

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: P180351

Luminaire Tested: **ICS-F04-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180351
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-RW-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7836 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2
Input Voltage (V): NR
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

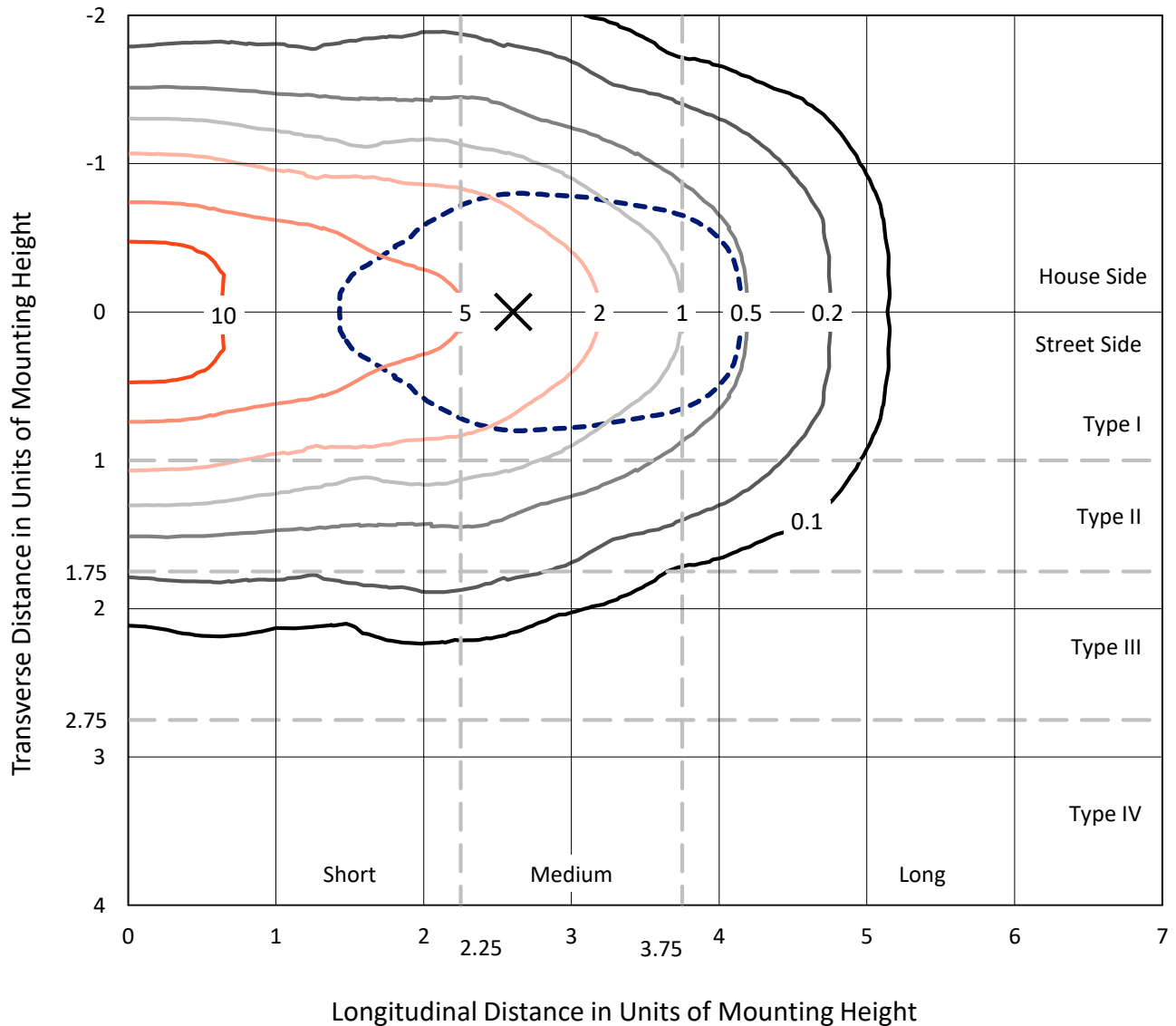


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

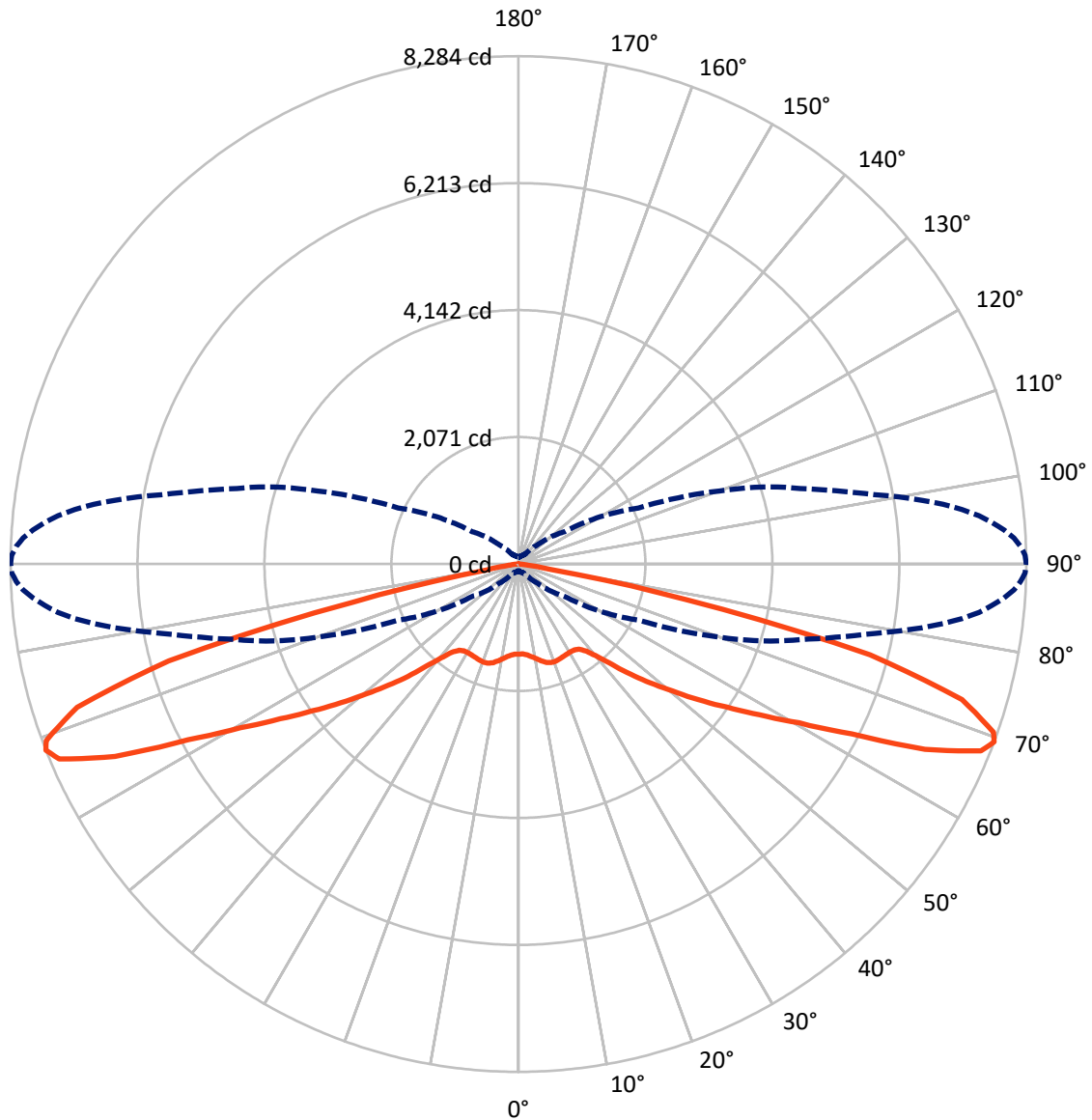


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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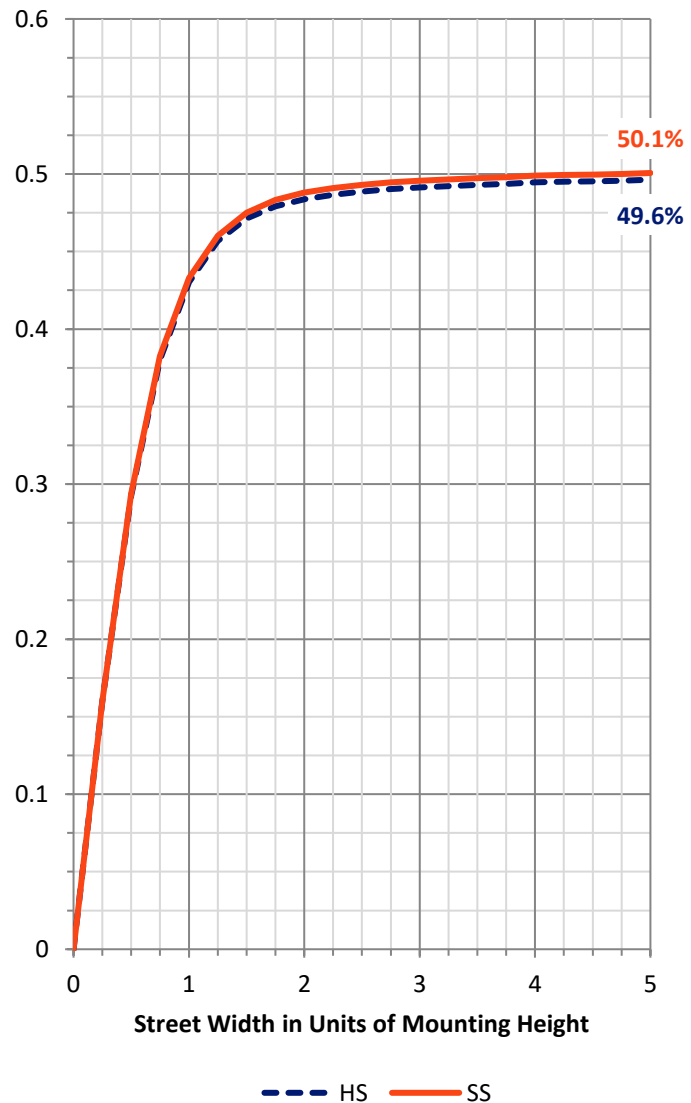
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3918.0	0.0	3918.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3918.0	0.0	3918.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7836.0	0.0	7836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.8
10°-20°	454.3	5.8
20°-30°	736.0	9.4
30°-40°	917.3	11.7
40°-50°	1146.3	14.6
50°-60°	1415.4	18.1
60°-70°	1758.7	22.4
70°-80°	1167.5	14.9
80°-90°	96.4	1.2
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°	7836.0	100.0
0°-180°	7836.0	100.0



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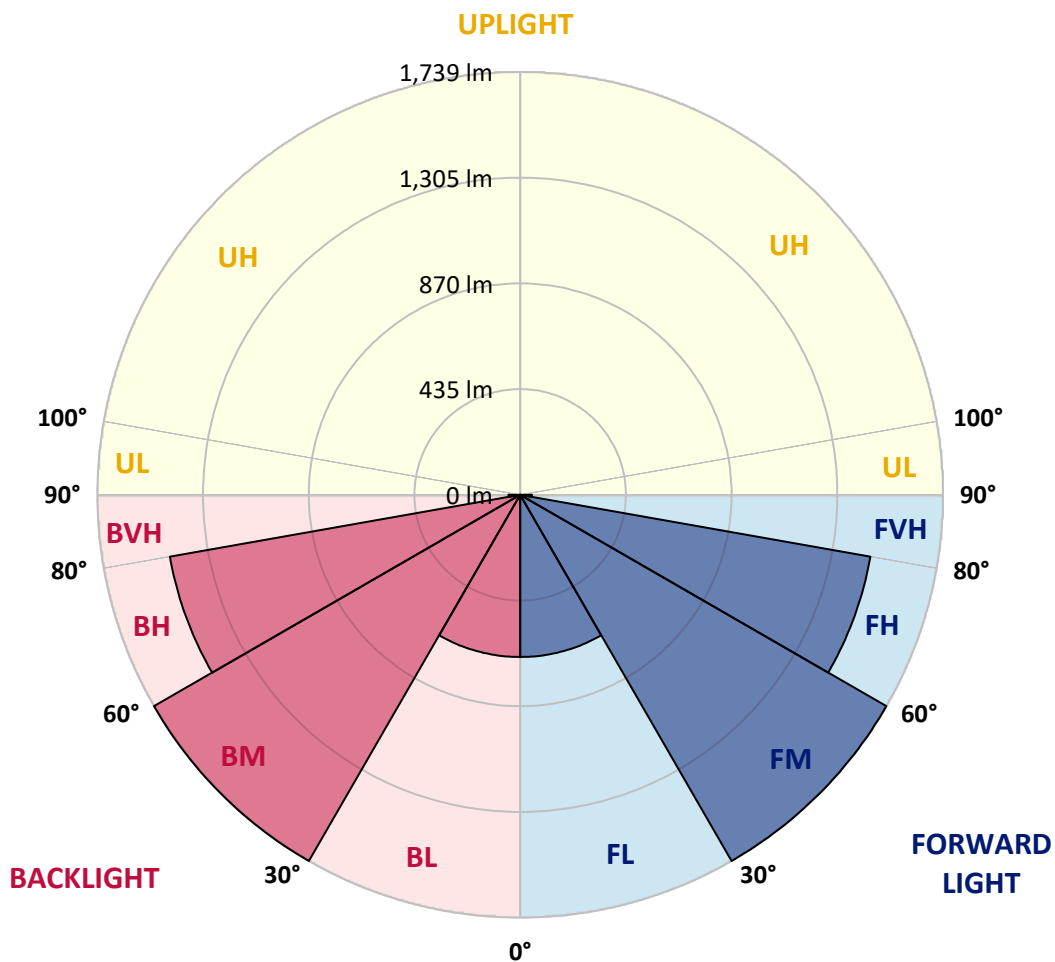
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.2	8.5			
