

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: P197601

Luminaire Tested: **TT-C6-LED-E1-MQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197601
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-C6-LED-E1-MQ-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8236.8 lumens
Efficiency: N/A
Efficacy: 76.3 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): 108
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

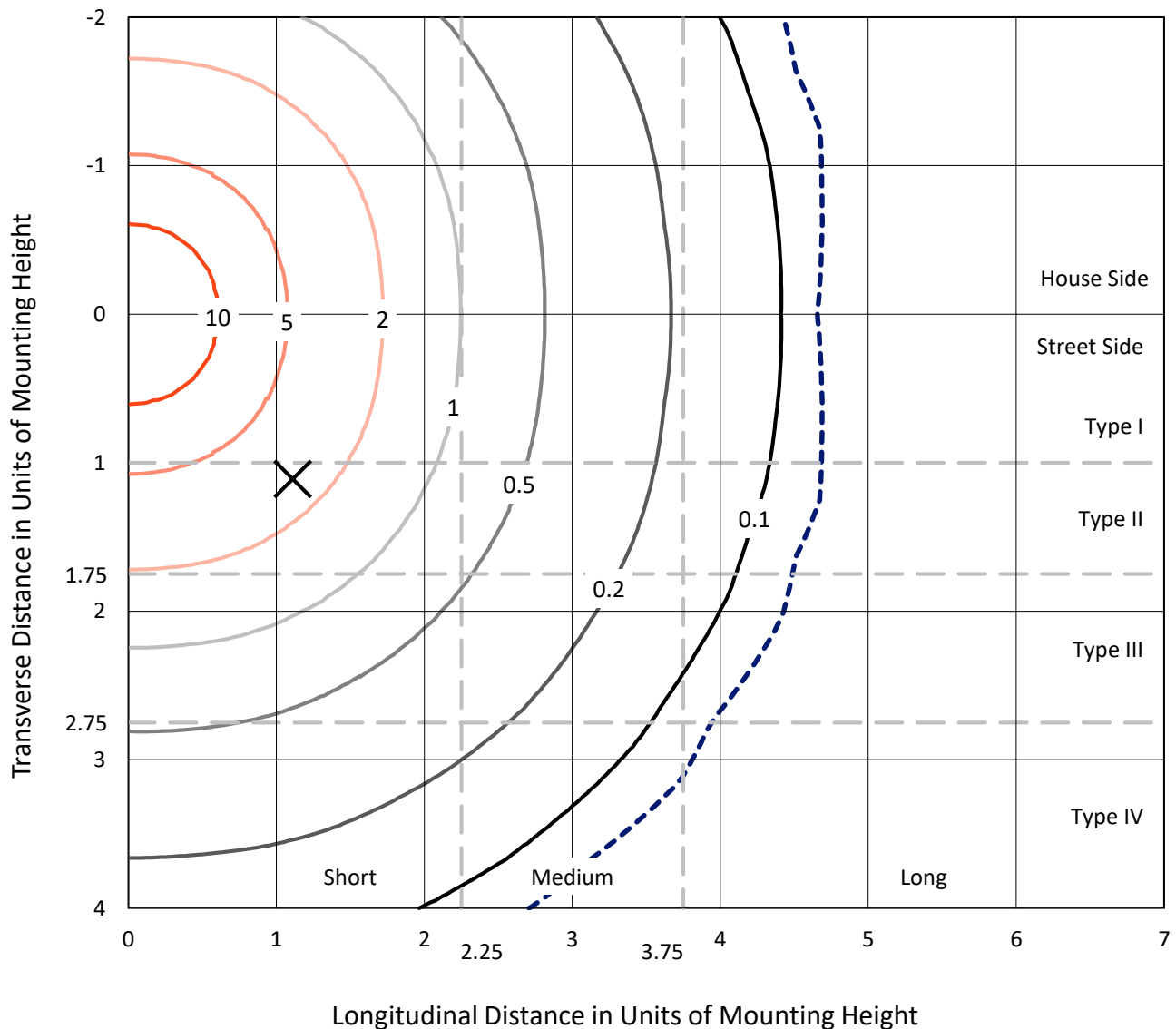


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

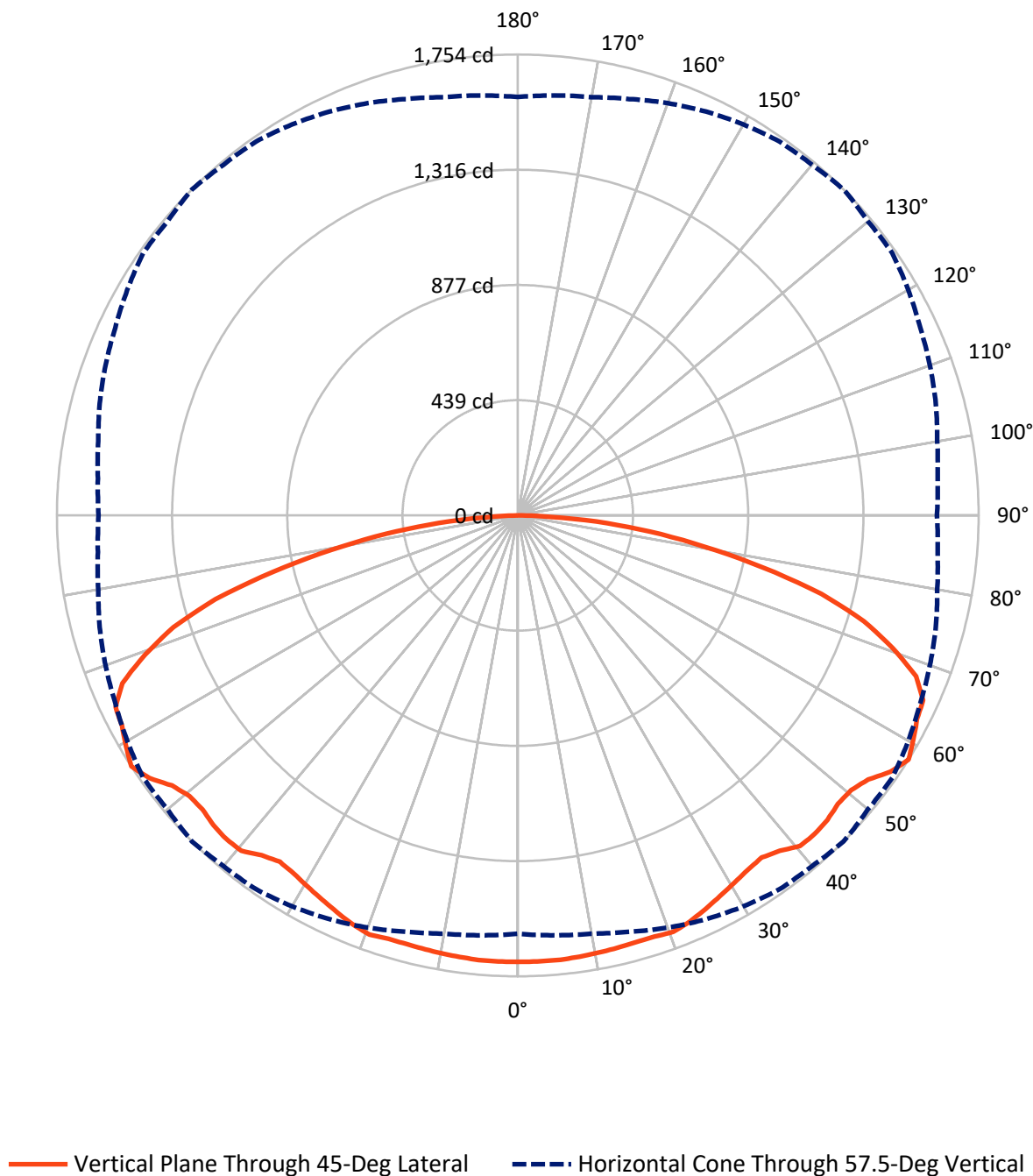


Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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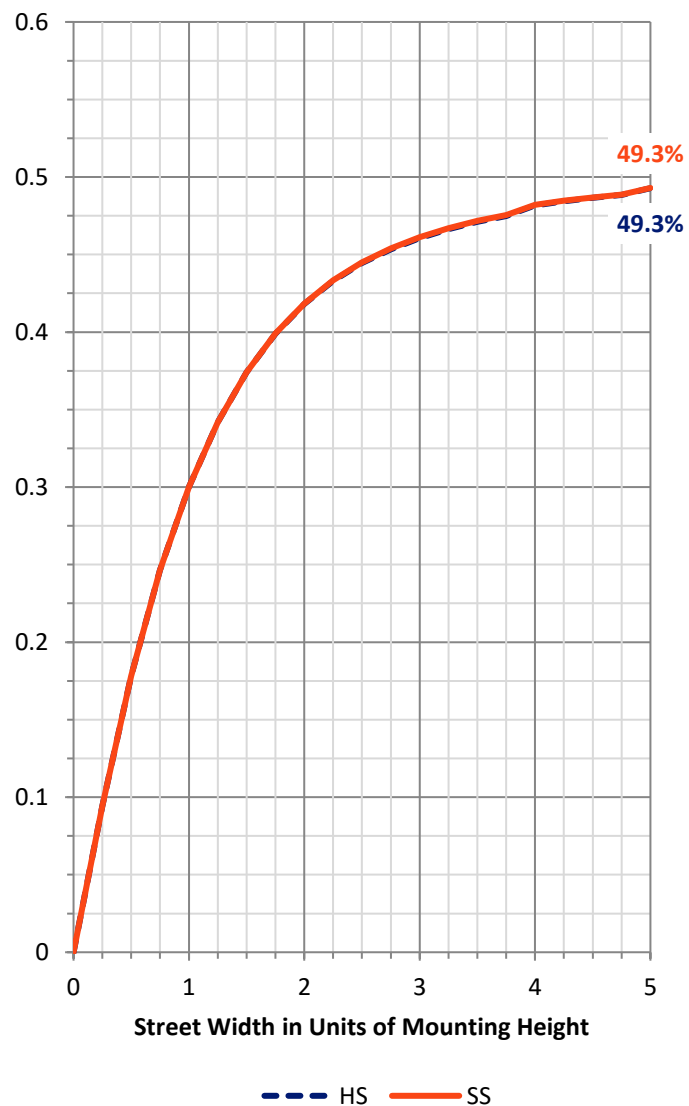
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4118.4	0.0	4118.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4118.4	0.0	4118.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8236.8	0.0	8236.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	2.0
10°-20°	477.6	5.8
20°-30°	764.9	9.3
30°-40°	1006.9	12.2
40°-50°	1254.1	15.2
50°-60°	1477.3	17.9
60°-70°	1570.5	19.1
70°-80°	1177.8	14.3
