

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: P180892

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180892  
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: ICM-F04-LED-E1-SL4-7030  
Description: ICON SITE MEDIUM 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: 8288 lumens  
Efficiency: N/A  
Efficacy: 81.1 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

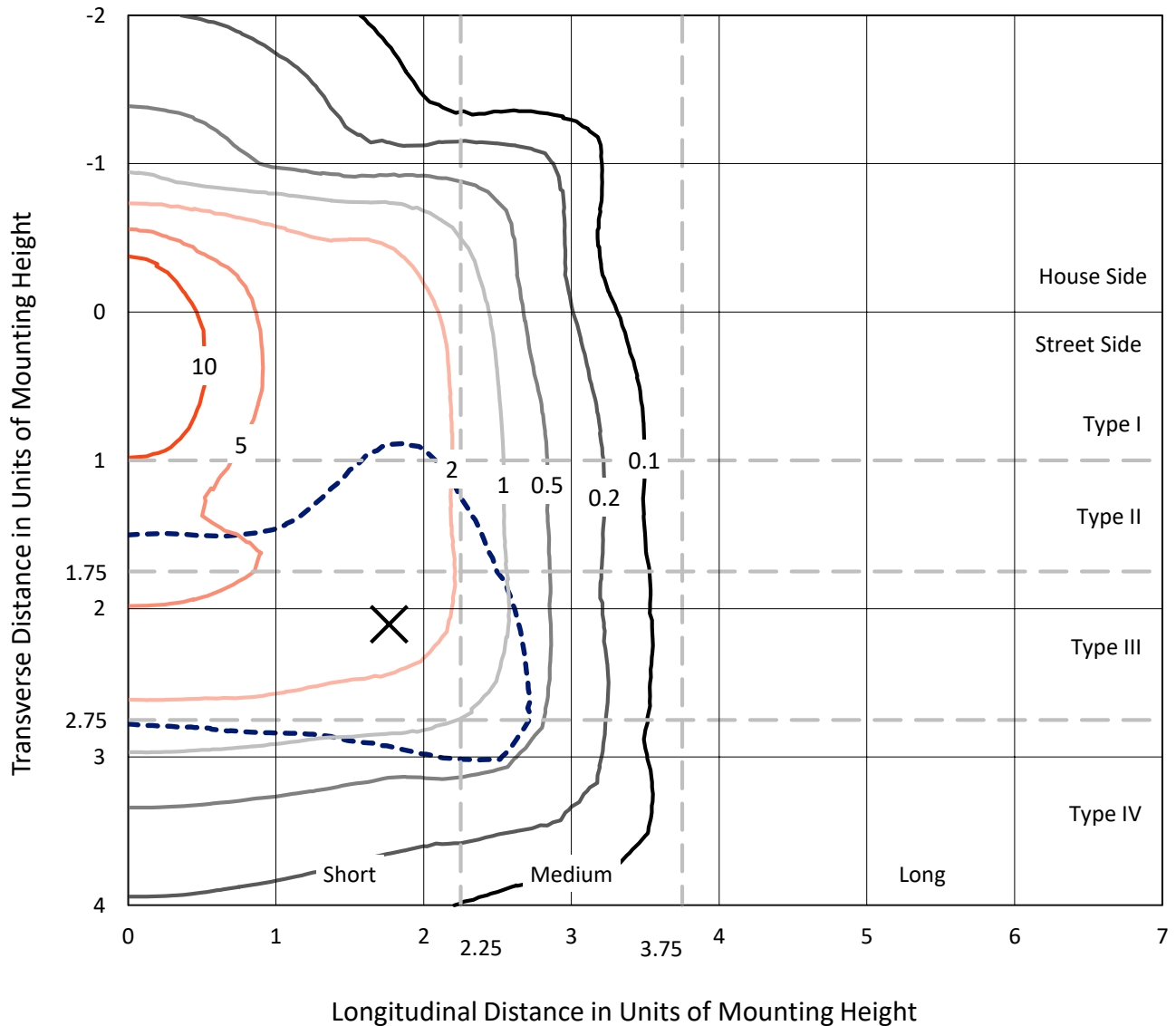


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### Iso-Footcandle Lines of Horizontal Illumination

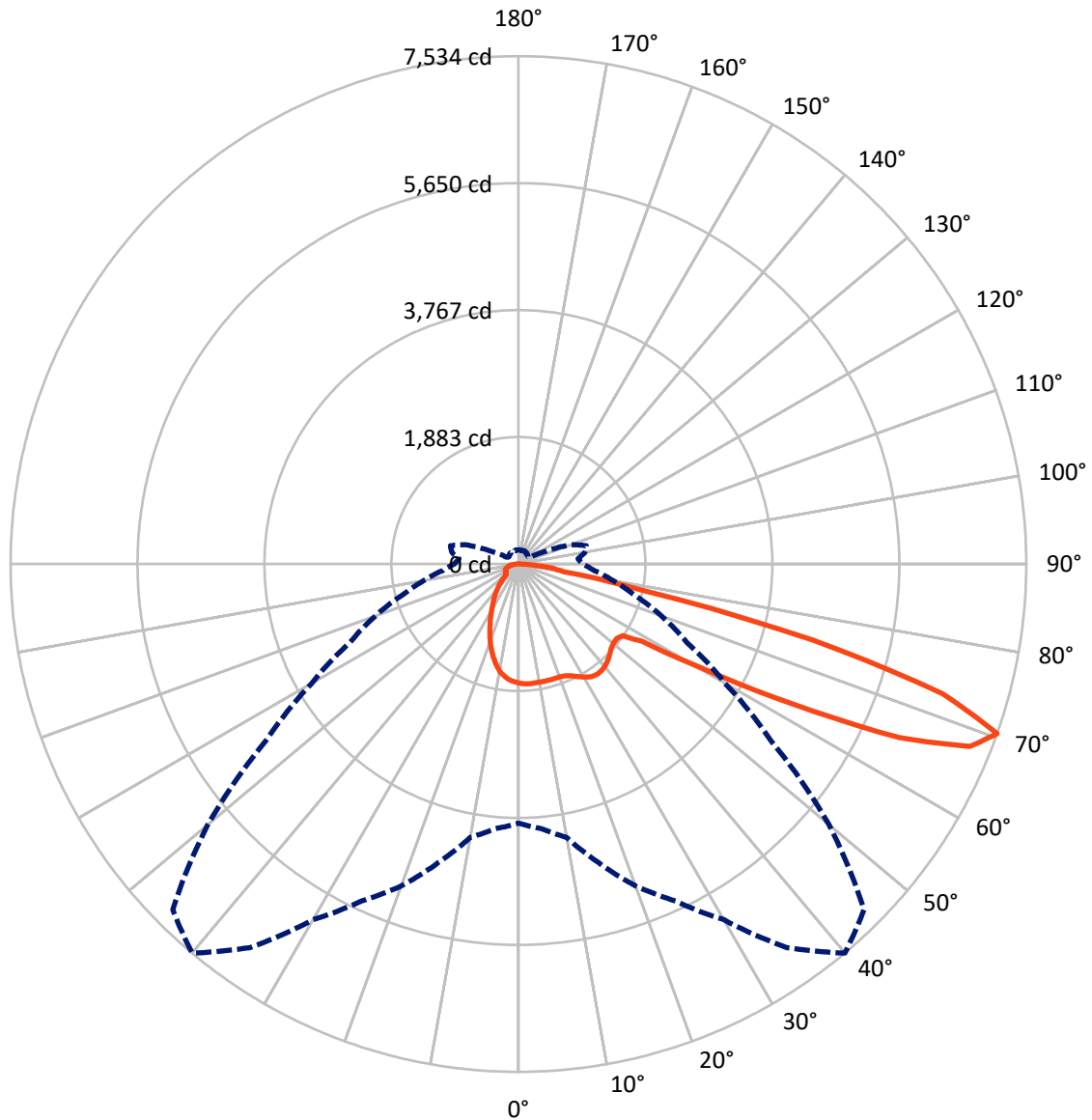
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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	1720.5	0.0	1720.5
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6567.5	0.0	6567.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8288.0	0.0	8288.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	2.0
10°-20°	452.3	5.5
20°-30°	669.5	8.1
30°-40°	846.1	10.2
40°-50°	956.9	11.5
50°-60°	1361.7	16.4
60°-70°	2536.0	30.6
70°-80°	1162.3	14.0
80°-90°	138.0	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°	8288.0	100.0
0°-180°	8288.0	100.0

**Coefficient of Utilization**



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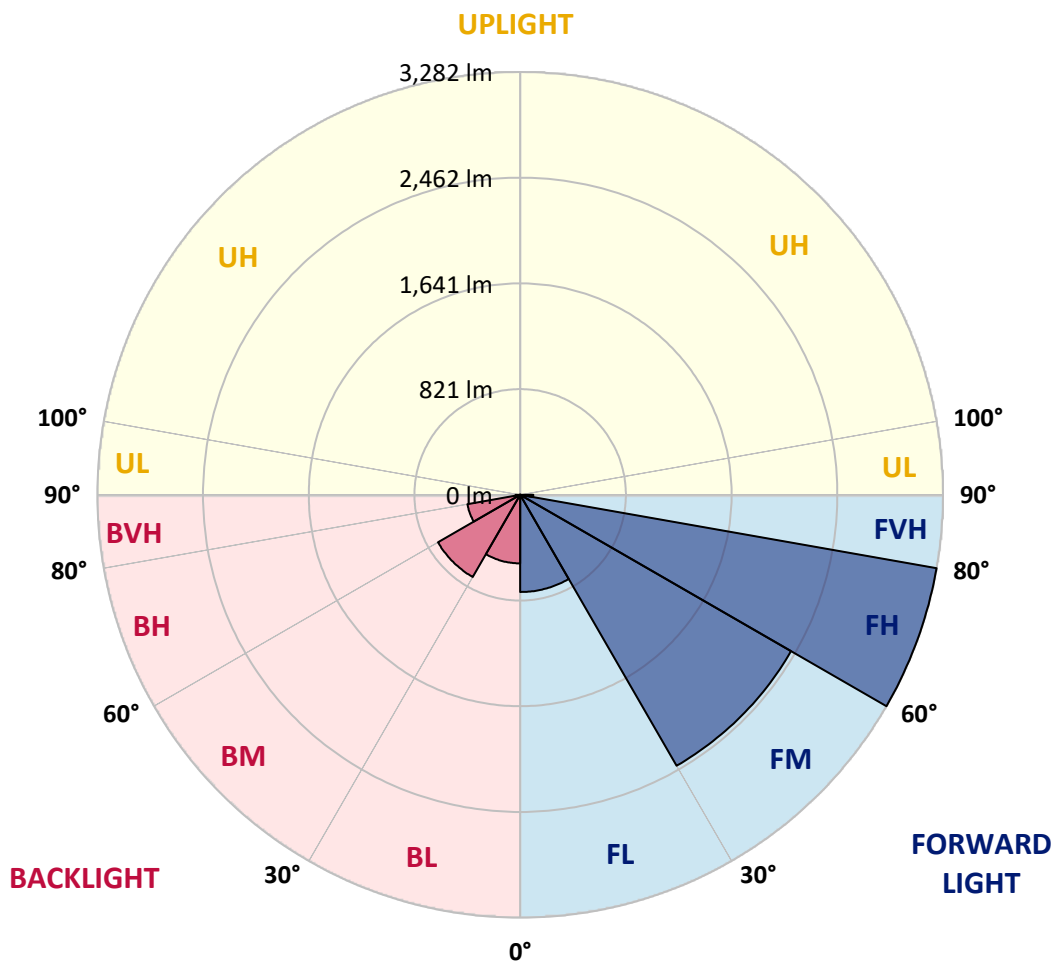
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.7	9.1			
FM	(30°-60°)	2428.1	29.3			
FH	(60°-80°)	3282.4	39.6			G2/5000
FVH	(80°-90°)	102.3	1.2			G2/225
BL	(0°-30°)	532.3	6.4	B2/1000		
BM	(30°-60°)	736.6	8.9	B1/1000		
BH	(60°-80°)	415.9	5.0	B1/500		G1/500
