

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: P180938

Luminaire Tested: **ICS-E03-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180938
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-E03-LED-E1-SL4
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7976.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

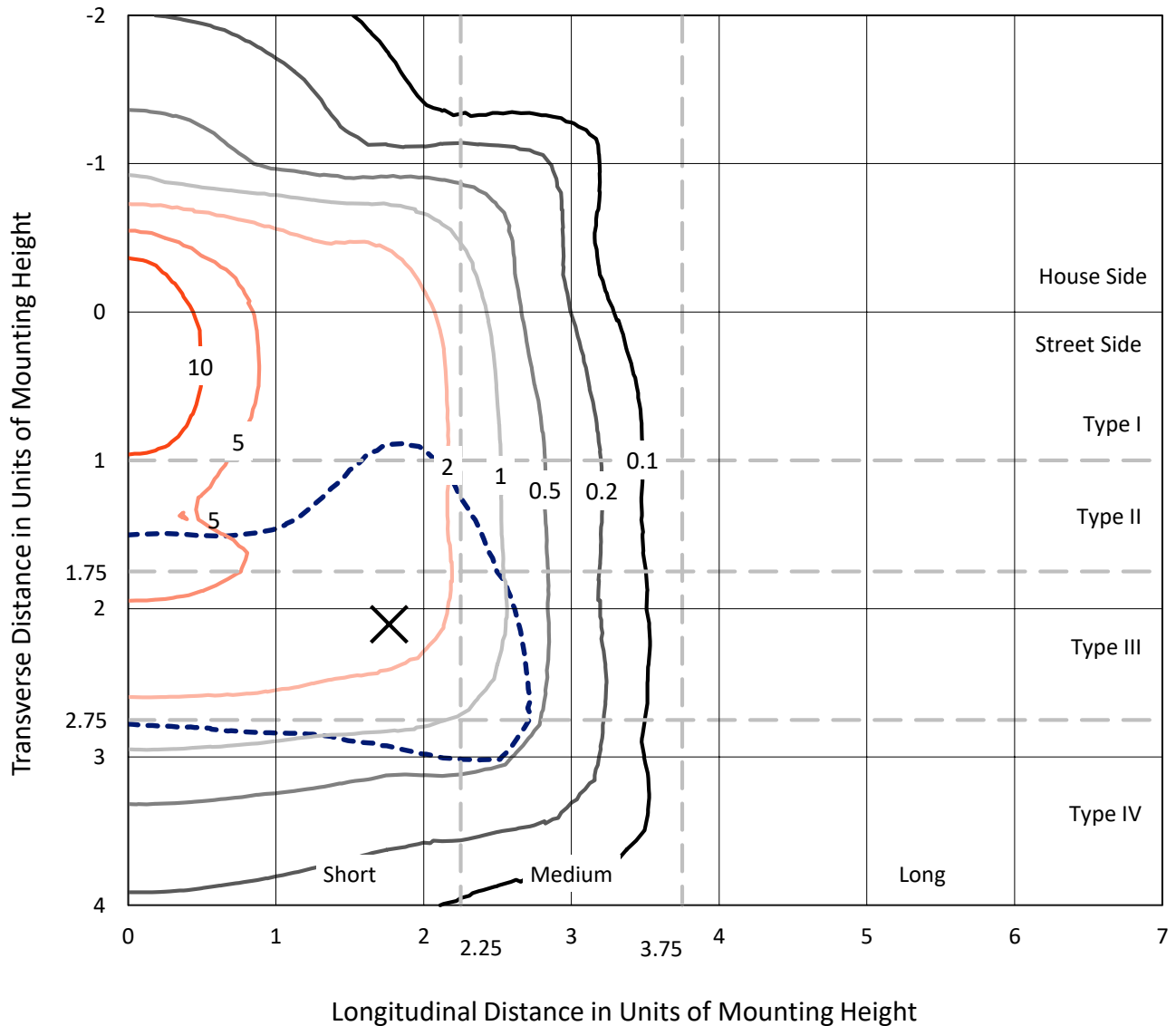
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

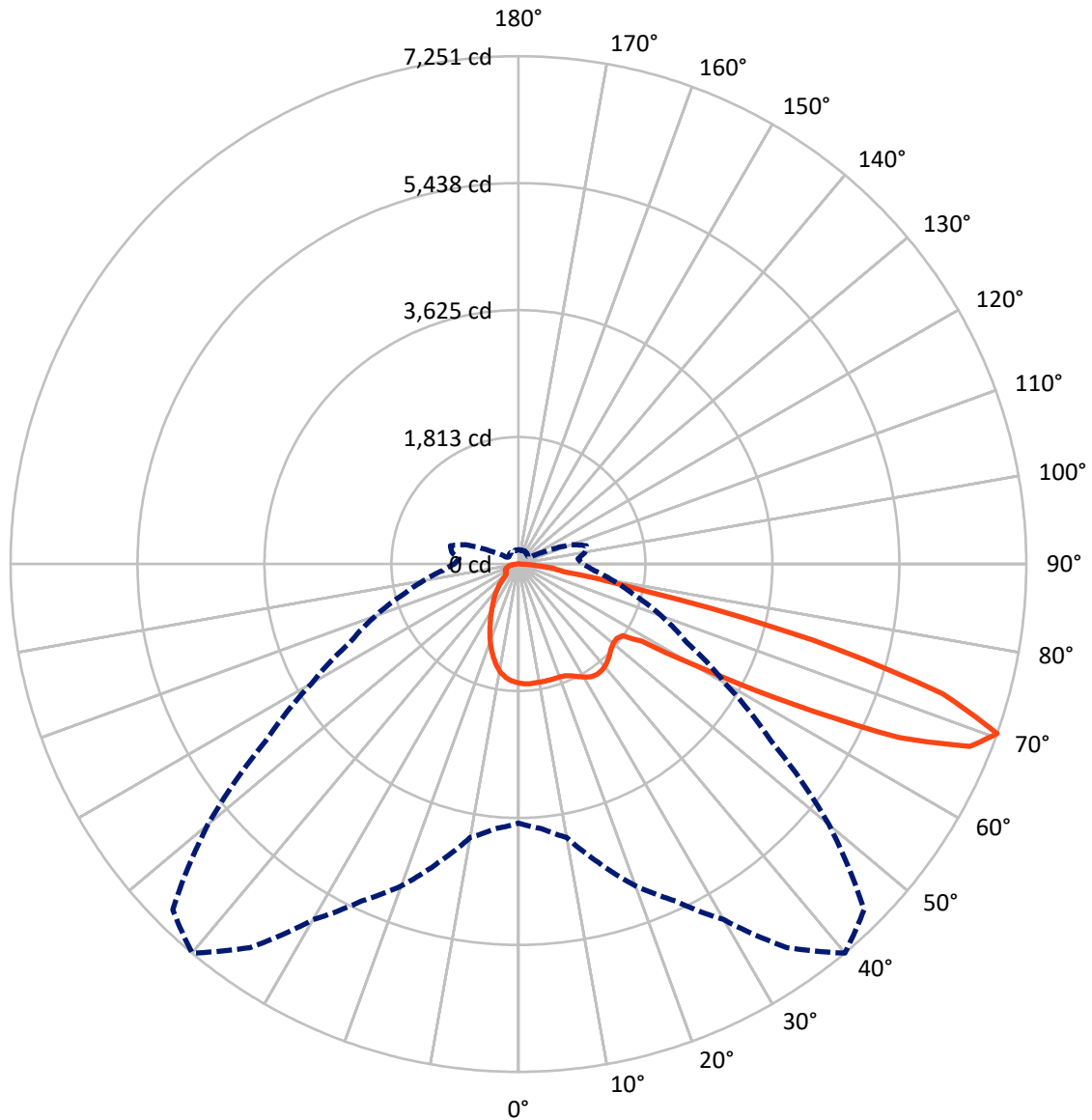
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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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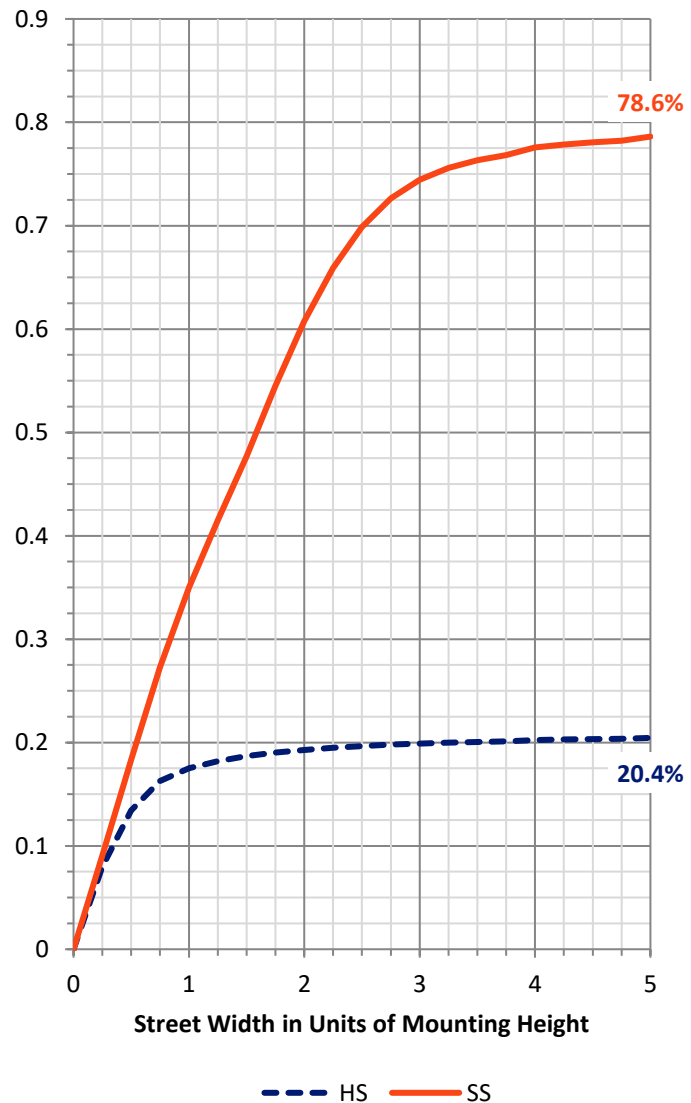
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.8	0.0	1655.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6320.7	0.0	6320.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	7976.5	0.0	7976.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.0
10°-20°	435.3	5.5
20°-30°	644.4	8.1
30°-40°	814.3	10.2
40°-50°	920.9	11.5
50°-60°	1310.5	16.4
60°-70°	2440.7	30.6
70°-80°	1118.6	14.0
80°-90°	132.8	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°	7976.5	100.0
0°-180°	7976.5	100.0



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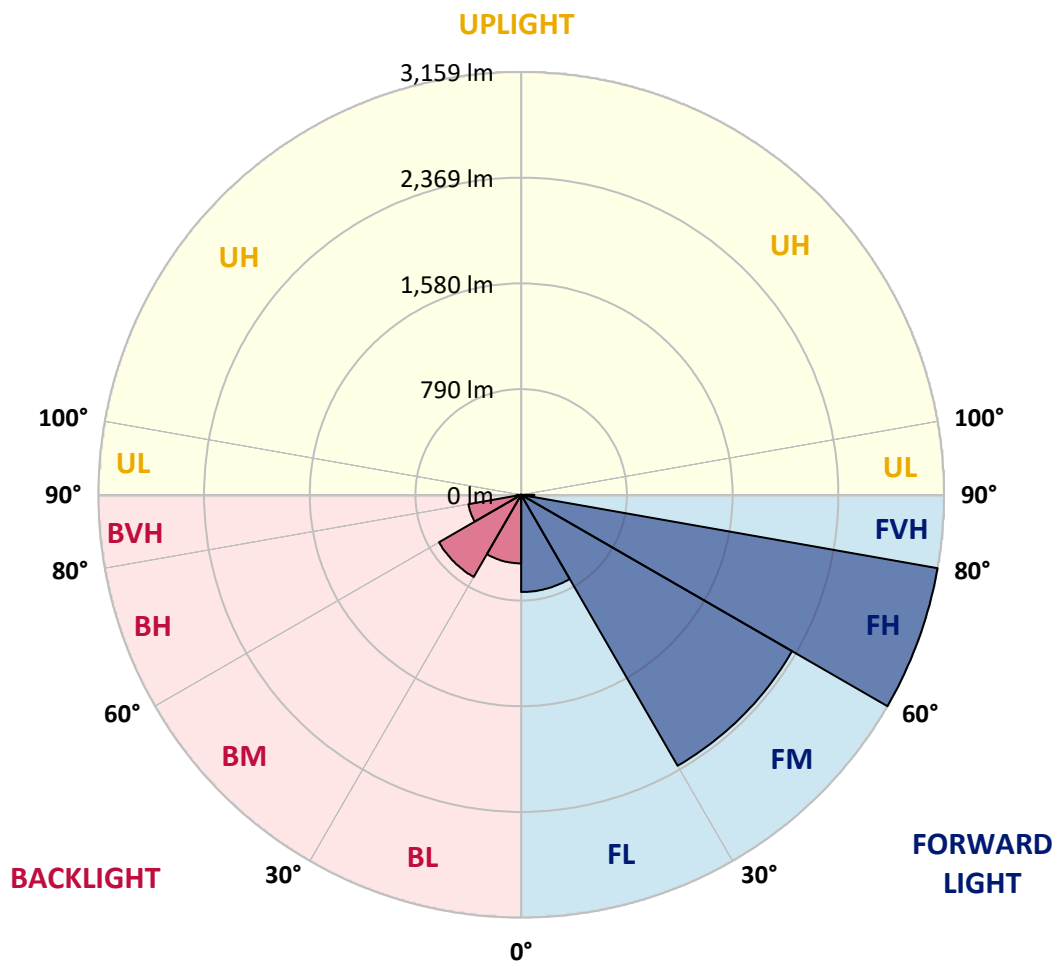
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.3	9.1			
FM	(30°-60°)	2336.9	29.3			
FH	(60°-80°)	3159.0	39.6			G2/5000