80°-90°	345.8	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°	8236.8	100.0
0°-180°	8236.8	100.0

Coefficient of Utilization



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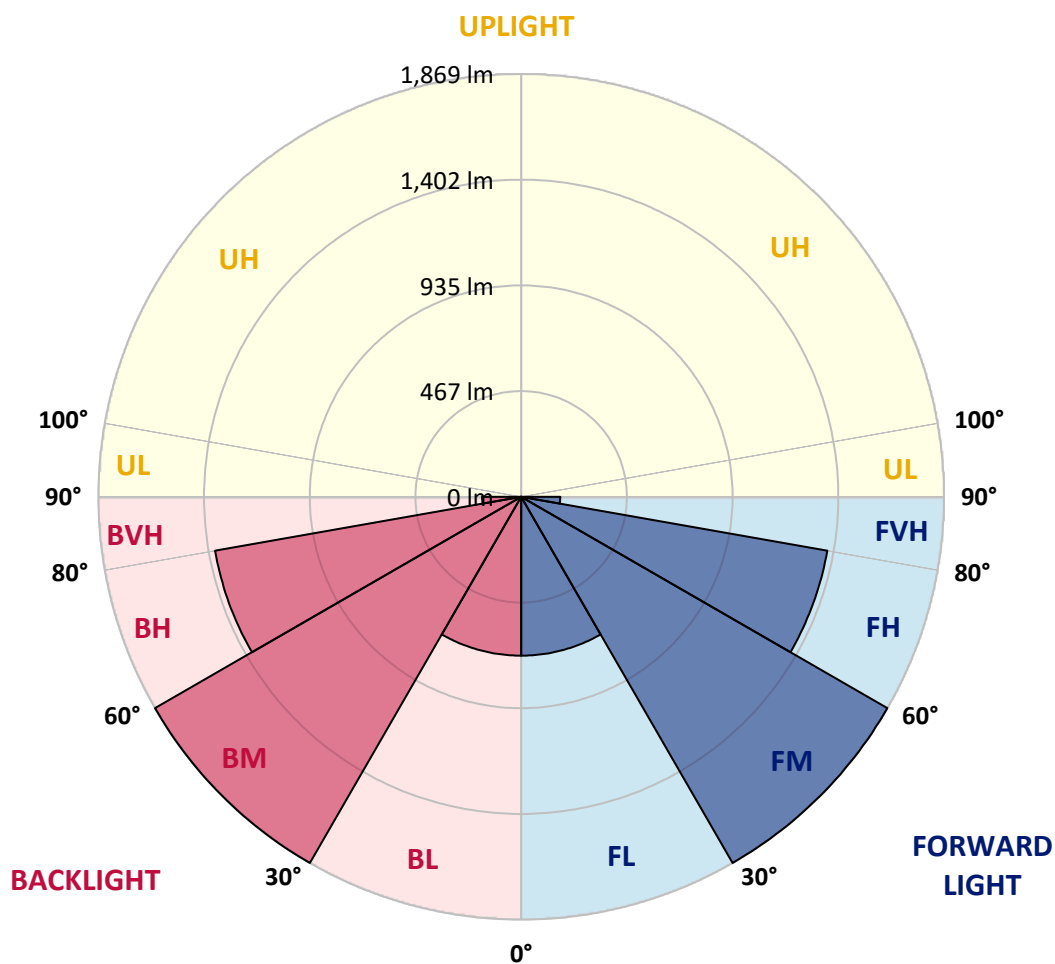
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	702.1	8.5			
FM	(30°-60°)	1869.2	22.7			
FH	(60°-80°)	1374.2	16.7			G1/1800
FVH	(80°-90°)	172.9	2.1			G2/225
BL	(0°-30°)	702.1	8.5	B2/1000		
BM	(30°-60°)	1869.2	22.7	B2/2500		
BH	(60°-80°)	1374.2	16.7	B3/2500		G1/1800
BVH	(80°-90°)	172.9	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°	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
2.5°	1697.3	1697.3	1697.3	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
5°	1697.3	1697.3	1697.3	1697.3	1697.3	1697.3	1699.0	1699.0	1699.0	1699.0	1699.0
7.5°	1693.9	1693.9	1693.9	1693.9	1693.9	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
10°	1690.4	1690.4	1690.4	1690.4	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1	1692.1
12.5°	1687.0	1687.0	1685.2	1687.0	1687.0	1687.0	1688.7	1688.7	1688.7	1688.7	1688.7
15°	1680.1	1680.1	1681.8	1681.8	1683.5	1683.5	1683.5	1683.5	1685.2	1685.2	1685.2
