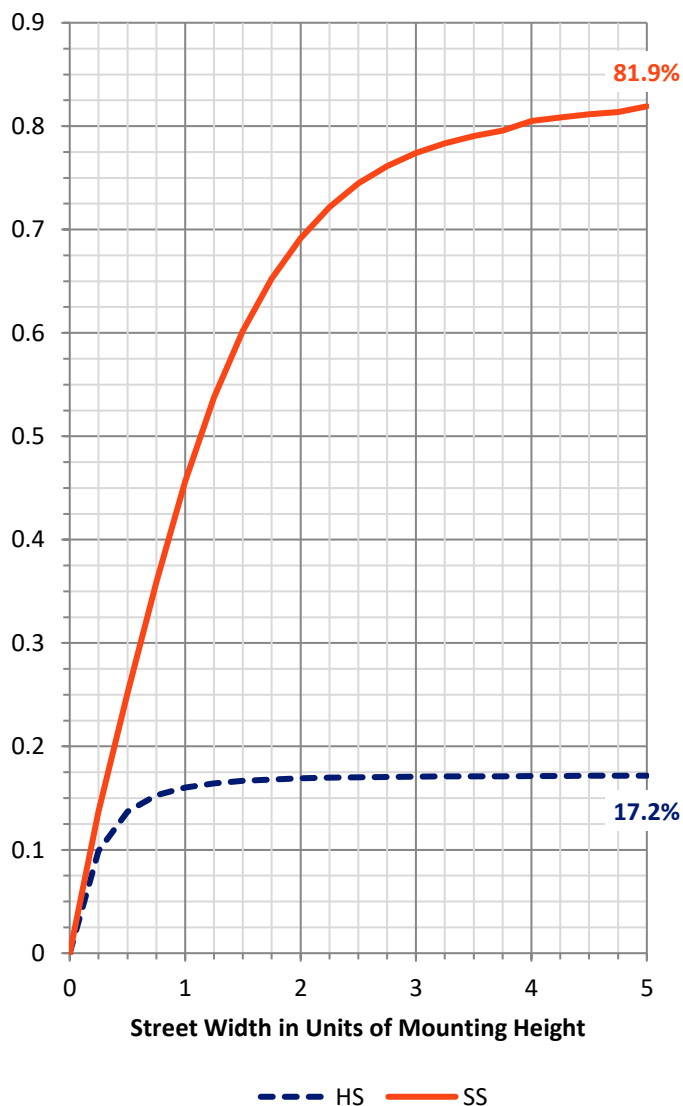
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.9	0.0	692.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3297.9	0.0	3297.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	3990.8	0.0	3990.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	2.9
10°-20°	223.5	5.6
20°-30°	309.3	7.8
30°-40°	437.2	11.0
40°-50°	595.2	14.9
50°-60°	788.3	19.8
60°-70°	915.3	22.9
70°-80°	518.3	13.0
80°-90°	89.6	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°	3990.8	100.0
0°-180°	3990.8	100.0



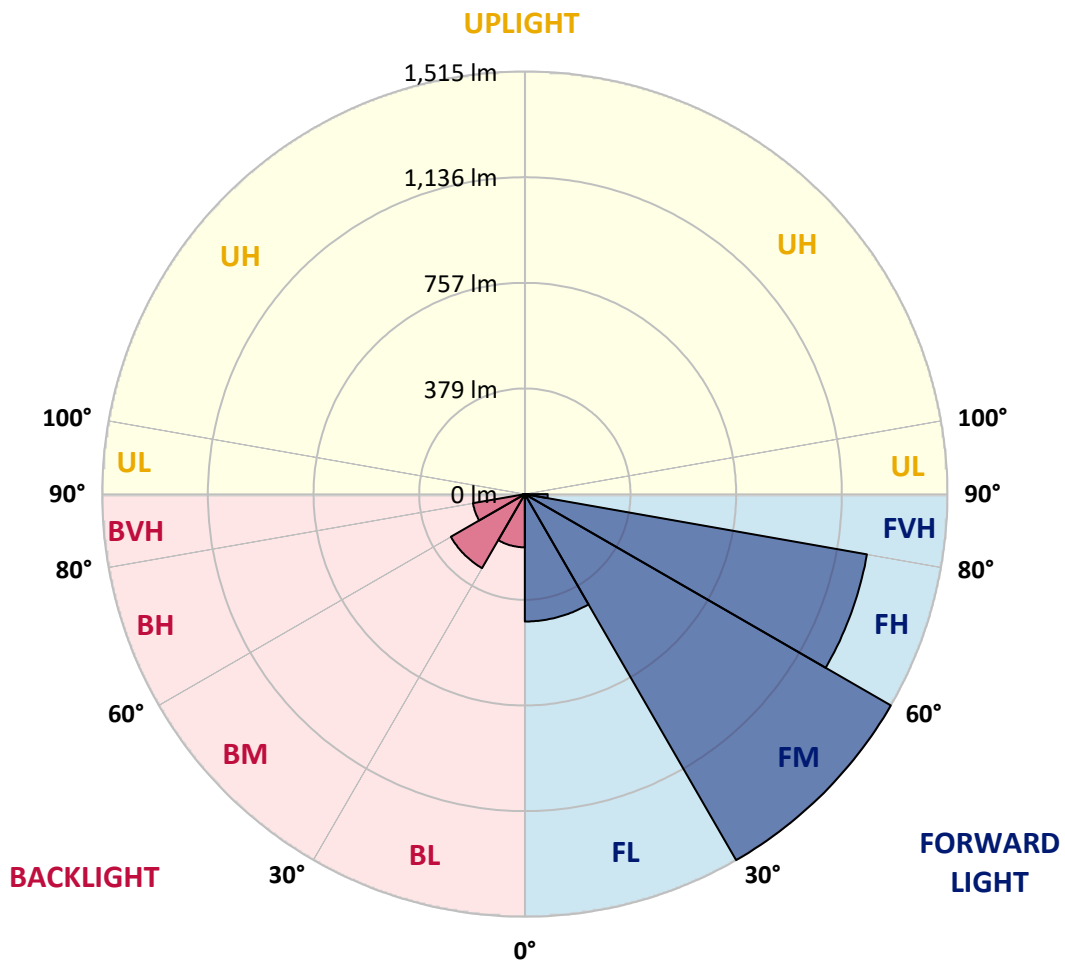
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.4	11.4			
FM (30°-60°)	1514.6	38.0			
FH (60°-80°)	1244.9	31.2			G1/1800
FVH (80°-90°)	82.0	2.1			G1/100
BL (0°-30°)	190.5	4.8	B1/500		
BM (30°-60°)	306.2	7.7	B1/1000		
BH (60°-80°)	188.7	4.7	B1/500		G1/500
BVH (80°-90°)	7.6	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°	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5
2.5°	1559.1	1592.2	1593.2	1608.2	1623.1	1623.1	1658.2	1649.7	1618.8	1613.5	1591.1
5°	1570.9	1582.6	1591.1	1666.8	1730.7	1724.3	1743.5	1730.7	1671.0	1594.3	1542.1
7.5°	1469.6	1482.4	1516.5	1645.5	1731.8	1760.6	1796.8	1716.9	1654.0	1515.4	1415.3
10°	1335.3	1359.8	1422.7	1569.8	1676.4	1768.0	1768.0	1704.1	1582.6	1447.2	1324.7
12.5°	1260.7	1309.8	1343.9	1493.1	1631.6	1694.5	1692.3	1658.2	1579.4	1408.9	1270.3
15°	1273.5	1287.4	1359.8	1476.0	1567.7	1564.5	1602.8	1592.2	1536.8	1443.0	1290.6
17.5°	1332.1	1353.5	1416.3	1476.0	1519.7	1506.9	1505.9	1557.0	1560.2	1500.5	1366.2
20°	1428.1	1490.9	1520.8	1538.9	1485.6	1431.3	1424.9	1496.3	1551.7	1574.1	1456.8
22.5°	1581.5	1623.1	1683.8	1591.1	1452.6	1384.4	1371.6	1450.4	1562.3	1661.4	1574.1
25°	1731.8	1763.8	1822.4	1703.0	1489.9	1374.8	1352.4	1420.6	1602.8	1782.9	1715.8
