

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: P180953

Luminaire Tested: **ICS-F04-LED-E1-SL4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180953  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
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-SL4  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8779.8 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

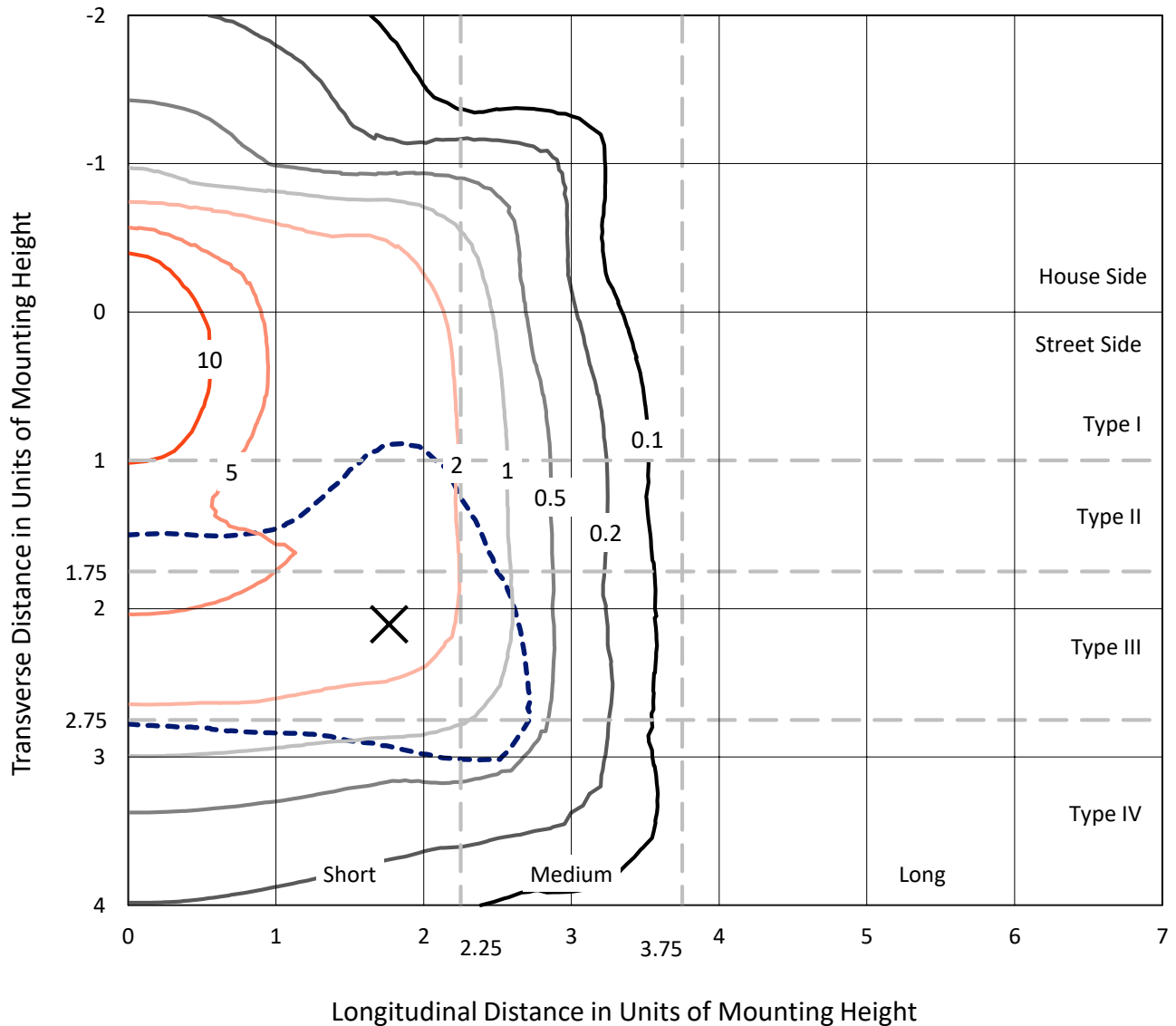
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

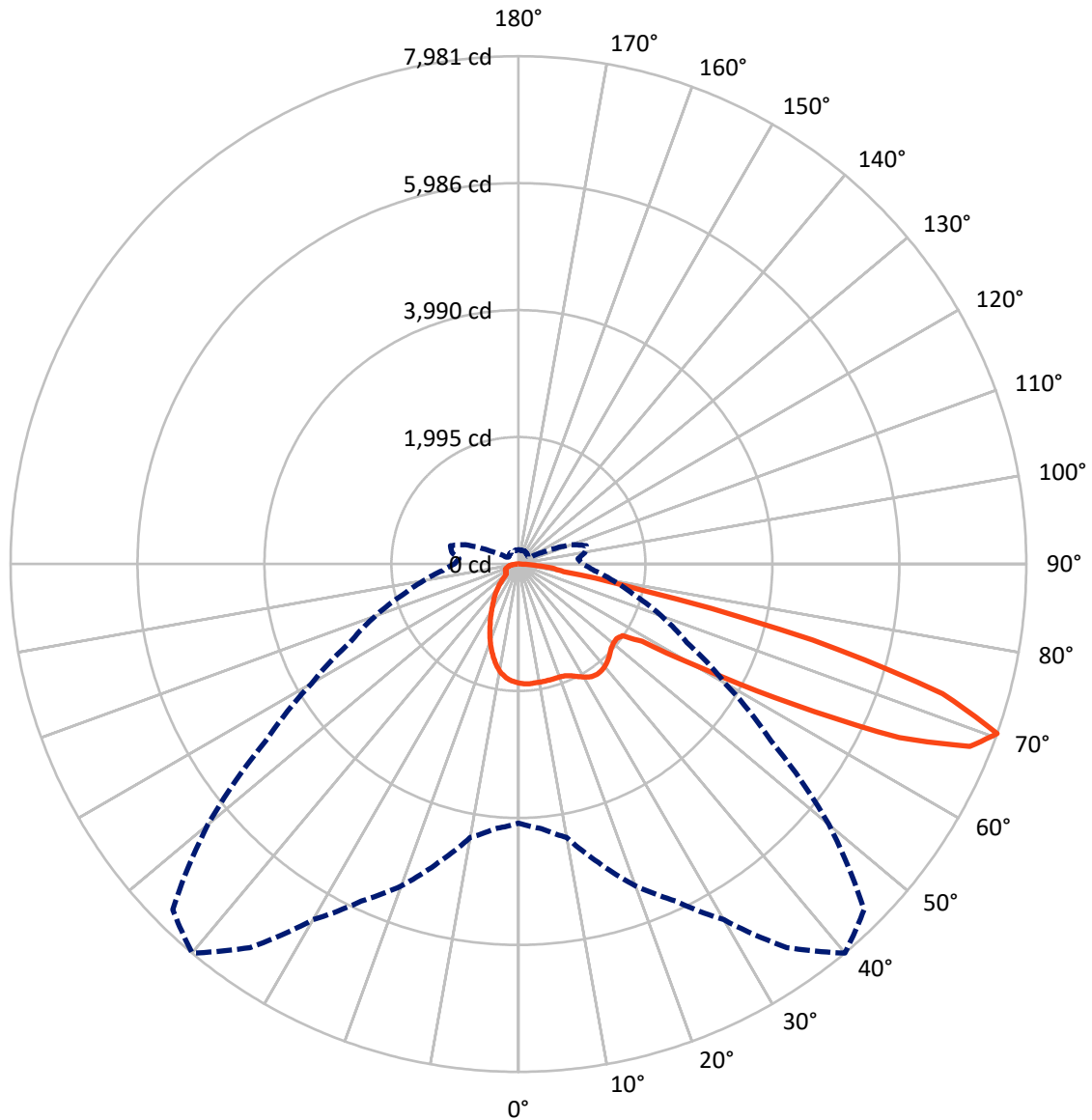
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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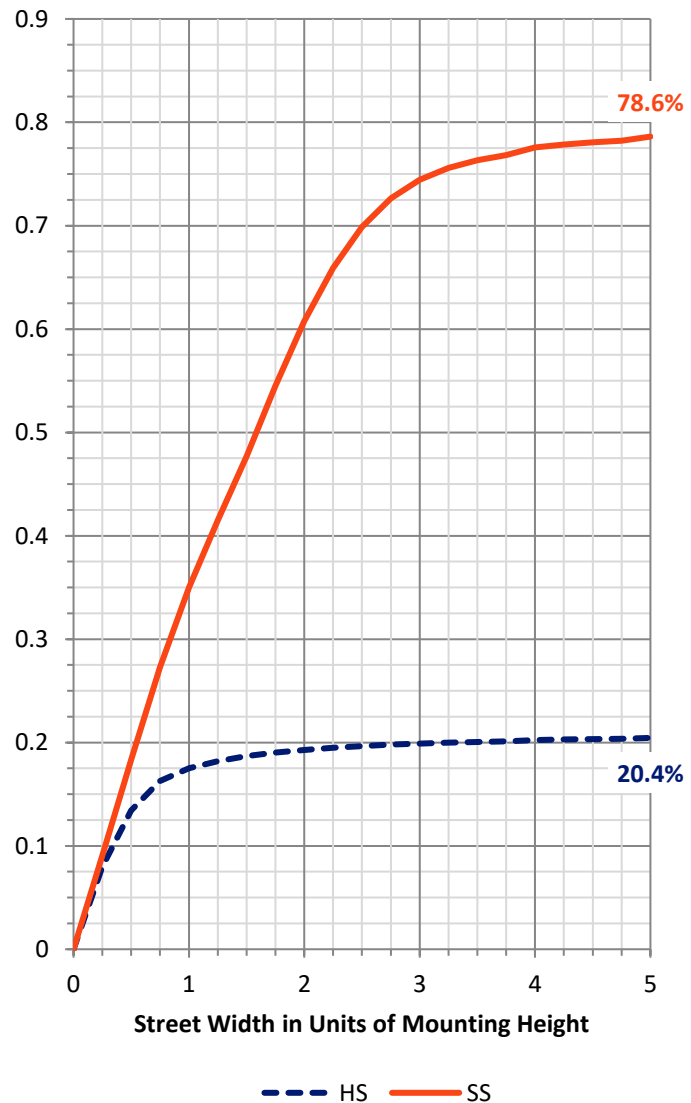
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1822.6	0.0	1822.6
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6957.2	0.0	6957.2
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8779.8	0.0	8779.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	2.0
10°-20°	479.1	5.5
20°-30°	709.3	8.1
30°-40°	896.3	10.2
40°-50°	1013.7	11.5
50°-60°	1442.5	16.4
60°-70°	2686.5	30.6
70°-80°	1231.2	14.0
80°-90°	146.2	1.7
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°	8779.8	100.0
0°-180°	8779.8	100.0



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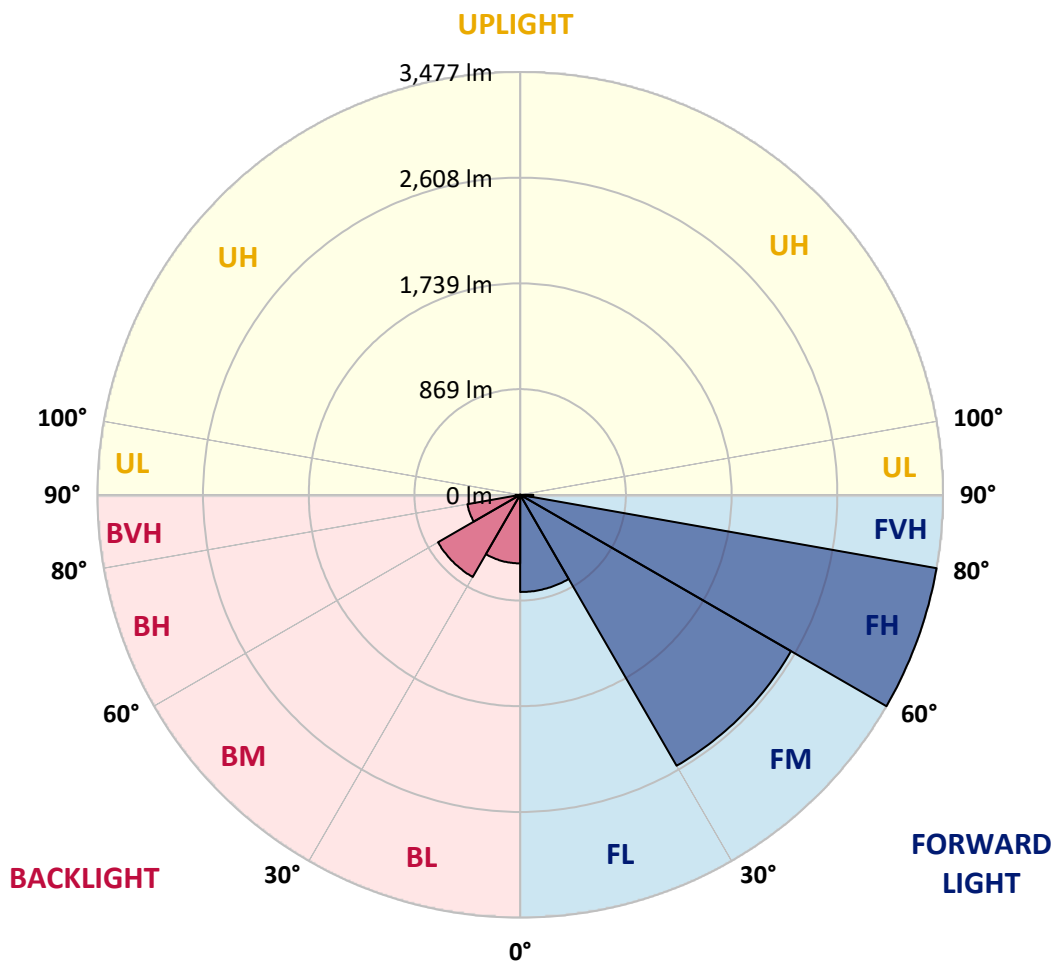
CATALOG NUMBER: ICS-F04-LED-E1-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.5	9.1			
FM	(30°-60°)	2572.2	29.3			