17.5°	1676.6	1676.6	1678.3	1680.1	1680.1	1681.8	1683.5	1683.5	1685.2	1685.2	1685.2
20°	1681.8	1681.8	1681.8	1683.5	1685.2	1687.0	1688.7	1690.4	1690.4	1692.1	1690.4
22.5°	1671.4	1671.4	1671.4	1673.2	1673.2	1673.2	1674.9	1676.6	1676.6	1678.3	1676.6
25°	1652.5	1652.5	1654.2	1654.2	1655.9	1655.9	1657.6	1657.6	1657.6	1659.4	1659.4
27.5°	1633.5	1631.8	1635.2	1635.2	1636.9	1636.9	1638.7	1640.4	1640.4	1640.4	1642.1
30°	1612.8	1612.8	1614.5	1614.5	1616.2	1618.0	1619.7	1621.4	1621.4	1623.1	1623.1
32.5°	1590.4	1592.1	1593.8	1595.5	1597.3	1600.7	1602.4	1604.2	1605.9	1607.6	1605.9
35°	1574.8	1576.6	1578.3	1581.7	1586.9	1590.4	1593.8	1597.3	1599.0	1599.0	1599.0
37.5°	1578.3	1580.0	1583.5	1590.4	1599.0	1604.2	1611.1	1616.2	1618.0	1619.7	1619.7
40°	1597.3	1600.7	1605.9	1614.5	1624.9	1633.5	1643.8	1649.0	1652.5	1654.2	1652.5
42.5°	1595.5	1600.7	1605.9	1616.2	1628.3	1636.9	1647.3	1652.5	1655.9	1657.6	1655.9
45°	1590.4	1593.8	1599.0	1609.3	1618.0	1630.0	1640.4	1645.6	1650.7	1652.5	1650.7
47.5°	1578.3	1578.3	1580.0	1590.4	1602.4	1618.0	1626.6	1635.2	1640.4	1640.4	1640.4
50°	1562.8	1569.7	1573.1	1586.9	1599.0	1612.8	1628.3	1640.4	1642.1	1643.8	1642.1
