

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: P180952

Luminaire Tested: **ICS-F04-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180952
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-SL4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8019 lumens
Efficiency: N/A
Efficacy: 78.5 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 (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

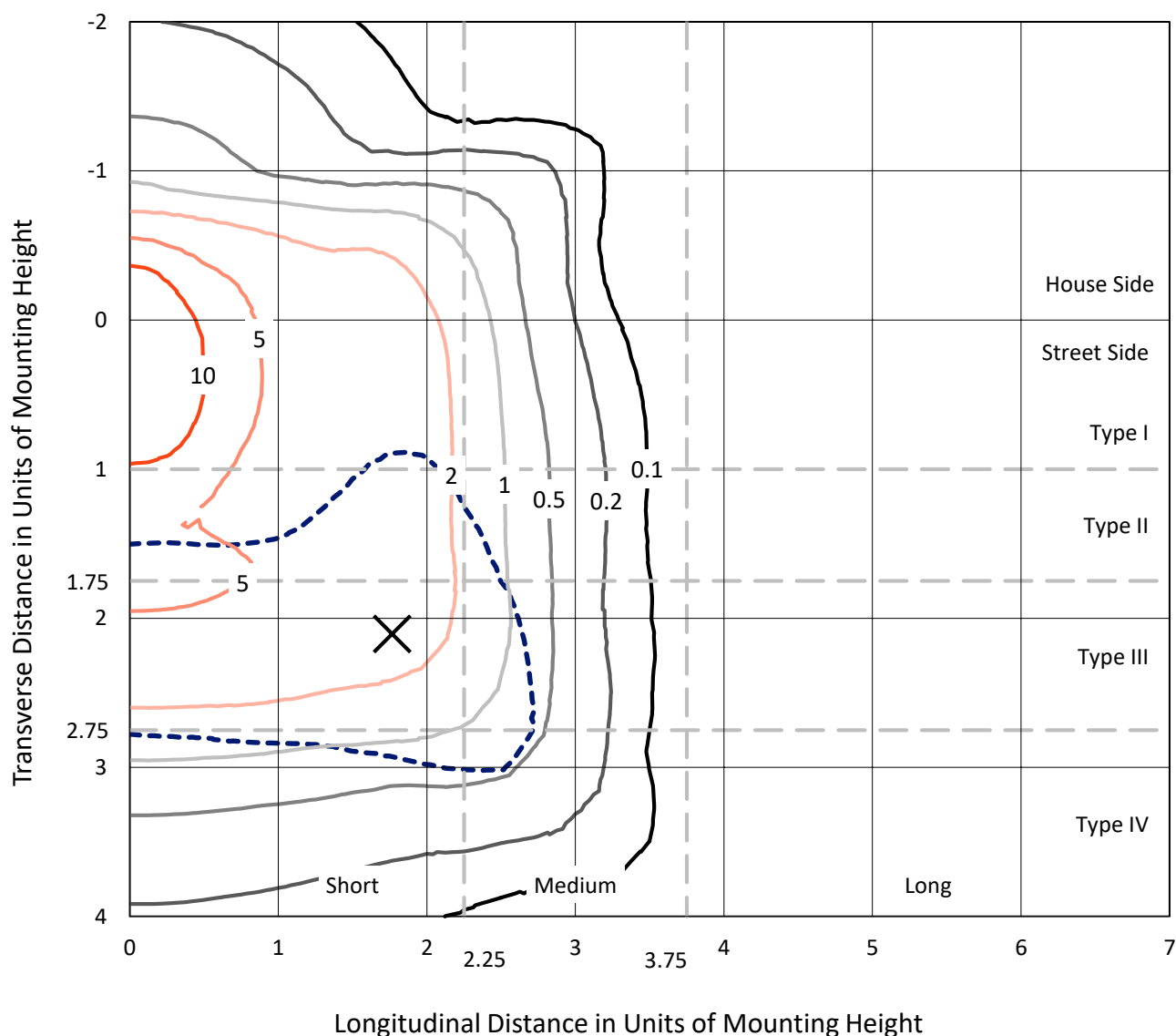


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

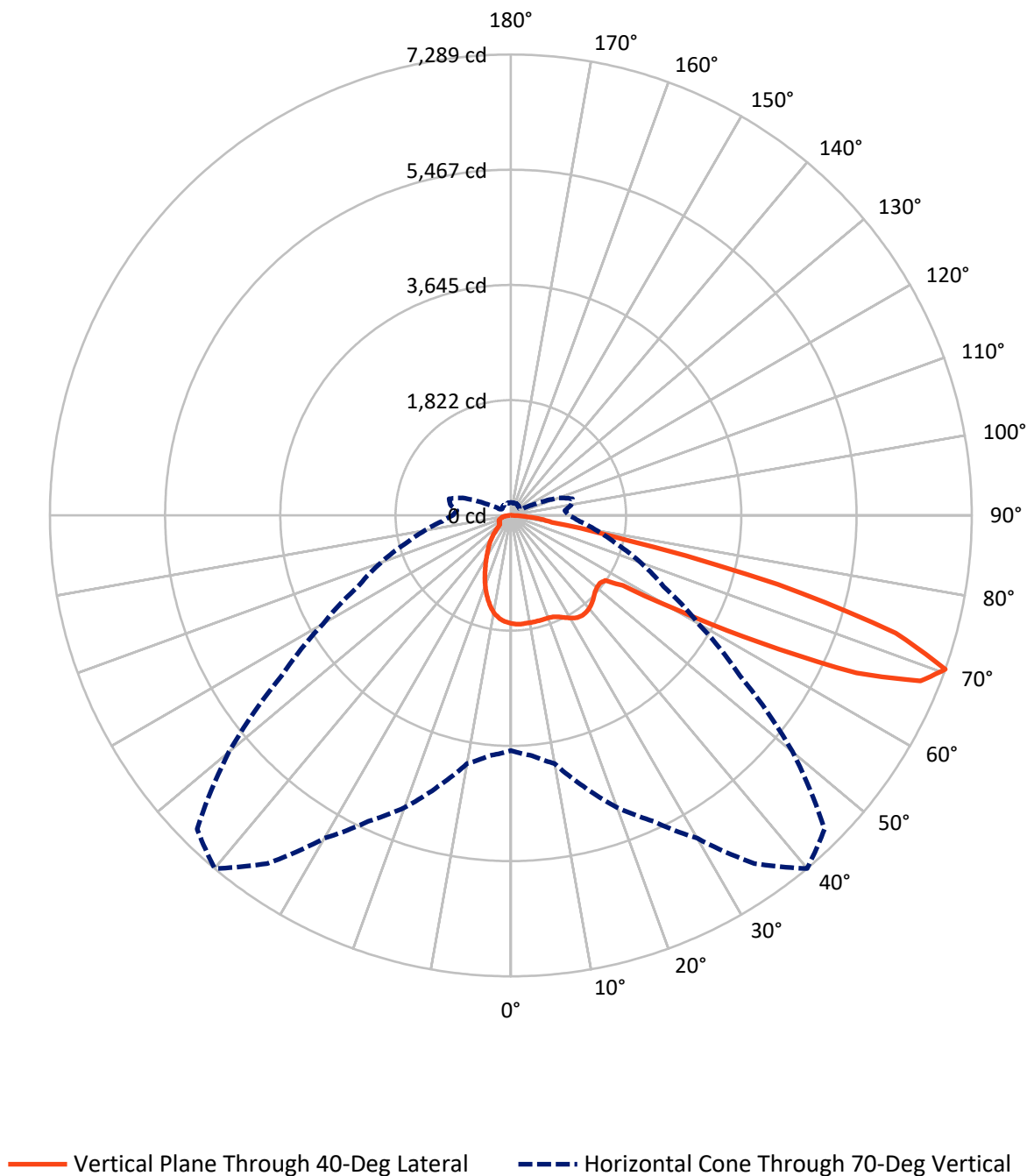


Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1664.7	0.0	1664.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6354.4	0.0	6354.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	8019.0	0.0	8019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.0
10°-20°	437.6	5.5
20°-30°	647.8	8.1
30°-40°	818.6	10.2
40°-50°	925.8	11.5
50°-60°	1317.5	16.4
60°-70°	2453.7	30.6
70°-80°	1124.6	14.0
80°-90°	133.5	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°	8019.0	100.0
0°-180°	8019.0	100.0

Coefficient of Utilization



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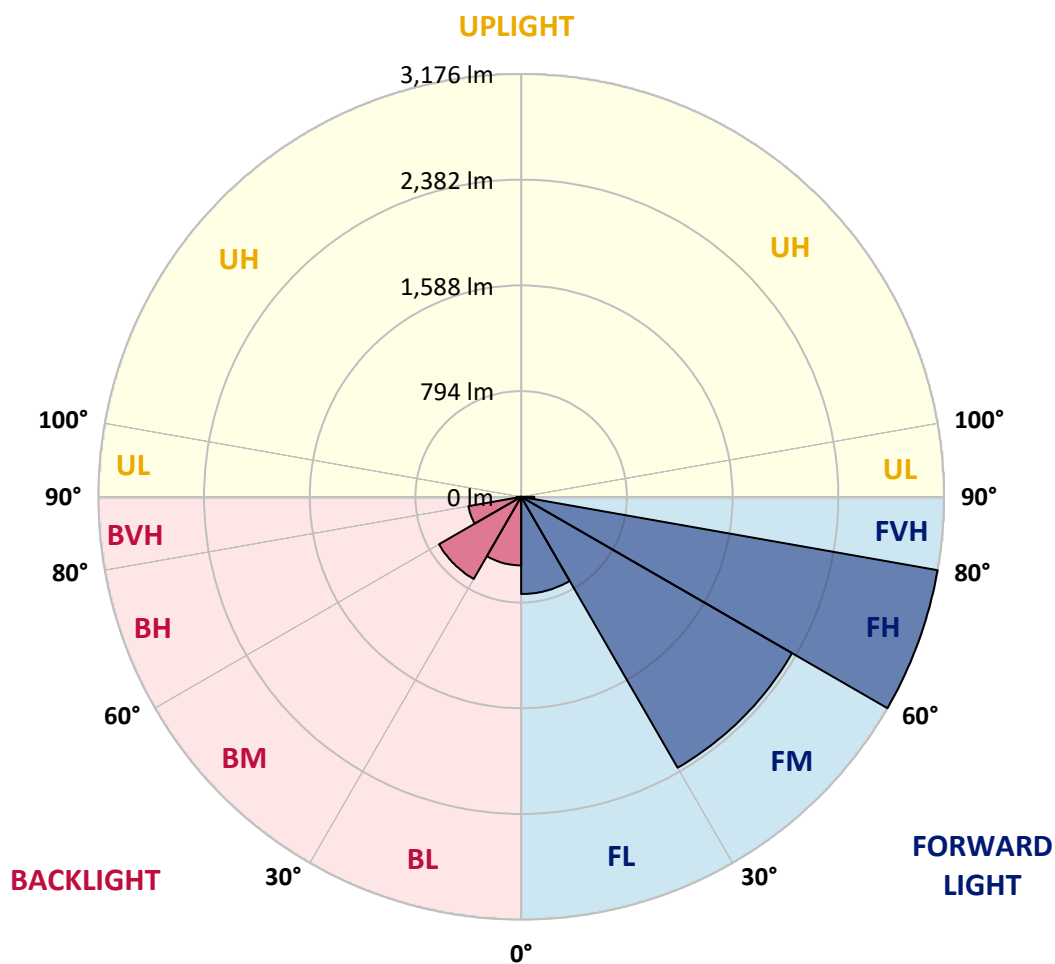
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.2	9.1			
FM	(30°-60°)	2349.3	29.3			
FH	(60°-80°)	3175.8	39.6			G2/5000
FVH	(80°-90°)	99.0	1.2			G1/100
BL	(0°-30°)	515.1	6.4	B2/1000		
BM	(30°-60°)	712.7	8.9	B1/1000		
BH	(60°-80°)	402.4	5.0	B1/500		G1/500
BVH	(80°-90°)	34.5	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°	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1737.3	1741.8	1736.4	1735.5	1735.5	1734.6	1729.2	1728.2	1721.0	1721.9	1723.7
