

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: P197600

Luminaire Tested: **TT-C5-LED-E1-MQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8398.7 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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

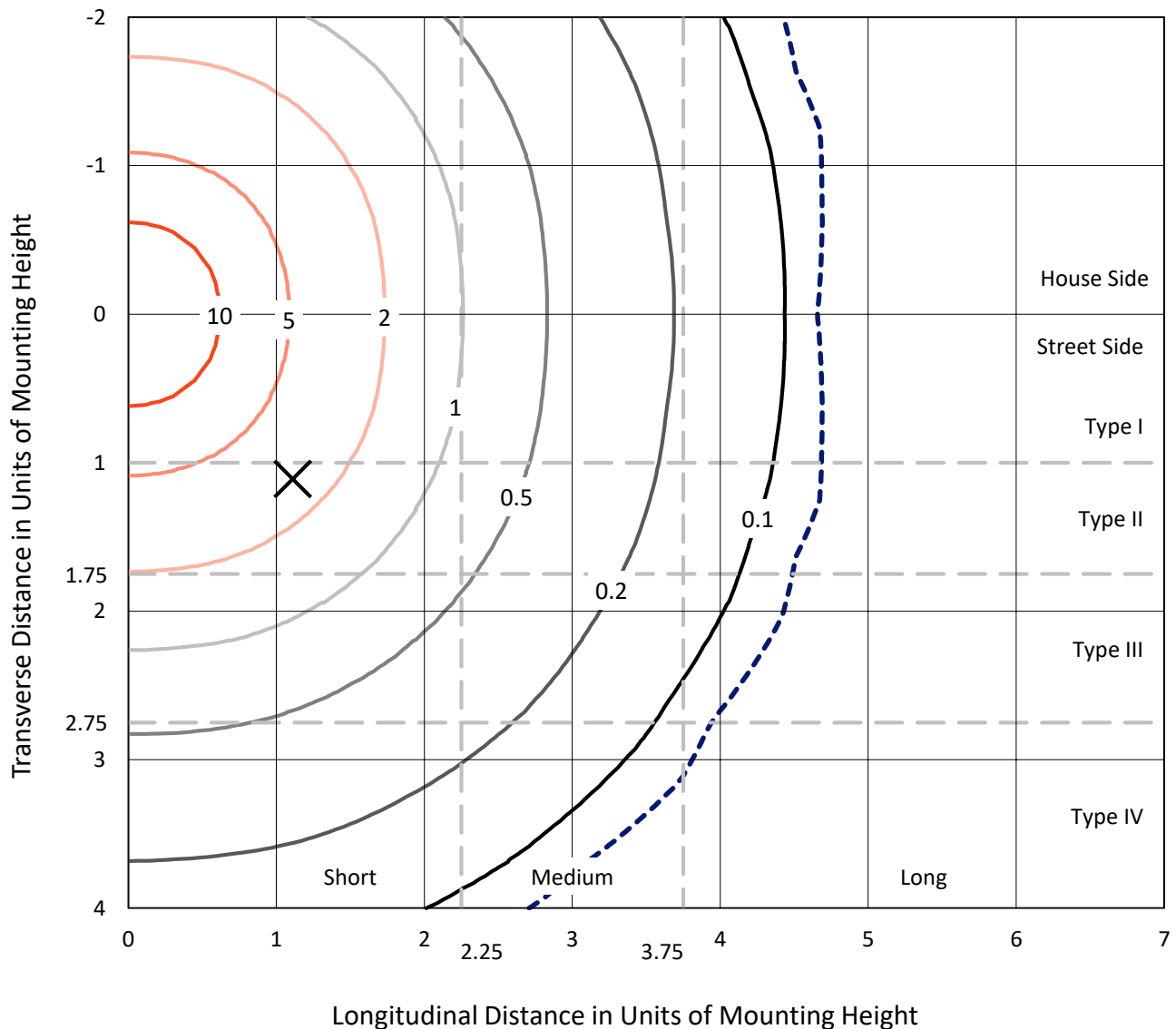


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

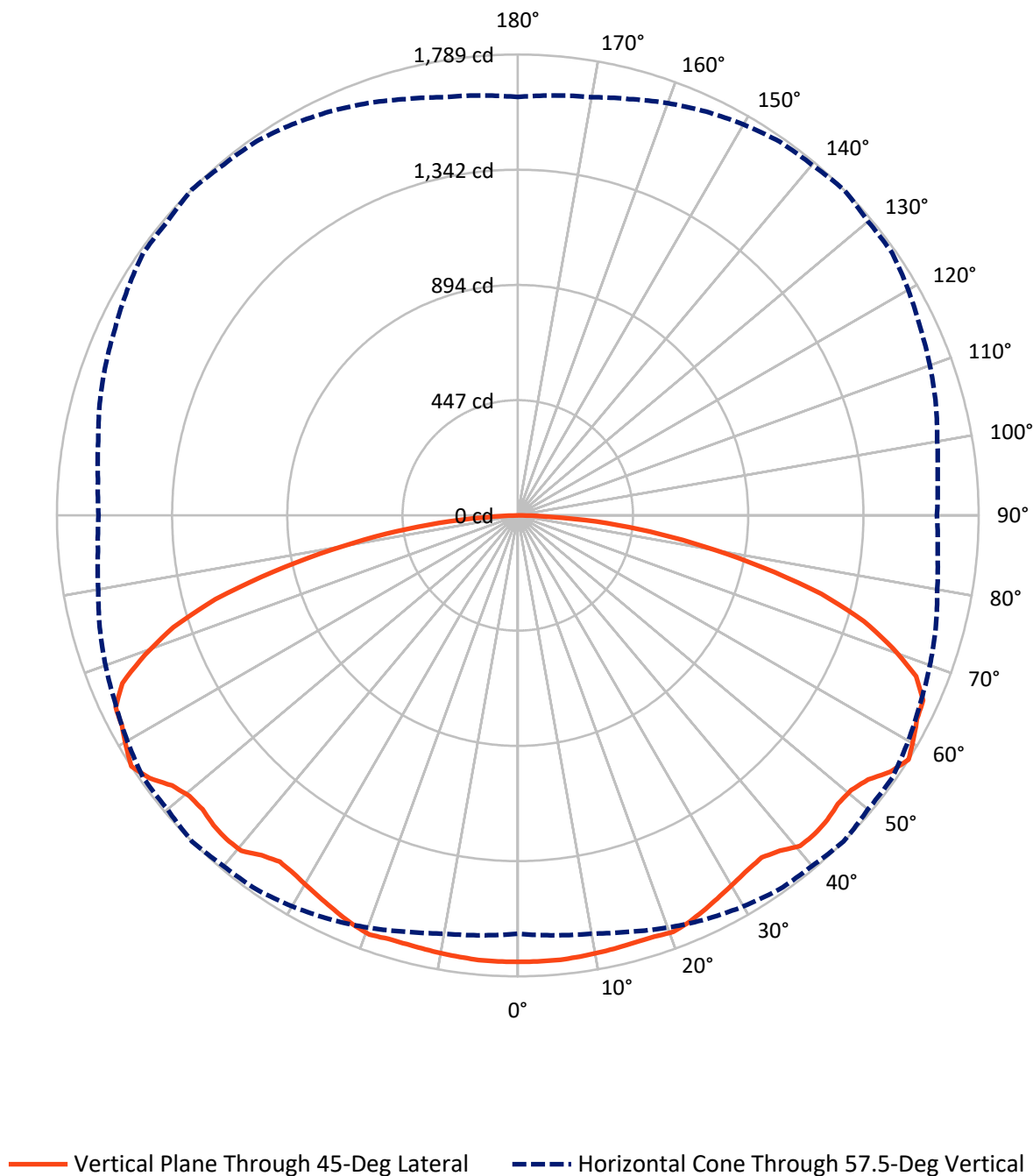


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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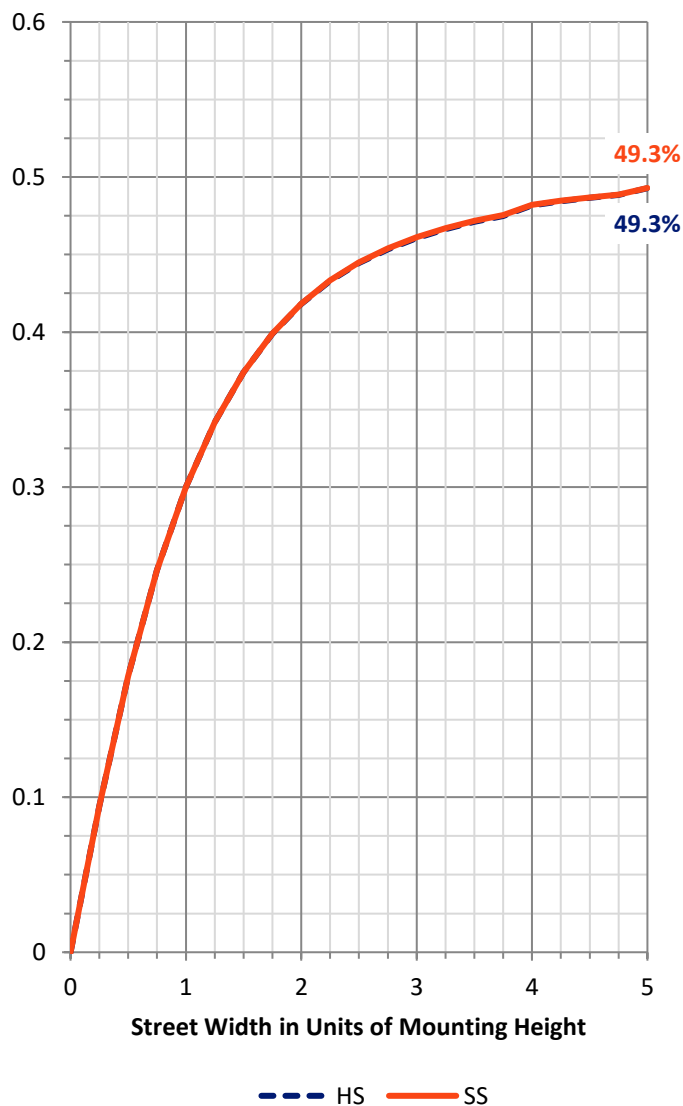
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4199.3	0.0	4199.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4199.3	0.0	4199.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8398.7	0.0	8398.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	2.0
10°-20°	486.9	5.8
20°-30°	779.9	9.3
30°-40°	1026.7	12.2
40°-50°	1278.8	15.2
50°-60°	1506.3	17.9
60°-70°	1601.4	19.1
70°-80°	1200.9	14.3
80°-90°	352.6	4.2
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°	8398.7	100.0
0°-180°	8398.7	100.0

Coefficient of Utilization



