

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: P674100

Luminaire Tested: **CCP-SA-2B-727-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674100
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-727-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

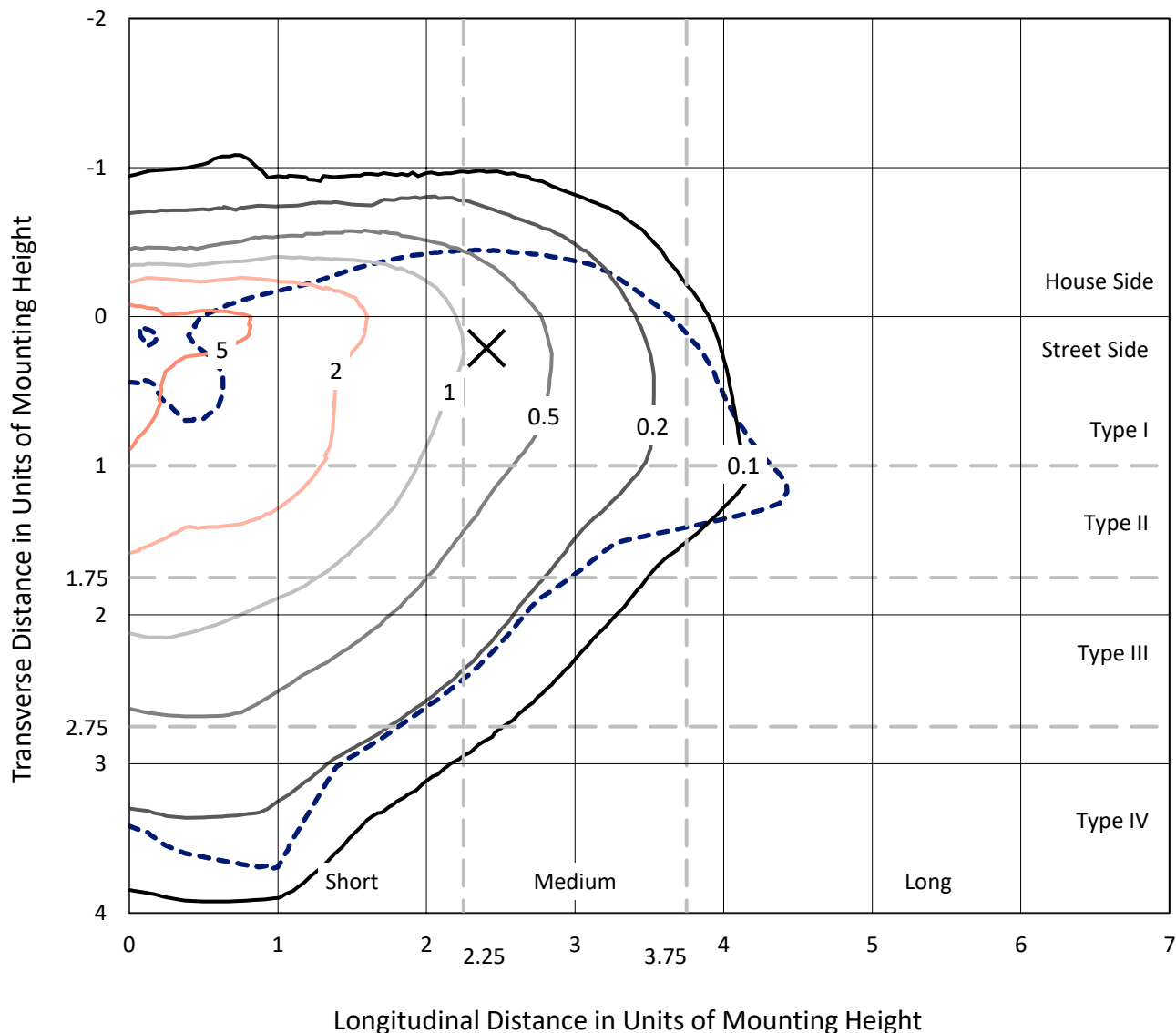
Lumens per Lamp: N/A
Luminaire Lumens: 4190.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

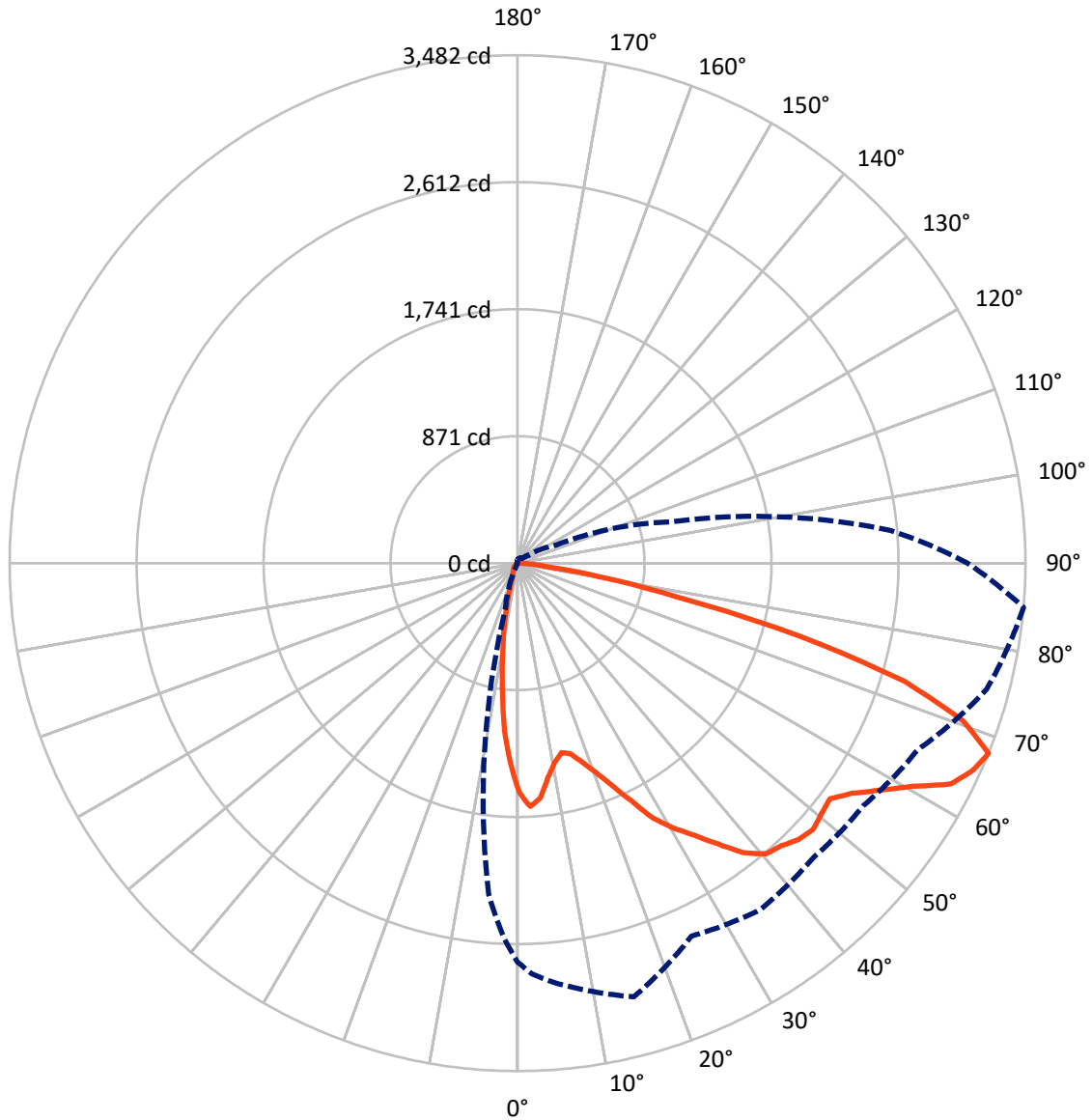
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 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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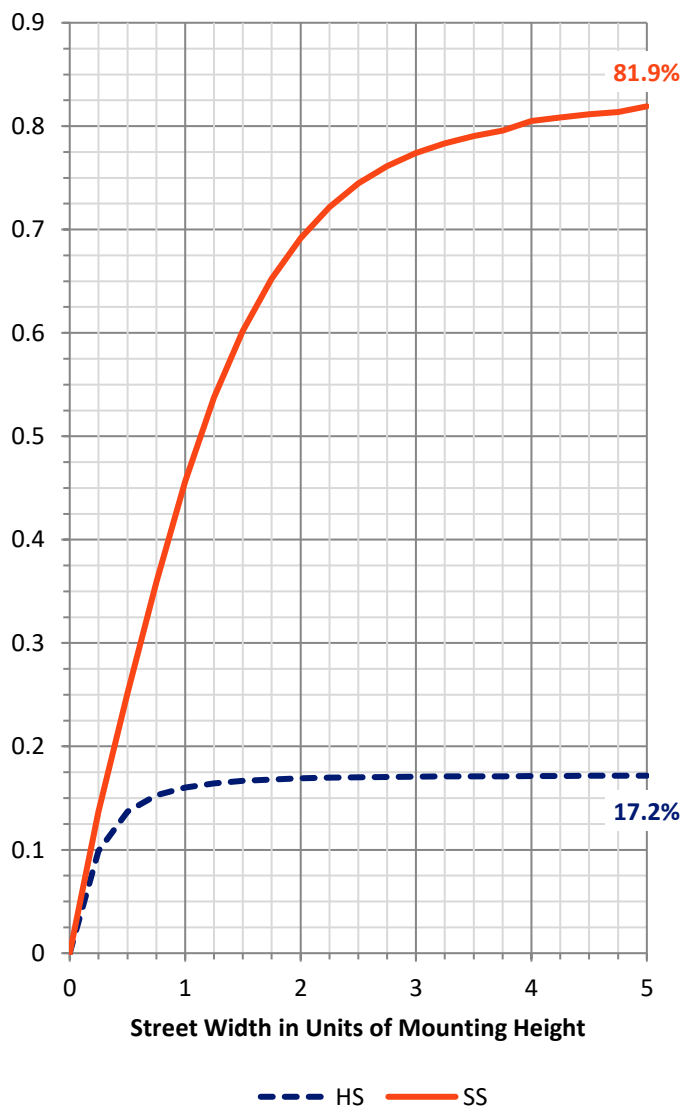
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	727.6	0.0	727.6
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3462.9	0.0	3462.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	4190.5	0.0	4190.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.9
10°-20°	234.7	5.6
20°-30°	324.8	7.8
30°-40°	459.0	11.0
40°-50°	625.0	14.9
50°-60°	827.8	19.8
60°-70°	961.1	22.9
70°-80°	544.3	13.0
80°-90°	94.0	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°	4190.5	100.0
0°-180°	4190.5	100.0



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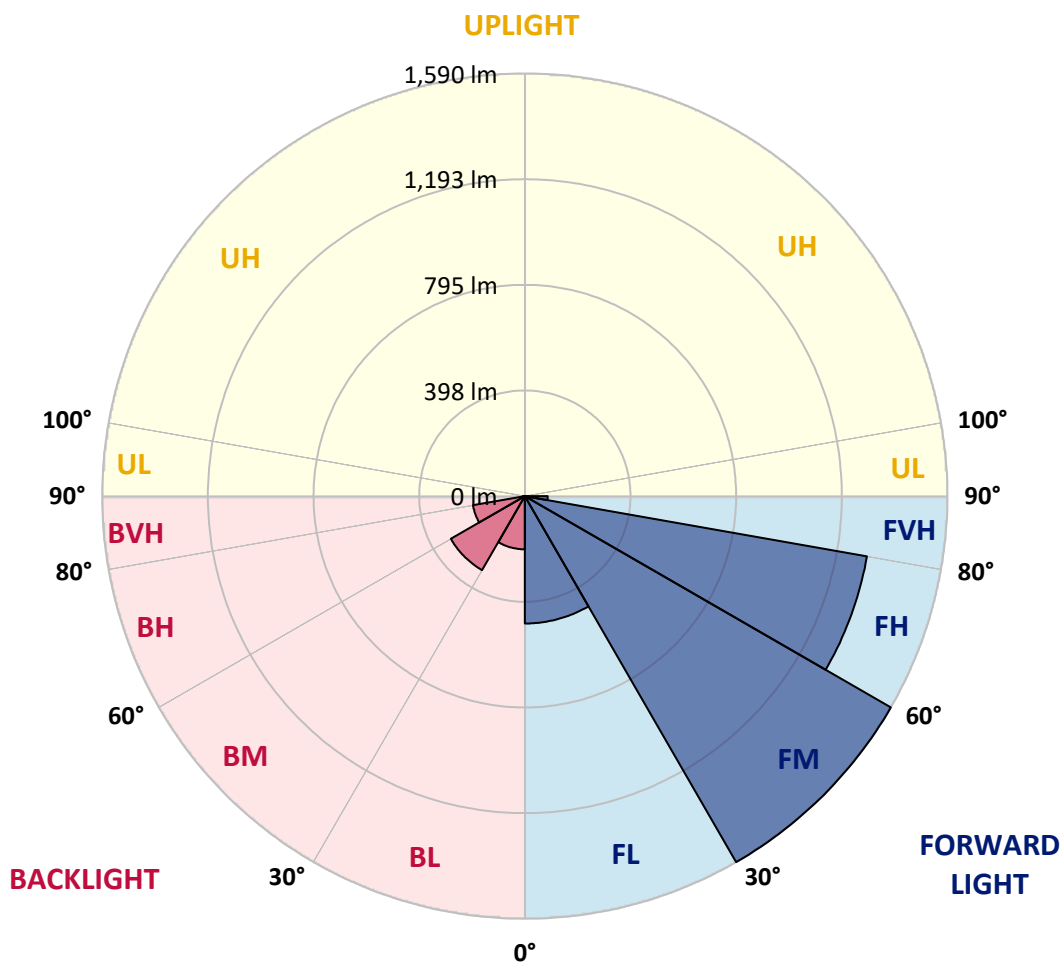
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.2	11.4			
FM (30°-60°)	1590.3	38.0			
FH (60°-80°)	1307.2	31.2			G1/1800
FVH (80°-90°)	86.1	2.1			G1/100
BL (0°-30°)	200.0	4.8	B1/500		