5°	1750.0	1751.8	1748.2	1747.2	1745.4	1741.8	1737.3	1731.9	1726.4	1721.0	1716.5
7.5°	1762.6	1760.8	1758.1	1758.1	1755.4	1750.0	1740.9	1733.7	1721.9	1715.6	1707.4
10°	1780.7	1778.0	1774.4	1772.6	1768.1	1759.9	1747.2	1737.3	1722.8	1710.2	1696.6
12.5°	1797.9	1797.0	1791.6	1788.9	1781.6	1773.5	1758.1	1742.7	1723.7	1703.8	1685.7
15°	1828.7	1825.1	1819.6	1814.2	1802.4	1791.6	1768.1	1750.0	1722.8	1696.6	1668.5
17.5°	1882.1	1875.7	1870.3	1858.5	1844.1	1825.1	1790.7	1759.9	1722.8	1684.8	1653.1
20°	1979.8	1966.2	1959.0	1943.6	1918.3	1883.9	1830.5	1780.7	1725.5	1676.7	1634.1
22.5°	2090.2	2081.1	2071.2	2061.2	2021.4	1971.6	1899.3	1825.1	1741.8	1673.1	1618.8
25°	2214.1	2202.4	2197.0	2179.8	2142.7	2085.7	1987.0	1883.9	1778.9	1687.5	1618.8
27.5°	2324.5	2320.9	2320.0	2300.1	2264.8	2197.9	2081.1	1957.2	1829.6	1717.4	1632.3
30°	2425.0	2421.4	2419.5	2408.7	2368.0	2288.3	2161.7	2022.3	1884.8	1759.0	1657.7
32.5°	2531.7	2520.0	2514.6	2493.7	2447.6	2354.4	2209.6	2064.8	1928.2	1799.7	1685.7
35°	2618.6	2608.7	2597.8	2567.9	2502.8	2392.4	2230.4	2079.3	1945.4	1822.4	1700.2
37.5°	2681.9	2672.0	2656.6	2618.6	2538.1	2405.1	2229.5	2074.8	1939.1	1818.7	1702.9
40°	2710.0	2700.0	2683.8	2635.8	2544.4	2397.8	2212.3	2054.0	1920.1	1799.7	1692.1
42.5°	2699.1	2691.9	2671.1	2624.9	2524.5	2365.3	2178.0	2015.1	1883.9	1769.0	1667.6
45°	2657.5	2652.1	2632.2	2583.3	2479.3	2312.8	2127.3	1966.2	1840.4	1731.0	1635.0
47.5°	2595.1	2593.3	2573.4	2525.4	2422.3	2260.3	2074.8	1918.3	1797.0	1693.9	1607.9
