

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: P677341

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677341
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-835-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

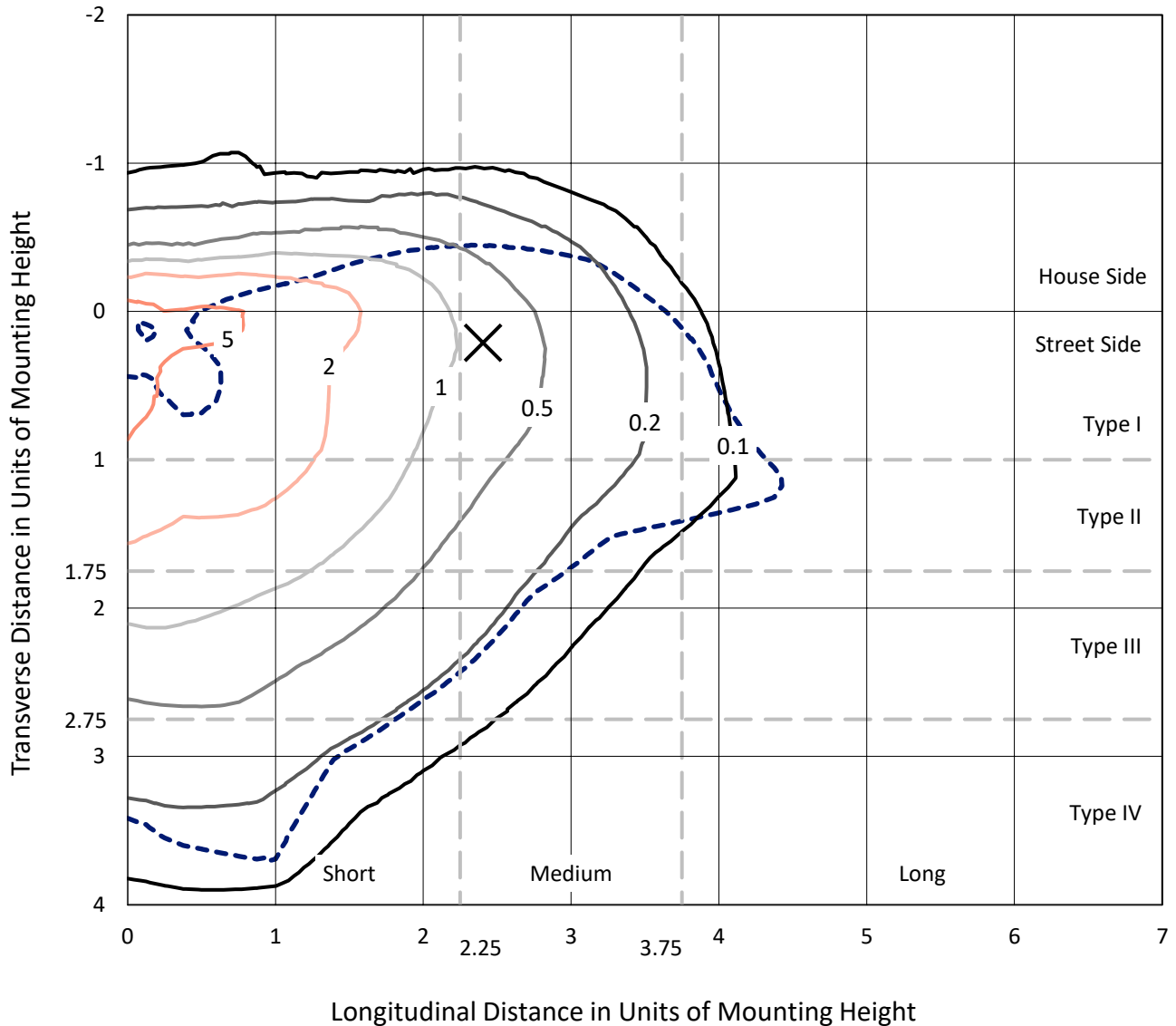
Lumens per Lamp: N/A
Luminaire Lumens: 4087.5 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

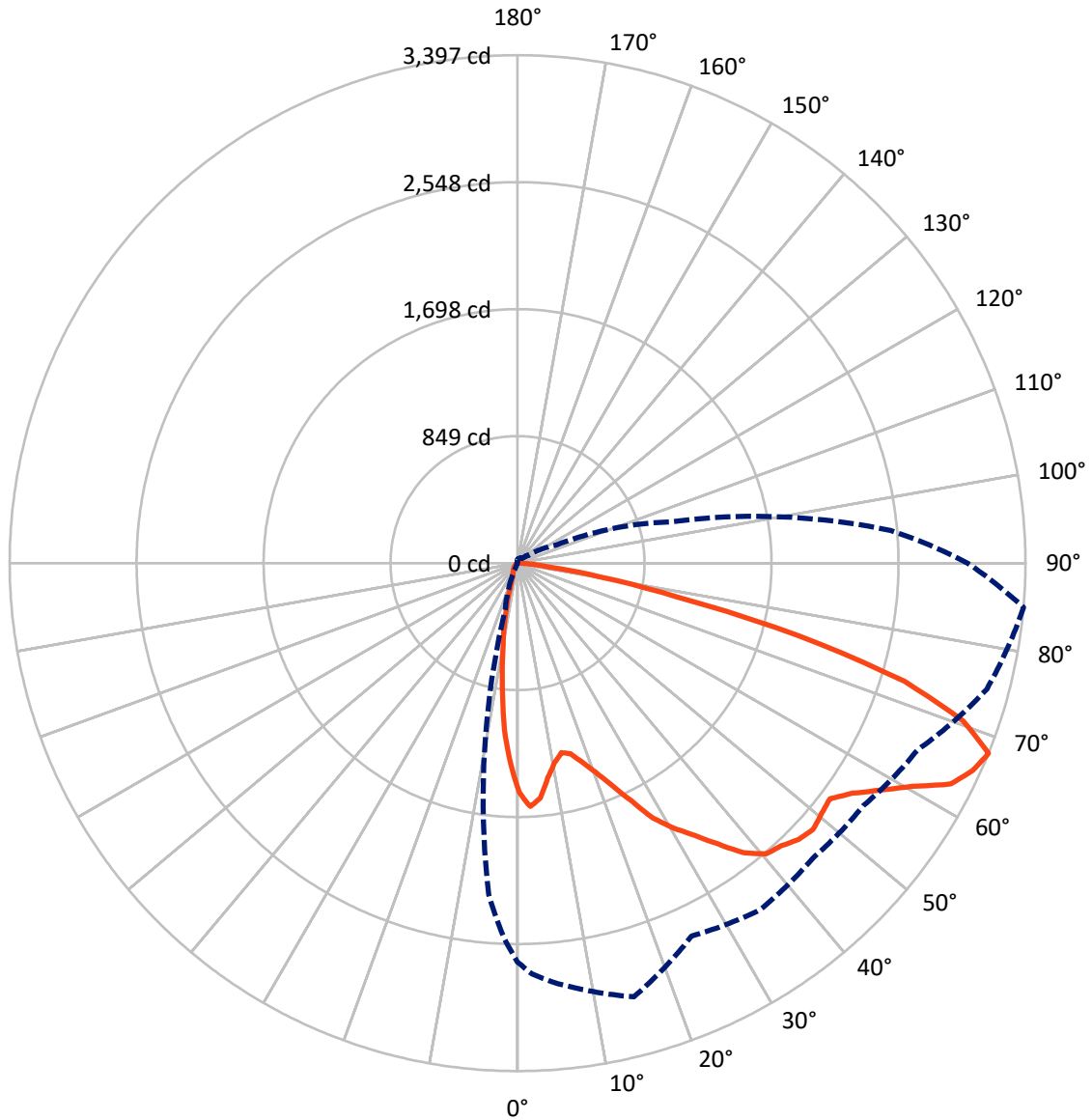
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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	709.7	0.0	709.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3377.8	0.0	3377.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	4087.5	0.0	4087.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	2.9
10°-20°	229.0	5.6
20°-30°	316.8	7.8
30°-40°	447.8	11.0
40°-50°	609.6	14.9
50°-60°	807.4	19.8
60°-70°	937.5	22.9
70°-80°	530.9	13.0
80°-90°	91.7	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°	4087.5	100.0
0°-180°	4087.5	100.0

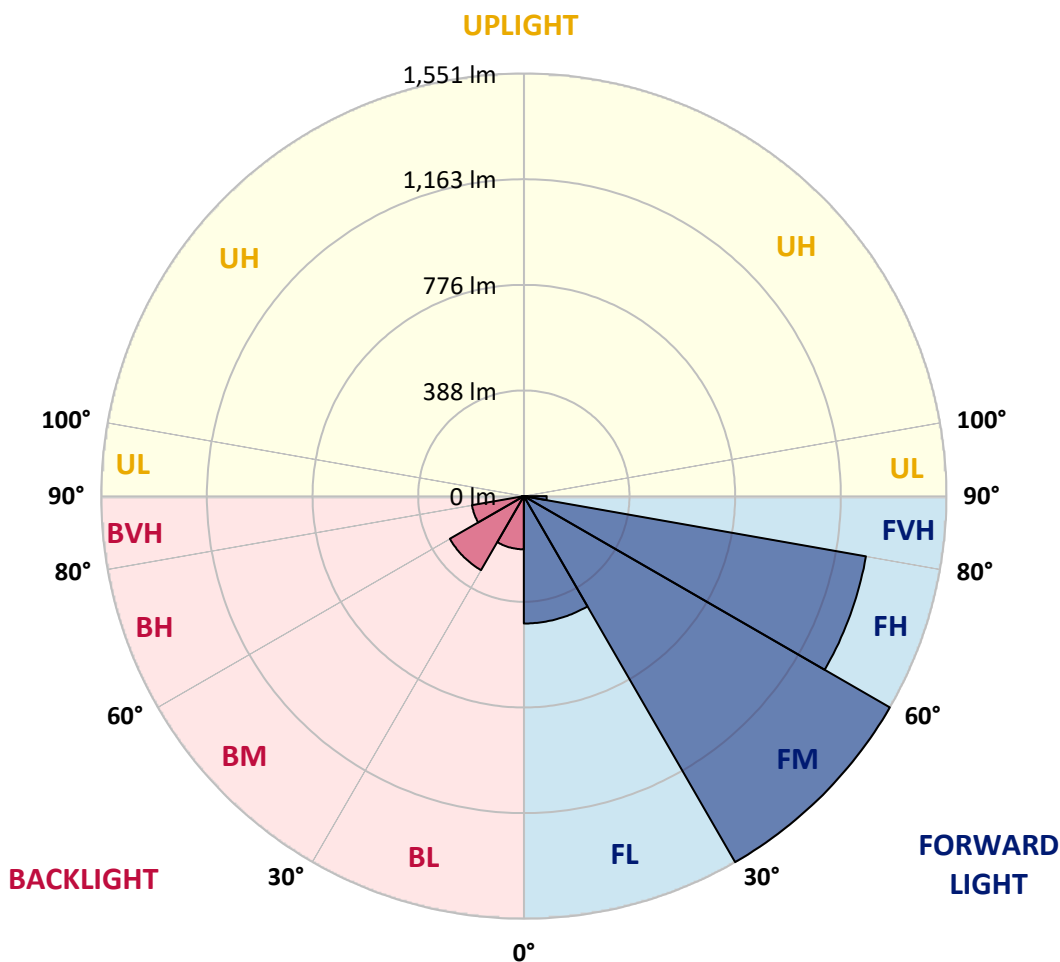


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.4	11.4			
FM (30°-60°)	1551.2	38.0			
FH (60°-80°)	1275.1	31.2			G1/1800
FVH (80°-90°)	84.0	2.1			G1/100
BL (0°-30°)	195.1	4.8	B1/500		
BM (30°-60°)	313.6	7.7	B1/1000		
BH (60°-80°)	193.3	4.7	B1/500		G1/500
BVH (80°-90°)	7.7	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°	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1596.9	1630.7	1631.8	1647.1	1662.4	1662.4	1698.4	1689.7	1658.0	1652.6	1629.6
5°	1608.9	1620.9	1629.6	1707.1	1772.6	1766.1	1785.7	1772.6	1711.5	1632.9	1579.4
7.5°	1505.2	1518.3	1553.2	1685.3	1773.7	1803.2	1840.3	1758.4	1694.0	1552.1	1449.5