FVH	(80°-90°)	98.5	1.2			G1/100
BL	(0°-30°)	512.3	6.4	B2/1000		
BM	(30°-60°)	708.9	8.9	B1/1000		
BH	(60°-80°)	400.3	5.0	B1/500		G1/500
BVH	(80°-90°)	34.3	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°	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0
2.5°	1728.1	1732.6	1727.2	1726.3	1726.3	1725.4	1720.0	1719.1	1711.9	1712.8	1714.6
5°	1740.7	1742.5	1738.9	1738.0	1736.2	1732.6	1728.1	1722.7	1717.3	1711.9	1707.4
7.5°	1753.3	1751.5	1748.8	1748.8	1746.1	1740.7	1731.7	1724.5	1712.8	1706.5	1698.4
10°	1771.3	1768.6	1765.0	1763.2	1758.7	1750.6	1738.0	1728.1	1713.7	1701.1	1687.6
12.5°	1788.4	1787.5	1782.1	1779.4	1772.2	1764.1	1748.8	1733.5	1714.6	1694.8	1676.8
15°	1819.0	1815.4	1810.0	1804.6	1792.9	1782.1	1758.7	1740.7	1713.7	1687.6	1659.7
17.5°	1872.1	1865.8	1860.4	1848.7	1834.3	1815.4	1781.2	1750.6	1713.7	1675.9	1644.4
20°	1969.3	1955.8	1948.6	1933.3	1908.1	1873.9	1820.8	1771.3	1716.4	1667.8	1625.5
22.5°	2079.1	2070.1	2060.2	2050.3	2010.7	1961.2	1889.2	1815.4	1732.6	1664.2	1610.2
25°	2202.4	2190.7	2185.3	2168.2	2131.3	2074.6	1976.5	1873.9	1769.5	1678.6	1610.2
27.5°	2312.2	2308.6	2307.7	2287.9	2252.8	2186.2	2070.1	1946.8	1819.9	1708.3	1623.7
30°	2412.1	2408.5	2406.7	2395.9	2355.4	2276.2	2150.2	2011.6	1874.8	1749.7	1648.9
32.5°	2518.3	2506.6	2501.2	2480.5	2434.6	2341.9	2197.9	2053.9	1918.0	1790.2	1676.8
35°	2604.7	2594.8	2584.0	2554.3	2489.5	2379.7	2218.6	2068.3	1935.1	1812.7	1691.2