50°	2526.3	2517.3	2507.3	2463.0	2368.9	2215.1	2036.8	1888.4	1772.6	1680.3	1596.1
52.5°	2482.9	2480.2	2471.1	2431.3	2340.8	2188.8	2019.6	1877.5	1770.8	1677.6	1589.8
55°	2868.3	2874.7	2791.4	2618.6	2466.6	2261.2	2071.2	1932.7	1815.1	1721.0	1656.8
57.5°	4242.8	4214.8	4071.8	3728.9	3341.6	2830.3	2462.1	2238.6	2092.9	2109.2	2141.8
60°	4943.1	4937.7	4911.5	4778.5	4520.6	4131.5	3699.9	3204.9	3047.5	3064.7	3077.4
62.5°	5256.2	5264.4	5284.3	5234.5	5166.6	5053.5	4838.2	4639.1	4428.3	4349.6	4138.7
65°	5401.0	5415.5	5460.7	5488.8	5515.0	5534.9	5620.0	5853.4	6007.2	5719.5	5049.9
67.5°	5101.5	5171.2	5320.5	5466.1	5596.4	5781.9	6069.7	6611.7	6989.0	6635.2	5664.3
70°	3718.9	3813.9	3984.9	4435.5	4916.9	5337.7	5895.0	6720.3	7289.4	7016.1	5816.3
72.5°	2331.8	2358.0	2434.0	2599.6	2957.0	3497.2	4471.7	5709.5	6366.5	6148.4	4916.0
75°	1479.4	1488.5	1485.7	1523.8	1584.4	1702.0	2087.5	3372.3	4361.3	4021.1	2739.9
77.5°	881.3	894.9	900.3	912.1	941.0	982.7	1014.3	1147.3	1828.7	1775.3	994.4
80°	738.4	749.2	740.2	737.4	719.3	706.7	722.1	706.7	656.0	631.6	581.8
82.5°	390.9	390.0	387.3	413.5	466.9	508.5	540.2	533.0	482.3	410.8	348.4
85°	214.4	221.7	221.7	230.7	222.6	223.5	230.7	243.4	225.3	188.2	153.8
87.5°	18.1	28.1	22.6	28.1	38.0	27.1	26.2	26.2	22.6	16.3	14.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1719.2	1717.4	1713.8	1711.1	1711.1	1706.5	1703.8	1702.0	1701.1	1697.5	1697.5
5°	1713.8	1707.4	1701.1	1696.6	1693.9	1689.3	1682.1	1678.5	1674.0	1670.3	1668.5
7.5°	1702.0	1690.2	1680.3	1673.1	1664.0	1656.8	1647.7	1639.6	1631.4	1627.8	1626.0
