

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: P674188

Luminaire Tested: **CCP-SA-2B-835-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674188
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-835-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

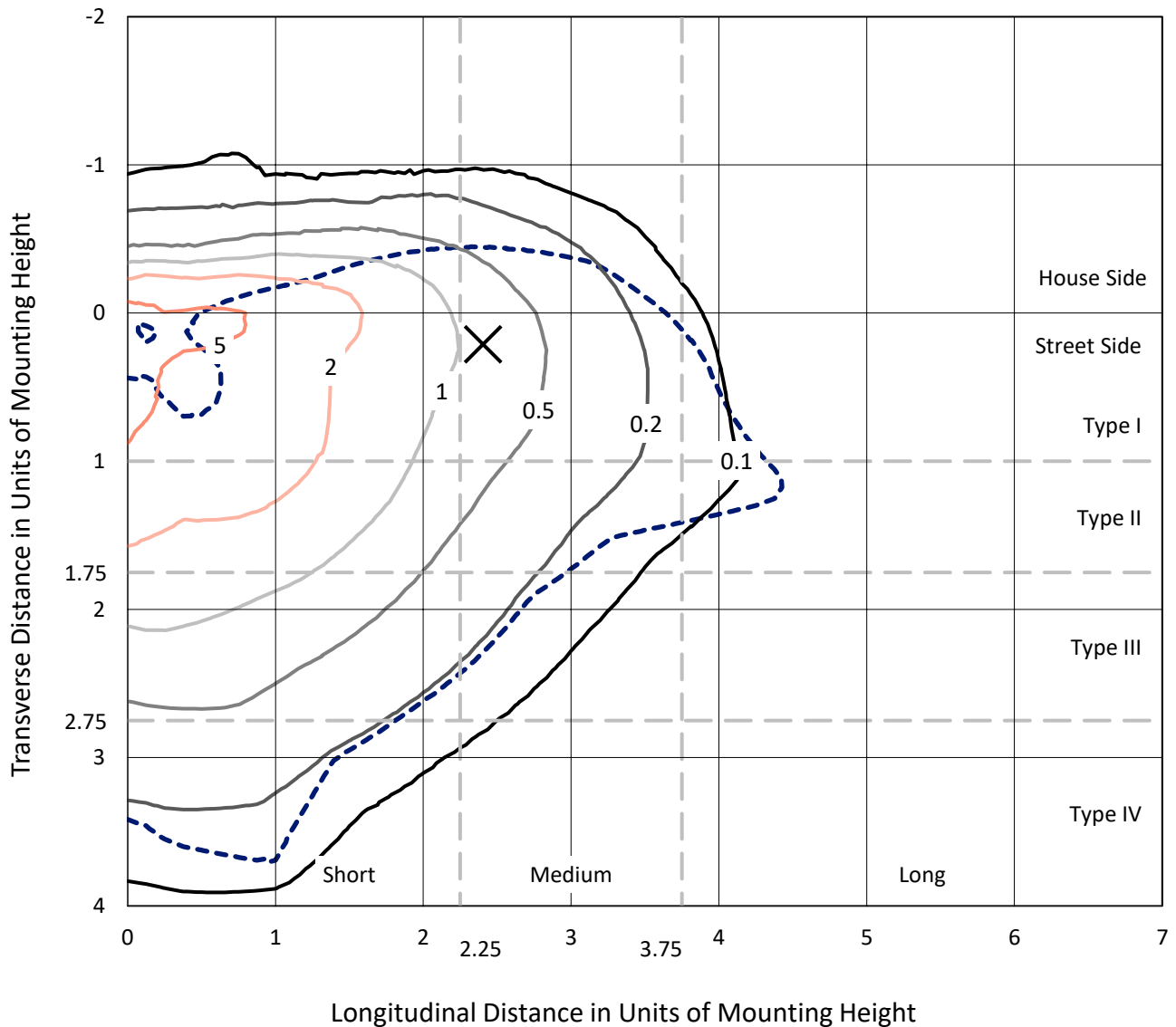
Lumens per Lamp: N/A
Luminaire Lumens: 4128.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

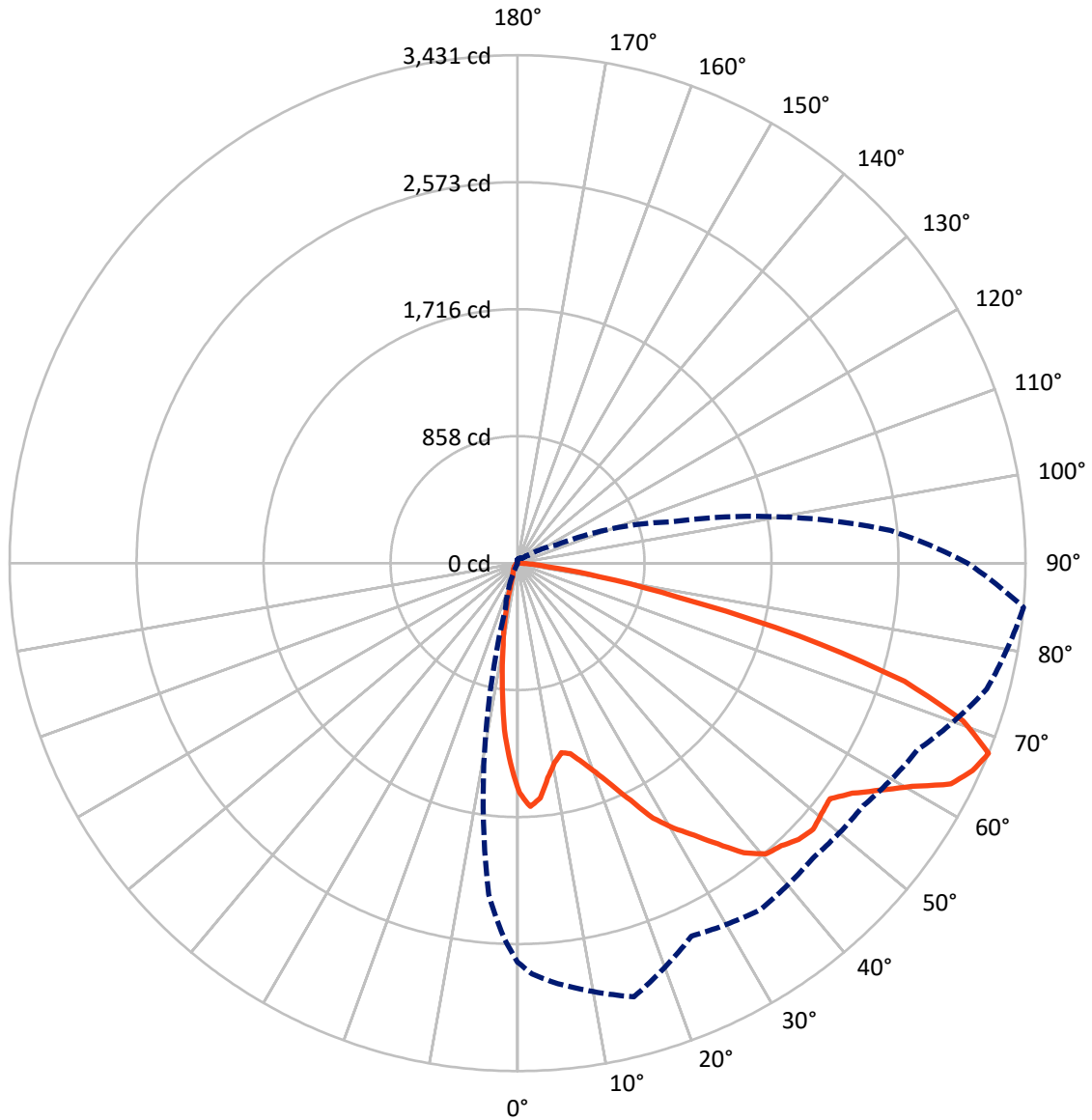
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 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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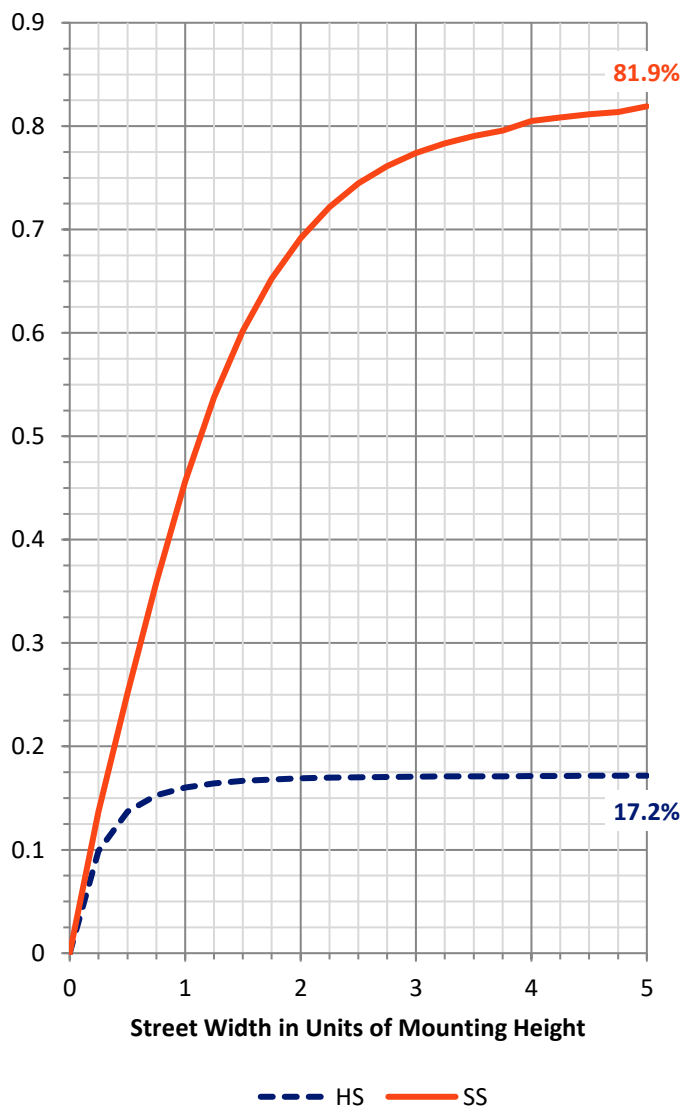
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.9	0.0	716.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3411.9	0.0	3411.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	4128.8	0.0	4128.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.9
10°-20°	231.3	5.6
20°-30°	320.0	7.8
30°-40°	452.3	11.0
40°-50°	615.8	14.9
50°-60°	815.6	19.8
60°-70°	947.0	22.9
70°-80°	536.3	13.0
80°-90°	92.7	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°	4128.8	100.0
0°-180°	4128.8	100.0



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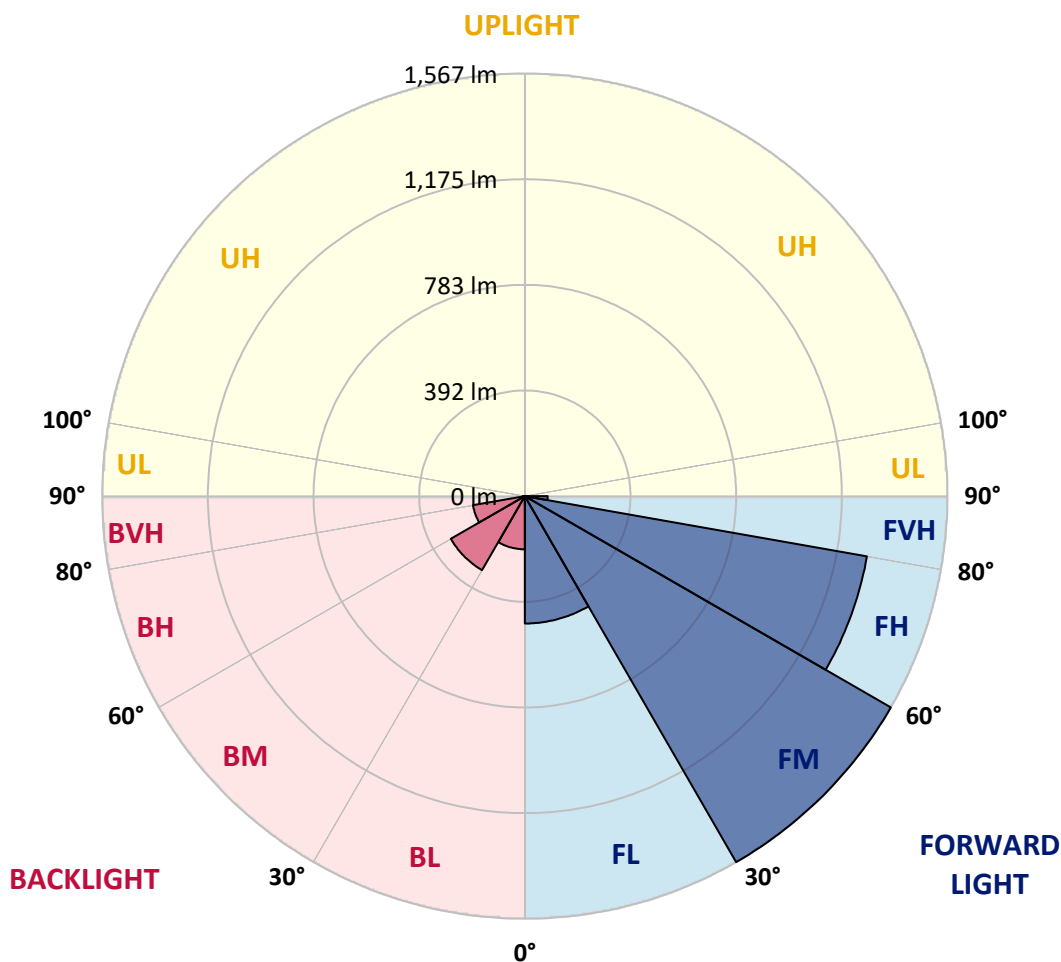
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.2	11.4			
FM (30°-60°)	1566.9	38.0			
FH (60°-80°)	1288.0	31.2			G1/1800
FVH (80°-90°)	84.8	2.1			G1/100
BL (0°-30°)	197.1	4.8	B1/500		
