

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: P197718

Luminaire Tested: **TT-C5-LED-E1-MQ-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-MQ-CG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8524.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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



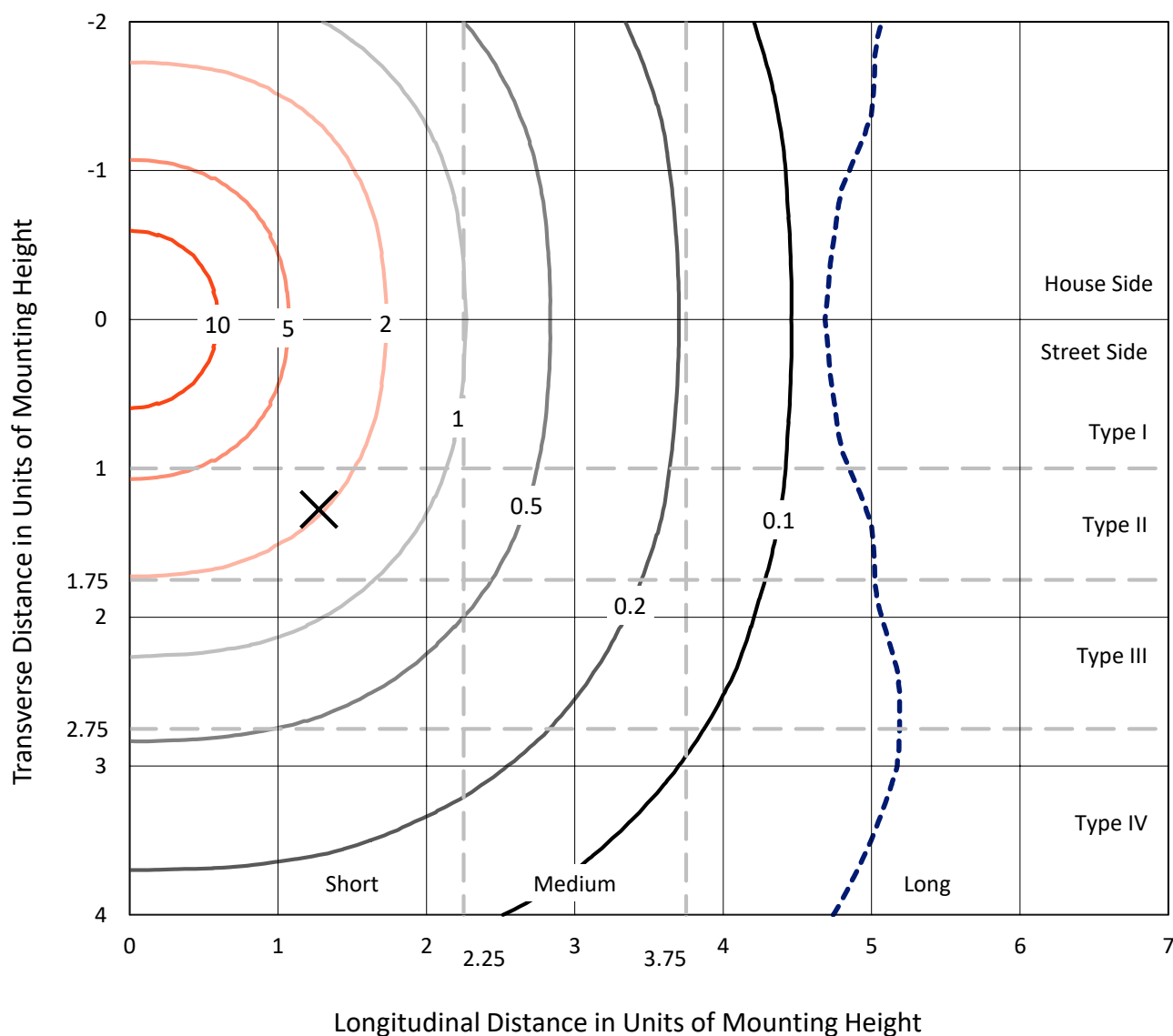
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

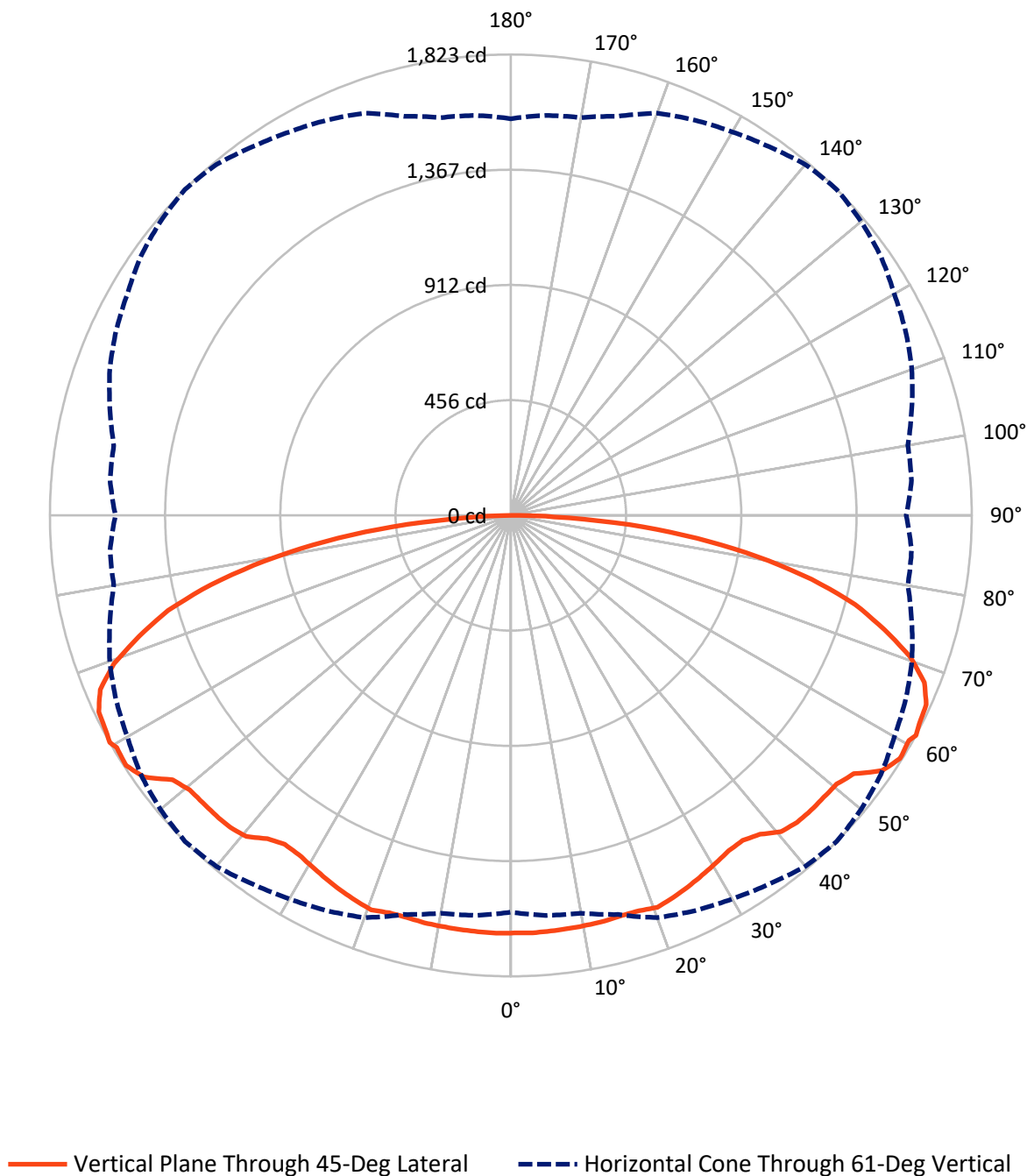


Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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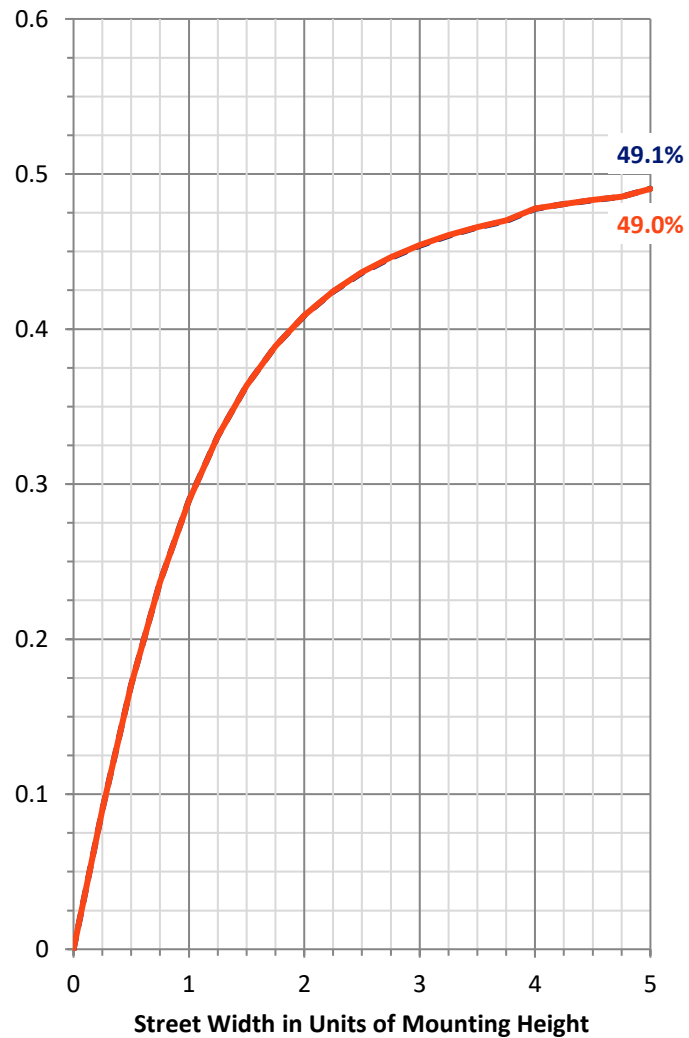
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4262.3	0.0	4262.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4262.3	0.0	4262.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8524.5	0.0	8524.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.8
10°-20°	465.8	5.5
20°-30°	749.5	8.8
30°-40°	992.9	11.6
40°-50°	1253.8	14.7
50°-60°	1502.4	17.6
60°-70°	1642.7	19.3
70°-80°	1315.0	15.4
80°-90°	444.9	5.2
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°	8524.5	100.0
0°-180°	8524.5	100.0