BM (30°-60°)	321.5	7.7	B1/1000		
BH (60°-80°)	198.2	4.7	B1/500		G1/500
BVH (80°-90°)	7.9	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°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1637.1	1671.8	1672.9	1688.6	1704.3	1704.3	1741.2	1732.3	1699.8	1694.2	1670.7
5°	1649.4	1661.8	1670.7	1750.2	1817.3	1810.6	1830.7	1817.3	1754.6	1674.1	1619.2
7.5°	1543.1	1556.6	1592.4	1727.8	1818.4	1848.6	1886.7	1802.7	1736.7	1591.3	1486.1
10°	1402.1	1427.9	1493.9	1648.3	1760.2	1856.5	1856.5	1789.3	1661.8	1519.6	1390.9
12.5°	1323.8	1375.3	1411.1	1567.8	1713.2	1779.2	1777.0	1741.2	1658.4	1479.4	1333.9
15°	1337.2	1351.8	1427.9	1549.8	1646.1	1642.7	1683.0	1671.8	1613.6	1515.2	1355.1
17.5°	1398.8	1421.2	1487.2	1549.8	1595.7	1582.3	1581.2	1634.9	1638.3	1575.6	1434.6
20°	1499.5	1565.5	1596.8	1615.9	1559.9	1502.9	1496.1	1571.1	1629.3	1652.8	1529.7
22.5°	1660.6	1704.3	1768.1	1670.7	1525.2	1453.6	1440.2	1523.0	1640.5	1744.6	1652.8
25°	1818.4	1852.0	1913.5	1788.2	1564.4	1443.5	1420.0	1491.7	1683.0	1872.1	1801.6
27.5°	1985.2	2014.2	2021.0	1874.4	1585.7	1423.4	1395.4	1491.7	1718.8	1939.3	1979.6
30°	2087.0	2121.7	2128.4	1950.5	1620.3	1440.2	1426.8	1498.4	1743.4	1996.3	2107.1
32.5°	2201.1	2210.1	2204.5	1963.9	1658.4	1489.4	1433.5	1543.1	1771.4	2064.6	2223.5
35°	2337.6	2353.3	2296.2	2025.4	1743.4	1520.8	1500.6	1598.0	1819.5	2095.9	2364.5
37.5°	2441.7	2490.9	2362.3	2048.9	1760.2	1586.8	1590.1	1712.1	1853.1	2134.0	2520.0