FH	(60°-80°)	3477.1	39.6			G2/5000
FVH	(80°-90°)	108.4	1.2			G2/225
BL	(0°-30°)	563.9	6.4	B2/1000		
BM	(30°-60°)	780.3	8.9	B1/1000		
BH	(60°-80°)	440.6	5.0	B1/500		G1/500
BVH	(80°-90°)	37.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4
2.5°	1902.1	1907.1	1901.1	1900.1	1900.1	1899.1	1893.2	1892.2	1884.3	1885.3	1887.3
5°	1916.0	1918.0	1914.0	1913.0	1911.0	1907.1	1902.1	1896.2	1890.2	1884.3	1879.3
7.5°	1929.9	1927.9	1924.9	1924.9	1921.9	1916.0	1906.1	1898.2	1885.3	1878.3	1869.4
10°	1949.7	1946.7	1942.7	1940.7	1935.8	1926.9	1913.0	1902.1	1886.3	1872.4	1857.5
12.5°	1968.5	1967.5	1961.6	1958.6	1950.7	1941.7	1924.9	1908.1	1887.3	1865.5	1845.6
15°	2002.2	1998.2	1992.3	1986.3	1973.4	1961.6	1935.8	1916.0	1886.3	1857.5	1826.8
17.5°	2060.6	2053.7	2047.7	2034.9	2019.0	1998.2	1960.6	1926.9	1886.3	1844.7	1810.0
20°	2167.6	2152.8	2144.8	2128.0	2100.2	2062.6	2004.2	1949.7	1889.2	1835.7	1789.2
22.5°	2288.5	2278.6	2267.7	2256.8	2213.2	2158.7	2079.4	1998.2	1907.1	1831.8	1772.3
25°	2424.2	2411.3	2405.4	2386.6	2345.9	2283.5	2175.5	2062.6	1947.7	1847.6	1772.3
27.5°	2545.1	2541.1	2540.1	2518.3	2479.7	2406.4	2278.6	2142.8	2003.2	1880.3	1787.2
30°	2655.0	2651.1	2649.1	2637.2	2592.6	2505.4	2366.7	2214.2	2063.6	1925.9	1814.9
32.5°	2771.9	2759.1	2753.1	2730.3	2679.8	2577.8	2419.2	2260.7	2111.1	1970.5	1845.6
35°	2867.0	2856.1	2844.3	2811.6	2740.2	2619.4	2442.0	2276.6	2130.0	1995.2	1861.5