Coefficient of Utilization



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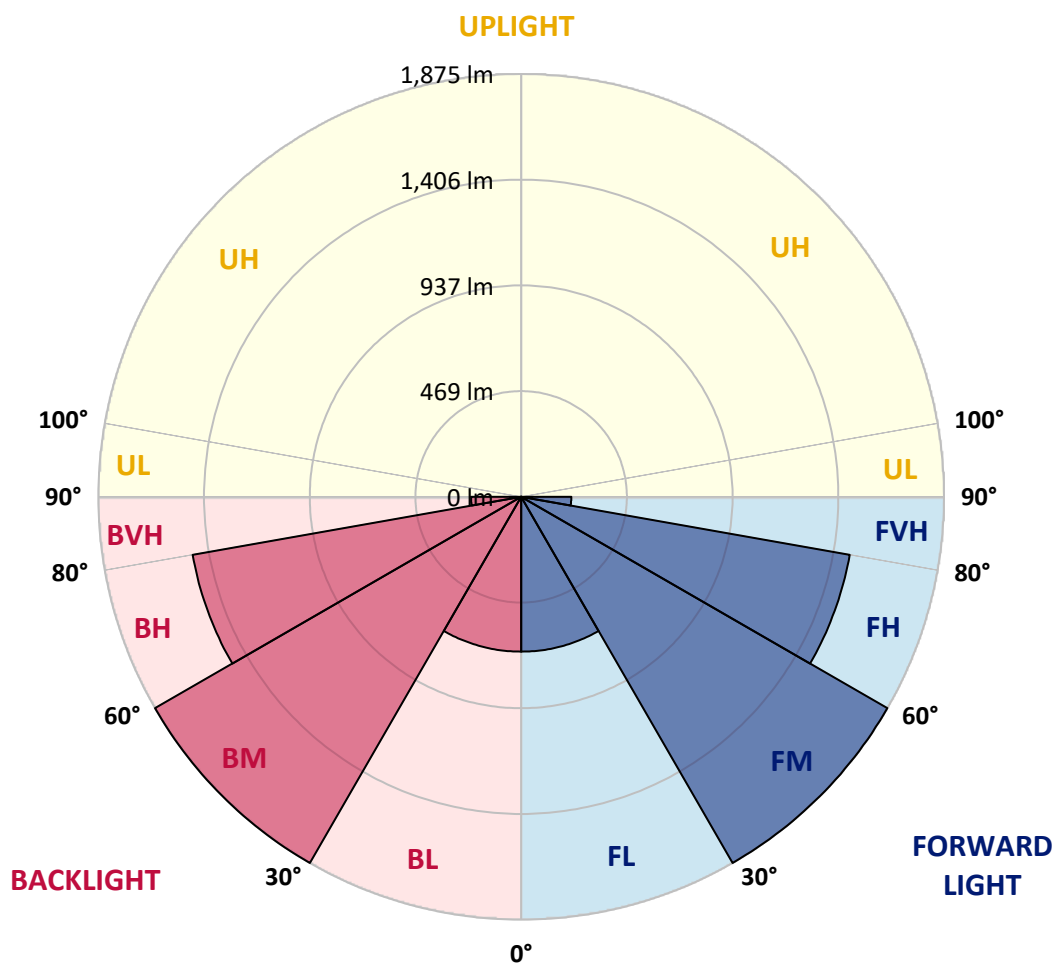
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.4	8.1			
FM	(30°-60°)	1874.5	22.0			
FH	(60°-80°)	1478.9	17.3			G1/1800
FVH	(80°-90°)	222.5	2.6			G2/225
BL	(0°-30°)	686.4	8.1	B2/1000		
BM	(30°-60°)	1874.5	22.0	B2/2500		
BH	(60°-80°)	1478.9	17.3	B3/2500		G1/1800
BVH	(80°-90°)	222.5	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5
2.5°	1653.1	1651.5	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1
5°	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5
7.5°	1649.9	1649.9	1649.9	1649.9	1649.9	1649.9	1649.9	1649.9	1651.5	1649.9	1651.5
10°	1646.9	1646.9	1646.9	1646.9	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3
12.5°	1643.7	1643.7	1643.7	1643.7	1645.3	1645.3	1645.3	1645.3	1646.9	1646.9	1645.3
15°	1640.4	1638.8	1638.8	1640.4	1640.4	1642.1	1642.1	1642.1	1643.7	1642.1	1642.1
17.5°	1637.2	1635.6	1637.2	1638.8	1638.8	1640.4	1642.1	1642.1	1643.7	1643.7	1643.7
20°	1642.1	1640.4	1642.1	1643.7	1645.3	1648.3	1649.9	1651.5	1653.1	1654.8	1654.8
22.5°	1632.6	1631.0	1632.6	1632.6	1634.2	1635.6	1638.8	1640.4	1642.1	1642.1	1642.1
