

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: McGRAW-EDISON

Report Number: P92768

Luminaire Tested: **LRC-B16-1-LED-E1-MST**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P92768  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (LM-63-2002)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: LRC-B16-1-LED-E1-MST  
Description: LRC CANOPY LUMINAIRE  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3840.7 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.9' x L: 0.9' x H: 0.1')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 49.9  
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

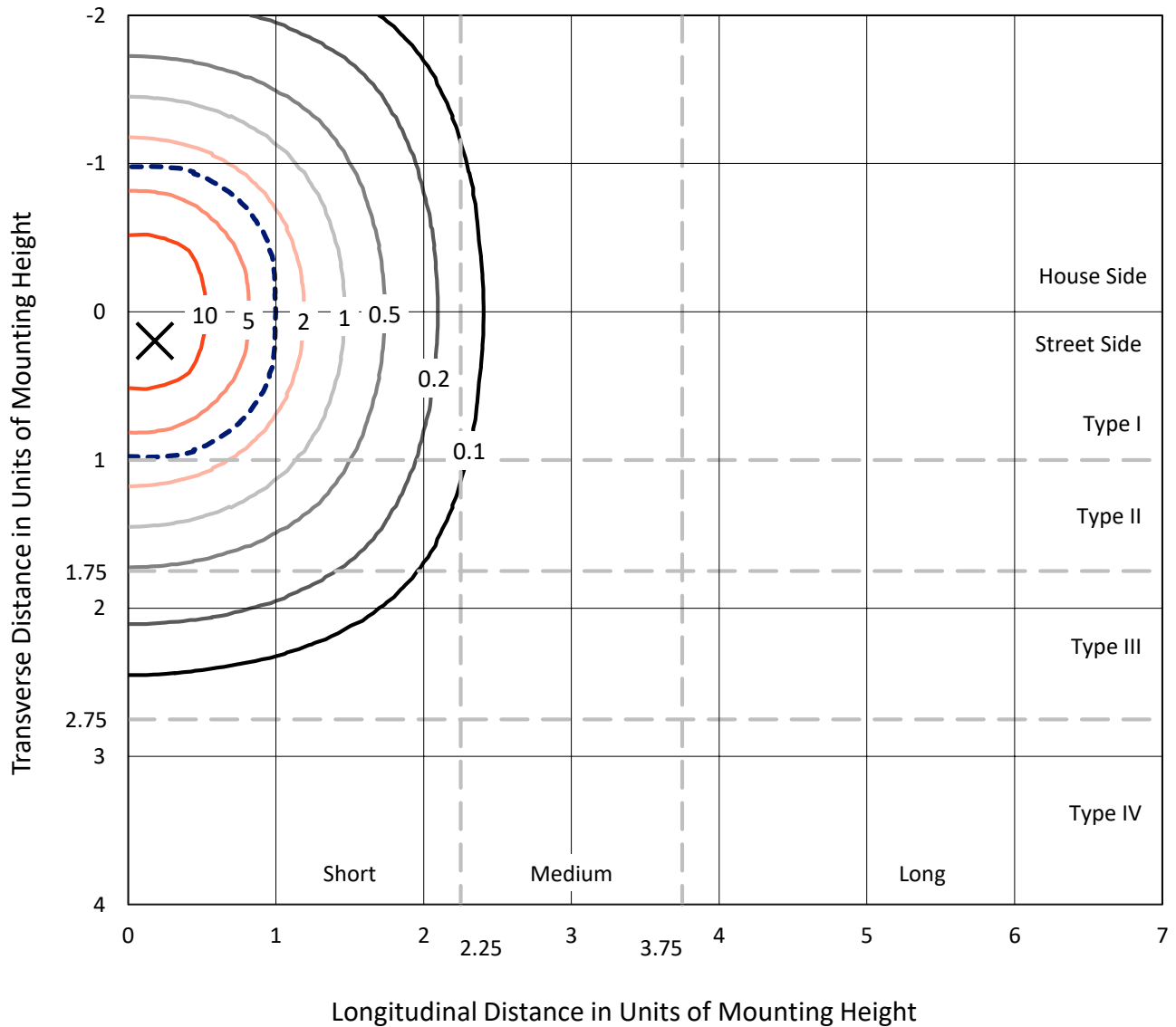


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### Iso-Footcandle Lines of Horizontal Illumination

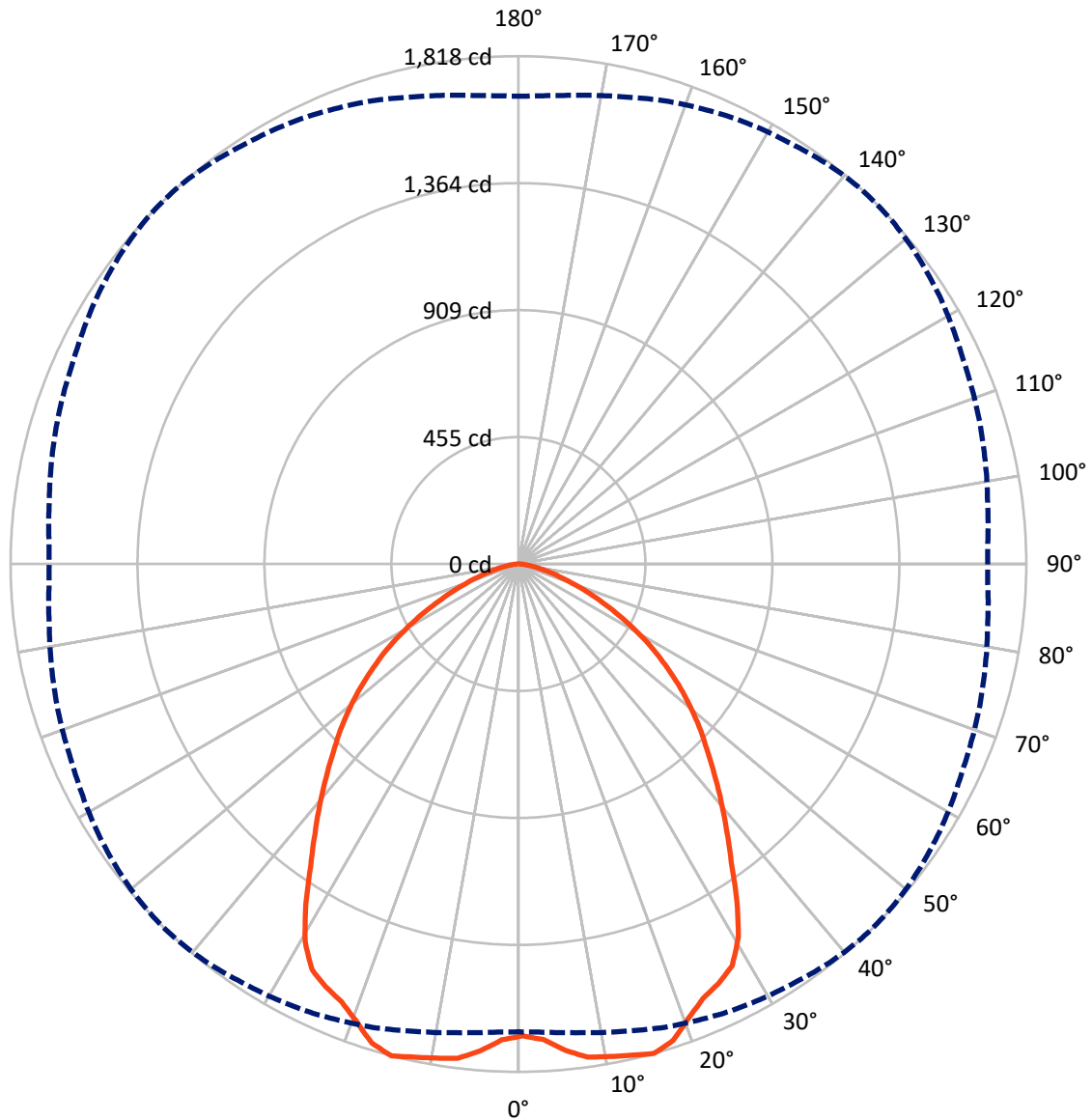
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 15-Deg Vertical

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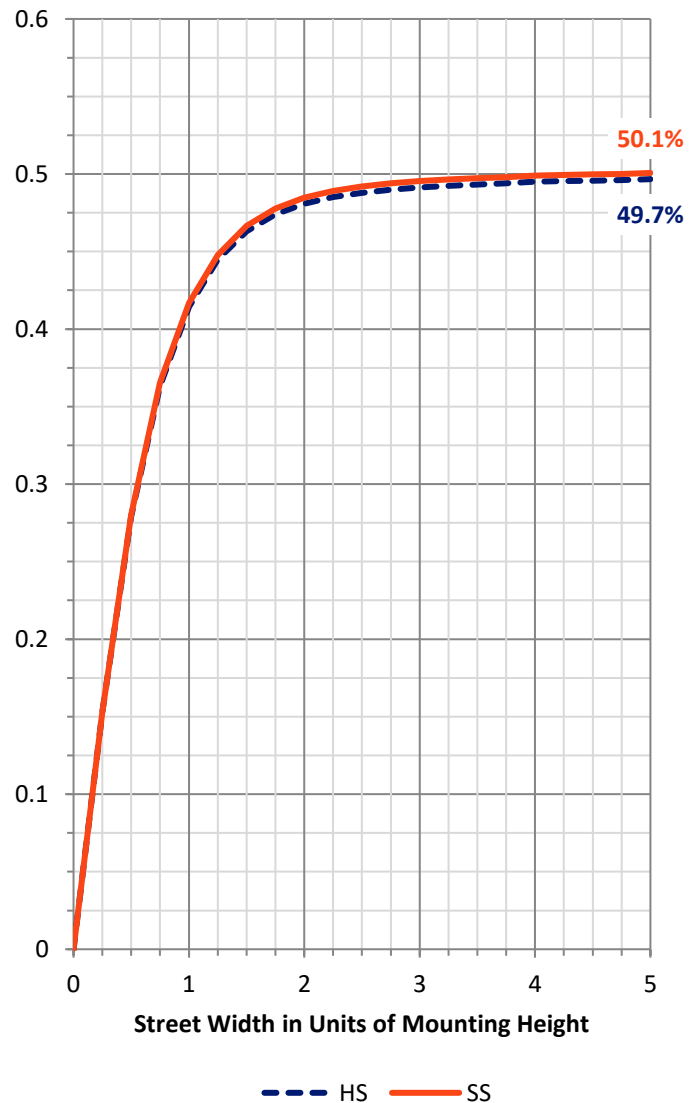
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1920.3	0.0	1920.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1920.3	0.0	1920.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3840.7	0.0	3840.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	4.3
10°-20°	492.9	12.8
20°-30°	729.0	19.0
30°-40°	792.6	20.6
40°-50°	713.5	18.6
50°-60°	537.7	14.0
60°-70°	283.5	7.4
70°-80°	104.3	2.7
80°-90°	20.2	0.5
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°	3840.7	100.0
0°-180°	3840.7	100.0



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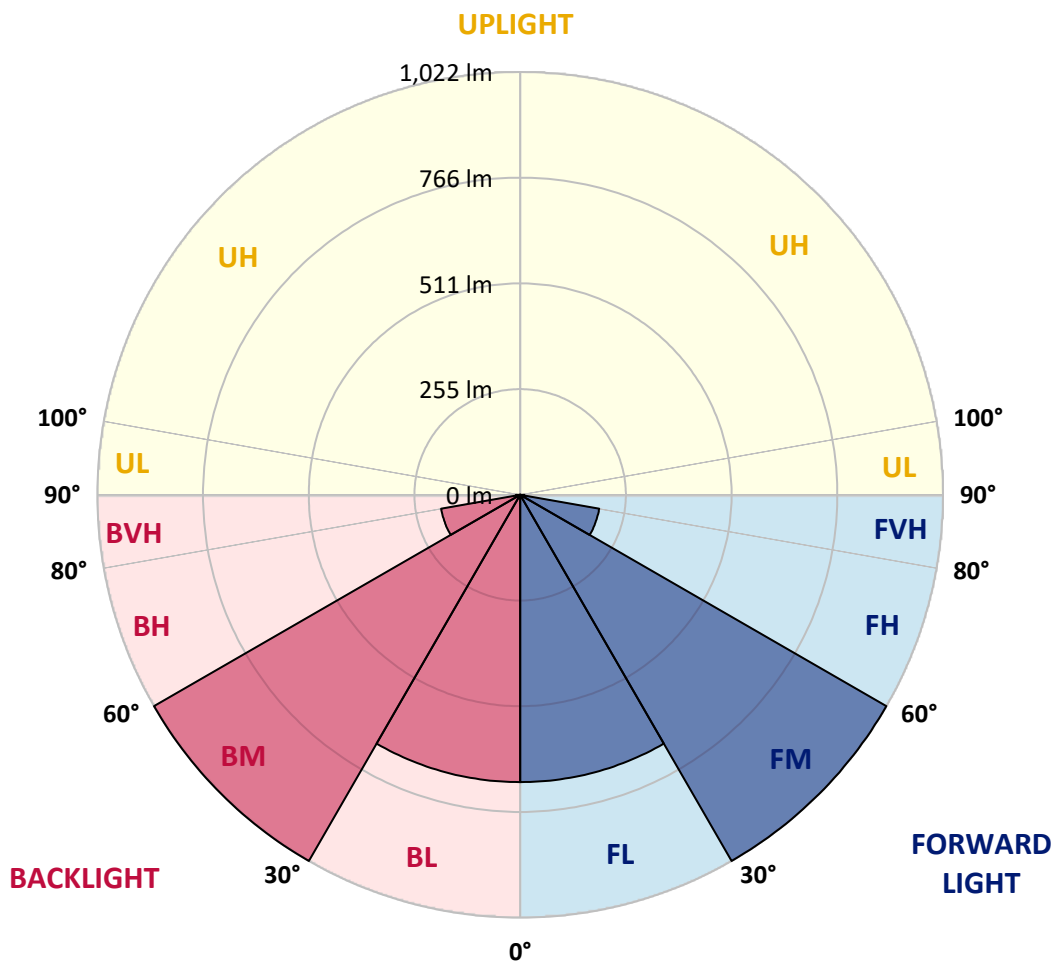