10°	1683.9	1668.5	1653.1	1639.6	1626.9	1614.2	1602.5	1590.7	1580.8	1573.5	1566.3
12.5°	1666.7	1643.2	1623.3	1603.4	1583.5	1568.1	1551.8	1534.6	1520.1	1506.6	1502.9
15°	1643.2	1616.0	1590.7	1566.3	1541.8	1516.5	1496.6	1477.6	1454.1	1438.7	1426.9
17.5°	1621.5	1588.9	1558.1	1529.2	1499.3	1473.1	1443.2	1417.9	1394.4	1370.8	1353.6
20°	1597.9	1562.7	1530.1	1497.5	1464.9	1431.5	1397.1	1364.5	1335.5	1307.5	1279.4
22.5°	1577.1	1540.9	1509.3	1474.0	1437.8	1399.8	1360.0	1319.3	1285.8	1249.6	1217.0
25°	1564.5	1524.7	1492.1	1457.7	1417.9	1376.3	1331.0	1283.1	1242.3	1200.7	1161.8
27.5°	1564.5	1512.9	1479.4	1445.0	1404.3	1360.0	1310.2	1257.7	1211.6	1165.4	1117.5
30°	1578.0	1514.7	1469.5	1433.3	1391.6	1343.7	1288.5	1233.3	1182.6	1128.3	1082.2
32.5°	1590.7	1518.3	1462.2	1416.1	1368.1	1321.1	1265.0	1206.2	1150.1	1098.5	1049.6
35°	1598.9	1518.3	1448.7	1389.8	1335.5	1289.4	1234.2	1175.4	1118.4	1067.7	1022.5
37.5°	1599.8	1511.1	1426.9	1360.0	1303.0	1255.0	1202.5	1147.3	1093.0	1046.0	1008.0
40°	1590.7	1496.6	1405.2	1328.3	1268.6	1219.7	1171.8	1122.0	1073.1	1034.2	1001.7
42.5°	1574.4	1481.2	1384.4	1303.0	1240.5	1189.9	1145.5	1103.0	1060.5	1027.0	999.8
45°	1550.0	1460.4	1365.4	1287.6	1226.1	1172.7	1129.2	1094.0	1057.8	1029.7	1002.6
47.5°	1528.3	1453.2	1371.7	1297.5	1233.3	1178.1	1133.8	1103.9	1075.9	1056.9	1019.8
50°	1523.8	1449.6	1374.5	1305.7	1240.5	1184.4	1145.5	1130.1	1122.0	1110.2	1053.2
52.5°	1511.1	1448.7	1394.4	1356.4	1314.7	1288.5	1247.8	1262.3	1253.2	1211.6	1108.4
55°	1644.1	1662.2	1712.9	1785.3	1852.2	1867.6	1863.1	1845.9	1754.5	1509.3	1241.4
57.5°	2260.3	2362.5	2458.5	2501.0	2495.6	2447.6	2413.2	2343.5	2211.4	1912.8	1503.8