10°	1367.7	1392.8	1457.2	1607.8	1717.0	1810.8	1810.8	1745.3	1620.9	1482.3	1356.8
12.5°	1291.3	1341.5	1376.4	1529.2	1671.1	1735.5	1733.3	1698.4	1617.6	1443.0	1301.1
15°	1304.4	1318.6	1392.8	1511.8	1605.6	1602.4	1641.7	1630.7	1574.0	1477.9	1321.8
17.5°	1364.4	1386.2	1450.6	1511.8	1556.5	1543.4	1542.3	1594.7	1598.0	1536.9	1399.3
20°	1462.6	1527.0	1557.6	1576.2	1521.6	1465.9	1459.4	1532.5	1589.3	1612.2	1492.1
22.5°	1619.8	1662.4	1724.6	1629.6	1487.7	1417.9	1404.8	1485.6	1600.2	1701.7	1612.2
25°	1773.7	1806.5	1866.5	1744.3	1525.9	1408.1	1385.1	1455.0	1641.7	1826.1	1757.4
27.5°	1936.4	1964.7	1971.3	1828.3	1546.7	1388.4	1361.1	1455.0	1676.6	1891.6	1930.9
30°	2035.7	2069.5	2076.1	1902.5	1580.5	1404.8	1391.7	1461.5	1700.6	1947.3	2055.3
32.5°	2147.0	2155.8	2150.3	1915.6	1617.6	1452.8	1398.2	1505.2	1727.9	2013.9	2168.9
35°	2280.2	2295.5	2239.8	1975.7	1700.6	1483.4	1463.7	1558.7	1774.8	2044.4	2306.4
37.5°	2381.7	2429.7	2304.2	1998.6	1717.0	1547.8	1551.1	1670.0	1807.6	2081.5	2458.1
40°	2572.7	2491.9	2413.4	2077.2	1779.2	1656.9	1639.5	1784.6	1917.8	2105.5	2557.4
42.5°	2677.5	2634.9	2455.9	2084.8	1875.2	1807.6	1811.9	1914.5	1975.7	2173.2	2584.7
45°	2703.7	2659.0	2513.8	2090.3	1970.2	1985.5	2060.8	2080.4	2060.8	2218.0	2636.0
47.5°	2770.3	2673.1	2507.2	2163.4	2124.1	2183.0	2279.1	2321.7	2176.5	2201.6	2660.0
50°	2757.2	2701.5	2493.0	2194.0	2311.8	2467.9	2532.3	2514.9	2305.3	2167.8	2633.8
52.5°	2702.6	2642.6	2536.7	2276.9	2487.6	2676.4	2765.9	2722.3	2419.9	2244.2	2616.4
55°	2782.3	2736.4	2593.5	2389.3	2619.7	2859.8	2923.1	2890.4	2560.7	2315.1	2715.7