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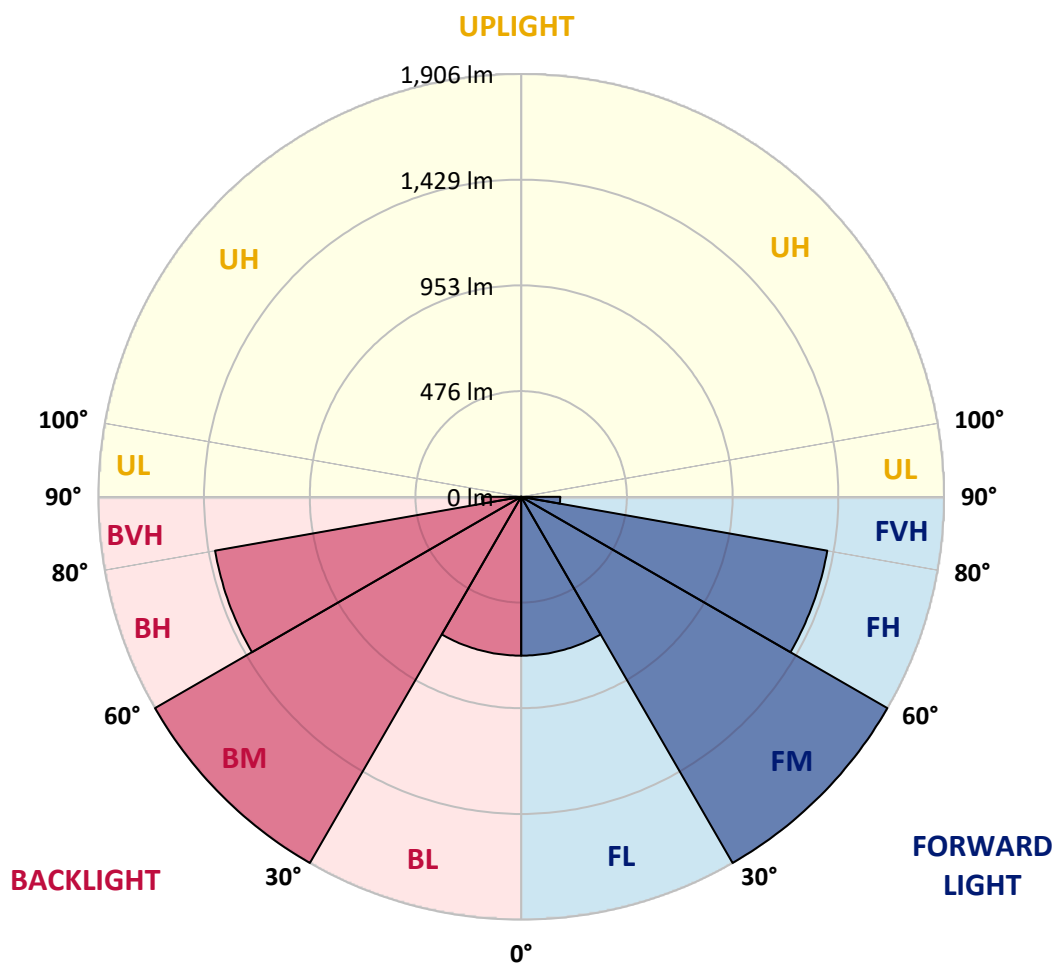
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.9	8.5			
FM	(30°-60°)	1905.9	22.7			
FH	(60°-80°)	1401.2	16.7			G1/1800
FVH	(80°-90°)	176.3	2.1			G2/225
BL	(0°-30°)	715.9	8.5	B2/1000		
BM	(30°-60°)	1905.9	22.7	B2/2500		
BH	(60°-80°)	1401.2	16.7	B3/2500		G1/1800
BVH	(80°-90°)	176.3	2.1			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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1730.7	1730.7	1730.7	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
5°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1732.4	1732.4	1732.4	1732.4	1732.4
7.5°	1727.2	1727.2	1727.2	1727.2	1727.2	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9
10°	1723.6	1723.6	1723.6	1723.6	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4
12.5°	1720.1	1720.1	1718.4	1720.1	1720.1	1720.1	1721.9	1721.9	1721.9	1721.9	1721.9
15°	1713.1	1713.1	1714.8	1714.8	1716.6	1716.6	1716.6	1716.6	1718.4	1718.4	1718.4
17.5°	1709.6	1709.6	1711.3	1713.1	1713.1	1714.8	1716.6	1716.6	1718.4	1718.4	1718.4