BM (30°-60°)	316.8	7.7	B1/1000		
BH (60°-80°)	195.2	4.7	B1/500		G1/500
BVH (80°-90°)	7.8	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°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1613.1	1647.2	1648.3	1663.8	1679.2	1679.2	1715.6	1706.8	1674.8	1669.3	1646.1
5°	1625.2	1637.3	1646.1	1724.4	1790.6	1784.0	1803.8	1790.6	1728.8	1649.4	1595.4
7.5°	1520.4	1533.7	1569.0	1702.4	1791.7	1821.4	1858.9	1776.2	1711.2	1567.8	1464.2
10°	1381.5	1406.9	1471.9	1624.1	1734.3	1829.2	1829.2	1763.0	1637.3	1497.3	1370.5
12.5°	1304.3	1355.1	1390.3	1544.7	1688.0	1753.1	1750.9	1715.6	1634.0	1457.6	1314.3
15°	1317.6	1331.9	1406.9	1527.1	1621.9	1618.6	1658.3	1647.2	1589.9	1492.9	1335.2
17.5°	1378.2	1400.3	1465.3	1527.1	1572.3	1559.0	1557.9	1610.8	1614.2	1552.4	1413.5
20°	1477.4	1542.5	1573.4	1592.1	1537.0	1480.7	1474.1	1548.0	1605.3	1628.5	1507.2
22.5°	1636.2	1679.2	1742.1	1646.1	1502.8	1432.2	1419.0	1500.6	1616.4	1718.9	1628.5
25°	1791.7	1824.7	1885.4	1761.9	1541.4	1422.3	1399.2	1469.7	1658.3	1844.6	1775.1
27.5°	1956.0	1984.6	1991.2	1846.8	1562.3	1402.5	1374.9	1469.7	1693.5	1910.7	1950.4
30°	2056.3	2090.5	2097.1	1921.8	1596.5	1419.0	1405.8	1476.3	1717.8	1967.0	2076.1
32.5°	2168.7	2177.6	2172.1	1935.0	1634.0	1467.5	1412.4	1520.4	1745.4	2034.2	2190.8
35°	2303.3	2318.7	2262.5	1995.6	1717.8	1498.4	1478.5	1574.5	1792.8	2065.1	2329.7
37.5°	2405.8	2454.3	2327.5	2018.8	1734.3	1563.4	1566.7	1686.9	1825.9	2102.6	2483.0