25°	1618.3	1618.3	1619.9	1619.9	1621.5	1622.9	1624.5	1626.1	1626.1	1627.7	1626.1
27.5°	1602.3	1602.3	1603.9	1603.9	1607.2	1607.2	1608.8	1610.2	1611.8	1611.8	1611.8
30°	1583.4	1583.4	1584.8	1586.4	1589.6	1591.2	1592.9	1594.5	1596.1	1596.1	1596.1
32.5°	1565.8	1564.2	1565.8	1569.1	1573.7	1576.9	1580.2	1581.8	1581.8	1581.8	1583.4
35°	1551.5	1553.1	1556.4	1559.4	1565.8	1569.1	1572.1	1576.9	1578.5	1578.5	1578.5
37.5°	1554.7	1556.4	1561.0	1567.4	1575.3	1584.8	1591.2	1597.5	1602.3	1600.7	1599.1
40°	1575.3	1578.5	1586.4	1596.1	1608.8	1621.5	1631.0	1638.8	1643.7	1645.3	1643.7
42.5°	1578.5	1581.8	1588.0	1602.3	1616.7	1631.0	1643.7	1651.5	1658.0	1659.6	1658.0
45°	1576.9	1576.9	1586.4	1602.3	1616.7	1631.0	1646.9	1658.0	1664.2	1664.2	1664.2
47.5°	1565.8	1570.7	1576.9	1592.9	1611.8	1626.1	1642.1	1653.1	1661.0	1665.9	1661.0
50°	1565.8	1565.8	1576.9	1588.0	1605.6	1631.0	1653.1	1664.2	1672.3	1670.7	1672.3
52.5°	1562.6	1572.1	1578.5	1594.5	1626.1	1651.5	1669.1	1685.0	1696.1	1697.7	1694.5
55°	1591.2	1592.9	1607.2	1637.2	1667.5	1696.1	1727.8	1751.6	1770.7	1781.8	1765.9