20°	1714.8	1714.8	1714.8	1716.6	1718.4	1720.1	1721.9	1723.6	1723.6	1725.4	1723.6
22.5°	1704.3	1704.3	1704.3	1706.0	1706.0	1706.0	1707.8	1709.6	1709.6	1711.3	1709.6
25°	1684.9	1684.9	1686.7	1686.7	1688.5	1688.5	1690.2	1690.2	1690.2	1692.0	1692.0
27.5°	1665.6	1663.8	1667.4	1667.4	1669.1	1669.1	1670.9	1672.6	1672.6	1672.6	1674.4
30°	1644.5	1644.5	1646.3	1646.3	1648.0	1649.8	1651.5	1653.3	1653.3	1655.0	1655.0
32.5°	1621.6	1623.4	1625.1	1626.9	1628.7	1632.2	1633.9	1635.7	1637.5	1639.2	1637.5
35°	1605.8	1607.6	1609.3	1612.8	1618.1	1621.6	1625.1	1628.7	1630.4	1630.4	1630.4
37.5°	1609.3	1611.1	1614.6	1621.6	1630.4	1635.7	1642.7	1648.0	1649.8	1651.5	1651.5
40°	1628.7	1632.2	1637.5	1646.3	1656.8	1665.6	1676.1	1681.4	1684.9	1686.7	1684.9
42.5°	1626.9	1632.2	1637.5	1648.0	1660.3	1669.1	1679.7	1684.9	1688.5	1690.2	1688.5
45°	1621.6	1625.1	1630.4	1641.0	1649.8	1662.1	1672.6	1677.9	1683.2	1684.9	1683.2
47.5°	1609.3	1609.3	1611.1	1621.6	1633.9	1649.8	1658.6	1667.4	1672.6	1672.6	1672.6
50°	1593.5	1600.5	1604.0	1618.1	1630.4	1644.5	1660.3	1672.6	1674.4	1676.1	1674.4
52.5°	1593.5	1595.2	1607.6	1616.4	1641.0	1662.1	1677.9	1690.2	1700.8	1702.5	1702.5