40°	2598.7	2517.2	2437.8	2098.2	1797.2	1673.7	1656.1	1802.7	1937.2	2126.9	2583.3
42.5°	2704.6	2661.6	2480.8	2105.9	1894.2	1825.9	1830.3	1933.9	1995.6	2195.2	2610.9
45°	2731.1	2685.9	2539.2	2111.4	1990.1	2005.6	2081.6	2101.5	2081.6	2240.4	2662.7
47.5°	2798.3	2700.2	2532.6	2185.3	2145.6	2205.1	2302.2	2345.2	2198.5	2223.9	2687.0
50°	2785.1	2728.9	2518.3	2216.2	2335.2	2492.9	2558.0	2540.3	2328.6	2189.7	2660.5
52.5°	2730.0	2669.3	2562.4	2300.0	2512.7	2703.5	2793.9	2749.8	2444.4	2266.9	2642.9
55°	2810.4	2764.1	2619.7	2413.5	2646.2	2888.7	2952.7	2919.6	2586.6	2338.5	2743.2
57.5°	2897.5	2887.6	2775.2	2546.9	2803.8	3079.5	3079.5	3038.7	2710.1	2442.2	2892.0
60°	3023.2	3045.3	2889.8	2635.1	2857.9	3068.4	3228.3	3180.9	2834.7	2624.1	3060.7
62.5°	2982.4	3053.0	3037.6	2824.8	2919.6	3122.5	3209.6	3244.9	2989.1	2845.7	3285.6
65°	2851.2	2926.2	3036.5	2949.4	2873.3	2991.3	3035.4	3142.3	3066.2	3054.1	3378.3
67.5°	2694.7	2776.3	2844.6	3033.2	2779.6	2857.9	2819.3	2853.4	2982.4	3282.3	3431.2
70°	2352.9	2431.2	2539.2	2846.8	2531.5	2460.9	2451.0	2434.5	2635.1	3200.8	3190.8
72.5°	1935.0	1971.4	2150.0	2314.3	1873.3	1860.0	1875.5	1856.7	2089.4	2897.5	2733.3
75°	1448.8	1485.2	1586.6	1777.3	1275.7	1199.6	1287.8	1374.9	1595.4	2249.2	1963.7
77.5°	1089.3	1135.6	1199.6	1329.7	936.1	817.0	829.1	911.8	1153.3	1801.6	1100.4
80°	706.7	701.2	824.7	915.1	704.5	726.6	695.7	756.4	835.7	963.6	562.3
82.5°	407.9	413.5	465.3	524.8	490.6	561.2	404.6	675.9	596.5	392.5	209.5