40°	2637.5	2554.7	2474.2	2129.5	1824.0	1698.7	1680.8	1829.6	1966.1	2158.6	2621.9
42.5°	2745.0	2701.3	2517.8	2137.3	1922.5	1853.1	1857.6	1962.8	2025.4	2228.0	2649.9
45°	2771.8	2725.9	2577.1	2142.9	2019.8	2035.5	2112.7	2132.9	2112.7	2273.9	2702.4
47.5°	2840.1	2740.5	2570.4	2217.9	2177.6	2238.0	2336.5	2380.2	2231.3	2257.1	2727.1
50°	2826.7	2769.6	2555.9	2249.2	2370.1	2530.1	2596.1	2578.2	2363.4	2222.4	2700.2
52.5°	2770.7	2709.2	2600.6	2334.3	2550.3	2743.8	2835.6	2790.8	2480.9	2300.7	2682.3
55°	2852.4	2805.4	2658.8	2449.5	2685.7	2931.8	2996.7	2963.2	2625.2	2373.5	2784.1
57.5°	2940.8	2930.7	2816.6	2584.9	2845.7	3125.4	3125.4	3084.0	2750.6	2478.6	2935.2
60°	3068.4	3090.7	2933.0	2674.5	2900.5	3114.2	3276.5	3228.4	2877.0	2663.3	3106.4
62.5°	3027.0	3098.6	3082.9	2866.9	2963.2	3169.1	3257.5	3293.3	3033.7	2888.2	3334.7
65°	2893.8	2969.9	3081.8	2993.4	2916.2	3035.9	3080.7	3189.2	3112.0	3099.7	3428.7
67.5°	2734.9	2817.7	2887.1	3078.4	2821.1	2900.5	2861.3	2896.0	3027.0	3331.3	3482.4
70°	2388.0	2467.4	2577.1	2889.3	2569.3	2497.7	2487.6	2470.8	2674.5	3248.5	3238.5
72.5°	1963.9	2000.8	2182.1	2348.8	1901.2	1887.8	1903.5	1884.4	2120.6	2940.8	2774.1
75°	1470.4	1507.3	1610.3	1803.9	1294.7	1217.5	1307.0	1395.4	1619.2	2282.8	1993.0
77.5°	1105.6	1152.6	1217.5	1349.5	950.1	829.2	841.5	925.4	1170.5	1828.5	1116.8
80°	717.3	711.7	837.0	928.8	715.1	737.4	706.1	767.7	848.2	978.0	570.7
82.5°	414.0	419.6	472.2	532.7	498.0	569.6	410.7	686.0	605.4	398.4	212.6