BVH	(80°-90°)	35.6	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°	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5
2.5°	1795.5	1800.2	1794.6	1793.7	1793.7	1792.8	1787.2	1786.2	1778.7	1779.6	1781.5
5°	1808.7	1810.5	1806.8	1805.9	1804.0	1800.2	1795.5	1790.0	1784.4	1778.7	1774.1
7.5°	1821.8	1819.9	1817.0	1817.0	1814.2	1808.7	1799.3	1791.8	1779.6	1773.1	1764.7
10°	1840.5	1837.7	1833.9	1832.0	1827.4	1819.0	1805.9	1795.5	1780.6	1767.5	1753.5
12.5°	1858.2	1857.3	1851.6	1848.8	1841.4	1832.9	1817.0	1801.2	1781.5	1760.9	1742.2
15°	1890.1	1886.2	1880.7	1875.1	1862.9	1851.6	1827.4	1808.7	1780.6	1753.5	1724.5
17.5°	1945.2	1938.6	1933.0	1920.8	1906.0	1886.2	1850.7	1819.0	1780.6	1741.3	1708.6
20°	2046.2	2032.2	2024.7	2008.8	1982.6	1947.1	1891.9	1840.5	1783.5	1732.9	1688.9
22.5°	2160.3	2150.9	2140.7	2130.3	2089.2	2037.8	1963.0	1886.2	1800.2	1729.1	1673.0
25°	2288.4	2276.3	2270.6	2252.9	2214.5	2155.6	2053.7	1947.1	1838.6	1744.1	1673.0
27.5°	2402.5	2398.8	2397.9	2377.2	2340.8	2271.5	2150.9	2022.8	1891.0	1775.0	1687.1
30°	2506.3	2502.5	2500.7	2489.5	2447.4	2365.1	2234.2	2090.2	1948.0	1818.1	1713.3
32.5°	2616.7	2604.5	2598.9	2577.4	2529.7	2433.4	2283.7	2134.2	1992.8	1860.1	1742.2
35°	2706.4	2696.2	2684.9	2654.1	2586.7	2472.7	2305.2	2149.0	2010.6	1883.5	1757.2
37.5°	2771.9	2761.6	2745.7	2706.4	2623.2	2485.8	2304.3	2144.4	2004.1	1879.7	1760.0
40°	2800.9	2790.6	2773.8	2724.2	2629.8	2478.2	2286.5	2122.9	1984.5	1860.1	1748.8
42.5°	2789.7	2782.2	2760.7	2712.9	2609.2	2444.6	2251.0	2082.7	1947.1	1828.3	1723.5
45°	2746.6	2741.0	2720.5	2670.0	2562.4	2390.3	2198.6	2032.2	1902.2	1789.0	1689.9
47.5°	2682.2	2680.3	2659.6	2610.2	2503.6	2336.1	2144.4	1982.6	1857.3	1750.7	1661.9