FM (30°-60°)	1739.5	22.2			
FH (60°-80°)	1463.1	18.7			G1/1800
FVH (80°-90°)	48.2	0.6			G1/100
BL (0°-30°)	667.2	8.5	B2/1000		
BM (30°-60°)	1739.5	22.2	B2/2500		
BH (60°-80°)	1463.1	18.7	B3/2500		G3/2500
BVH (80°-90°)	48.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
2.5°	1475.0	1476.2	1475.4	1477.0	1476.6	1476.6	1475.8	1474.1	1473.0	1472.3	1472.4
5°	1489.2	1487.5	1490.0	1492.5	1491.6	1492.1	1491.6	1491.6	1490.8	1490.7	1490.7
7.5°	1504.2	1503.8	1505.4	1512.1	1513.0	1515.4	1518.4	1520.5	1520.9	1521.3	1520.9
10°	1517.2	1517.6	1521.8	1531.4	1536.4	1544.4	1552.3	1558.6	1560.8	1562.3	1562.1
12.5°	1527.6	1528.0	1534.2	1549.4	1561.5	1576.5	1593.7	1603.3	1607.4	1608.2	1608.9
15°	1528.4	1529.7	1540.6	1565.2	1589.4	1614.1	1634.6	1647.6	1650.9	1653.2	1653.3
17.5°	1517.6	1518.4	1536.8	1573.2	1613.7	1652.2	1673.5	1679.4	1680.6	1681.5	1681.0
20°	1489.2	1491.2	1517.2	1571.1	1633.0	1683.2	1705.3	1697.3	1693.3	1692.9	1692.4
22.5°	1443.2	1442.8	1476.6	1549.4	1636.8	1707.4	1727.0	1706.1	1693.8	1691.2	1689.5
25°	1368.7	1373.8	1413.4	1500.4	1615.4	1712.8	1742.5	1710.7	1693.0	1689.0	1684.2
27.5°	1288.0	1291.0	1333.2	1426.4	1565.6	1694.0	1750.0	1719.9	1700.0	1694.5	1688.9
30°	1193.9	1197.8	1242.9	1340.3	1485.8	1645.5	1747.9	1740.8	1717.6	1711.0	1703.9
32.5°	1102.0	1106.2	1146.8	1253.4	1401.8	1579.0	1735.4	1770.5	1746.7	1739.3	1731.9