27.5°	1890.6	1918.3	1924.7	1785.1	1510.1	1355.6	1328.9	1420.6	1636.9	1846.9	1885.2
30°	1987.6	2020.6	2027.0	1857.5	1543.1	1371.6	1358.8	1427.0	1660.4	1901.2	2006.7
32.5°	2096.3	2104.8	2099.5	1870.3	1579.4	1418.5	1365.2	1469.6	1687.0	1966.2	2117.6
35°	2226.3	2241.2	2186.8	1928.9	1660.4	1448.3	1429.1	1521.8	1732.8	1996.1	2251.8
37.5°	2325.4	2372.3	2249.7	1951.3	1676.4	1511.2	1514.4	1630.5	1764.8	2032.3	2400.0
40°	2511.9	2433.0	2356.3	2028.0	1737.1	1617.7	1600.7	1742.4	1872.5	2055.8	2497.0
42.5°	2614.2	2572.6	2397.9	2035.5	1830.9	1764.8	1769.1	1869.3	1928.9	2121.8	2523.6
45°	2639.8	2596.1	2454.3	2040.8	1923.6	1938.5	2012.1	2031.2	2012.1	2165.5	2573.7
47.5°	2704.8	2609.9	2447.9	2112.2	2073.9	2131.4	2225.2	2266.8	2125.0	2149.5	2597.1
50°	2692.0	2637.6	2434.1	2142.1	2257.2	2409.6	2472.5	2455.4	2250.8	2116.5	2571.6
52.5°	2638.7	2580.1	2476.7	2223.1	2428.8	2613.1	2700.5	2657.9	2362.7	2191.1	2554.5
55°	2716.5	2671.7	2532.1	2332.8	2557.7	2792.2	2854.0	2822.0	2500.2	2260.4	2651.5
57.5°	2800.7	2791.1	2682.4	2461.8	2710.1	2976.5	2976.5	2937.1	2619.5	2360.6	2795.4
60°	2922.2	2943.5	2793.2	2547.0	2762.3	2965.9	3120.4	3074.6	2739.9	2536.4	2958.4
62.5°	2882.7	2951.0	2936.0	2730.4	2822.0	3018.1	3102.3	3136.4	2889.1	2750.6	3175.8
65°	2755.9	2828.4	2935.0	2850.8	2777.2	2891.3	2933.9	3037.3	2963.7	2952.0	3265.3
67.5°	2604.6	2683.5	2749.5	2931.8	2686.7	2762.3	2725.0	2758.1	2882.7	3172.6	3316.5
70°	2274.2	2349.9	2454.3	2751.7	2446.9	2378.7	2369.1	2353.1	2547.0	3093.8	3084.2
72.5°	1870.3	1905.5	2078.1	2236.9	1810.6	1797.9	1812.8	1794.7	2019.5	2800.7	2641.9
75°	1400.3	1435.5	1533.6	1717.9	1233.0	1159.5	1244.8	1328.9	1542.1	2174.1	1898.0
77.5°	1052.9	1097.7	1159.5	1285.2	904.8	789.7	801.4	881.3	1114.7	1741.4	1063.6
80°	683.1	677.8	797.2	884.5	681.0	702.3	672.5	731.1	807.8	931.4	543.5