50°	2611.1	2601.7	2591.5	2545.6	2448.3	2289.3	2105.1	1951.7	1832.0	1736.7	1649.7
52.5°	2566.2	2563.4	2554.0	2512.9	2419.4	2262.2	2087.4	1940.5	1830.2	1733.9	1643.2
55°	2964.6	2971.1	2885.0	2706.4	2549.3	2337.0	2140.7	1997.6	1876.0	1778.7	1712.3
57.5°	4385.1	4356.1	4208.4	3853.9	3453.7	2925.3	2544.7	2313.7	2163.1	2179.9	2213.6
60°	5109.0	5103.4	5076.2	4938.7	4672.2	4270.1	3824.0	3312.5	3149.7	3167.5	3180.6
62.5°	5432.5	5441.0	5461.5	5410.1	5339.9	5223.0	5000.5	4794.7	4576.9	4495.5	4277.6
65°	5582.2	5597.2	5643.8	5672.9	5700.0	5720.6	5808.5	6049.7	6208.8	5911.4	5219.3
67.5°	5272.6	5344.6	5498.9	5649.5	5784.1	5975.9	6273.2	6833.4	7223.4	6857.7	5854.3
70°	3843.7	3941.8	4118.5	4584.3	5081.8	5516.7	6092.8	6945.6	7533.9	7251.5	6011.4
72.5°	2410.0	2437.1	2515.6	2686.8	3056.2	3614.5	4621.7	5901.1	6580.0	6354.6	5080.9
75°	1529.0	1538.4	1535.5	1574.9	1637.5	1759.1	2157.5	3485.4	4507.7	4156.0	2831.7
77.5°	910.9	924.9	930.5	942.7	972.6	1015.6	1048.4	1185.9	1890.1	1834.8	1027.8
80°	763.1	774.3	765.0	762.1	743.4	730.4	746.2	730.4	678.1	652.7	601.3
82.5°	404.0	403.1	400.3	427.4	482.5	525.6	558.3	550.8	498.4	424.6	360.0
85°	221.7	229.1	229.1	238.5	230.0	231.0	238.5	251.5	232.8	194.5	159.0
87.5°	18.7	29.0	23.3	29.0	39.3	28.1	27.2	27.2	23.3	16.8	15.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5
2.5°	1776.8	1775.0	1771.3	1768.5	1768.5	1763.7	1760.9	1759.1	1758.2	1754.4	1754.4
5°	1771.3	1764.7	1758.2	1753.5	1750.7	1746.0	1738.5	1734.8	1730.2	1726.3	1724.5
7.5°	1759.1	1746.9	1736.7	1729.1	1719.8	1712.3	1703.0	1694.5	1686.1	1682.4	1680.6