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	694.4	18.1			
FM	(30°-60°)	1021.9	26.6			
FH	(60°-80°)	193.9	5.0			G0/660
FVH	(80°-90°)	10.1	0.3			G1/100
BL	(0°-30°)	694.4	18.1	B2/1000		
BM	(30°-60°)	1021.9	26.6	B2/2500		
BH	(60°-80°)	193.9	5.0	B1/500		G0/660
BVH	(80°-90°)	10.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0
2.5°	1698.1	1699.9	1701.2	1700.3	1699.4	1699.9	1699.9	1699.0	1699.9	1699.9	1699.9
5°	1723.3	1724.7	1726.5	1726.0	1727.4	1728.3	1729.7	1729.7	1731.5	1733.7	1735.5
7.5°	1726.9	1727.4	1729.2	1730.6	1731.9	1734.2	1738.2	1741.4	1744.1	1749.1	1754.5
10°	1730.6	1731.0	1732.8	1736.4	1741.4	1746.4	1751.8	1756.7	1761.3	1766.7	1772.5
12.5°	1717.9	1718.8	1720.2	1727.9	1735.5	1745.5	1754.5	1764.9	1772.5	1781.6	1788.8
15°	1674.6	1677.3	1683.6	1692.6	1703.0	1713.4	1726.0	1739.1	1749.1	1759.4	1769.8
17.5°	1642.1	1644.8	1652.5	1663.3	1673.2	1687.7	1699.0	1708.4	1717.5	1726.9	1736.0
20°	1606.9	1609.6	1616.8	1630.4	1643.9	1659.2	1672.3	1680.9	1690.4	1700.3	1709.3
22.5°	1552.3	1556.3	1565.4	1578.0	1593.8	1610.0	1624.5	1635.3	1647.5	1660.6	1671.9
25°	1483.2	1487.7	1496.7	1512.1	1527.0	1541.0	1555.4	1569.0	1583.4	1598.3	1612.8
27.5°	1415.5	1422.3	1430.8	1444.8	1458.8	1471.0	1483.7	1498.1	1513.0	1526.5	1534.7
30°	1346.0	1350.1	1360.9	1374.9	1388.0	1401.5	1416.0	1429.0	1439.0	1448.0	1451.2
32.5°	1272.9	1276.0	1285.1	1298.1	1311.2	1325.7	1340.1	1351.0	1358.2	1361.8	1364.0
35°	1196.6	1200.6	1207.0	1216.4	1231.3	1245.8	1257.5	1267.9	1273.3	1276.0	1281.0
37.5°	1117.1	1120.8	1125.7	1136.1	1150.1	1163.2	1175.4	1180.8	1183.9	1190.3	1198.8