57.5°	1613.4	1605.6	1634.2	1659.6	1694.5	1737.4	1785.0	1804.0	1818.3	1815.1	1819.9
60°	1583.4	1594.5	1615.0	1642.1	1697.7	1740.5	1765.9	1786.6	1804.0	1808.8	1802.4
61°	1569.1	1588.0	1597.5	1634.2	1692.9	1724.7	1751.6	1780.2	1812.0	1823.1	1808.8
62.5°	1545.3	1575.3	1572.1	1631.0	1667.5	1704.0	1754.8	1788.2	1810.4	1813.6	1810.4
65°	1546.7	1542.0	1578.5	1621.5	1658.0	1723.1	1765.9	1786.6	1799.3	1805.6	1802.4
67.5°	1495.9	1480.1	1524.5	1554.7	1616.7	1667.5	1708.8	1738.8	1758.0	1764.3	1756.4
70°	1378.5	1389.6	1421.3	1467.4	1518.2	1580.2	1618.3	1658.0	1673.7	1675.3	1675.3
72.5°	1265.6	1272.1	1303.7	1346.7	1405.4	1459.4	1497.5	1529.3	1543.7	1545.3	1548.3
75°	1116.4	1122.7	1159.4	1199.1	1257.8	1303.7	1330.7	1368.9	1389.6	1407.0	1392.7
77.5°	943.2	954.5	982.9	1025.9	1079.9	1105.3	1152.9	1197.5	1211.8	1216.4	1211.8
80°	748.0	762.3	787.8	844.8	868.6	909.9	955.9	975.1	987.8	991.0	992.6
82.5°	538.3	549.4	576.5	616.2	643.2	676.5	708.3	732.1	746.4	743.2	741.6
85°	317.6	320.8	349.4	376.4	397.0	417.6	443.0	460.5	463.7	470.0	468.4
87.5°	95.4	96.8	109.5	123.8	133.5	143.0	158.9	179.4	184.3	171.6	173.2
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°	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5
