

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: P197549

Luminaire Tested: **TT-C5-LED-E1-CQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-CQ-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7186.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 77
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

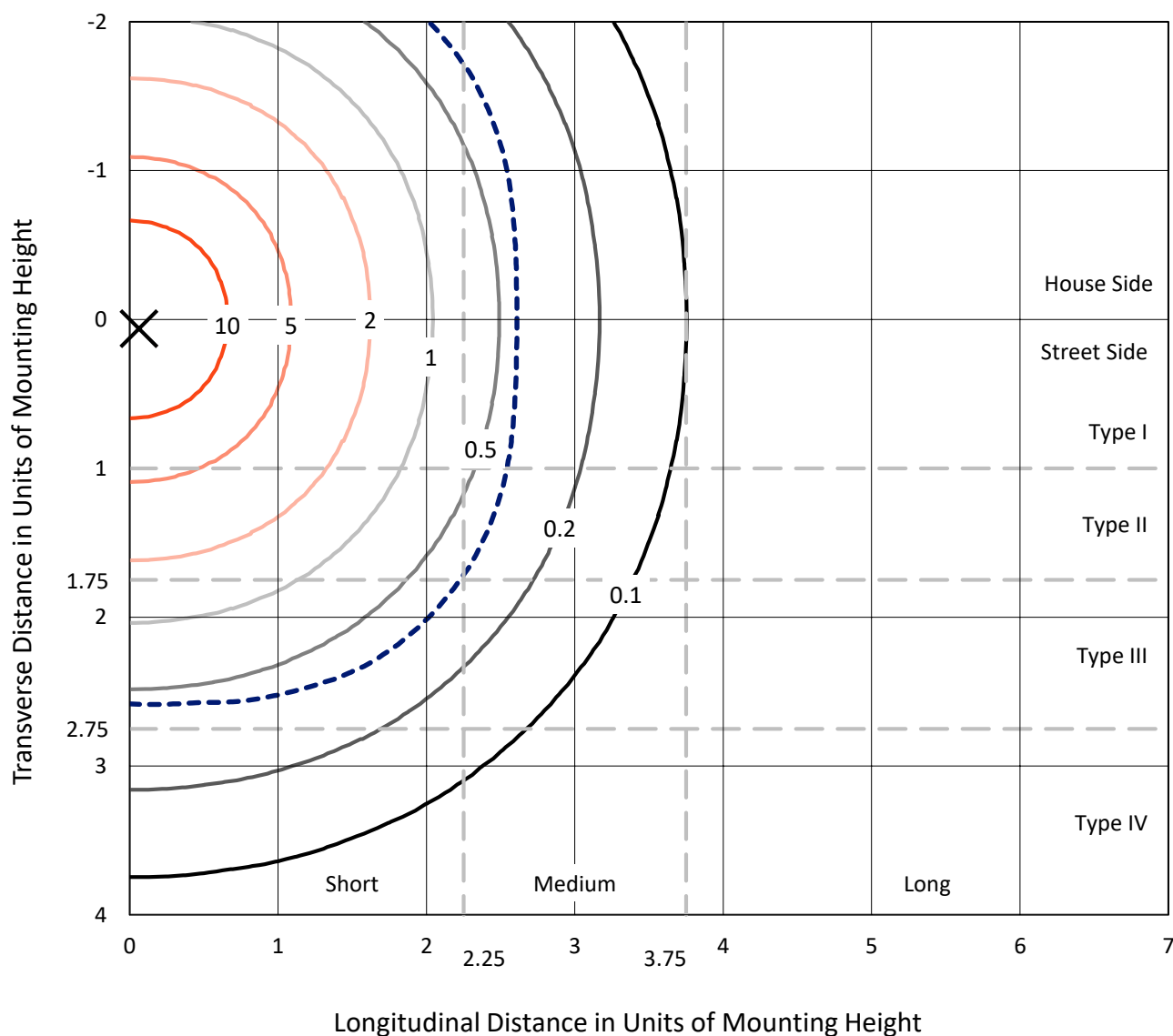


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

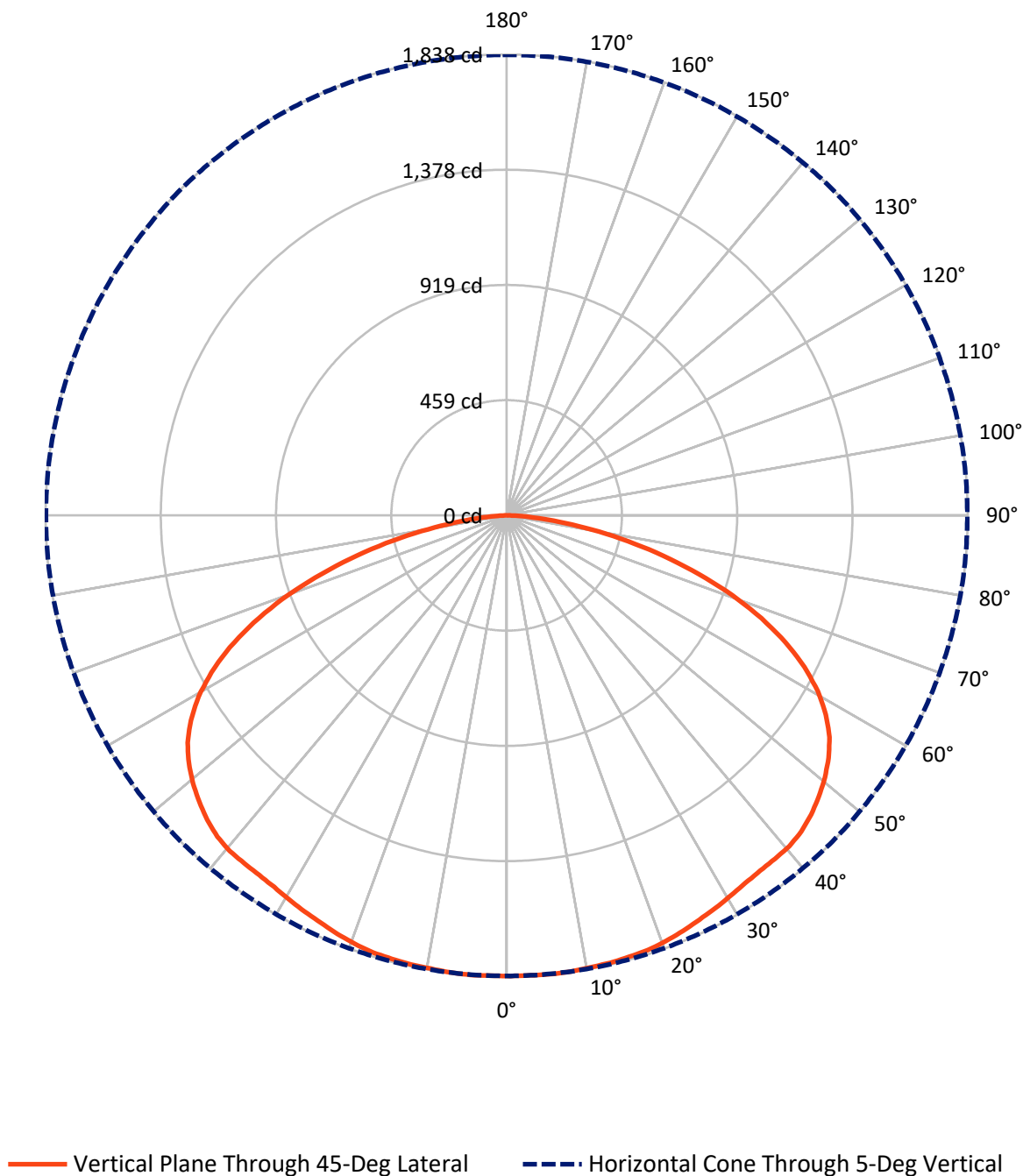


Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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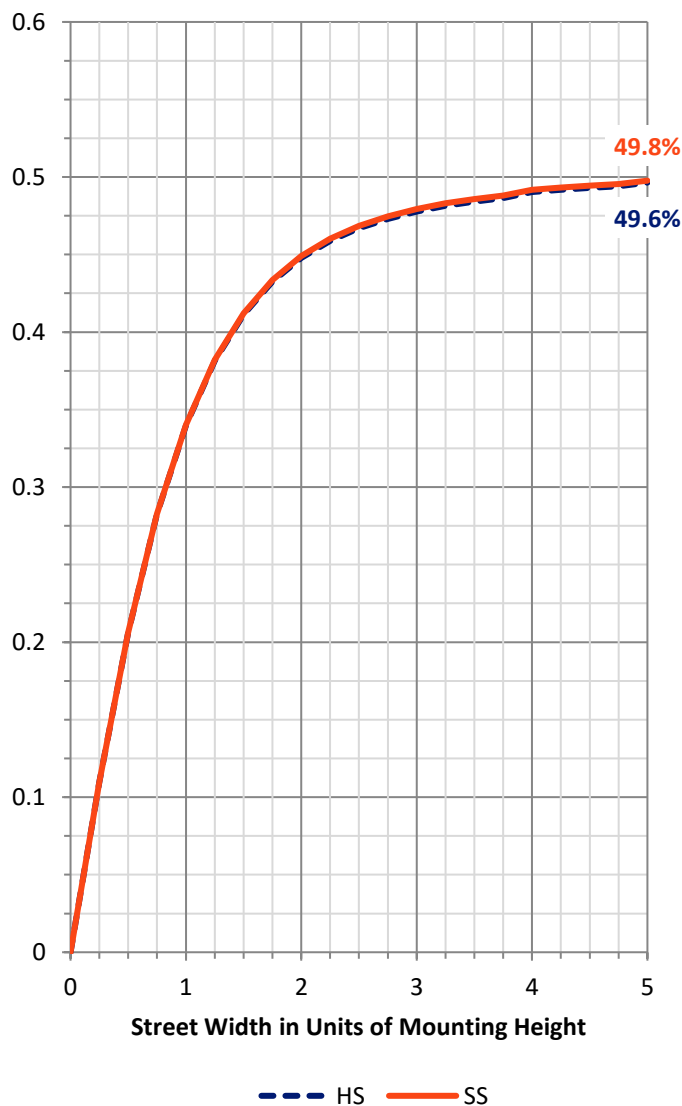
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3593.3	0.0	3593.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3593.3	0.0	3593.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7186.6	0.0	7186.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	2.4
10°-20°	516.5	7.2
20°-30°	824.3	11.5
30°-40°	1085.7	15.1
40°-50°	1291.5	18.0
50°-60°	1351.7	18.8
60°-70°	1149.5	16.0
70°-80°	653.2	9.1
80°-90°	138.9	1.9
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°	7186.6	100.0
0°-180°	7186.6	100.0

Coefficient of Utilization



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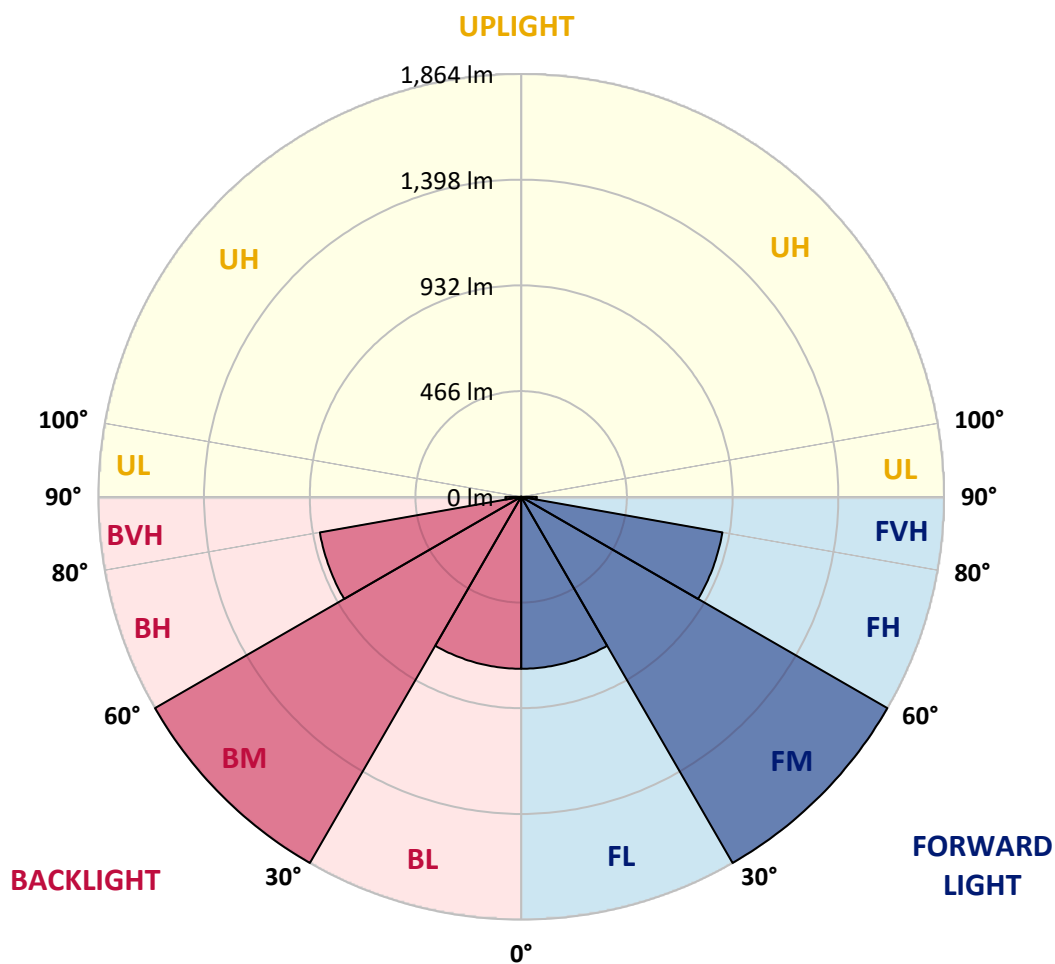
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.0	10.5			