37.5°	2936.4	2925.5	2908.6	2867.0	2778.9	2633.2	2441.0	2271.6	2123.0	1991.3	1864.5
40°	2967.1	2956.2	2938.4	2885.9	2785.8	2625.3	2422.2	2248.9	2102.2	1970.5	1852.6
42.5°	2955.2	2947.3	2924.5	2874.0	2764.0	2589.6	2384.6	2206.3	2062.6	1936.8	1825.8
45°	2909.6	2903.7	2881.9	2828.4	2714.5	2532.2	2329.1	2152.8	2015.1	1895.2	1790.2
47.5°	2841.3	2839.3	2817.5	2765.0	2652.1	2474.7	2271.6	2100.2	1967.5	1854.6	1760.4
50°	2766.0	2756.1	2745.2	2696.6	2593.6	2425.2	2230.0	2067.6	1940.7	1839.7	1747.6
52.5°	2718.4	2715.5	2705.6	2662.0	2562.9	2396.5	2211.2	2055.7	1938.8	1836.7	1740.6
55°	3140.5	3147.4	3056.3	2867.0	2700.6	2475.7	2267.7	2116.1	1987.3	1884.3	1813.9
57.5°	4645.3	4614.6	4458.1	4082.6	3658.6	3098.9	2695.7	2451.0	2291.5	2309.3	2344.9
60°	5412.1	5406.2	5377.4	5231.8	4949.5	4523.5	4050.9	3509.0	3336.6	3355.4	3369.3
62.5°	5754.9	5763.8	5785.6	5731.1	5656.8	5533.0	5297.2	5079.2	4848.4	4762.2	4531.4
65°	5913.4	5929.2	5978.8	6009.5	6038.2	6060.0	6153.1	6408.7	6577.1	6262.1	5529.0
67.5°	5585.5	5661.8	5825.2	5984.7	6127.4	6330.5	6645.5	7238.9	7652.0	7264.7	6201.7
70°	4071.7	4175.7	4363.0	4856.3	5383.4	5844.0	6454.3	7357.8	7980.9	7681.8	6368.1
72.5°	2553.0	2581.7	2664.9	2846.2	3237.6	3829.0	4896.0	6251.2	6970.5	6731.7	5382.4
75°	1619.8	1629.7	1626.7	1668.3	1734.7	1863.5	2285.5	3692.3	4775.1	4402.6	2999.8
77.5°	964.9	979.8	985.7	998.6	1030.3	1075.9	1110.6	1256.2	2002.2	1943.7	1088.8