85°	232.8	242.8	290.9	369.3	312.2	209.3	171.2	340.2	380.5	163.4	103.0
87.5°	23.5	20.1	39.2	139.9	85.0	34.7	51.5	81.7	91.8	61.5	30.2
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°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1637.1	1637.1	1609.2	1562.2	1543.1	1509.6	1463.7	1478.2	1462.6	1405.5	1390.9
5°	1570.0	1516.3	1458.1	1386.5	1345.1	1260.0	1233.2	1185.0	1192.9	1144.8	1147.0
7.5°	1430.1	1387.6	1289.1	1195.1	1113.4	1039.6	935.5	896.3	858.3	839.3	861.6
10°	1348.4	1269.0	1134.7	1011.6	903.1	837.0	767.7	713.9	664.7	627.8	619.9
12.5°	1289.1	1218.6	1056.4	906.4	821.4	767.7	703.9	630.0	581.9	518.1	499.1
15°	1271.2	1185.0	1013.8	865.0	782.2	693.8	621.1	548.3	485.7	418.5	395.0
17.5°	1332.8	1233.2	1012.7	831.4	715.1	619.9	519.2	437.5	373.8	312.2	297.7
20°	1436.8	1284.6	1045.2	811.3	651.3	523.7	409.6	327.9	256.3	216.0	205.9
22.5°	1555.4	1371.9	1048.5	757.6	587.5	427.5	298.8	216.0	175.7	156.7	151.1
25°	1700.9	1511.8	1088.8	713.9	512.5	324.5	212.6	165.6	142.1	130.9	128.7
27.5°	1820.7	1609.2	1132.5	668.1	438.7	240.6	166.7	135.4	123.1	111.9	110.8
30°	1944.9	1721.1	1144.8	640.1	374.9	198.1	143.2	119.7	106.3	100.7	99.6
32.5°	2053.4	1843.0	1183.9	594.2	314.4	174.6	129.8	107.4	98.5	89.5	88.4
35°	2193.3	1913.5	1203.0	569.6	292.1	157.8	118.6	98.5	85.0	79.5	77.2
37.5°	2343.2	1981.8	1215.3	550.6	273.0	147.7	111.9	92.9	80.6	72.7	70.5
40°	2483.1	2078.0	1197.4	527.1	258.5	135.4	107.4	86.2	75.0	67.1	63.8