60°	3116.3	3132.6	3081.9	3006.8	2880.1	2774.2	2661.1	2530.8	2339.0	2046.8	1664.9
62.5°	3904.4	3685.4	3460.1	3248.4	3055.6	2887.3	2729.9	2548.0	2298.3	1993.4	1644.1
65°	4460.9	3997.6	3642.0	3338.0	3065.6	2830.3	2634.0	2397.8	2116.4	1841.4	1523.8
67.5°	4747.7	4037.4	3491.8	3068.3	2681.9	2356.2	2094.7	1864.9	1655.9	1535.5	1333.7
70°	4427.4	3426.6	2666.6	2187.9	1725.5	1383.5	1093.0	917.5	856.9	970.9	1009.8
72.5°	3299.1	2230.4	1586.2	1227.0	940.1	749.2	574.6	451.5	367.4	385.5	500.4
75°	1559.9	962.8	680.4	517.6	411.7	341.1	278.7	255.2	213.5	177.3	166.5
77.5°	607.1	442.5	365.6	267.8	190.0	152.9	130.3	125.8	128.5	124.9	123.1
80°	462.4	313.1	196.4	143.9	124.0	109.5	96.8	93.2	95.0	99.5	104.1
82.5°	257.9	161.1	119.4	104.1	93.2	79.6	72.4	67.0	67.9	73.3	83.2
85°	99.5	77.8	71.5	68.8	64.2	51.6	44.3	45.2	51.6	61.5	61.5
87.5°	10.9	10.9	14.5	10.9	10.9	10.9	10.0	11.8	12.7	16.3	19.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1695.7	1695.7	1695.7	1693.9	1694.8	1691.1	1691.1	1688.4	1693.0	1690.2	1689.3
5°	1669.4	1668.5	1664.9	1664.9	1664.9	1664.9	1667.6	1660.4	1665.8	1665.8	1663.1
7.5°	1625.1	1625.1	1615.1	1620.6	1618.8	1621.5	1625.1	1621.5	1626.9	1630.5	1627.8
10°	1563.6	1563.6	1555.4	1561.8	1559.0	1565.4	1571.7	1568.1	1571.7	1577.1	1578.9
12.5°	1495.7	1492.1	1484.8	1487.6	1487.6	1491.2	1493.9	1498.4	1502.9	1510.2	1513.8
15°	1417.0	1411.6	1402.5	1402.5	1397.1	1398.9	1404.3	1406.1	1415.2	1425.1	1436.9
17.5°	1336.5	1322.9	1312.9	1301.2	1292.1	1299.4	1305.7	1310.2	1317.4	1332.8	1341.0