37.5°	2667.7	2657.8	2642.5	2604.7	2524.6	2392.3	2217.7	2063.8	1928.8	1809.1	1693.9
40°	2695.6	2685.7	2669.5	2621.8	2530.9	2385.1	2200.6	2043.1	1909.9	1790.2	1683.1
42.5°	2684.8	2677.6	2656.9	2611.0	2511.1	2352.7	2166.4	2004.4	1873.9	1759.6	1658.8
45°	2643.4	2638.0	2618.2	2569.6	2466.1	2300.5	2116.0	1955.8	1830.7	1721.8	1626.4
47.5°	2581.3	2579.5	2559.7	2512.0	2409.4	2248.3	2063.8	1908.1	1787.5	1684.9	1599.4
50°	2512.9	2503.9	2494.0	2449.9	2356.3	2203.3	2026.0	1878.4	1763.2	1671.4	1587.7
52.5°	2469.7	2467.0	2458.0	2418.4	2328.4	2177.2	2008.9	1867.6	1761.4	1668.7	1581.4
55°	2853.2	2859.5	2776.7	2604.7	2453.5	2249.2	2060.2	1922.5	1805.5	1711.9	1648.0
57.5°	4220.3	4192.4	4050.2	3709.1	3323.9	2815.4	2449.0	2226.7	2081.8	2098.0	2130.4
60°	4917.0	4911.6	4885.5	4753.2	4496.6	4109.6	3680.3	3188.0	3031.4	3048.5	3061.1
62.5°	5228.4	5236.5	5256.3	5206.8	5139.3	5026.8	4812.6	4614.6	4404.8	4326.5	4116.8
65°	5372.4	5386.8	5431.8	5459.7	5485.8	5505.6	5590.2	5822.4	5975.4	5689.2	5023.2
67.5°	5074.5	5143.8	5292.3	5437.2	5566.8	5751.3	6037.5	6576.7	6952.0	6600.1	5634.3
70°	3699.2	3793.7	3963.8	4412.0	4890.9	5309.4	5863.8	6684.7	7250.8	6979.0	5785.5
72.5°	2319.4	2345.5	2421.1	2585.8	2941.4	3478.7	4448.0	5679.3	6332.7	6115.8	4890.0
75°	1471.6	1480.6	1477.9	1515.7	1576.0	1693.0	2076.4	3354.5	4338.2	3999.8	2725.3
77.5°	876.6	890.1	895.5	907.2	936.1	977.5	1009.0	1141.3	1819.0	1765.9	989.2