82.5°	394.3	399.6	449.7	507.3	474.2	542.4	391.1	653.3	576.5	379.4	202.5
85°	221.7	231.3	277.1	351.7	297.3	199.3	163.1	324.0	362.3	155.6	98.0
87.5°	22.4	19.2	37.3	133.2	81.0	33.0	49.0	77.8	87.4	58.6	28.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5
2.5°	1559.1	1559.1	1532.5	1487.7	1469.6	1437.6	1394.0	1407.8	1392.9	1338.5	1324.7
5°	1495.2	1444.0	1388.6	1320.4	1281.0	1200.0	1174.4	1128.6	1136.0	1090.2	1092.4
7.5°	1362.0	1321.5	1227.7	1138.2	1060.4	990.0	890.9	853.6	817.4	799.3	820.6
10°	1284.2	1208.5	1080.6	963.4	860.0	797.2	731.1	679.9	633.0	597.9	590.4
12.5°	1227.7	1160.6	1006.0	863.2	782.2	731.1	670.3	600.0	554.2	493.4	475.3
15°	1210.6	1128.6	965.5	823.8	744.9	660.7	591.5	522.2	462.5	398.6	376.2
17.5°	1269.3	1174.4	964.5	791.8	681.0	590.4	494.5	416.7	355.9	297.3	283.5
20°	1368.4	1223.4	995.4	772.6	620.2	498.8	390.1	312.3	244.0	205.7	196.1
22.5°	1481.3	1306.6	998.6	721.5	559.5	407.1	284.5	205.7	167.3	149.2	143.9
25°	1619.9	1439.8	1036.9	679.9	488.1	309.1	202.5	157.7	135.3	124.7	122.6
27.5°	1733.9	1532.5	1078.5	636.2	417.8	229.1	158.8	129.0	117.2	106.6	105.5
30°	1852.2	1639.1	1090.2	609.6	357.0	188.6	136.4	114.0	101.2	95.9	94.8
32.5°	1955.6	1755.2	1127.5	565.9	299.5	166.3	123.6	102.3	93.8	85.3	84.2
35°	2088.8	1822.4	1145.6	542.4	278.2	150.3	113.0	93.8	81.0	75.7	73.5
37.5°	2231.6	1887.4	1157.4	524.3	260.0	140.7	106.6	88.5	76.7	69.3	67.1
40°	2364.8	1979.0	1140.3	502.0	246.2	129.0	102.3	82.1	71.4	63.9	60.7
42.5°	2467.1	2068.5	1135.0	480.6	231.3	124.7	97.0	78.9	67.1	58.6	57.5
45°	2524.7	2129.3	1097.7	463.6	219.5	126.8	94.8	74.6	63.9	56.5	52.2
47.5°	2510.8	2176.2	1107.3	458.3	203.6	118.3	93.8	71.4	58.6	52.2	49.0
50°	2587.5	2271.0	1091.3	441.2	191.8	106.6	102.3	71.4	57.5	50.1	46.9
52.5°	2600.3	2357.4	1125.4	410.3	173.7	98.0	101.2	70.3	55.4	48.0	43.7