20°	1260.4	1233.3	1214.3	1198.9	1189.0	1193.5	1201.6	1207.1	1213.4	1217.0	1219.7
22.5°	1185.3	1154.6	1128.3	1109.3	1093.0	1097.6	1094.0	1091.2	1095.8	1084.0	1083.1
25°	1120.2	1084.0	1048.7	1026.1	1006.2	999.8	980.8	976.3	963.7	953.7	946.5
27.5°	1073.1	1026.1	987.2	960.9	929.3	905.7	881.3	856.9	843.3	827.0	818.9
30°	1036.0	986.3	940.1	895.8	854.2	818.0	785.4	753.7	732.0	708.5	693.1
32.5°	1001.7	955.5	899.4	838.8	782.7	742.0	699.4	663.2	628.9	598.1	575.5
35°	978.1	926.6	855.1	780.9	717.5	669.6	624.3	572.8	531.1	491.3	466.9
37.5°	965.5	902.1	814.4	732.0	661.4	607.1	551.0	491.3	440.7	403.6	366.5
40°	955.5	877.7	778.2	688.6	614.4	549.2	484.1	413.5	357.4	318.5	289.5
42.5°	944.7	850.6	746.5	654.2	571.9	495.9	417.1	342.0	288.6	261.5	248.8
45°	932.9	827.0	716.6	621.6	530.2	437.9	347.5	277.8	246.1	237.1	237.1
47.5°	930.2	811.6	694.9	590.0	483.2	371.0	283.2	239.8	230.7	232.5	236.2
50°	941.0	807.1	675.9	552.9	420.8	300.4	239.8	225.3	227.1	232.5	238.0
52.5°	967.3	810.7	656.0	501.3	346.6	247.9	221.7	220.8	226.2	234.4	239.8
55°	1011.6	810.7	618.0	424.4	276.9	222.6	215.4	219.0	226.2	233.4	238.0
57.5°	1106.6	802.6	551.0	339.3	231.6	213.5	213.5	218.1	224.4	231.6	235.3
60°	1219.7	791.7	456.9	262.4	209.0	206.3	212.6	218.1	223.5	229.8	233.4
62.5°	1227.0	763.7	361.9	217.2	197.3	201.8	211.7	219.0	220.8	225.3	229.8
65°	1127.4	666.0	287.7	194.5	191.8	199.1	209.0	214.4	215.4	217.2	221.7
67.5°	987.2	542.9	232.5	183.7	186.4	194.5	200.0	204.5	207.2	211.7	212.6
70°	810.7	436.1	199.1	172.8	175.5	184.6	189.1	193.6	199.1	204.5	201.8
72.5°	574.6	339.3	174.6	161.1	164.7	172.8	178.3	181.9	186.4	191.8	188.2