80°	734.4	745.2	736.2	733.5	715.5	702.9	718.2	702.9	652.5	628.2	578.7
82.5°	388.8	387.9	385.2	411.3	464.4	505.8	537.3	530.1	479.7	408.6	346.5
85°	213.3	220.5	220.5	229.5	221.4	222.3	229.5	242.1	224.1	187.2	153.0
87.5°	18.0	27.9	22.5	27.9	37.8	27.0	26.1	26.1	22.5	16.2	14.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0
2.5°	1710.1	1708.3	1704.7	1702.0	1702.0	1697.5	1694.8	1693.0	1692.1	1688.5	1688.5
5°	1704.7	1698.4	1692.1	1687.6	1684.9	1680.4	1673.2	1669.6	1665.1	1661.5	1659.7
7.5°	1693.0	1681.3	1671.4	1664.2	1655.2	1648.0	1639.0	1630.9	1622.8	1619.2	1617.4
10°	1675.0	1659.7	1644.4	1630.9	1618.3	1605.7	1594.0	1582.3	1572.4	1565.2	1558.0
12.5°	1657.9	1634.5	1614.7	1594.9	1575.1	1559.8	1543.6	1526.5	1512.1	1498.6	1495.0
15°	1634.5	1607.5	1582.3	1558.0	1533.7	1508.5	1488.7	1469.8	1446.4	1431.1	1419.4
17.5°	1612.9	1580.5	1549.9	1521.1	1491.4	1465.3	1435.6	1410.4	1387.0	1363.6	1346.5
20°	1589.5	1554.4	1522.0	1489.6	1457.2	1423.9	1389.7	1357.3	1328.5	1300.6	1272.7
22.5°	1568.8	1532.8	1501.3	1466.2	1430.2	1392.4	1352.8	1312.3	1279.0	1243.0	1210.6
25°	1556.2	1516.6	1484.2	1450.0	1410.4	1369.0	1324.0	1276.3	1235.8	1194.4	1155.7
27.5°	1556.2	1504.9	1471.6	1437.4	1396.9	1352.8	1303.3	1251.1	1205.2	1159.3	1111.6
30°	1569.7	1506.7	1461.7	1425.7	1384.3	1336.6	1281.7	1226.8	1176.4	1122.4	1076.5
32.5°	1582.3	1510.3	1454.5	1408.6	1360.9	1314.1	1258.3	1199.8	1144.0	1092.7	1044.1