57.5°	2868.5	2858.7	2747.4	2521.4	2775.7	3048.6	3048.6	3008.2	2683.0	2417.7	2863.1
60°	2993.0	3014.8	2860.9	2608.7	2829.2	3037.7	3196.0	3149.0	2806.3	2597.8	3030.1
62.5°	2952.6	3022.4	3007.1	2796.5	2890.4	3091.2	3177.4	3212.4	2959.1	2817.2	3252.7
65°	2822.7	2896.9	3006.1	2919.8	2844.5	2961.3	3005.0	3110.8	3035.5	3023.5	3344.4
67.5°	2667.7	2748.5	2816.1	3002.8	2751.7	2829.2	2791.0	2824.9	2952.6	3249.5	3396.8
70°	2329.3	2406.8	2513.8	2818.3	2506.1	2436.3	2426.5	2410.1	2608.7	3168.7	3158.9
72.5°	1915.6	1951.6	2128.5	2291.1	1854.5	1841.4	1856.7	1838.1	2068.4	2868.5	2705.9
75°	1434.3	1470.3	1570.7	1759.5	1262.9	1187.6	1274.9	1361.1	1579.4	2226.7	1944.0
77.5°	1078.4	1124.3	1187.6	1316.4	926.7	808.8	820.8	902.7	1141.7	1783.5	1089.3
80°	699.7	694.2	816.5	906.0	697.5	719.3	688.8	748.8	827.4	954.0	556.7
82.5°	403.9	409.3	460.6	519.6	485.7	555.6	400.6	669.1	590.5	388.6	207.4
85°	227.0	236.9	283.8	360.2	304.5	204.1	167.0	331.8	371.1	159.4	100.4
87.5°	22.9	19.6	38.2	136.4	83.0	33.8	50.2	79.7	89.5	60.0	29.5
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°	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1596.9	1596.9	1569.6	1523.8	1505.2	1472.5	1427.7	1441.9	1426.6	1371.0	1356.8
5°	1531.4	1479.0	1422.3	1352.4	1312.0	1229.1	1202.9	1155.9	1163.6	1116.6	1118.8
7.5°	1395.0	1353.5	1257.4	1165.7	1086.1	1014.0	912.5	874.3	837.2	818.6	840.5
10°	1315.3	1237.8	1106.8	986.7	880.9	816.5	748.8	696.4	648.4	612.3	604.7
12.5°	1257.4	1188.7	1030.4	884.1	801.2	748.8	686.6	614.5	567.6	505.4	486.8
15°	1240.0	1155.9	988.9	843.7	763.0	676.7	605.8	534.8	473.7	408.2	385.3
17.5°	1300.0	1202.9	987.8	811.0	697.5	604.7	506.5	426.8	364.6	304.5	290.3