52.5°	1562.8	1564.5	1576.6	1585.2	1609.3	1630.0	1645.6	1657.6	1668.0	1669.7	1669.7
55°	1590.4	1593.8	1600.7	1621.4	1640.4	1671.4	1697.3	1707.7	1714.6	1721.5	1714.6
57.5°	1592.1	1604.2	1616.2	1640.4	1669.7	1695.6	1718.0	1737.0	1742.2	1754.2	1740.4
60°	1571.4	1574.8	1586.9	1616.2	1654.2	1681.8	1702.5	1719.7	1737.0	1730.1	1737.0
62.5°	1538.6	1547.2	1564.5	1586.9	1618.0	1650.7	1681.8	1687.0	1712.8	1705.9	1716.3
65°	1512.7	1519.6	1536.9	1569.7	1607.6	1628.3	1662.8	1683.5	1681.8	1695.6	1680.1
67.5°	1448.9	1454.1	1469.6	1502.4	1538.6	1569.7	1580.0	1612.8	1616.2	1635.2	1618.0
70°	1343.7	1355.8	1378.2	1409.3	1438.6	1464.4	1483.4	1500.7	1511.0	1514.5	1511.0
72.5°	1212.6	1231.6	1248.8	1278.2	1307.5	1324.7	1336.8	1361.0	1367.9	1378.2	1374.8
75°	1078.1	1078.1	1095.3	1117.7	1140.2	1150.5	1157.4	1172.9	1181.6	1193.6	1183.3
77.5°	893.5	903.9	919.4	938.4	934.9	940.1	940.1	948.7	945.3	953.9	960.8
80°	700.3	710.7	724.5	738.3	736.5	724.5	733.1	722.7	719.3	721.0	726.2
82.5°	500.2	507.1	519.2	527.8	527.8	519.2	522.6	512.3	515.7	507.1	514.0
85°	286.3	295.0	303.6	312.2	312.2	307.0	312.2	298.4	300.1	300.1	300.1
87.5°	70.7	77.6	81.1	86.2	82.8	91.4	96.6	88.0	89.7	86.2	91.4