40°	1035.4	1038.2	1044.0	1052.1	1064.8	1076.1	1085.1	1091.0	1099.5	1106.8	1115.3
42.5°	958.7	959.2	961.4	968.6	980.4	988.1	995.3	1001.6	1010.2	1018.3	1025.1
45°	873.4	877.9	879.7	884.2	891.5	898.7	905.5	914.0	922.2	929.4	935.2
47.5°	795.3	797.6	798.0	804.3	808.9	813.8	821.9	829.2	836.8	844.5	846.3
50°	720.4	718.1	719.9	724.0	727.6	731.2	741.2	746.6	753.3	757.9	762.4
52.5°	641.4	639.1	638.7	645.0	648.2	653.1	658.6	665.3	672.5	677.1	682.0
55°	556.5	556.1	556.1	560.2	563.8	569.2	576.0	581.4	588.6	594.0	599.9
57.5°	472.6	472.6	473.9	474.4	479.4	483.9	487.5	495.6	503.3	510.5	516.8
60°	390.9	391.8	389.1	393.1	396.3	399.9	404.4	411.2	418.4	425.6	434.2
62.5°	311.4	313.3	313.7	312.8	318.7	321.4	326.3	331.3	338.1	346.2	353.0
65°	241.9	243.3	246.0	243.7	248.3	251.9	257.3	263.1	269.5	276.7	282.6
67.5°	188.7	190.0	190.9	190.5	195.0	196.3	200.4	205.4	210.8	216.7	223.0
70°	147.1	148.5	148.5	149.0	151.7	152.6	155.7	159.3	162.9	167.9	172.4
72.5°	113.7	115.1	115.6	116.9	117.8	118.3	120.1	122.8	125.0	127.7	130.9
75°	86.2	87.1	87.6	87.6	88.9	89.8	91.2	93.0	93.9	96.1	97.9
77.5°	63.2	64.1	64.5	65.0	65.4	65.4	66.4	67.7	68.6	70.0	70.9
80°	44.2	44.2	44.7	45.1	45.6	45.6	46.9	46.9	47.4	48.3	48.7
82.5°	28.0	28.0	28.4	28.4	28.9	28.9	29.8	29.3	29.8	30.2	30.2
85°	14.9	14.9	15.3	15.3	15.8	15.3	15.8	15.3	15.3	15.3	15.3
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0
2.5°	1700.3	1699.9	1701.2	1701.7	1701.7	1701.7	1704.4	1704.8	1705.7	1706.2	1707.1
5°	1737.3	1739.1	1740.9	1743.6	1744.1	1745.5	1748.6	1749.1	1750.4	1751.3	1751.3