35°	1590.4	1510.3	1441.0	1382.5	1328.5	1282.6	1227.7	1169.2	1112.5	1062.1	1017.1
37.5°	1591.3	1503.1	1419.4	1352.8	1296.1	1248.4	1196.2	1141.3	1087.3	1040.5	1002.7
40°	1582.3	1488.7	1397.8	1321.3	1261.9	1213.3	1165.6	1116.1	1067.5	1028.8	996.4
42.5°	1566.1	1473.4	1377.1	1296.1	1234.0	1183.6	1139.5	1097.2	1054.9	1021.6	994.6
45°	1541.8	1452.7	1358.2	1280.8	1219.6	1166.5	1123.3	1088.2	1052.2	1024.3	997.3
47.5°	1520.2	1445.5	1364.5	1290.7	1226.8	1171.9	1127.8	1098.1	1070.2	1051.3	1014.4
50°	1515.7	1441.9	1367.2	1298.8	1234.0	1178.2	1139.5	1124.2	1116.1	1104.4	1047.7
52.5°	1503.1	1441.0	1387.0	1349.2	1307.8	1281.7	1241.2	1255.6	1246.6	1205.2	1102.6
55°	1635.4	1653.4	1703.8	1775.8	1842.4	1857.7	1853.2	1836.1	1745.2	1501.3	1234.9
57.5°	2248.3	2350.0	2445.4	2487.7	2482.3	2434.6	2400.4	2331.1	2199.7	1902.7	1495.9
60°	3099.8	3116.0	3065.6	2990.9	2864.9	2759.6	2647.0	2517.4	2326.6	2035.9	1656.1
62.5°	3883.7	3665.9	3441.8	3231.2	3039.5	2872.1	2715.4	2534.5	2286.1	1982.8	1635.4
65°	4437.2	3976.4	3622.7	3320.3	3049.4	2815.4	2620.0	2385.1	2105.2	1831.6	1515.7
67.5°	4722.6	4016.0	3473.3	3052.1	2667.7	2343.7	2083.6	1855.0	1647.1	1527.4	1326.7
70°	4403.9	3408.5	2652.4	2176.3	1716.4	1376.2	1087.3	912.6	852.3	965.8	1004.5
72.5°	3281.6	2218.6	1577.8	1220.5	935.2	745.2	571.5	449.1	365.4	383.4	497.7
75°	1551.7	957.7	676.8	514.8	409.5	339.3	277.2	253.8	212.4	176.4	165.6