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°	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0	1699.0
2.5°	1699.0	1697.3	1699.0	1699.0	1699.0	1699.0	1697.3	1697.3
5°	1699.0	1699.0	1699.0	1697.3	1697.3	1697.3	1697.3	1697.3
7.5°	1695.6	1695.6	1695.6	1693.9	1693.9	1693.9	1693.9	1693.9
10°	1692.1	1692.1	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4
12.5°	1688.7	1688.7	1687.0	1687.0	1687.0	1687.0	1687.0	1685.2
15°	1685.2	1685.2	1683.5	1683.5	1681.8	1681.8	1680.1	1680.1
17.5°	1685.2	1683.5	1681.8	1680.1	1680.1	1678.3	1676.6	1676.6
20°	1690.4	1688.7	1687.0	1685.2	1683.5	1681.8	1681.8	1680.1
22.5°	1676.6	1674.9	1673.2	1673.2	1671.4	1671.4	1671.4	1669.7
25°	1659.4	1657.6	1657.6	1654.2	1654.2	1652.5	1652.5	1650.7
27.5°	1640.4	1638.7	1638.7	1636.9	1635.2	1633.5	1631.8	1631.8
30°	1621.4	1619.7	1619.7	1618.0	1614.5	1614.5	1612.8	1611.1
32.5°	1604.2	1604.2	1602.4	1599.0	1595.5	1593.8	1590.4	1590.4
35°	1599.0	1595.5	1592.1	1586.9	1581.7	1578.3	1576.6	1574.8
37.5°	1618.0	1612.8	1604.2	1599.0	1592.1	1585.2	1581.7	1578.3
40°	1650.7	1642.1	1633.5	1624.9	1614.5	1605.9	1599.0	1597.3