10°	1740.4	1724.5	1708.6	1694.5	1681.5	1668.4	1656.2	1644.1	1633.8	1626.3	1618.8
12.5°	1722.6	1698.3	1677.8	1657.1	1636.6	1620.7	1603.8	1586.1	1571.1	1557.1	1553.3
15°	1698.3	1670.2	1644.1	1618.8	1593.6	1567.4	1546.8	1527.2	1502.9	1487.0	1474.8
17.5°	1675.8	1642.2	1610.4	1580.5	1549.6	1522.5	1491.6	1465.4	1441.1	1416.8	1399.1
20°	1651.5	1615.1	1581.4	1547.7	1514.1	1479.5	1443.9	1410.2	1380.4	1351.4	1322.3
22.5°	1630.1	1592.7	1559.9	1523.5	1486.1	1446.7	1405.6	1363.5	1328.9	1291.5	1257.9
25°	1616.9	1575.8	1542.1	1506.6	1465.4	1422.4	1375.6	1326.1	1284.0	1241.0	1200.8
27.5°	1616.9	1563.6	1529.0	1493.5	1451.5	1405.6	1354.1	1299.9	1252.2	1204.6	1155.0
30°	1631.0	1565.5	1518.7	1481.3	1438.3	1388.8	1331.7	1274.7	1222.3	1166.1	1118.5
32.5°	1644.1	1569.2	1511.3	1463.5	1414.1	1365.4	1307.4	1246.6	1188.7	1135.4	1084.8
35°	1652.5	1569.2	1497.2	1436.5	1380.4	1332.7	1275.6	1214.8	1155.9	1103.5	1056.8
37.5°	1653.4	1561.8	1474.8	1405.6	1346.7	1297.1	1242.9	1185.9	1129.7	1081.1	1041.8
40°	1644.1	1546.8	1452.4	1372.8	1311.2	1260.7	1211.1	1159.6	1109.1	1068.9	1035.3
42.5°	1627.3	1530.9	1430.8	1346.7	1282.1	1229.8	1183.9	1140.0	1096.0	1061.4	1033.4
45°	1602.0	1509.4	1411.2	1330.8	1267.2	1212.0	1167.1	1130.6	1093.2	1064.3	1036.2
47.5°	1579.5	1502.0	1417.8	1341.0	1274.7	1217.6	1171.8	1140.9	1111.9	1092.3	1054.0
50°	1574.9	1498.1	1420.6	1349.5	1282.1	1224.2	1183.9	1168.1	1159.6	1147.4	1088.6
52.5°	1561.8	1497.2	1441.1	1401.9	1358.8	1331.7	1289.6	1304.6	1295.3	1252.2	1145.6
55°	1699.3	1718.0	1770.3	1845.1	1914.3	1930.2	1925.6	1907.8	1813.3	1559.9	1283.1