35°	1006.7	1013.0	1062.3	1170.2	1320.7	1505.0	1716.2	1808.6	1795.4	1788.9	1782.4
37.5°	927.6	929.0	976.6	1089.9	1245.4	1434.4	1690.6	1856.6	1866.2	1866.3	1867.1
40°	839.5	847.4	895.1	1014.6	1177.2	1374.6	1666.4	1921.8	1971.8	1981.0	1988.0
42.5°	760.4	761.3	809.8	933.2	1103.2	1326.5	1653.0	2000.4	2107.2	2126.8	2146.3
45°	677.2	680.6	724.5	843.6	1018.0	1269.6	1652.6	2091.1	2261.8	2294.5	2324.8
47.5°	598.7	599.9	646.3	757.2	920.2	1190.2	1649.6	2188.6	2420.8	2469.1	2508.6
50°	523.4	522.2	567.8	674.4	823.6	1086.1	1624.2	2299.0	2592.2	2647.2	2695.9
52.5°	437.3	443.2	490.4	592.4	735.8	980.4	1549.8	2419.8	2770.5	2834.1	2895.3
55°	352.8	355.4	406.0	501.2	646.8	881.7	1420.1	2531.0	2944.4	3016.6	3084.6
57.5°	260.0	267.6	311.8	406.0	556.4	798.5	1255.4	2588.6	3091.8	3175.0	3255.8
60°	183.5	189.4	228.6	307.7	457.4	711.1	1113.7	2556.5	3210.3	3316.6	3413.7
62.5°	143.0	147.6	179.0	230.4	356.6	623.8	1012.2	2452.4	3342.0	3480.7	3613.0
65°	125.4	129.6	158.0	184.4	266.4	534.7	956.5	2342.4	3518.4	3722.6	3907.1
67.5°	113.3	118.3	143.0	161.4	217.0	466.6	941.9	2273.0	3605.0	3870.9	4119.6
69°	107.8	112.8	135.0	150.5	201.5	442.3	916.8	2163.9	3488.1	3772.4	4044.1
70°	104.6	108.7	129.2	145.0	196.5	425.6	875.0	2027.6	3328.0	3614.9	3898.9
72.5°	97.0	99.0	117.0	132.6	182.2	344.0	673.0	1505.9	2633.2	2913.0	3188.6