85°	229.3	239.3	286.7	363.8	307.6	206.2	168.7	335.2	374.9	161.0	101.4
87.5°	23.2	19.8	38.6	137.8	83.8	34.2	50.7	80.5	90.4	60.6	29.8
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°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1613.1	1613.1	1585.5	1539.2	1520.4	1487.4	1442.2	1456.5	1441.1	1384.8	1370.5
5°	1546.9	1494.0	1436.6	1366.1	1325.3	1241.5	1215.0	1167.6	1175.3	1127.9	1130.1
7.5°	1409.1	1367.2	1270.2	1177.5	1097.1	1024.3	921.7	883.2	845.7	826.9	849.0
10°	1328.6	1250.3	1118.0	996.7	889.8	824.7	756.4	703.4	654.9	618.5	610.8
12.5°	1270.2	1200.7	1040.8	893.1	809.3	756.4	693.5	620.7	573.3	510.5	491.7
15°	1252.5	1167.6	998.9	852.3	770.7	683.6	611.9	540.3	478.5	412.4	389.2
17.5°	1313.2	1215.0	997.8	819.2	704.5	610.8	511.6	431.1	368.3	307.6	293.3
20°	1415.7	1265.7	1029.8	799.4	641.7	516.0	403.5	323.1	252.5	212.8	202.9
22.5°	1532.6	1351.7	1033.1	746.4	578.8	421.2	294.4	212.8	173.1	154.4	148.8
25°	1675.9	1489.6	1072.8	703.4	505.0	319.7	209.5	163.2	140.0	129.0	126.8
27.5°	1793.9	1585.5	1115.8	658.2	432.2	237.1	164.3	133.4	121.3	110.3	109.2
30°	1916.3	1695.7	1127.9	630.7	369.4	195.2	141.1	118.0	104.7	99.2	98.1
32.5°	2023.2	1815.9	1166.5	585.5	309.8	172.0	127.9	105.8	97.0	88.2	87.1
35°	2161.0	1885.4	1185.3	561.2	287.8	155.5	116.9	97.0	83.8	78.3	76.1
37.5°	2308.8	1952.6	1197.4	542.5	269.0	145.5	110.3	91.5	79.4	71.7	69.5
40°	2446.6	2047.5	1179.7	519.3	254.7	133.4	105.8	84.9	73.9	66.2	62.8