55°	1621.6	1625.1	1632.2	1653.3	1672.6	1704.3	1730.7	1741.2	1748.3	1755.3	1748.3
57.5°	1623.4	1635.7	1648.0	1672.6	1702.5	1728.9	1751.8	1771.1	1776.4	1788.7	1774.6
60°	1602.3	1605.8	1618.1	1648.0	1686.7	1714.8	1735.9	1753.5	1771.1	1764.1	1771.1
62.5°	1568.9	1577.7	1595.2	1618.1	1649.8	1683.2	1714.8	1720.1	1746.5	1739.5	1750.0
65°	1542.5	1549.5	1567.1	1600.5	1639.2	1660.3	1695.5	1716.6	1714.8	1728.9	1713.1
67.5°	1477.4	1482.7	1498.5	1531.9	1568.9	1600.5	1611.1	1644.5	1648.0	1667.4	1649.8
70°	1370.1	1382.4	1405.3	1437.0	1466.9	1493.2	1512.6	1530.2	1540.7	1544.2	1540.7
72.5°	1236.4	1255.8	1273.4	1303.3	1333.2	1350.8	1363.1	1387.7	1394.7	1405.3	1401.8
75°	1099.3	1099.3	1116.8	1139.7	1162.6	1173.1	1180.2	1196.0	1204.8	1217.1	1206.5
77.5°	911.1	921.6	937.4	956.8	953.3	958.6	958.6	967.3	963.8	972.6	979.7
80°	714.1	724.6	738.7	752.8	751.0	738.7	747.5	736.9	733.4	735.2	740.5
82.5°	510.1	517.1	529.4	538.2	538.2	529.4	532.9	522.4	525.9	517.1	524.1
85°	292.0	300.8	309.6	318.3	318.3	313.1	318.3	304.3	306.0	306.0	306.0
87.5°	72.1	79.1	82.7	87.9	84.4	93.2	98.5	89.7	91.5	87.9	93.2