FM	(30°-60°)	1864.5	25.9			
FH	(60°-80°)	901.4	12.5			G1/1800
FVH	(80°-90°)	69.5	1.0			G1/100
BL	(0°-30°)	758.0	10.5	B2/1000		
BM	(30°-60°)	1864.5	25.9	B2/2500		
BH	(60°-80°)	901.4	12.5	B2/1000		G1/1800
BVH	(80°-90°)	69.5	1.0			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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
2.5°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
5°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1837.5	1836.1
7.5°	1834.7	1834.7	1834.7	1834.7	1836.1	1834.7	1834.7	1836.1	1836.1	1836.1	1836.1
10°	1831.9	1830.5	1830.5	1831.9	1831.9	1831.9	1831.9	1831.9	1833.3	1831.9	1831.9
12.5°	1827.6	1826.2	1827.6	1827.6	1827.6	1829.0	1829.0	1829.0	1830.5	1830.5	1829.0
15°	1823.4	1823.4	1823.4	1823.4	1823.4	1824.8	1824.8	1826.2	1826.2	1826.2	1826.2
17.5°	1817.7	1817.7	1817.7	1819.1	1819.1	1820.5	1820.5	1820.5	1822.0	1822.0	1822.0
20°	1807.8	1806.4	1807.8	1807.8	1809.2	1810.6	1810.6	1812.0	1812.0	1812.0	1812.0
22.5°	1793.6	1793.6	1795.0	1795.0	1796.4	1797.9	1797.9	1799.3	1799.3	1799.3	1799.3
25°	1779.4	1780.9	1780.9	1782.3	1782.3	1783.7	1785.1	1785.1	1785.1	1785.1	1785.1
27.5°	1765.3	1766.7	1766.7	1766.7	1768.1	1769.5	1770.9	1772.4	1773.8	1772.4	1772.4
30°	1749.7	1749.7	1751.1	1752.5	1753.9	1755.4	1758.2	1759.6	1761.0	1759.6	1759.6
32.5°	1732.7	1734.1	1735.5	1736.9	1739.8	1742.6	1745.4	1746.9	1748.3	1746.9	1746.9