80°	808.4	820.3	810.4	807.4	787.6	773.7	790.6	773.7	718.2	691.5	637.0
82.5°	428.0	427.0	424.0	452.7	511.2	556.8	591.4	583.5	528.0	449.8	381.4
85°	234.8	242.7	242.7	252.6	243.7	244.7	252.6	266.5	246.7	206.1	168.4
87.5°	19.8	30.7	24.8	30.7	41.6	29.7	28.7	28.7	24.8	17.8	15.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4
2.5°	1882.3	1880.3	1876.4	1873.4	1873.4	1868.4	1865.5	1863.5	1862.5	1858.5	1858.5
5°	1876.4	1869.4	1862.5	1857.5	1854.6	1849.6	1841.7	1837.7	1832.8	1828.8	1826.8
7.5°	1863.5	1850.6	1839.7	1831.8	1821.9	1813.9	1804.0	1795.1	1786.2	1782.2	1780.3
10°	1843.7	1826.8	1810.0	1795.1	1781.2	1767.4	1754.5	1741.6	1730.7	1722.8	1714.9
12.5°	1824.8	1799.1	1777.3	1755.5	1733.7	1716.9	1699.0	1680.2	1664.3	1649.5	1645.5
15°	1799.1	1769.4	1741.6	1714.9	1688.1	1660.4	1638.6	1617.8	1592.0	1575.2	1562.3
17.5°	1775.3	1739.6	1706.0	1674.3	1641.6	1612.8	1580.1	1552.4	1526.6	1500.9	1482.1
20°	1749.5	1710.9	1675.2	1639.6	1603.9	1567.3	1529.6	1494.0	1462.2	1431.5	1400.8
22.5°	1726.8	1687.1	1652.5	1613.8	1574.2	1532.6	1489.0	1444.4	1407.8	1368.1	1332.5
25°	1712.9	1669.3	1633.6	1596.0	1552.4	1506.8	1457.3	1404.8	1360.2	1314.6	1272.0
27.5°	1712.9	1656.4	1619.8	1582.1	1537.5	1489.0	1434.5	1377.1	1326.5	1276.0	1223.5
30°	1727.8	1658.4	1608.9	1569.2	1523.7	1471.2	1410.7	1350.3	1294.8	1235.4	1184.9
32.5°	1741.6	1662.4	1600.9	1550.4	1497.9	1446.4	1385.0	1320.6	1259.2	1202.7	1149.2