42.5°	2590.5	2172.0	1191.8	504.7	242.8	130.9	101.8	82.8	70.5	61.5	60.4
45°	2651.0	2235.8	1152.6	486.8	230.5	133.2	99.6	78.3	67.1	59.3	54.8
47.5°	2636.4	2285.0	1162.7	481.2	213.7	124.2	98.5	75.0	61.5	54.8	51.5
50°	2717.0	2384.6	1145.9	463.3	201.4	111.9	107.4	75.0	60.4	52.6	49.2
52.5°	2730.4	2475.3	1181.7	430.8	182.4	103.0	106.3	73.9	58.2	50.4	45.9
55°	2842.3	2580.5	1251.1	412.9	166.7	89.5	97.4	71.6	52.6	45.9	43.6
57.5°	2994.5	2798.7	1295.8	396.1	145.5	78.3	81.7	70.5	48.1	42.5	39.2
60°	3141.1	2886.0	1299.2	365.9	125.3	70.5	63.8	70.5	44.8	38.0	34.7
62.5°	3250.8	2886.0	1276.8	340.2	109.7	62.7	56.0	67.1	40.3	33.6	31.3
65°	3191.5	2808.8	1218.6	318.9	99.6	54.8	48.1	51.5	35.8	29.1	26.9
67.5°	3085.2	2568.2	1089.9	293.2	98.5	48.1	41.4	38.0	31.3	25.7	23.5
70°	2915.1	2243.6	907.5	264.1	96.2	43.6	36.9	32.5	28.0	22.4	20.1
72.5°	2348.8	1853.1	745.3	247.3	94.0	38.0	31.3	28.0	23.5	19.0	16.8
75°	1627.1	1183.9	574.1	211.5	91.8	34.7	29.1	24.6	20.1	15.7	14.5
77.5°	975.8	791.2	370.4	158.9	60.4	28.0	24.6	19.0	16.8	13.4	12.3
80°	456.6	373.8	149.9	61.5	29.1	20.1	16.8	14.5	13.4	11.2	10.1
82.5°	179.0	157.8	72.7	35.8	23.5	15.7	13.4	12.3	11.2	9.0	7.8
85°	96.2	85.0	34.7	24.6	16.8	11.2	11.2	10.1	9.0	7.8	6.7
87.5°	21.3	15.7	14.5	14.5	12.3	9.0	9.0	7.8	6.7	5.6	4.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1383.1	1399.9	1373.0	1389.8	1366.3	1384.2	1386.5	1369.7	1374.2	1396.5	1406.6
5°	1178.3	1167.1	1142.5	1134.7	1135.8	1121.3	1126.9	1134.7	1147.0	1153.7	1173.9