35°	1719.9	1719.9	1722.8	1725.6	1728.4	1732.7	1735.5	1738.4	1741.2	1739.8	1738.4
37.5°	1707.2	1707.2	1710.0	1714.3	1719.9	1725.6	1731.3	1735.5	1736.9	1736.9	1735.5
40°	1691.6	1693.0	1695.9	1702.9	1711.4	1718.5	1725.6	1731.3	1734.1	1734.1	1731.3
42.5°	1674.6	1676.0	1680.3	1687.4	1697.3	1705.8	1714.3	1718.5	1722.8	1722.8	1719.9
45°	1650.5	1651.9	1657.6	1664.7	1674.6	1683.1	1693.0	1697.3	1702.9	1701.5	1700.1
47.5°	1619.4	1620.8	1626.4	1633.5	1643.4	1653.4	1663.3	1670.4	1674.6	1674.6	1673.2
50°	1581.1	1582.5	1588.2	1595.3	1608.0	1619.4	1629.3	1636.4	1643.4	1643.4	1642.0
52.5°	1532.9	1535.8	1540.0	1549.9	1564.1	1576.9	1589.6	1600.9	1605.2	1606.6	1605.2
55°	1473.4	1476.3	1481.9	1493.3	1508.8	1524.4	1538.6	1551.3	1557.0	1561.3	1558.4
57.5°	1404.0	1406.8	1413.9	1426.7	1443.7	1459.3	1477.7	1491.8	1496.1	1500.3	1498.9
60°	1321.8	1326.1	1333.2	1347.3	1364.3	1381.3	1398.3	1415.3	1419.6	1425.3	1422.4
62.5°	1225.5	1229.7	1236.8	1252.4	1270.8	1286.4	1306.3	1321.8	1326.1	1331.8	1330.3
65°	1115.0	1119.2	1126.3	1143.3	1160.3	1177.3	1195.7	1212.7	1217.0	1222.7	1221.2
67.5°	988.9	993.1	1000.2	1020.1	1037.1	1054.1	1069.7	1086.7	1089.5	1095.2	1093.7
70°	855.7	861.4	867.1	885.5	901.1	915.2	932.2	946.4	952.1	954.9	952.1
72.5°	722.5	726.8	732.5	745.2	756.5	769.3	786.3	796.2	800.5	801.9	801.9