57.5°	2336.1	2441.8	2540.9	2584.9	2579.3	2529.7	2494.2	2422.2	2285.6	1977.0	1554.2
60°	3220.8	3237.6	3185.2	3107.6	2976.7	2867.3	2750.4	2615.7	2417.5	2115.4	1720.8
62.5°	4035.4	3809.0	3576.2	3357.3	3158.2	2984.2	2821.5	2633.5	2375.4	2060.2	1699.3
65°	4610.5	4131.7	3764.1	3449.9	3168.4	2925.3	2722.3	2478.2	2187.5	1903.1	1574.9
67.5°	4906.9	4172.9	3608.9	3171.3	2771.9	2435.3	2164.9	1927.5	1711.4	1587.0	1378.4
70°	4575.9	3541.6	2756.0	2261.3	1783.5	1429.9	1129.7	948.3	885.6	1003.4	1043.6
72.5°	3409.7	2305.2	1639.4	1268.1	971.6	774.3	593.9	466.7	379.7	398.4	517.1
75°	1612.3	995.1	703.3	534.9	425.5	352.6	288.0	263.7	220.7	183.3	172.1
77.5°	627.5	457.3	377.9	276.8	196.4	158.0	134.7	130.0	132.8	129.0	127.2
80°	477.9	323.5	203.0	148.7	128.1	113.1	100.1	96.3	98.2	102.9	107.5
82.5°	266.5	166.4	123.4	107.5	96.3	82.3	74.8	69.2	70.1	75.7	86.0
85°	102.9	80.5	73.9	71.1	66.4	53.3	45.9	46.8	53.3	63.6	63.6
87.5°	11.3	11.3	15.0	11.3	11.3	11.3	10.3	12.2	13.1	16.8	19.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5	1768.5
2.5°	1752.6	1752.6	1752.6	1750.7	1751.6	1747.9	1747.9	1745.0	1749.8	1746.9	1746.0
5°	1725.4	1724.5	1720.8	1720.8	1720.8	1720.8	1723.5	1716.1	1721.7	1721.7	1718.9
7.5°	1679.6	1679.6	1669.3	1674.9	1673.0	1675.8	1679.6	1675.8	1681.5	1685.2	1682.4
10°	1616.0	1616.0	1607.6	1614.1	1611.4	1617.9	1624.4	1620.7	1624.4	1630.1	1631.9
12.5°	1545.9	1542.1	1534.6	1537.5	1537.5	1541.2	1544.0	1548.7	1553.3	1560.8	1564.6
15°	1464.5	1458.9	1449.6	1449.6	1443.9	1445.8	1451.5	1453.3	1462.6	1472.9	1485.1
17.5°	1381.3	1367.3	1356.9	1344.8	1335.5	1342.9	1349.5	1354.1	1361.7	1377.5	1386.0