77.5°	603.9	440.1	363.6	266.4	189.0	152.1	129.6	125.1	127.8	124.2	122.4
80°	459.9	311.4	195.3	143.1	123.3	108.9	96.3	92.7	94.5	99.0	103.5
82.5°	256.5	160.2	118.8	103.5	92.7	79.2	72.0	66.6	67.5	72.9	82.8
85°	99.0	77.4	71.1	68.4	63.9	51.3	44.1	45.0	51.3	61.2	61.2
87.5°	10.8	10.8	14.4	10.8	10.8	10.8	9.9	11.7	12.6	16.2	18.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0	1702.0
2.5°	1686.7	1686.7	1686.7	1684.9	1685.8	1682.2	1682.2	1679.5	1684.0	1681.3	1680.4
5°	1660.6	1659.7	1656.1	1656.1	1656.1	1656.1	1658.8	1651.6	1657.0	1657.0	1654.3
7.5°	1616.5	1616.5	1606.6	1612.0	1610.2	1612.9	1616.5	1612.9	1618.3	1621.9	1619.2
10°	1555.3	1555.3	1547.2	1553.5	1550.8	1557.1	1563.4	1559.8	1563.4	1568.8	1570.6
12.5°	1487.8	1484.2	1477.0	1479.7	1479.7	1483.3	1486.0	1490.5	1495.0	1502.2	1505.8
15°	1409.5	1404.1	1395.1	1395.1	1389.7	1391.5	1396.9	1398.7	1407.7	1417.6	1429.3
17.5°	1329.4	1315.9	1306.0	1294.3	1285.3	1292.5	1298.8	1303.3	1310.5	1325.8	1333.9
20°	1253.8	1226.8	1207.9	1192.6	1182.7	1187.2	1195.3	1200.7	1207.0	1210.6	1213.3
22.5°	1179.1	1148.5	1122.4	1103.5	1087.3	1091.8	1088.2	1085.5	1090.0	1078.3	1077.4
25°	1114.3	1078.3	1043.2	1020.7	1000.9	994.6	975.7	971.2	958.6	948.7	941.5
27.5°	1067.5	1020.7	982.0	955.9	924.4	900.9	876.6	852.3	838.8	822.6	814.5
30°	1030.6	981.1	935.2	891.0	849.6	813.6	781.2	749.7	728.1	704.7	689.4
32.5°	996.4	950.5	894.6	834.3	778.5	738.0	695.7	659.7	625.5	594.9	572.4