35°	1750.5	1662.4	1586.1	1521.7	1462.2	1411.7	1351.3	1286.9	1224.5	1169.0	1119.5
37.5°	1751.5	1654.4	1562.3	1489.0	1426.6	1374.1	1316.6	1256.2	1196.7	1145.2	1103.6
40°	1741.6	1638.6	1538.5	1454.3	1388.9	1335.4	1282.9	1228.4	1175.0	1132.4	1096.7
42.5°	1723.8	1621.7	1515.7	1426.6	1358.2	1302.7	1254.2	1207.6	1161.1	1124.4	1094.7
45°	1697.0	1599.0	1494.9	1409.7	1342.4	1283.9	1236.4	1197.7	1158.1	1127.4	1097.7
47.5°	1673.3	1591.0	1501.9	1420.6	1350.3	1289.9	1241.3	1208.6	1177.9	1157.1	1116.5
50°	1668.3	1587.1	1504.8	1429.6	1358.2	1296.8	1254.2	1237.4	1228.4	1215.6	1153.2
52.5°	1654.4	1586.1	1526.6	1485.0	1439.5	1410.7	1366.2	1382.0	1372.1	1326.5	1213.6
55°	1800.1	1819.9	1875.4	1954.6	2027.9	2044.8	2039.8	2021.0	1920.9	1652.5	1359.2
57.5°	2474.7	2586.7	2691.7	2738.3	2732.3	2679.8	2642.2	2565.9	2421.2	2094.3	1646.5
60°	3411.9	3429.7	3374.3	3292.0	3153.3	3037.4	2913.6	2770.9	2560.9	2240.9	1822.9
62.5°	4274.8	4035.1	3788.4	3556.6	3345.5	3161.3	2988.9	2789.8	2516.3	2182.5	1800.1
65°	4884.1	4376.8	3987.5	3654.6	3356.4	3098.9	2883.9	2625.3	2317.2	2016.0	1668.3
67.5°	5198.1	4420.4	3823.0	3359.4	2936.4	2579.7	2293.4	2041.8	1813.0	1681.2	1460.3
70°	4847.4	3751.7	2919.5	2395.5	1889.2	1514.8	1196.7	1004.6	938.2	1063.0	1105.6
72.5°	3612.0	2442.0	1736.7	1343.4	1029.3	820.3	629.1	494.4	402.2	422.0	547.8
75°	1707.9	1054.1	745.0	566.7	450.8	373.5	305.1	279.4	233.8	194.2	182.3