55°	2706.9	2457.5	1191.5	393.2	158.8	85.3	92.7	68.2	50.1	43.7	41.6
57.5°	2851.8	2665.3	1234.1	377.3	138.5	74.6	77.8	67.1	45.8	40.5	37.3
60°	2991.5	2748.5	1237.3	348.5	119.4	67.1	60.7	67.1	42.6	36.2	33.0
62.5°	3095.9	2748.5	1216.0	324.0	104.4	59.7	53.3	63.9	38.4	32.0	29.8
65°	3039.4	2674.9	1160.6	303.7	94.8	52.2	45.8	49.0	34.1	27.7	25.6
67.5°	2938.2	2445.8	1038.0	279.2	93.8	45.8	39.4	36.2	29.8	24.5	22.4
70°	2776.2	2136.8	864.3	251.5	91.7	41.6	35.2	30.9	26.6	21.3	19.2
72.5°	2236.9	1764.8	709.8	235.5	89.5	36.2	29.8	26.6	22.4	18.1	16.0
75°	1549.5	1127.5	546.7	201.4	87.4	33.0	27.7	23.4	19.2	14.9	13.9
77.5°	929.3	753.5	352.8	151.3	57.5	26.6	23.4	18.1	16.0	12.8	11.7
80°	434.8	355.9	142.8	58.6	27.7	19.2	16.0	13.9	12.8	10.7	9.6
82.5°	170.5	150.3	69.3	34.1	22.4	14.9	12.8	11.7	10.7	8.5	7.5
85°	91.7	81.0	33.0	23.4	16.0	10.7	10.7	9.6	8.5	7.5	6.4
87.5°	20.2	14.9	13.9	13.9	11.7	8.5	8.5	7.5	6.4	5.3	4.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5
2.5°	1317.2	1333.2	1307.6	1323.6	1301.2	1318.3	1320.4	1304.4	1308.7	1330.0	1339.6
5°	1122.2	1111.5	1088.1	1080.6	1081.7	1067.8	1073.2	1080.6	1092.4	1098.7	1117.9
7.5°	808.9	833.4	832.3	850.4	851.5	849.4	834.5	802.5	813.1	804.6	815.3
10°	578.7	589.3	609.6	621.3	642.6	630.9	596.8	584.0	577.6	576.5	587.2
12.5°	462.5	436.9	434.8	439.1	449.7	435.9	418.8	403.9	411.4	426.3	438.0
15°	358.1	336.8	309.1	304.8	306.9	300.5	282.4	263.2	268.6	283.5	292.0
17.5°	275.0	250.4	231.3	218.5	214.2	191.8	165.2	149.2	144.9	143.9	151.3
20°	185.4	181.2	178.0	162.0	162.0	130.0	107.6	95.9	95.9	98.0	99.1
22.5°	138.5	133.2	134.3	131.1	122.6	97.0	85.3	82.1	82.1	84.2	84.2
25°	120.4	113.0	110.8	109.8	101.2	83.1	74.6	71.4	71.4	73.5	73.5
27.5°	102.3	100.2	97.0	92.7	85.3	71.4	66.1	62.9	63.9	65.0	63.9
30°	93.8	88.5	84.2	84.2	75.7	63.9	59.7	57.5	55.4	57.5	58.6