7.5°	1758.1	1763.5	1766.7	1772.1	1774.8	1778.0	1782.5	1784.7	1786.1	1787.0	1786.1
10°	1777.1	1782.9	1786.1	1788.8	1791.0	1792.8	1793.3	1793.3	1792.4	1792.4	1790.6
12.5°	1792.8	1796.9	1798.7	1799.6	1801.9	1804.1	1804.6	1805.9	1805.9	1805.0	1803.2
15°	1778.0	1786.1	1792.4	1800.5	1808.6	1814.5	1818.1	1818.1	1815.9	1810.9	1804.1
17.5°	1746.4	1758.1	1766.2	1776.1	1786.5	1791.5	1793.3	1793.3	1789.7	1783.8	1773.0
20°	1718.8	1729.2	1735.1	1739.1	1741.8	1740.5	1736.9	1734.6	1733.7	1733.7	1731.9
22.5°	1684.5	1692.2	1695.8	1695.4	1693.5	1689.9	1689.9	1693.5	1697.2	1699.4	1702.1
25°	1624.5	1632.2	1634.9	1639.4	1645.7	1654.7	1663.3	1671.0	1675.9	1674.1	1670.5
27.5°	1541.0	1547.8	1555.9	1574.4	1594.7	1614.6	1629.0	1638.9	1640.3	1630.4	1614.6
30°	1454.8	1464.7	1477.8	1500.4	1523.4	1538.3	1551.4	1550.9	1549.1	1539.2	1523.4
32.5°	1371.7	1385.7	1402.0	1418.7	1429.9	1434.9	1435.4	1424.5	1422.3	1417.8	1410.1
35°	1292.3	1304.5	1315.7	1320.3	1322.1	1317.1	1312.1	1310.3	1304.5	1304.0	1301.3
37.5°	1209.2	1214.6	1216.9	1216.0	1214.2	1208.8	1210.6	1210.6	1205.6	1204.3	1204.7
40°	1121.7	1121.2	1118.0	1115.3	1113.1	1115.3	1117.6	1113.5	1115.3	1114.4	1114.0
42.5°	1027.3	1025.5	1023.3	1022.8	1023.7	1024.2	1028.7	1032.3	1028.7	1030.0	1030.0
45°	936.1	935.2	936.6	938.9	941.6	941.6	945.6	947.4	947.4	949.7	948.8
47.5°	849.9	853.5	855.8	859.9	863.0	864.4	871.1	874.3	873.9	873.4	871.1
50°	769.1	773.7	775.9	781.8	784.9	788.1	793.5	796.2	794.0	793.5	792.2
52.5°	688.3	692.9	700.1	704.1	707.8	711.4	716.8	720.8	719.0	719.0	715.9
55°	608.0	615.2	621.1	625.6	628.8	634.2	636.9	640.5	642.3	641.9	639.6