77.5°	664.7	484.4	400.2	293.2	208.0	167.4	142.7	137.7	140.7	136.7	134.7
80°	506.2	342.8	215.0	157.5	135.7	119.9	106.0	102.0	104.0	109.0	113.9
82.5°	282.3	176.3	130.8	113.9	102.0	87.2	79.3	73.3	74.3	80.2	91.1
85°	109.0	85.2	78.3	75.3	70.3	56.5	48.5	49.5	56.5	67.4	67.4
87.5°	11.9	11.9	15.9	11.9	11.9	11.9	10.9	12.9	13.9	17.8	20.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4	1873.4
2.5°	1856.5	1856.5	1856.5	1854.6	1855.6	1851.6	1851.6	1848.6	1853.6	1850.6	1849.6
5°	1827.8	1826.8	1822.9	1822.9	1822.9	1822.9	1825.8	1817.9	1823.8	1823.8	1820.9
7.5°	1779.3	1779.3	1768.4	1774.3	1772.3	1775.3	1779.3	1775.3	1781.2	1785.2	1782.2
10°	1711.9	1711.9	1703.0	1709.9	1706.9	1713.9	1720.8	1716.9	1720.8	1726.8	1728.7
12.5°	1637.6	1633.6	1625.7	1628.7	1628.7	1632.6	1635.6	1640.6	1645.5	1653.5	1657.4
15°	1551.4	1545.5	1535.6	1535.6	1529.6	1531.6	1537.5	1539.5	1549.4	1560.3	1573.2
17.5°	1463.2	1448.4	1437.5	1424.6	1414.7	1422.6	1429.6	1434.5	1442.4	1459.3	1468.2
20°	1380.0	1350.3	1329.5	1312.7	1301.8	1306.7	1315.6	1321.6	1328.5	1332.5	1335.4
22.5°	1297.8	1264.1	1235.4	1214.6	1196.7	1201.7	1197.7	1194.8	1199.7	1186.8	1185.8
25°	1226.5	1186.8	1148.2	1123.4	1101.6	1094.7	1073.9	1068.9	1055.1	1044.2	1036.3
27.5°	1175.0	1123.4	1080.8	1052.1	1017.4	991.7	964.9	938.2	923.3	905.5	896.6
30°	1134.3	1079.8	1029.3	980.8	935.2	895.6	859.9	825.2	801.5	775.7	758.9
32.5°	1096.7	1046.2	984.7	918.4	856.9	812.4	765.8	726.2	688.5	654.8	630.1