7.5°	849.3	875.1	874.0	893.0	894.1	891.9	876.2	842.6	853.8	844.9	856.1
10°	607.6	618.8	640.1	652.4	674.8	662.5	626.7	613.2	606.5	605.4	616.6
12.5°	485.7	458.8	456.6	461.0	472.2	457.7	439.8	424.1	431.9	447.6	459.9
15°	376.0	353.6	324.5	320.0	322.3	315.6	296.5	276.4	282.0	297.7	306.6
17.5°	288.7	263.0	242.8	229.4	224.9	201.4	173.4	156.7	152.2	151.1	158.9
20°	194.7	190.2	186.9	170.1	170.1	136.5	113.0	100.7	100.7	103.0	104.1
22.5°	145.5	139.9	141.0	137.6	128.7	101.8	89.5	86.2	86.2	88.4	88.4
25°	126.4	118.6	116.4	115.3	106.3	87.3	78.3	75.0	75.0	77.2	77.2
27.5°	107.4	105.2	101.8	97.4	89.5	75.0	69.4	66.0	67.1	68.3	67.1
30°	98.5	92.9	88.4	88.4	79.5	67.1	62.7	60.4	58.2	60.4	61.5
32.5°	87.3	83.9	81.7	78.3	68.3	59.3	54.8	52.6	51.5	51.5	52.6
35°	75.0	75.0	72.7	68.3	59.3	53.7	48.1	45.9	44.8	45.9	45.9
37.5°	67.1	63.8	64.9	60.4	52.6	47.0	41.4	39.2	39.2	38.0	39.2
40°	62.7	57.1	53.7	51.5	47.0	40.3	35.8	33.6	32.5	32.5	32.5
42.5°	56.0	51.5	44.8	43.6	42.5	34.7	29.1	28.0	26.9	25.7	25.7
45°	52.6	45.9	40.3	34.7	34.7	29.1	24.6	22.4	21.3	20.1	21.3
47.5°	48.1	41.4	34.7	29.1	28.0	23.5	19.0	16.8	15.7	15.7	15.7
50°	45.9	36.9	30.2	24.6	21.3	19.0	14.5	12.3	11.2	11.2	11.2
52.5°	42.5	34.7	26.9	21.3	16.8	14.5	11.2	9.0	7.8	7.8	7.8
55°	38.0	31.3	23.5	17.9	14.5	11.2	7.8	5.6	4.5	4.5	4.5
57.5°	35.8	28.0	20.1	15.7	11.2	7.8	4.5	3.4	3.4	2.2	3.4
60°	32.5	24.6	16.8	12.3	9.0	5.6	3.4	1.1	1.1	1.1	1.1
62.5°	28.0	21.3	14.5	10.1	6.7	3.4	1.1	0.0	0.0	0.0	0.0