57.5°	525.8	532.6	538.9	545.7	551.6	559.2	562.4	563.8	564.2	565.6	561.5
60°	442.3	450.5	458.1	464.9	469.9	478.5	480.7	487.5	486.6	483.9	478.0
62.5°	361.1	368.3	376.0	384.1	393.1	397.7	403.1	407.1	406.7	403.5	398.1
65°	290.7	296.6	303.8	310.1	318.2	323.6	329.0	330.4	329.0	325.9	319.1
67.5°	229.3	236.1	241.5	247.4	255.0	258.6	261.8	261.3	261.3	257.7	251.9
70°	177.8	182.8	188.2	192.3	198.6	200.4	203.1	203.1	201.8	199.1	195.0
72.5°	135.0	138.1	143.5	146.2	149.9	152.1	153.0	153.5	151.7	149.0	145.8
75°	100.2	102.5	105.6	107.0	108.8	110.6	111.0	111.5	109.7	108.3	105.6
77.5°	72.2	74.0	75.8	75.4	76.7	77.6	77.6	77.2	76.7	75.8	74.0
80°	49.7	49.2	50.6	50.1	51.5	51.9	51.9	51.9	51.5	50.6	49.2
82.5°	30.2	30.2	31.1	31.6	32.0	32.5	32.5	32.5	32.0	31.6	30.7
85°	15.8	16.2	16.7	17.2	17.2	17.6	17.6	17.6	17.6	17.2	16.7
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0	1689.0
2.5°	1707.1	1705.3	1704.4	1704.4	1703.5	1703.0	1703.9	1703.5	1704.4	1704.4	1703.9
5°	1751.8	1749.5	1747.7	1747.7	1745.5	1745.5	1745.5	1744.1	1743.2	1744.1	1743.2
7.5°	1783.8	1782.5	1779.3	1776.6	1773.0	1771.2	1768.5	1765.8	1762.6	1760.3	1758.5
10°	1791.0	1790.1	1788.8	1787.0	1784.3	1780.7	1778.0	1773.9	1769.4	1765.3	1763.1
12.5°	1801.4	1799.6	1796.5	1791.9	1787.9	1782.5	1775.7	1767.6	1760.8	1754.9	1750.0
15°	1795.6	1787.0	1776.1	1764.9	1753.6	1745.0	1737.3	1729.2	1720.2	1711.6	1703.0
17.5°	1762.6	1752.2	1740.0	1728.3	1717.9	1708.0	1700.8	1694.0	1686.3	1677.3	1668.7
20°	1730.6	1725.6	1715.7	1706.6	1699.9	1689.0	1678.7	1671.9	1666.0	1660.1	1650.2