20°	1302.7	1274.7	1255.0	1239.2	1228.8	1233.5	1242.0	1247.5	1254.1	1257.9	1260.7
22.5°	1225.1	1193.3	1166.1	1146.5	1129.7	1134.4	1130.6	1127.8	1132.5	1120.4	1119.4
25°	1157.8	1120.4	1083.9	1060.5	1039.9	1033.4	1013.8	1009.0	996.0	985.7	978.2
27.5°	1109.1	1060.5	1020.3	993.2	960.5	936.1	910.9	885.6	871.6	854.8	846.3
30°	1070.8	1019.4	971.6	925.9	882.8	845.4	811.7	779.0	756.6	732.3	716.4
32.5°	1035.3	987.5	929.6	866.9	808.9	766.9	722.9	685.5	650.0	618.1	594.8
35°	1011.0	957.7	883.7	807.1	741.6	692.0	645.3	592.0	548.9	507.8	482.5
37.5°	997.9	932.4	841.7	756.6	683.6	627.5	569.5	507.8	455.4	417.1	378.8
40°	987.5	907.2	804.3	711.7	635.0	567.6	500.3	427.4	369.4	329.2	299.3
42.5°	976.4	879.1	771.5	676.1	591.1	512.5	431.2	353.5	298.3	270.2	257.2
45°	964.2	854.8	740.7	642.5	548.0	452.7	359.1	287.1	254.3	245.0	245.0
47.5°	961.4	838.9	718.2	609.8	499.4	383.4	292.7	247.8	238.5	240.4	244.1
50°	972.6	834.1	698.6	571.4	434.9	310.5	247.8	232.8	234.7	240.4	246.0
52.5°	999.7	838.0	678.1	518.0	358.1	256.3	229.1	228.2	233.8	242.2	247.8
55°	1045.6	838.0	638.7	438.6	286.1	230.0	222.6	226.3	233.8	241.3	246.0
57.5°	1143.7	829.5	569.5	350.7	239.4	220.7	220.7	225.4	231.9	239.4	243.2
60°	1260.7	818.3	472.3	271.2	216.0	213.2	219.8	225.4	231.0	237.6	241.3
62.5°	1268.1	789.3	374.0	224.5	203.9	208.6	218.8	226.3	228.2	232.8	237.6
65°	1165.2	688.3	297.4	201.0	198.2	205.8	216.0	221.7	222.6	224.5	229.1
67.5°	1020.3	561.1	240.4	189.9	192.7	201.0	206.7	211.4	214.1	218.8	219.8
70°	838.0	450.8	205.8	178.6	181.4	190.8	195.4	200.1	205.8	211.4	208.6
72.5°	593.9	350.7	180.5	166.4	170.2	178.6	184.2	188.0	192.7	198.2	194.5