75°	85.7	88.2	105.0	120.0	142.1	213.6	426.0	931.4	1773.0	1981.4	2237.2
77.5°	74.0	76.1	90.8	114.6	110.4	133.4	254.6	518.4	1006.5	1127.6	1293.8
80°	59.4	61.8	74.8	113.7	91.2	103.7	183.1	362.4	494.2	530.3	570.2
82.5°	43.4	45.6	58.6	91.9	69.8	78.2	139.6	307.2	353.0	369.4	377.4
85°	22.2	22.6	37.2	56.0	44.3	40.6	78.6	210.3	239.5	243.6	249.8
87.5°	3.8	3.8	8.4	9.6	10.9	6.7	10.0	36.0	41.6	41.3	44.8
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
2.5°	1473.0	1472.7	1473.2	1473.3	1473.8	1472.3	1471.9	1471.6	1471.6	1472.4	1471.6
5°	1491.0	1490.9	1491.2	1491.9	1491.7	1490.7	1490.6	1490.8	1489.6	1489.2	1490.0
7.5°	1521.7	1521.3	1520.5	1521.8	1522.8	1522.8	1523.8	1523.0	1522.6	1522.2	1523.0
10°	1563.6	1563.3	1563.6	1564.9	1566.0	1566.1	1567.2	1566.1	1565.6	1566.5	1566.5
12.5°	1610.6	1609.6	1611.6	1612.5	1613.7	1616.2	1615.0	1616.6	1615.4	1617.5	1617.5
15°	1654.8	1655.3	1657.2	1658.0	1658.3	1660.3	1660.6	1661.8	1660.2	1660.6	1663.9
17.5°	1682.3	1681.9	1683.1	1683.8	1684.9	1686.0	1687.9	1689.0	1688.2	1688.2	1689.8
20°	1691.6	1690.3	1690.6	1691.2	1691.4	1692.4	1693.8	1694.0	1694.0	1694.4	1696.1
22.5°	1687.0	1684.8	1682.7	1682.9	1683.1	1682.8	1683.8	1684.4	1685.2	1686.0	1688.1
25°	1680.6	1675.8	1671.8	1671.5	1670.3	1670.4	1670.9	1671.0	1671.8	1673.0	1674.8
27.5°	1681.3	1674.9	1668.5	1666.2	1664.0	1662.5	1661.9	1661.0	1661.8	1663.0	1664.8