22.5°	1703.9	1703.5	1697.2	1687.7	1676.8	1664.2	1650.2	1636.7	1625.4	1615.5	1604.6
25°	1667.4	1658.8	1645.7	1632.6	1620.4	1604.6	1587.5	1569.9	1555.0	1542.3	1529.7
27.5°	1596.5	1575.7	1560.4	1546.9	1532.9	1519.3	1504.9	1490.9	1476.9	1464.7	1453.4
30°	1501.7	1479.6	1464.7	1453.0	1443.9	1436.3	1428.1	1416.9	1405.1	1393.8	1383.0
32.5°	1400.2	1388.0	1374.4	1365.4	1357.7	1353.2	1349.6	1343.3	1332.9	1321.2	1309.0
35°	1300.4	1298.1	1293.6	1287.8	1281.0	1274.7	1270.6	1264.3	1255.3	1241.7	1229.5
37.5°	1206.5	1207.4	1208.3	1204.3	1199.3	1192.5	1186.7	1179.4	1169.5	1156.4	1144.7
40°	1114.4	1117.6	1120.8	1122.1	1119.0	1111.7	1103.6	1094.6	1083.7	1072.5	1061.2
42.5°	1028.7	1030.5	1031.8	1033.6	1033.6	1025.5	1017.8	1007.0	998.4	990.8	981.3
45°	947.4	945.6	947.4	947.9	946.1	941.6	933.0	924.4	917.6	910.9	903.6
47.5°	868.9	868.0	867.1	866.2	863.0	855.8	851.7	845.4	839.6	834.6	830.5
50°	792.2	791.7	788.5	786.7	782.2	778.2	772.3	766.9	761.5	756.5	752.0
52.5°	716.3	714.5	711.8	706.4	701.9	699.6	693.8	688.3	681.6	676.2	672.5
55°	636.9	636.0	631.5	627.4	622.0	613.9	607.1	603.0	597.2	589.0	584.1
57.5°	555.6	552.0	547.5	542.5	535.3	526.3	519.5	511.0	506.4	501.0	497.0
60°	474.8	468.5	461.3	454.5	446.9	438.3	431.1	423.8	417.1	414.4	409.8
62.5°	390.4	384.6	376.9	368.3	361.1	352.1	346.2	339.0	333.1	328.1	323.6
65°	312.3	305.6	298.4	289.3	280.8	271.7	265.9	257.7	251.0	244.2	240.1
67.5°	244.2	237.0	229.7	220.3	213.0	205.4	200.0	192.7	186.9	182.4	179.6
70°	186.4	180.1	173.3	166.1	160.7	154.8	150.8	146.2	143.1	139.9	138.1
72.5°	139.9	135.9	129.5	124.6	120.5	116.9	114.6	111.9	110.1	107.9	106.5