20°	1401.5	1253.1	1019.5	791.4	635.3	510.8	399.5	319.8	250.0	210.7	200.8
22.5°	1517.2	1338.2	1022.8	739.0	573.0	417.0	291.4	210.7	171.4	152.8	147.4
25°	1659.1	1474.6	1062.1	696.4	499.9	316.5	207.4	161.5	138.6	127.7	125.5
27.5°	1775.9	1569.6	1104.6	651.6	427.9	234.7	162.6	132.1	120.1	109.2	108.1
30°	1897.1	1678.8	1116.6	624.4	365.7	193.2	139.7	116.8	103.7	98.2	97.1
32.5°	2002.9	1797.7	1154.8	579.6	306.7	170.3	126.6	104.8	96.1	87.3	86.2
35°	2139.4	1866.5	1173.4	555.6	284.9	153.9	115.7	96.1	83.0	77.5	75.3
37.5°	2285.7	1933.1	1185.4	537.0	266.3	144.1	109.2	90.6	78.6	70.9	68.8
40°	2422.1	2027.0	1167.9	514.1	252.1	132.1	104.8	84.0	73.1	65.5	62.2
42.5°	2526.9	2118.6	1162.5	492.3	236.9	127.7	99.3	80.8	68.8	60.0	58.9
45°	2585.8	2180.9	1124.3	474.8	224.9	129.9	97.1	76.4	65.5	57.9	53.5
47.5°	2571.6	2228.9	1134.1	469.4	208.5	121.2	96.1	73.1	60.0	53.5	50.2
50°	2650.2	2326.0	1117.7	451.9	196.5	109.2	104.8	73.1	58.9	51.3	48.0
52.5°	2663.3	2414.4	1152.6	420.2	177.9	100.4	103.7	72.0	56.8	49.1	44.8
55°	2772.5	2517.1	1220.3	402.8	162.6	87.3	95.0	69.9	51.3	44.8	42.6
57.5°	2920.9	2729.9	1264.0	386.4	141.9	76.4	79.7	68.8	46.9	41.5	38.2
60°	3063.9	2815.0	1267.3	356.9	122.3	68.8	62.2	68.8	43.7	37.1	33.8
62.5°	3170.9	2815.0	1245.4	331.8	107.0	61.1	54.6	65.5	39.3	32.7	30.6
65°	3113.0	2739.7	1188.7	311.1	97.1	53.5	46.9	50.2	34.9	28.4	26.2
67.5°	3009.3	2505.0	1063.1	286.0	96.1	46.9	40.4	37.1	30.6	25.1	22.9
70°	2843.4	2188.5	885.2	257.6	93.9	42.6	36.0	31.7	27.3	21.8	19.6
72.5°	2291.1	1807.6	727.0	241.2	91.7	37.1	30.6	27.3	22.9	18.6	16.4
75°	1587.1	1154.8	560.0	206.3	89.5	33.8	28.4	24.0	19.6	15.3	14.2