30°	1695.6	1685.6	1676.4	1673.6	1670.3	1667.5	1665.1	1662.2	1660.6	1661.8	1662.6
32.5°	1720.8	1711.0	1702.0	1697.3	1692.8	1687.7	1683.2	1680.2	1676.4	1675.2	1674.8
35°	1774.3	1766.5	1758.4	1753.2	1745.5	1741.6	1736.0	1727.8	1722.0	1721.6	1718.2
37.5°	1864.6	1860.8	1855.0	1849.5	1847.0	1836.6	1829.8	1825.6	1819.0	1823.2	1816.0
40°	1994.3	2000.5	2005.9	2002.7	2003.7	2001.0	1996.9	2000.8	1996.2	1995.0	1996.2
42.5°	2160.4	2182.4	2197.8	2202.6	2215.0	2219.8	2228.9	2242.9	2240.0	2255.9	2258.8
45°	2353.0	2384.5	2415.1	2438.0	2462.9	2491.2	2519.4	2541.9	2559.4	2558.6	2577.8
47.5°	2549.4	2596.0	2636.8	2671.1	2715.9	2757.4	2803.0	2849.1	2882.6	2895.1	2899.2
50°	2748.3	2802.1	2857.9	2908.4	2968.9	3035.3	3107.1	3179.0	3214.9	3244.2	3263.9
52.5°	2956.8	3018.3	3077.8	3149.1	3223.8	3311.4	3401.1	3503.4	3557.8	3612.9	3642.2
55°	3155.1	3223.9	3285.2	3380.6	3472.2	3576.8	3693.9	3823.2	3917.2	3982.0	4039.4
57.5°	3335.2	3408.4	3483.7	3591.3	3708.1	3830.4	3979.0	4135.9	4238.3	4351.2	4452.8
60°	3511.2	3603.2	3689.8	3830.5	3969.4	4121.4	4306.3	4505.0	4663.5	4817.0	4934.0
62.5°	3744.5	3862.7	3970.4	4147.3	4328.8	4516.6	4736.5	4971.6	5201.5	5409.8	5567.4
65°	4089.1	4262.8	4424.0	4648.1	4877.3	5124.4	5387.1	5687.3	5963.2	6238.8	6464.5
67.5°	4350.8	4570.7	4777.6	5048.6	5318.4	5604.8	5922.2	6276.8	6618.4	6929.0	7204.1