32.5°	83.1	79.9	77.8	74.6	65.0	56.5	52.2	50.1	49.0	49.0	50.1
35°	71.4	71.4	69.3	65.0	56.5	51.2	45.8	43.7	42.6	43.7	43.7
37.5°	63.9	60.7	61.8	57.5	50.1	44.8	39.4	37.3	37.3	36.2	37.3
40°	59.7	54.4	51.2	49.0	44.8	38.4	34.1	32.0	30.9	30.9	30.9
42.5°	53.3	49.0	42.6	41.6	40.5	33.0	27.7	26.6	25.6	24.5	24.5
45°	50.1	43.7	38.4	33.0	33.0	27.7	23.4	21.3	20.2	19.2	20.2
47.5°	45.8	39.4	33.0	27.7	26.6	22.4	18.1	16.0	14.9	14.9	14.9
50°	43.7	35.2	28.8	23.4	20.2	18.1	13.9	11.7	10.7	10.7	10.7
52.5°	40.5	33.0	25.6	20.2	16.0	13.9	10.7	8.5	7.5	7.5	7.5
55°	36.2	29.8	22.4	17.1	13.9	10.7	7.5	5.3	4.3	4.3	4.3
57.5°	34.1	26.6	19.2	14.9	10.7	7.5	4.3	3.2	3.2	2.1	3.2
60°	30.9	23.4	16.0	11.7	8.5	5.3	3.2	1.1	1.1	1.1	1.1
62.5°	26.6	20.2	13.9	9.6	6.4	3.2	1.1	0.0	0.0	0.0	0.0
65°	22.4	16.0	10.7	7.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.2	13.9	8.5	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.1	11.7	6.4	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.9	9.6	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.7	7.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.6	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.1	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°	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5	1500.5
2.5°	1353.5	1347.1	1379.0	1431.3	1457.9	1510.1	1522.9	1555.9	1547.4	1559.1
5°	1120.1	1132.9	1179.7	1256.5	1284.2	1359.8	1431.3	1502.7	1548.5	1570.9
7.5°	831.3	873.9	931.4	1001.8	1073.2	1172.3	1293.8	1376.9	1421.7	1469.6
10°	619.2	665.0	731.1	800.3	916.5	1027.3	1148.8	1252.2	1290.6	1335.3
12.5°	487.0	558.4	635.2	709.8	779.0	884.5	1034.8	1185.1	1226.6	1260.7
15°	338.9	426.3	536.1	633.0	730.0	821.7	977.3	1159.5	1216.0	1273.5
17.5°	187.6	256.8	382.6	519.0	661.8	802.5	996.4	1206.4	1291.6	1332.1
20°	108.7	136.4	225.9	387.9	576.5	760.9	1006.0	1294.8	1407.8	1428.1