42.5°	2552.4	2140.1	1174.2	497.3	239.3	129.0	100.3	81.6	69.5	60.6	59.5
45°	2612.0	2202.9	1135.6	479.6	227.1	131.2	98.1	77.2	66.2	58.4	54.0
47.5°	2597.6	2251.4	1145.6	474.1	210.6	122.4	97.0	73.9	60.6	54.0	50.7
50°	2677.0	2349.6	1129.0	456.5	198.5	110.3	105.8	73.9	59.5	51.8	48.5
52.5°	2690.3	2438.9	1164.3	424.5	179.7	101.4	104.7	72.8	57.3	49.6	45.2
55°	2800.5	2542.5	1232.7	406.8	164.3	88.2	95.9	70.6	51.8	45.2	43.0
57.5°	2950.5	2757.5	1276.8	390.3	143.3	77.2	80.5	69.5	47.4	41.9	38.6
60°	3094.9	2843.5	1280.1	360.5	123.5	69.5	62.8	69.5	44.1	37.5	34.2
62.5°	3203.0	2843.5	1258.0	335.2	108.1	61.7	55.1	66.2	39.7	33.1	30.9
65°	3144.5	2767.4	1200.7	314.2	98.1	54.0	47.4	50.7	35.3	28.7	26.5
67.5°	3039.8	2530.4	1073.9	288.9	97.0	47.4	40.8	37.5	30.9	25.4	23.2
70°	2872.2	2210.6	894.2	260.2	94.8	43.0	36.4	32.0	27.6	22.1	19.8
72.5°	2314.3	1825.9	734.3	243.7	92.6	37.5	30.9	27.6	23.2	18.7	16.5
75°	1603.1	1166.5	565.6	208.4	90.4	34.2	28.7	24.3	19.8	15.4	14.3
77.5°	961.4	779.5	364.9	156.6	59.5	27.6	24.3	18.7	16.5	13.2	12.1
80°	449.8	368.3	147.7	60.6	28.7	19.8	16.5	14.3	13.2	11.0	9.9
82.5°	176.4	155.5	71.7	35.3	23.2	15.4	13.2	12.1	11.0	8.8	7.7
85°	94.8	83.8	34.2	24.3	16.5	11.0	11.0	9.9	8.8	7.7	6.6
87.5°	20.9	15.4	14.3	14.3	12.1	8.8	8.8	7.7	6.6	5.5	4.4
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°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1362.8	1379.3	1352.8	1369.4	1346.2	1363.9	1366.1	1349.5	1354.0	1376.0	1385.9