77.5°	951.8	771.7	361.3	155.0	58.9	27.3	24.0	18.6	16.4	13.1	12.0
80°	445.3	364.6	146.3	60.0	28.4	19.6	16.4	14.2	13.1	10.9	9.8
82.5°	174.6	153.9	70.9	34.9	22.9	15.3	13.1	12.0	10.9	8.7	7.6
85°	93.9	83.0	33.8	24.0	16.4	10.9	10.9	9.8	8.7	7.6	6.5
87.5°	20.7	15.3	14.2	14.2	12.0	8.7	8.7	7.6	6.5	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°	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1349.1	1365.5	1339.3	1355.7	1332.8	1350.2	1352.4	1336.0	1340.4	1362.2	1372.0
5°	1149.4	1138.5	1114.4	1106.8	1107.9	1093.7	1099.2	1106.8	1118.8	1125.4	1145.0
7.5°	828.5	853.6	852.5	871.0	872.1	869.9	854.7	821.9	832.8	824.1	835.0
10°	592.7	603.6	624.4	636.4	658.2	646.2	611.3	598.2	591.6	590.5	601.4
12.5°	473.7	447.5	445.3	449.7	460.6	446.4	429.0	413.7	421.3	436.6	448.6
15°	366.8	344.9	316.5	312.2	314.4	307.8	289.3	269.6	275.1	290.3	299.1
17.5°	281.6	256.5	236.9	223.8	219.4	196.5	169.2	152.8	148.4	147.4	155.0
20°	189.9	185.6	182.3	165.9	165.9	133.2	110.2	98.2	98.2	100.4	101.5
22.5°	141.9	136.4	137.5	134.3	125.5	99.3	87.3	84.0	84.0	86.2	86.2
25°	123.3	115.7	113.5	112.4	103.7	85.1	76.4	73.1	73.1	75.3	75.3
27.5°	104.8	102.6	99.3	95.0	87.3	73.1	67.7	64.4	65.5	66.6	65.5
30°	96.1	90.6	86.2	86.2	77.5	65.5	61.1	58.9	56.8	58.9	60.0
32.5°	85.1	81.9	79.7	76.4	66.6	57.9	53.5	51.3	50.2	50.2	51.3
35°	73.1	73.1	70.9	66.6	57.9	52.4	46.9	44.8	43.7	44.8	44.8
37.5°	65.5	62.2	63.3	58.9	51.3	45.8	40.4	38.2	38.2	37.1	38.2
40°	61.1	55.7	52.4	50.2	45.8	39.3	34.9	32.7	31.7	31.7	31.7
42.5°	54.6	50.2	43.7	42.6	41.5	33.8	28.4	27.3	26.2	25.1	25.1
45°	51.3	44.8	39.3	33.8	33.8	28.4	24.0	21.8	20.7	19.6	20.7