42.5°	1652.5	1647.3	1638.7	1628.3	1616.2	1605.9	1599.0	1597.3
45°	1647.3	1640.4	1630.0	1618.0	1609.3	1597.3	1592.1	1590.4
47.5°	1635.2	1628.3	1618.0	1600.7	1588.6	1580.0	1578.3	1578.3
50°	1642.1	1628.3	1611.1	1600.7	1588.6	1574.8	1569.7	1566.2
52.5°	1657.6	1643.8	1633.5	1611.1	1585.2	1573.1	1566.2	1561.0
55°	1707.7	1700.8	1669.7	1638.7	1619.7	1604.2	1597.3	1593.8
57.5°	1740.4	1716.3	1690.4	1669.7	1647.3	1621.4	1604.2	1595.5
60°	1723.2	1697.3	1685.2	1657.6	1611.1	1583.5	1573.1	1567.9
62.5°	1685.2	1685.2	1652.5	1609.3	1592.1	1567.9	1549.0	1542.1
65°	1683.5	1661.1	1628.3	1612.8	1571.4	1535.2	1516.2	1512.7
67.5°	1611.1	1580.0	1571.4	1536.9	1502.4	1469.6	1455.8	1448.9
70°	1500.7	1490.3	1464.4	1442.0	1411.0	1376.5	1357.5	1350.6
72.5°	1361.0	1343.7	1331.6	1312.7	1283.3	1240.2	1224.7	1216.1
75°	1171.2	1162.6	1162.6	1141.9	1114.3	1088.4	1086.7	1083.2
77.5°	941.8	945.3	953.9	931.5	940.1	926.3	914.2	905.6
80°	715.8	731.4	733.1	738.3	743.4	724.5	715.8	705.5
82.5°	508.8	517.5	527.8	529.5	533.0	519.2	512.3	501.9
85°	300.1	305.3	313.9	313.9	313.9	301.9	298.4	289.8
87.5°	88.0	88.0	93.1	88.0	88.0	88.0	79.3	84.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)