5°	1161.0	1150.0	1125.7	1118.0	1119.1	1104.8	1110.3	1118.0	1130.1	1136.7	1156.6
7.5°	836.8	862.2	861.1	879.8	881.0	878.7	863.3	830.2	841.3	832.4	843.5
10°	598.7	609.7	630.7	642.8	664.8	652.7	617.4	604.2	597.6	596.5	607.5
12.5°	478.5	452.1	449.8	454.3	465.3	450.9	433.3	417.9	425.6	441.0	453.2
15°	370.5	348.4	319.7	315.3	317.5	310.9	292.2	272.3	277.8	293.3	302.1
17.5°	284.5	259.1	239.3	226.0	221.6	198.5	170.9	154.4	149.9	148.8	156.6
20°	191.8	187.4	184.1	167.6	167.6	134.5	111.4	99.2	99.2	101.4	102.5
22.5°	143.3	137.8	138.9	135.6	126.8	100.3	88.2	84.9	84.9	87.1	87.1
25°	124.6	116.9	114.7	113.6	104.7	86.0	77.2	73.9	73.9	76.1	76.1
27.5°	105.8	103.6	100.3	95.9	88.2	73.9	68.4	65.1	66.2	67.3	66.2
30°	97.0	91.5	87.1	87.1	78.3	66.2	61.7	59.5	57.3	59.5	60.6
32.5°	86.0	82.7	80.5	77.2	67.3	58.4	54.0	51.8	50.7	50.7	51.8
35°	73.9	73.9	71.7	67.3	58.4	52.9	47.4	45.2	44.1	45.2	45.2
37.5°	66.2	62.8	63.9	59.5	51.8	46.3	40.8	38.6	38.6	37.5	38.6
40°	61.7	56.2	52.9	50.7	46.3	39.7	35.3	33.1	32.0	32.0	32.0
42.5°	55.1	50.7	44.1	43.0	41.9	34.2	28.7	27.6	26.5	25.4	25.4
45°	51.8	45.2	39.7	34.2	34.2	28.7	24.3	22.1	20.9	19.8	20.9
47.5°	47.4	40.8	34.2	28.7	27.6	23.2	18.7	16.5	15.4	15.4	15.4
50°	45.2	36.4	29.8	24.3	20.9	18.7	14.3	12.1	11.0	11.0	11.0
52.5°	41.9	34.2	26.5	20.9	16.5	14.3	11.0	8.8	7.7	7.7	7.7
55°	37.5	30.9	23.2	17.6	14.3	11.0	7.7	5.5	4.4	4.4	4.4
57.5°	35.3	27.6	19.8	15.4	11.0	7.7	4.4	3.3	3.3	2.2	3.3
60°	32.0	24.3	16.5	12.1	8.8	5.5	3.3	1.1	1.1	1.1	1.1