47.5°	46.9	40.4	33.8	28.4	27.3	22.9	18.6	16.4	15.3	15.3	15.3
50°	44.8	36.0	29.5	24.0	20.7	18.6	14.2	12.0	10.9	10.9	10.9
52.5°	41.5	33.8	26.2	20.7	16.4	14.2	10.9	8.7	7.6	7.6	7.6
55°	37.1	30.6	22.9	17.5	14.2	10.9	7.6	5.5	4.4	4.4	4.4
57.5°	34.9	27.3	19.6	15.3	10.9	7.6	4.4	3.3	3.3	2.2	3.3
60°	31.7	24.0	16.4	12.0	8.7	5.5	3.3	1.1	1.1	1.1	1.1
62.5°	27.3	20.7	14.2	9.8	6.5	3.3	1.1	0.0	0.0	0.0	0.0
65°	22.9	16.4	10.9	7.6	4.4	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.6	14.2	8.7	5.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.5	12.0	6.5	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.2	9.8	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.0	7.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.6	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	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°	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1386.2	1379.7	1412.4	1465.9	1493.2	1546.7	1559.8	1593.6	1584.9	1596.9
5°	1147.2	1160.3	1208.3	1286.9	1315.3	1392.8	1465.9	1539.0	1586.0	1608.9
7.5°	851.4	895.0	954.0	1026.0	1099.2	1200.7	1325.1	1410.2	1456.1	1505.2
10°	634.2	681.1	748.8	819.7	938.7	1052.2	1176.7	1282.5	1321.8	1367.7
12.5°	498.8	572.0	650.5	727.0	797.9	906.0	1059.9	1213.8	1256.3	1291.3
15°	347.1	436.6	549.0	648.4	747.7	841.6	1000.9	1187.6	1245.4	1304.4
17.5°	192.1	263.1	391.9	531.6	677.8	821.9	1020.6	1235.6	1322.9	1364.4
20°	111.3	139.7	231.4	397.3	590.5	779.3	1030.4	1326.2	1441.9	1462.6
22.5°	91.7	101.5	131.0	248.9	483.5	752.1	1080.6	1452.8	1570.7	1619.8
25°	78.6	86.2	101.5	149.5	365.7	694.2	1112.3	1611.1	1720.2	1773.7
27.5°	69.9	77.5	89.5	110.2	248.9	614.5	1164.7	1754.1	1863.2	1936.4