22.5°	89.5	99.1	127.9	243.0	472.1	734.3	1055.1	1418.5	1533.6	1581.5
25°	76.7	84.2	99.1	146.0	357.0	677.8	1086.0	1573.0	1679.6	1731.8
27.5°	68.2	75.7	87.4	107.6	243.0	600.0	1137.1	1712.6	1819.2	1890.6
30°	59.7	66.1	77.8	91.7	168.4	512.6	1180.8	1814.9	1965.2	1987.6
32.5°	53.3	58.6	67.1	78.9	124.7	389.0	1216.0	1920.4	2047.2	2096.3
35°	45.8	52.2	57.5	67.1	94.8	293.1	1194.7	2002.5	2167.7	2226.3
37.5°	40.5	44.8	50.1	56.5	79.9	229.1	1151.0	2100.5	2271.0	2325.4
40°	34.1	37.3	43.7	50.1	72.5	176.9	1100.9	2218.8	2416.0	2511.9
42.5°	28.8	32.0	36.2	46.9	59.7	131.1	999.6	2310.5	2533.2	2614.2
45°	22.4	26.6	33.0	46.9	48.0	97.0	895.2	2378.7	2599.3	2639.8
47.5°	17.1	21.3	32.0	40.5	38.4	67.1	771.6	2456.5	2667.5	2704.8
50°	12.8	17.1	36.2	35.2	32.0	51.2	693.8	2510.8	2671.7	2692.0
52.5°	8.5	12.8	29.8	26.6	26.6	44.8	672.5	2508.7	2682.4	2638.7
55°	6.4	9.6	17.1	19.2	23.4	39.4	653.3	2588.6	2685.6	2716.5
57.5°	4.3	7.5	11.7	14.9	20.2	34.1	613.8	2684.5	2784.7	2800.7
60°	2.1	5.3	8.5	11.7	17.1	29.8	558.4	2754.9	2905.1	2922.2
62.5°	1.1	3.2	6.4	9.6	13.9	23.4	500.9	2643.0	2852.9	2882.7
65°	0.0	2.1	4.3	6.4	8.5	17.1	407.1	2386.1	2646.2	2755.9
67.5°	0.0	0.0	2.1	4.3	5.3	12.8	306.9	2170.9	2455.4	2604.6
70°	0.0	0.0	1.1	1.1	3.2	9.6	196.1	1797.9	2192.2	2274.2
72.5°	0.0	0.0	0.0	0.0	1.1	6.4	114.0	1335.3	1717.9	1870.3
75°	0.0	0.0	0.0	0.0	0.0	5.3	57.5	859.0	1195.7	1400.3
77.5°	0.0	0.0	0.0	0.0	0.0	4.3	30.9	554.2	881.3	1052.9
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.1	321.8	563.8	683.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	157.7	336.8	394.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	84.2	168.4	221.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.7	22.4
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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