69°	4299.5	4532.7	4756.8	5033.4	5313.9	5606.4	5926.6	6303.5	6658.5	6995.9	7291.0
70°	4143.1	4386.2	4618.4	4892.8	5177.0	5470.3	5805.4	6175.6	6539.0	6898.5	7196.6
72.5°	3433.8	3677.6	3903.0	4184.0	4470.0	4778.1	5095.4	5456.2	5844.2	6228.3	6489.6
75°	2461.9	2677.4	2896.0	3133.6	3412.6	3666.5	3956.8	4301.0	4627.2	4925.2	5125.0
77.5°	1455.1	1584.1	1740.0	1851.8	2013.7	2153.5	2301.3	2492.5	2592.8	2785.2	2834.4
80°	592.9	589.3	612.4	589.5	594.6	575.9	555.9	552.2	520.9	560.2	531.0
82.5°	376.6	350.3	322.3	283.5	249.3	213.5	180.5	153.0	148.0	148.8	147.2
85°	248.1	236.7	211.5	177.8	145.0	116.3	93.1	73.6	72.8	71.5	71.1
87.5°	44.9	41.7	34.3	29.3	24.7	18.4	13.0	9.6	9.2	9.2	10.9
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
2.5°	1471.6	1471.6	1471.2	1472.0	1471.6	1470.3	1469.1
5°	1490.8	1489.2	1490.4	1491.6	1489.6	1490.0	1489.1
7.5°	1523.0	1522.6	1523.0	1521.8	1521.0	1522.2	1523.4
10°	1568.2	1567.3	1567.0	1568.2	1567.4	1566.5	1566.9
12.5°	1618.8	1618.8	1618.3	1618.8	1618.3	1617.1	1616.2
15°	1663.4	1664.3	1664.3	1663.5	1663.0	1662.6	1663.1
17.5°	1691.1	1690.6	1690.6	1690.6	1690.2	1690.6	1691.5
20°	1698.2	1697.0	1697.0	1697.8	1697.0	1697.8	1698.2
22.5°	1688.6	1688.6	1688.6	1689.0	1689.8	1689.8	1690.7
25°	1676.4	1676.4	1676.4	1677.2	1677.2	1677.7	1678.1
27.5°	1666.8	1666.8	1666.8	1667.6	1667.6	1668.0	1668.9