75°	252.5	245.0	156.2	150.6	156.2	161.8	167.4	173.0	177.7	180.5	180.5
77.5°	129.0	144.0	134.7	134.7	138.4	144.0	148.7	154.3	157.1	159.9	163.6
80°	109.4	111.3	113.1	116.9	120.7	126.2	130.9	135.6	136.6	137.5	139.3
82.5°	90.7	94.4	96.3	102.0	104.7	106.6	109.4	109.4	111.3	111.3	108.5
85°	65.5	70.1	72.9	73.9	72.9	73.9	74.8	76.7	81.4	81.4	77.6
87.5°	18.7	17.8	22.4	23.3	25.2	29.0	32.7	39.3	41.1	43.0	43.0
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):**

	165°	170°	175°	180°
0°	1768.5	1768.5	1768.5	1768.5
2.5°	1745.0	1746.9	1743.2	1744.1
5°	1718.9	1722.6	1718.0	1723.5
7.5°	1685.2	1690.8	1689.9	1688.9
10°	1636.6	1644.1	1644.1	1646.9
12.5°	1574.9	1579.5	1583.3	1585.1
15°	1491.6	1500.0	1504.8	1504.8
17.5°	1391.5	1397.2	1400.0	1396.2
20°	1264.4	1262.5	1263.4	1254.1
22.5°	1117.6	1120.4	1111.9	1113.8
25°	973.5	968.8	972.6	967.0
27.5°	834.1	835.2	824.8	829.5
30°	701.4	696.7	683.6	690.1
32.5°	573.3	561.1	547.1	538.7
35°	452.7	434.0	427.4	424.6
37.5°	355.4	334.8	328.3	320.7
40°	282.4	275.0	272.1	274.0
42.5°	253.4	253.4	255.4	256.3
45°	246.0	248.7	251.5	252.5
47.5°	246.9	249.7	253.4	254.3
50°	248.7	251.5	254.3	255.4
52.5°	249.7	249.7	251.5	252.5
55°	247.8	246.9	247.8	248.7
57.5°	244.1	242.2	243.2	246.0
60°	242.2	239.4	241.3	243.2
62.5°	237.6	236.6	238.5	239.4
65°	227.3	228.2	231.0	231.0
67.5°	217.9	218.8	219.8	220.7
70°	206.7	207.6	209.5	210.4
72.5°	193.6	197.3	200.1	203.9
75°	183.3	187.1	192.7	196.4
77.5°	165.5	168.4	174.9	179.5
80°	140.3	139.3	140.3	143.1
82.5°	107.5	107.5	106.6	105.7
85°	75.7	74.8	72.0	72.0
87.5°	41.1	40.2	39.3	37.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)