65°	23.5	16.8	11.2	7.8	4.5	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	20.1	14.5	9.0	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.9	12.3	6.7	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.5	10.1	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.3	7.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.8	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	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°	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6	1575.6
2.5°	1421.2	1414.4	1448.0	1502.9	1530.8	1585.7	1599.1	1633.8	1624.8	1637.1
5°	1176.1	1189.5	1238.8	1319.3	1348.4	1427.9	1502.9	1577.8	1625.9	1649.4
7.5°	872.8	917.6	978.0	1051.9	1126.9	1230.9	1358.5	1445.8	1492.8	1543.1
10°	650.2	698.3	767.7	840.4	962.4	1078.7	1206.3	1314.9	1355.1	1402.1
12.5°	511.4	586.4	666.9	745.3	818.0	928.8	1086.6	1244.4	1288.0	1323.8
15°	355.8	447.6	562.9	664.7	766.5	862.8	1026.1	1217.5	1276.8	1337.2
17.5°	196.9	269.7	401.7	545.0	694.9	842.6	1046.3	1266.7	1356.3	1398.8
20°	114.1	143.2	237.2	407.3	605.4	799.0	1056.4	1359.6	1478.2	1499.5
22.5°	94.0	104.1	134.3	255.1	495.7	771.0	1107.8	1489.4	1610.3	1660.6
25°	80.6	88.4	104.1	153.3	374.9	711.7	1140.3	1651.7	1763.6	1818.4
27.5°	71.6	79.5	91.8	113.0	255.1	630.0	1194.0	1798.3	1910.2	1985.2
30°	62.7	69.4	81.7	96.2	176.8	538.3	1239.9	1905.7	2063.5	2087.0
32.5°	56.0	61.5	70.5	82.8	130.9	408.4	1276.8	2016.5	2149.6	2201.1