35°	1070.9	1014.5	936.2	855.0	785.6	733.1	683.6	627.1	581.5	537.9	511.2
37.5°	1057.1	987.7	891.6	801.5	724.2	664.7	603.3	537.9	482.5	441.8	401.2
40°	1046.2	961.0	852.0	753.9	672.7	601.3	530.0	452.7	391.3	348.7	317.0
42.5°	1034.3	931.2	817.3	716.3	626.1	542.9	456.7	374.5	316.0	286.3	272.4
45°	1021.4	905.5	784.6	680.6	580.5	479.5	380.4	304.1	269.5	259.6	259.6
47.5°	1018.4	888.6	760.8	645.9	529.0	406.2	310.1	262.5	252.6	254.6	258.6
50°	1030.3	883.7	740.0	605.3	460.7	328.9	262.5	246.7	248.7	254.6	260.5
52.5°	1059.0	887.7	718.2	548.8	379.4	271.4	242.7	241.7	247.7	256.6	262.5
55°	1107.6	887.7	676.6	464.6	303.1	243.7	235.8	239.7	247.7	255.6	260.5
57.5°	1211.6	878.7	603.3	371.5	253.6	233.8	233.8	238.8	245.7	253.6	257.6
60°	1335.4	866.8	500.3	287.3	228.8	225.9	232.8	238.8	244.7	251.6	255.6
62.5°	1343.4	836.1	396.3	237.8	216.0	220.9	231.8	239.7	241.7	246.7	251.6
65°	1234.4	729.1	315.0	213.0	210.0	218.0	228.8	234.8	235.8	237.8	242.7
67.5°	1080.8	594.4	254.6	201.1	204.1	213.0	218.9	223.9	226.9	231.8	232.8
70°	887.7	477.5	218.0	189.2	192.2	202.1	207.1	212.0	218.0	223.9	220.9
72.5°	629.1	371.5	191.2	176.3	180.3	189.2	195.2	199.1	204.1	210.0	206.1
75°	267.5	259.6	165.4	159.5	165.4	171.4	177.3	183.3	188.2	191.2	191.2
77.5°	136.7	152.6	142.7	142.7	146.6	152.6	157.5	163.5	166.4	169.4	173.4
80°	115.9	117.9	119.9	123.8	127.8	133.7	138.7	143.6	144.6	145.6	147.6