30°	1663.8	1663.9	1663.5	1663.9	1664.3	1664.3	1664.7
32.5°	1675.2	1673.9	1673.5	1672.7	1671.8	1671.8	1671.4
35°	1714.9	1711.6	1712.0	1709.4	1710.3	1708.2	1706.5
37.5°	1811.4	1808.1	1804.4	1799.4	1796.4	1800.2	1800.2
40°	1992.1	1994.2	1985.0	1982.4	1977.0	1980.8	1985.8
42.5°	2260.5	2263.0	2264.7	2250.9	2250.4	2247.5	2239.2
45°	2578.6	2572.8	2575.3	2569.0	2566.5	2557.3	2568.6
47.5°	2915.2	2919.0	2903.8	2898.8	2907.6	2892.6	2894.7
50°	3275.1	3276.0	3264.7	3262.1	3270.1	3241.6	3255.0
52.5°	3663.1	3664.8	3673.6	3663.1	3667.2	3660.6	3673.9
55°	4075.7	4107.0	4110.0	4121.3	4122.1	4136.0	4122.1
57.5°	4509.2	4544.8	4578.2	4623.8	4633.8	4628.4	4637.2
60°	5031.4	5124.6	5174.8	5246.3	5257.5	5288.5	5261.8
62.5°	5715.3	5860.4	5970.0	6025.2	6058.6	6123.4	6102.1
65°	6671.8	6844.6	7011.0	7090.4	7178.2	7270.2	7286.9
67.5°	7455.4	7647.2	7820.3	7957.8	8064.8	8132.6	8138.0
69°	7553.2	7757.2	7939.4	8092.4	8196.6	8266.0	8284.4
70°	7465.0	7673.6	7866.7	8012.6	8128.8	8199.5	8224.2
72.5°	6763.8	7012.2	7166.8	7315.7	7479.6	7500.9	7568.6
75°	5354.2	5577.0	5728.8	5768.0	5853.8	5961.6	5923.1
77.5°	2792.7	2889.7	2921.9	2853.2	2850.0	2913.0	2787.7
80°	531.8	532.6	523.8	520.4	526.8	520.5	511.7
82.5°	150.1	148.0	146.7	150.1	149.6	149.2	152.2
85°	69.4	67.3	64.0	64.0	65.6	63.2	64.4
87.5°	9.6	8.0	8.0	8.0	7.6	7.6	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)