30°	61.1	67.7	79.7	93.9	172.5	525.0	1209.4	1858.9	2012.8	2035.7
32.5°	54.6	60.0	68.8	80.8	127.7	398.4	1245.4	1966.9	2096.8	2147.0
35°	46.9	53.5	58.9	68.8	97.1	300.2	1223.6	2051.0	2220.2	2280.2
37.5°	41.5	45.8	51.3	57.9	81.9	234.7	1178.8	2151.4	2326.0	2381.7
40°	34.9	38.2	44.8	51.3	74.2	181.2	1127.5	2272.6	2474.5	2572.7
42.5°	29.5	32.7	37.1	48.0	61.1	134.3	1023.8	2366.4	2594.6	2677.5
45°	22.9	27.3	33.8	48.0	49.1	99.3	916.9	2436.3	2662.2	2703.7
47.5°	17.5	21.8	32.7	41.5	39.3	68.8	790.3	2516.0	2732.1	2770.3
50°	13.1	17.5	37.1	36.0	32.7	52.4	710.6	2571.6	2736.4	2757.2
52.5°	8.7	13.1	30.6	27.3	27.3	45.8	688.8	2569.4	2747.4	2702.6
55°	6.5	9.8	17.5	19.6	24.0	40.4	669.1	2651.3	2750.6	2782.3
57.5°	4.4	7.6	12.0	15.3	20.7	34.9	628.7	2749.5	2852.2	2868.5
60°	2.2	5.5	8.7	12.0	17.5	30.6	572.0	2821.6	2975.5	2993.0
62.5°	1.1	3.3	6.5	9.8	14.2	24.0	513.0	2707.0	2922.0	2952.6
65°	0.0	2.2	4.4	6.5	8.7	17.5	417.0	2443.9	2710.3	2822.7
67.5°	0.0	0.0	2.2	4.4	5.5	13.1	314.4	2223.4	2514.9	2667.7
70°	0.0	0.0	1.1	1.1	3.3	9.8	200.8	1841.4	2245.3	2329.3
72.5°	0.0	0.0	0.0	0.0	1.1	6.5	116.8	1367.7	1759.5	1915.6
75°	0.0	0.0	0.0	0.0	0.0	5.5	58.9	879.8	1224.7	1434.3
77.5°	0.0	0.0	0.0	0.0	0.0	4.4	31.7	567.6	902.7	1078.4
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.6	329.6	577.4	699.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	161.5	344.9	403.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	86.2	172.5	227.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	12.0	22.9
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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