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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1732.4	1730.7	1732.4	1732.4	1732.4	1732.4	1730.7	1730.7
5°	1732.4	1732.4	1732.4	1730.7	1730.7	1730.7	1730.7	1730.7
7.5°	1728.9	1728.9	1728.9	1727.2	1727.2	1727.2	1727.2	1727.2
10°	1725.4	1725.4	1723.6	1723.6	1723.6	1723.6	1723.6	1723.6
12.5°	1721.9	1721.9	1720.1	1720.1	1720.1	1720.1	1720.1	1718.4
15°	1718.4	1718.4	1716.6	1716.6	1714.8	1714.8	1713.1	1713.1
17.5°	1718.4	1716.6	1714.8	1713.1	1713.1	1711.3	1709.6	1709.6
20°	1723.6	1721.9	1720.1	1718.4	1716.6	1714.8	1714.8	1713.1
22.5°	1709.6	1707.8	1706.0	1706.0	1704.3	1704.3	1704.3	1702.5
25°	1692.0	1690.2	1690.2	1686.7	1686.7	1684.9	1684.9	1683.2
27.5°	1672.6	1670.9	1670.9	1669.1	1667.4	1665.6	1663.8	1663.8
30°	1653.3	1651.5	1651.5	1649.8	1646.3	1646.3	1644.5	1642.7
32.5°	1635.7	1635.7	1633.9	1630.4	1626.9	1625.1	1621.6	1621.6
35°	1630.4	1626.9	1623.4	1618.1	1612.8	1609.3	1607.6	1605.8
37.5°	1649.8	1644.5	1635.7	1630.4	1623.4	1616.4	1612.8	1609.3
40°	1683.2	1674.4	1665.6	1656.8	1646.3	1637.5	1630.4	1628.7
42.5°	1684.9	1679.7	1670.9	1660.3	1648.0	1637.5	1630.4	1628.7