35°	48.1	54.8	60.4	70.5	99.6	307.7	1254.4	2102.6	2276.1	2337.6
37.5°	42.5	47.0	52.6	59.3	83.9	240.6	1208.5	2205.6	2384.6	2441.7
40°	35.8	39.2	45.9	52.6	76.1	185.8	1156.0	2329.8	2536.8	2637.5
42.5°	30.2	33.6	38.0	49.2	62.7	137.6	1049.6	2426.0	2659.9	2745.0
45°	23.5	28.0	34.7	49.2	50.4	101.8	940.0	2497.7	2729.3	2771.8
47.5°	17.9	22.4	33.6	42.5	40.3	70.5	810.2	2579.4	2800.9	2840.1
50°	13.4	17.9	38.0	36.9	33.6	53.7	728.5	2636.4	2805.4	2826.7
52.5°	9.0	13.4	31.3	28.0	28.0	47.0	706.1	2634.2	2816.6	2770.7
55°	6.7	10.1	17.9	20.1	24.6	41.4	686.0	2718.1	2819.9	2852.4
57.5°	4.5	7.8	12.3	15.7	21.3	35.8	644.6	2818.8	2924.0	2940.8
60°	2.2	5.6	9.0	12.3	17.9	31.3	586.4	2892.7	3050.5	3068.4
62.5°	1.1	3.4	6.7	10.1	14.5	24.6	525.9	2775.2	2995.6	3027.0
65°	0.0	2.2	4.5	6.7	9.0	17.9	427.5	2505.5	2778.5	2893.8
67.5°	0.0	0.0	2.2	4.5	5.6	13.4	322.3	2279.5	2578.2	2734.9
70°	0.0	0.0	1.1	1.1	3.4	10.1	205.9	1887.8	2301.8	2388.0
72.5°	0.0	0.0	0.0	0.0	1.1	6.7	119.7	1402.1	1803.9	1963.9
75°	0.0	0.0	0.0	0.0	0.0	5.6	60.4	901.9	1255.5	1470.4
77.5°	0.0	0.0	0.0	0.0	0.0	4.5	32.5	581.9	925.4	1105.6
80°	0.0	0.0	0.0	0.0	0.0	1.1	19.0	337.9	592.0	717.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	165.6	353.6	414.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	88.4	176.8	232.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	12.3	23.5
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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