2.5°	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1651.5	1653.1
5°	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5	1651.5
7.5°	1651.5	1649.9	1649.9	1649.9	1649.9	1649.9	1649.9	1649.9
10°	1648.3	1648.3	1648.3	1648.3	1646.9	1646.9	1646.9	1646.9
12.5°	1645.3	1645.3	1645.3	1645.3	1643.7	1643.7	1643.7	1643.7
15°	1642.1	1642.1	1642.1	1642.1	1640.4	1640.4	1640.4	1640.4
17.5°	1643.7	1642.1	1640.4	1640.4	1638.8	1637.2	1637.2	1637.2
20°	1653.1	1651.5	1648.3	1645.3	1643.7	1642.1	1642.1	1642.1
22.5°	1640.4	1638.8	1635.6	1634.2	1634.2	1632.6	1631.0	1631.0
25°	1626.1	1622.9	1622.9	1621.5	1621.5	1618.3	1618.3	1616.7
27.5°	1610.2	1608.8	1607.2	1605.6	1605.6	1603.9	1602.3	1600.7
30°	1596.1	1592.9	1589.6	1588.0	1586.4	1584.8	1584.8	1584.8
32.5°	1581.8	1578.5	1576.9	1572.1	1569.1	1567.4	1565.8	1565.8
35°	1576.9	1572.1	1569.1	1564.2	1559.4	1556.4	1554.7	1551.5
37.5°	1596.1	1589.6	1584.8	1576.9	1565.8	1561.0	1556.4	1554.7
40°	1637.2	1631.0	1621.5	1608.8	1596.1	1586.4	1578.5	1575.3
42.5°	1651.5	1643.7	1631.0	1618.3	1602.3	1588.0	1581.8	1578.5
45°	1656.4	1648.3	1631.0	1615.0	1600.7	1588.0	1578.5	1575.3