35°	973.0	921.7	850.5	776.7	713.7	666.0	621.0	569.7	528.3	488.7	464.4
37.5°	960.4	897.3	810.0	728.1	657.9	603.9	548.1	488.7	438.3	401.4	364.5
40°	950.5	873.0	774.0	684.9	611.1	546.3	481.5	411.3	355.5	316.8	288.0
42.5°	939.7	846.0	742.5	650.7	568.8	493.2	414.9	340.2	287.1	260.1	247.5
45°	928.0	822.6	712.8	618.3	527.4	435.6	345.6	276.3	244.8	235.8	235.8
47.5°	925.3	807.3	691.2	586.8	480.6	369.0	281.7	238.5	229.5	231.3	234.9
50°	936.1	802.8	672.3	549.9	418.5	298.8	238.5	224.1	225.9	231.3	236.7
52.5°	962.2	806.4	652.5	498.6	344.7	246.6	220.5	219.6	225.0	233.1	238.5
55°	1006.3	806.4	614.7	422.1	275.4	221.4	214.2	217.8	225.0	232.2	236.7
57.5°	1100.8	798.3	548.1	337.5	230.4	212.4	212.4	216.9	223.2	230.4	234.0
60°	1213.3	787.5	454.5	261.0	207.9	205.2	211.5	216.9	222.3	228.6	232.2
62.5°	1220.5	759.6	360.0	216.0	196.2	200.7	210.6	217.8	219.6	224.1	228.6
65°	1121.5	662.4	286.2	193.5	190.8	198.0	207.9	213.3	214.2	216.0	220.5
67.5°	982.0	540.0	231.3	182.7	185.4	193.5	198.9	203.4	206.1	210.6	211.5
70°	806.4	433.8	198.0	171.9	174.6	183.6	188.1	192.6	198.0	203.4	200.7
72.5°	571.5	337.5	173.7	160.2	163.8	171.9	177.3	180.9	185.4	190.8	187.2
75°	243.0	235.8	150.3	144.9	150.3	155.7	161.1	166.5	171.0	173.7	173.7
77.5°	124.2	138.6	129.6	129.6	133.2	138.6	143.1	148.5	151.2	153.9	157.5
80°	105.3	107.1	108.9	112.5	116.1	121.5	126.0	130.5	131.4	132.3	134.1