45°	1679.7	1672.6	1662.1	1649.8	1641.0	1628.7	1623.4	1621.6
47.5°	1667.4	1660.3	1649.8	1632.2	1619.9	1611.1	1609.3	1609.3
50°	1674.4	1660.3	1642.7	1632.2	1619.9	1605.8	1600.5	1597.0
52.5°	1690.2	1676.1	1665.6	1642.7	1616.4	1604.0	1597.0	1591.7
55°	1741.2	1734.2	1702.5	1670.9	1651.5	1635.7	1628.7	1625.1
57.5°	1774.6	1750.0	1723.6	1702.5	1679.7	1653.3	1635.7	1626.9
60°	1757.1	1730.7	1718.4	1690.2	1642.7	1614.6	1604.0	1598.8
62.5°	1718.4	1718.4	1684.9	1641.0	1623.4	1598.8	1579.4	1572.4
65°	1716.6	1693.7	1660.3	1644.5	1602.3	1565.3	1546.0	1542.5
67.5°	1642.7	1611.1	1602.3	1567.1	1531.9	1498.5	1484.4	1477.4
70°	1530.2	1519.6	1493.2	1470.4	1438.7	1403.5	1384.2	1377.2
72.5°	1387.7	1370.1	1357.8	1338.5	1308.6	1264.6	1248.8	1240.0
75°	1194.2	1185.4	1185.4	1164.3	1136.2	1109.8	1108.1	1104.5
77.5°	960.3	963.8	972.6	949.8	958.6	944.5	932.2	923.4
80°	729.9	745.7	747.5	752.8	758.0	738.7	729.9	719.4
82.5°	518.9	527.6	538.2	540.0	543.5	529.4	522.4	511.8
85°	306.0	311.3	320.1	320.1	320.1	307.8	304.3	295.5
87.5°	89.7	89.7	95.0	89.7	89.7	89.7	80.9	86.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)