62.5°	27.6	20.9	14.3	9.9	6.6	3.3	1.1	0.0	0.0	0.0	0.0
65°	23.2	16.5	11.0	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.8	14.3	8.8	5.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.6	12.1	6.6	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.3	9.9	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.1	7.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.9	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	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°	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1400.3	1393.6	1426.7	1480.7	1508.3	1562.3	1575.6	1609.7	1600.9	1613.1
5°	1158.8	1172.0	1220.5	1299.9	1328.6	1406.9	1480.7	1554.6	1602.0	1625.2
7.5°	860.0	904.1	963.6	1036.4	1110.3	1212.8	1338.5	1424.5	1470.8	1520.4
10°	640.6	688.0	756.4	828.0	948.2	1062.9	1188.6	1295.5	1335.2	1381.5
12.5°	503.9	577.7	657.1	734.3	806.0	915.1	1070.6	1226.1	1269.1	1304.3
15°	350.6	441.0	554.6	654.9	755.3	850.1	1011.1	1199.6	1258.0	1317.6
17.5°	194.1	265.7	395.8	536.9	684.7	830.2	1030.9	1248.1	1336.3	1378.2
20°	112.5	141.1	233.7	401.3	596.5	787.2	1040.8	1339.6	1456.5	1477.4
22.5°	92.6	102.5	132.3	251.4	488.4	759.7	1091.5	1467.5	1586.6	1636.2
25°	79.4	87.1	102.5	151.1	369.4	701.2	1123.5	1627.4	1737.6	1791.7
27.5°	70.6	78.3	90.4	111.4	251.4	620.7	1176.4	1771.8	1882.1	1956.0
30°	61.7	68.4	80.5	94.8	174.2	530.3	1221.6	1877.7	2033.1	2056.3
32.5°	55.1	60.6	69.5	81.6	129.0	402.4	1258.0	1986.8	2118.0	2168.7