75°	585.1	589.4	589.4	603.5	612.0	619.1	633.3	640.4	643.2	646.0	646.0
77.5°	454.8	451.9	454.8	460.4	466.1	471.8	480.3	484.5	487.4	493.0	490.2
80°	318.8	320.2	321.6	325.9	328.7	330.1	335.8	337.2	338.6	344.3	341.4
82.5°	205.4	202.6	205.4	204.0	206.8	202.6	205.4	209.7	206.8	209.7	211.1
85°	107.7	103.4	103.4	104.8	106.3	103.4	104.8	103.4	103.4	106.3	104.8
87.5°	34.0	32.6	34.0	32.6	34.0	32.6	34.0	35.4	34.0	34.0	35.4
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°
0°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
2.5°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
5°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1
7.5°	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1833.3	1834.7
10°	1831.9	1831.9	1831.9	1831.9	1830.5	1830.5	1830.5	1830.5
12.5°	1829.0	1829.0	1827.6	1827.6	1827.6	1827.6	1826.2	1826.2
15°	1826.2	1824.8	1824.8	1823.4	1823.4	1823.4	1822.0	1823.4
17.5°	1822.0	1820.5	1820.5	1819.1	1819.1	1817.7	1817.7	1817.7
20°	1812.0	1810.6	1810.6	1809.2	1809.2	1807.8	1806.4	1806.4
22.5°	1797.9	1797.9	1797.9	1796.4	1795.0	1795.0	1793.6	1793.6
25°	1785.1	1783.7	1783.7	1782.3	1780.9	1780.9	1779.4	1779.4
27.5°	1772.4	1770.9	1769.5	1766.7	1766.7	1765.3	1763.9	1762.4
30°	1758.2	1755.4	1752.5	1751.1	1749.7	1746.9	1745.4	1744.0
32.5°	1744.0	1741.2	1738.4	1735.5	1731.3	1729.9	1727.0	1727.0