82.5°	96.1	100.1	102.0	108.0	111.0	112.9	115.9	115.9	117.9	117.9	114.9
85°	69.3	74.3	77.3	78.3	77.3	78.3	79.3	81.2	86.2	86.2	82.2
87.5°	19.8	18.8	23.8	24.8	26.7	30.7	34.7	41.6	43.6	45.6	45.6
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):**

	165°	170°	175°	180°
0°	1873.4	1873.4	1873.4	1873.4
2.5°	1848.6	1850.6	1846.6	1847.6
5°	1820.9	1824.8	1819.9	1825.8
7.5°	1785.2	1791.2	1790.2	1789.2
10°	1733.7	1741.6	1741.6	1744.6
12.5°	1668.3	1673.3	1677.2	1679.2
15°	1580.1	1589.1	1594.0	1594.0
17.5°	1474.1	1480.1	1483.1	1479.1
20°	1339.4	1337.4	1338.4	1328.5
22.5°	1183.9	1186.8	1177.9	1179.9
25°	1031.3	1026.3	1030.3	1024.4
27.5°	883.7	884.7	873.8	878.7
30°	743.0	738.1	724.2	731.1
32.5°	607.3	594.4	579.6	570.6
35°	479.5	459.7	452.7	449.8
37.5°	376.5	354.7	347.7	339.8
40°	299.2	291.3	288.3	290.3
42.5°	268.5	268.5	270.5	271.4
45°	260.5	263.5	266.5	267.5
47.5°	261.5	264.5	268.5	269.5
50°	263.5	266.5	269.5	270.5
52.5°	264.5	264.5	266.5	267.5
55°	262.5	261.5	262.5	263.5
57.5°	258.6	256.6	257.6	260.5
60°	256.6	253.6	255.6	257.6
62.5°	251.6	250.6	252.6	253.6
65°	240.7	241.7	244.7	244.7
67.5°	230.8	231.8	232.8	233.8
70°	218.9	219.9	221.9	222.9
72.5°	205.1	209.0	212.0	216.0
75°	194.2	198.1	204.1	208.0
77.5°	175.4	178.3	185.3	190.2
80°	148.6	147.6	148.6	151.6
82.5°	113.9	113.9	112.9	111.9
85°	80.2	79.3	76.3	76.3
87.5°	43.6	42.6	41.6	39.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)