82.5°	87.3	90.9	92.7	98.1	100.8	102.6	105.3	105.3	107.1	107.1	104.4
85°	63.0	67.5	70.2	71.1	70.2	71.1	72.0	73.8	78.3	78.3	74.7
87.5°	18.0	17.1	21.6	22.5	24.3	27.9	31.5	37.8	39.6	41.4	41.4
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):

	165°	170°	175°	180°
0°	1702.0	1702.0	1702.0	1702.0
2.5°	1679.5	1681.3	1677.7	1678.6
5°	1654.3	1657.9	1653.4	1658.8
7.5°	1621.9	1627.3	1626.4	1625.5
10°	1575.1	1582.3	1582.3	1585.0
12.5°	1515.7	1520.2	1523.8	1525.6
15°	1435.6	1443.7	1448.2	1448.2
17.5°	1339.3	1344.7	1347.4	1343.8
20°	1216.9	1215.1	1216.0	1207.0
22.5°	1075.6	1078.3	1070.2	1072.0
25°	937.0	932.5	936.1	930.7
27.5°	802.8	803.7	793.8	798.3
30°	675.0	670.5	657.9	664.2
32.5°	551.7	540.0	526.5	518.4
35°	435.6	417.6	411.3	408.6
37.5°	342.0	322.2	315.9	308.7
40°	271.8	264.6	261.9	263.7
42.5°	243.9	243.9	245.7	246.6
45°	236.7	239.4	242.1	243.0
47.5°	237.6	240.3	243.9	244.8
50°	239.4	242.1	244.8	245.7
52.5°	240.3	240.3	242.1	243.0
55°	238.5	237.6	238.5	239.4
57.5°	234.9	233.1	234.0	236.7
60°	233.1	230.4	232.2	234.0
62.5°	228.6	227.7	229.5	230.4
65°	218.7	219.6	222.3	222.3
67.5°	209.7	210.6	211.5	212.4
70°	198.9	199.8	201.6	202.5
72.5°	186.3	189.9	192.6	196.2
75°	176.4	180.0	185.4	189.0
77.5°	159.3	162.0	168.3	172.8
80°	135.0	134.1	135.0	137.7
82.5°	103.5	103.5	102.6	101.7
85°	72.9	72.0	69.3	69.3
87.5°	39.6	38.7	37.8	36.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)