35°	1735.5	1731.3	1727.0	1721.4	1717.1	1712.9	1710.0	1708.6
37.5°	1731.3	1725.6	1718.5	1711.4	1704.4	1698.7	1694.4	1694.4
40°	1725.6	1718.5	1710.0	1700.1	1691.6	1684.5	1680.3	1678.9
42.5°	1714.3	1707.2	1695.9	1687.4	1676.0	1668.9	1663.3	1661.9
45°	1694.4	1687.4	1677.4	1666.1	1654.8	1646.3	1640.6	1639.2
47.5°	1668.9	1660.4	1649.1	1637.8	1626.4	1616.5	1610.9	1609.4
50°	1636.4	1627.9	1616.5	1605.2	1592.4	1582.5	1575.4	1575.4
52.5°	1599.5	1589.6	1576.9	1564.1	1549.9	1540.0	1532.9	1531.5
55°	1551.3	1540.0	1527.3	1513.1	1497.5	1486.2	1477.7	1476.3
57.5°	1491.8	1479.1	1464.9	1449.3	1433.8	1421.0	1411.1	1409.7
60°	1416.8	1402.6	1388.4	1372.8	1355.8	1341.7	1331.8	1328.9
62.5°	1324.7	1309.1	1293.5	1279.3	1260.9	1246.7	1236.8	1234.0
65°	1215.6	1202.8	1187.2	1170.2	1150.4	1136.2	1126.3	1124.9
67.5°	1088.1	1075.3	1059.7	1044.2	1024.3	1011.6	1001.6	998.8
70°	947.8	936.5	923.7	908.1	891.1	878.4	868.5	867.1
72.5°	799.1	789.1	777.8	766.5	749.5	739.5	731.0	729.6
75°	646.0	636.1	627.6	619.1	606.4	599.3	590.8	590.8
77.5°	490.2	487.4	481.7	471.8	464.7	459.0	454.8	451.9
80°	342.9	340.0	337.2	331.5	327.3	325.9	323.0	320.2
82.5°	209.7	208.3	209.7	206.8	205.4	205.4	204.0	201.2
85°	106.3	107.7	106.3	104.8	104.8	104.8	104.8	103.4
87.5°	34.0	35.4	34.0	32.6	32.6	32.6	32.6	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)