75°	244.3	237.1	151.1	145.7	151.1	156.5	162.0	167.4	171.9	174.6	174.6
77.5°	124.9	139.3	130.3	130.3	133.9	139.3	143.9	149.3	152.0	154.7	158.3
80°	105.9	107.7	109.5	113.1	116.7	122.2	126.7	131.2	132.1	133.0	134.8
82.5°	87.8	91.4	93.2	98.6	101.3	103.2	105.9	105.9	107.7	107.7	105.0
85°	63.3	67.9	70.6	71.5	70.6	71.5	72.4	74.2	78.7	78.7	75.1
87.5°	18.1	17.2	21.7	22.6	24.4	28.1	31.7	38.0	39.8	41.6	41.6
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°	1711.1	1711.1	1711.1	1711.1
2.5°	1688.4	1690.2	1686.6	1687.5
5°	1663.1	1666.7	1662.2	1667.6
7.5°	1630.5	1636.0	1635.0	1634.1
10°	1583.5	1590.7	1590.7	1593.4
12.5°	1523.8	1528.3	1531.9	1533.7
15°	1443.2	1451.4	1455.9	1455.9
17.5°	1346.4	1351.8	1354.5	1350.9
20°	1223.3	1221.5	1222.4	1213.4
22.5°	1081.3	1084.0	1075.9	1077.7
25°	941.9	937.4	941.0	935.6
27.5°	807.1	808.0	798.1	802.6
30°	678.6	674.1	661.4	667.8
32.5°	554.7	542.9	529.3	521.2
35°	437.9	419.8	413.5	410.8
37.5°	343.8	323.9	317.6	310.4
40°	273.3	266.0	263.3	265.1
42.5°	245.2	245.2	247.0	247.9
45°	238.0	240.7	243.4	244.3
47.5°	238.9	241.6	245.2	246.1
50°	240.7	243.4	246.1	247.0
52.5°	241.6	241.6	243.4	244.3
55°	239.8	238.9	239.8	240.7
57.5°	236.2	234.4	235.3	238.0
60°	234.4	231.6	233.4	235.3
62.5°	229.8	228.9	230.7	231.6
65°	219.9	220.8	223.5	223.5
67.5°	210.8	211.7	212.6	213.5
70°	200.0	200.9	202.7	203.6
72.5°	187.3	190.9	193.6	197.3
75°	177.3	181.0	186.4	190.0
77.5°	160.2	162.9	169.2	173.7
80°	135.7	134.8	135.7	138.4
82.5°	104.1	104.1	103.2	102.2
85°	73.3	72.4	69.7	69.7
87.5°	39.8	38.9	38.0	36.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)