47.5°	1651.5	1640.4	1624.5	1611.8	1591.2	1575.3	1569.1	1564.2
50°	1662.6	1653.1	1632.6	1603.9	1586.4	1576.9	1565.8	1564.2
52.5°	1685.0	1667.5	1648.3	1627.7	1594.5	1575.3	1569.1	1561.0
55°	1751.6	1727.8	1694.5	1661.0	1640.4	1610.2	1591.2	1591.2
57.5°	1802.4	1783.4	1740.5	1696.1	1658.0	1635.6	1607.2	1608.8
60°	1788.2	1762.8	1742.1	1697.7	1643.7	1613.4	1602.3	1581.8
61°	1786.6	1751.6	1723.1	1688.0	1642.1	1594.5	1591.2	1564.2
62.5°	1789.7	1758.0	1704.0	1667.5	1632.6	1570.7	1569.1	1543.7
65°	1786.6	1756.4	1729.4	1661.0	1613.4	1588.0	1534.0	1554.7
67.5°	1737.4	1710.4	1661.0	1622.9	1549.9	1518.2	1488.0	1488.0
70°	1659.6	1619.9	1572.1	1524.5	1475.3	1421.3	1394.3	1378.5
72.5°	1529.3	1495.9	1457.8	1407.0	1346.7	1297.5	1272.1	1261.0
75°	1365.8	1329.1	1295.9	1257.8	1194.2	1152.9	1125.9	1118.0
77.5°	1194.2	1162.4	1103.7	1067.2	1024.3	976.7	952.9	943.2
80°	975.1	957.5	916.4	857.5	837.0	778.1	762.3	748.0
82.5°	732.1	713.0	674.9	633.7	608.3	574.8	546.2	543.2
85°	460.5	447.8	424.0	393.8	362.1	343.0	317.6	324.0
87.5°	171.6	163.5	149.2	130.2	115.9	103.2	90.5	95.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)