75°	101.1	98.9	96.1	93.4	90.7	88.0	86.2	84.9	83.1	81.7	81.7
77.5°	72.7	71.3	69.5	67.3	65.9	64.5	62.7	62.3	61.4	60.5	60.0
80°	48.7	47.8	46.9	46.0	45.1	44.2	43.3	42.9	42.0	42.4	41.5
82.5°	30.2	29.3	28.9	28.4	28.0	28.0	27.5	27.1	26.6	27.1	26.6
85°	16.2	15.8	15.3	14.9	14.4	14.4	14.4	14.4	14.4	14.9	14.4
87.5°	6.3	6.3	6.3	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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):**

	82.5°	85°	87.5°	90°
0°	1689.0	1689.0	1689.0	1689.0
2.5°	1704.8	1704.4	1703.9	1705.3
5°	1742.7	1741.4	1740.9	1741.4
7.5°	1756.3	1753.1	1751.8	1751.3
10°	1759.0	1755.8	1754.0	1754.5
12.5°	1742.3	1735.5	1731.9	1731.5
15°	1694.0	1688.1	1681.8	1679.6
17.5°	1661.0	1652.9	1648.4	1646.2
20°	1640.7	1632.2	1627.2	1625.8
22.5°	1594.7	1583.9	1575.3	1571.7
25°	1518.9	1505.8	1499.0	1496.7
27.5°	1443.0	1433.1	1424.5	1423.2
30°	1373.1	1362.7	1353.7	1349.1
32.5°	1297.7	1286.0	1276.9	1277.8
35°	1215.5	1204.7	1197.9	1200.2
37.5°	1132.9	1123.0	1117.1	1119.9
40°	1051.7	1044.5	1040.9	1039.1
42.5°	974.1	970.0	967.3	968.2
45°	897.8	894.2	892.4	895.1
47.5°	826.5	820.1	818.8	821.0
50°	748.8	744.8	744.8	744.8
52.5°	668.5	667.1	668.0	667.1
55°	580.0	577.3	576.9	579.6
57.5°	492.9	492.9	492.0	492.0
60°	405.8	405.3	406.7	405.8
62.5°	317.8	315.5	315.5	315.1
65°	235.2	232.0	232.5	231.6
67.5°	176.5	174.2	173.3	172.9
70°	137.2	134.1	134.1	134.1
72.5°	106.1	104.7	103.8	103.8
75°	80.3	79.9	79.4	78.5
77.5°	59.1	58.7	58.2	57.8
80°	41.1	41.1	40.6	40.6
82.5°	26.2	26.2	25.7	25.7
85°	14.4	14.0	14.0	14.0
87.5°	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)