35°	47.4	54.0	59.5	69.5	98.1	303.2	1236.0	2071.7	2242.6	2303.3
37.5°	41.9	46.3	51.8	58.4	82.7	237.1	1190.8	2173.2	2349.6	2405.8
40°	35.3	38.6	45.2	51.8	75.0	183.0	1139.0	2295.5	2499.5	2598.7
42.5°	29.8	33.1	37.5	48.5	61.7	135.6	1034.2	2390.4	2620.8	2704.6
45°	23.2	27.6	34.2	48.5	49.6	100.3	926.2	2460.9	2689.2	2731.1
47.5°	17.6	22.1	33.1	41.9	39.7	69.5	798.3	2541.4	2759.7	2798.3
50°	13.2	17.6	37.5	36.4	33.1	52.9	717.8	2597.6	2764.1	2785.1
52.5°	8.8	13.2	30.9	27.6	27.6	46.3	695.7	2595.4	2775.2	2730.0
55°	6.6	9.9	17.6	19.8	24.3	40.8	675.9	2678.1	2778.5	2810.4
57.5°	4.4	7.7	12.1	15.4	20.9	35.3	635.1	2777.4	2881.0	2897.5
60°	2.2	5.5	8.8	12.1	17.6	30.9	577.7	2850.1	3005.6	3023.2
62.5°	1.1	3.3	6.6	9.9	14.3	24.3	518.2	2734.4	2951.6	2982.4
65°	0.0	2.2	4.4	6.6	8.8	17.6	421.2	2468.6	2737.7	2851.2
67.5°	0.0	0.0	2.2	4.4	5.5	13.2	317.5	2245.9	2540.3	2694.7
70°	0.0	0.0	1.1	1.1	3.3	9.9	202.9	1860.0	2268.0	2352.9
72.5°	0.0	0.0	0.0	0.0	1.1	6.6	118.0	1381.5	1777.3	1935.0
75°	0.0	0.0	0.0	0.0	0.0	5.5	59.5	888.7	1237.1	1448.8
77.5°	0.0	0.0	0.0	0.0	0.0	4.4	32.0	573.3	911.8	1089.3
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.7	333.0	583.3	706.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	163.2	348.4	407.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	87.1	174.2	229.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	12.1	23.2
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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