

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: P197696

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
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-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8193.1 lumens
Efficiency: N/A
Efficacy: 106.4 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

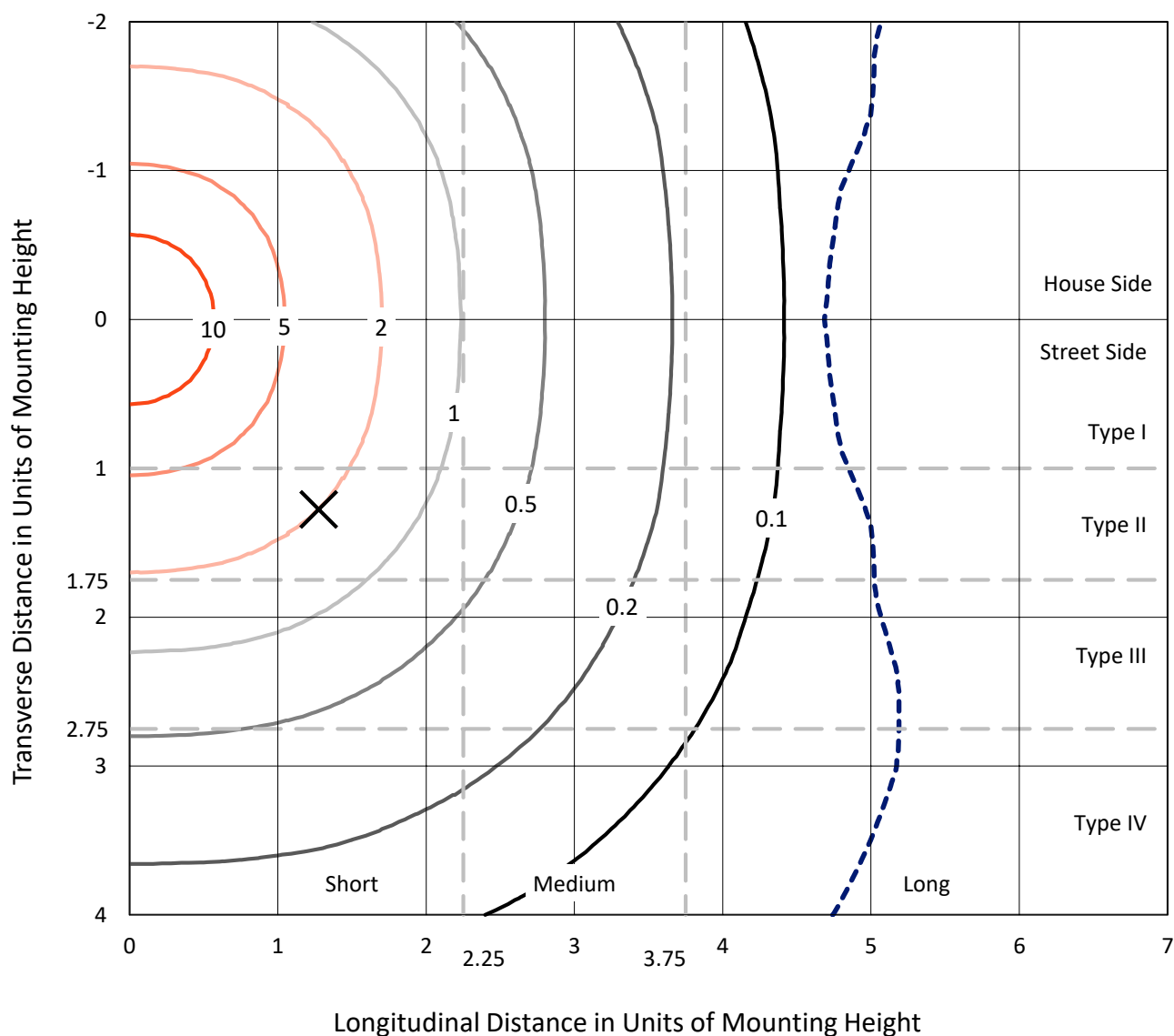


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

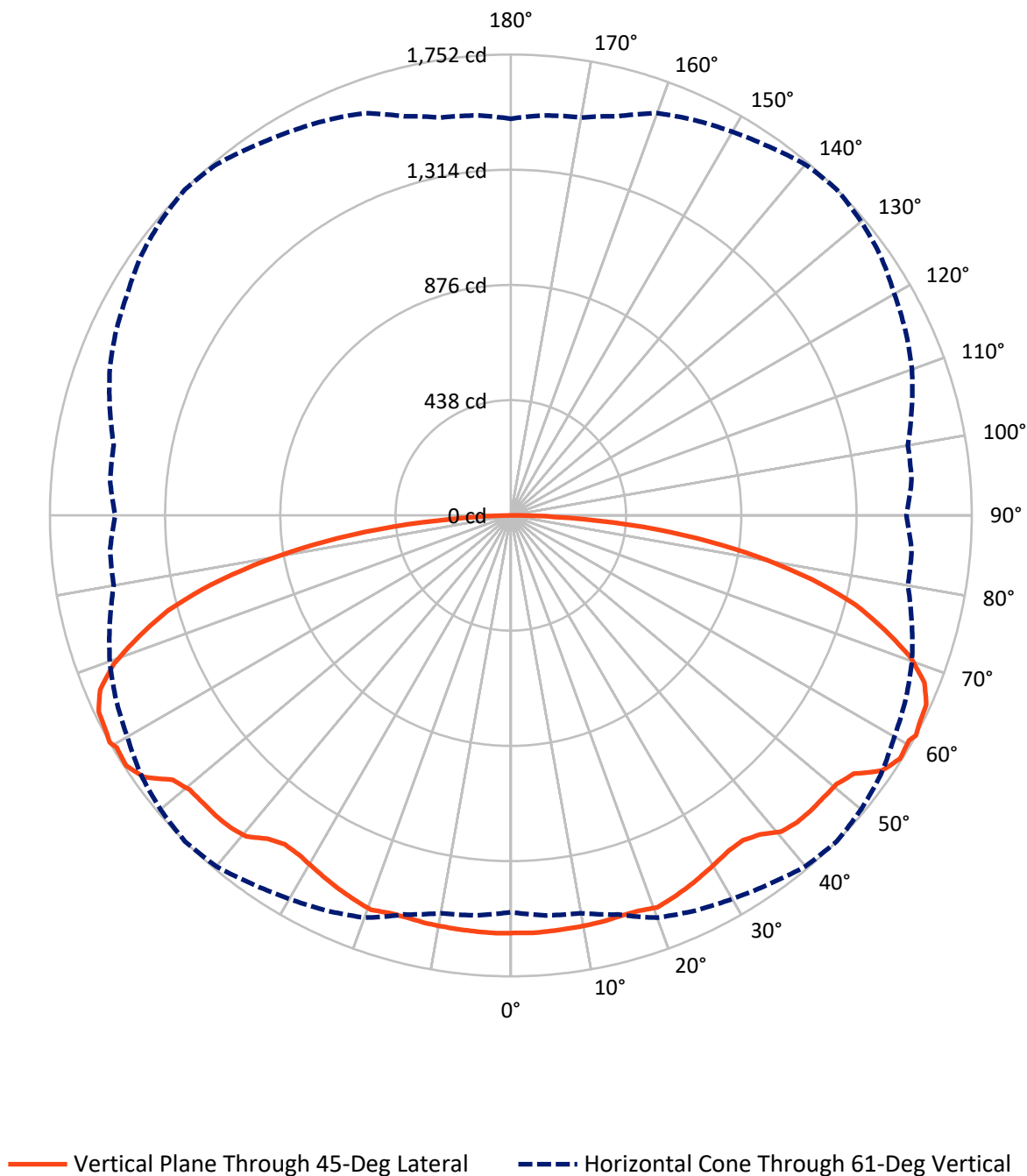


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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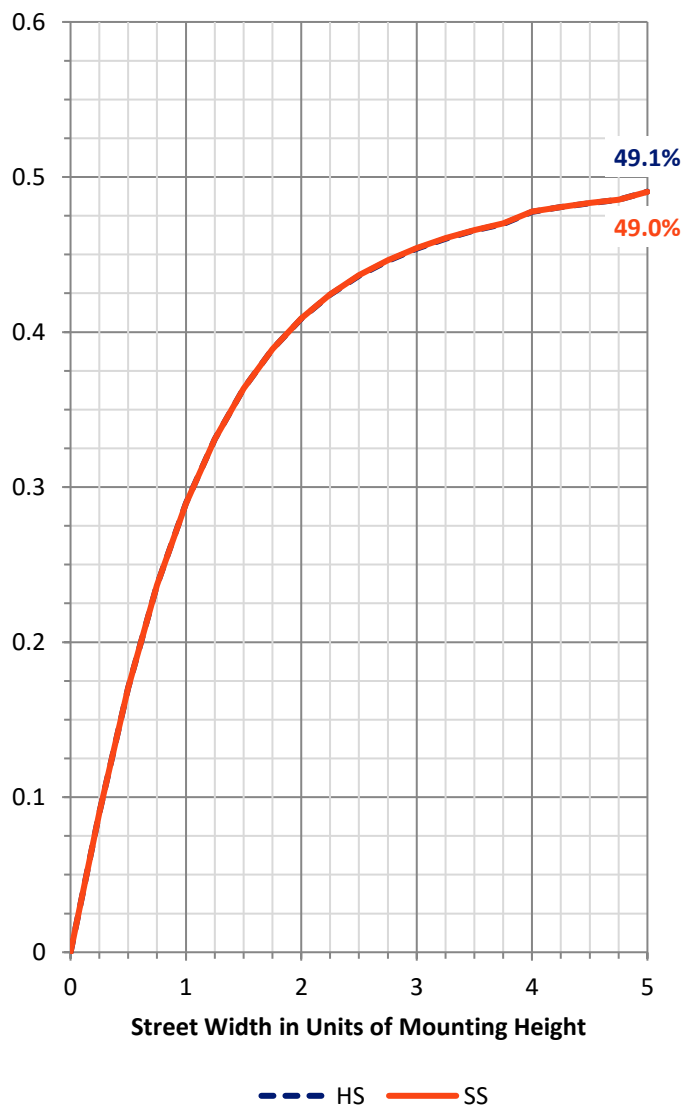
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4096.5	0.0	4096.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4096.5	0.0	4096.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8193.1	0.0	8193.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.8
10°-20°	447.7	5.5
20°-30°	720.4	8.8
30°-40°	954.3	11.6
40°-50°	1205.1	14.7
50°-60°	1443.9	17.6
60°-70°	1578.8	19.3
70°-80°	1263.9	15.4
80°-90°	427.6	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°	8193.1	100.0
0°-180°	8193.1	100.0

Coefficient of Utilization



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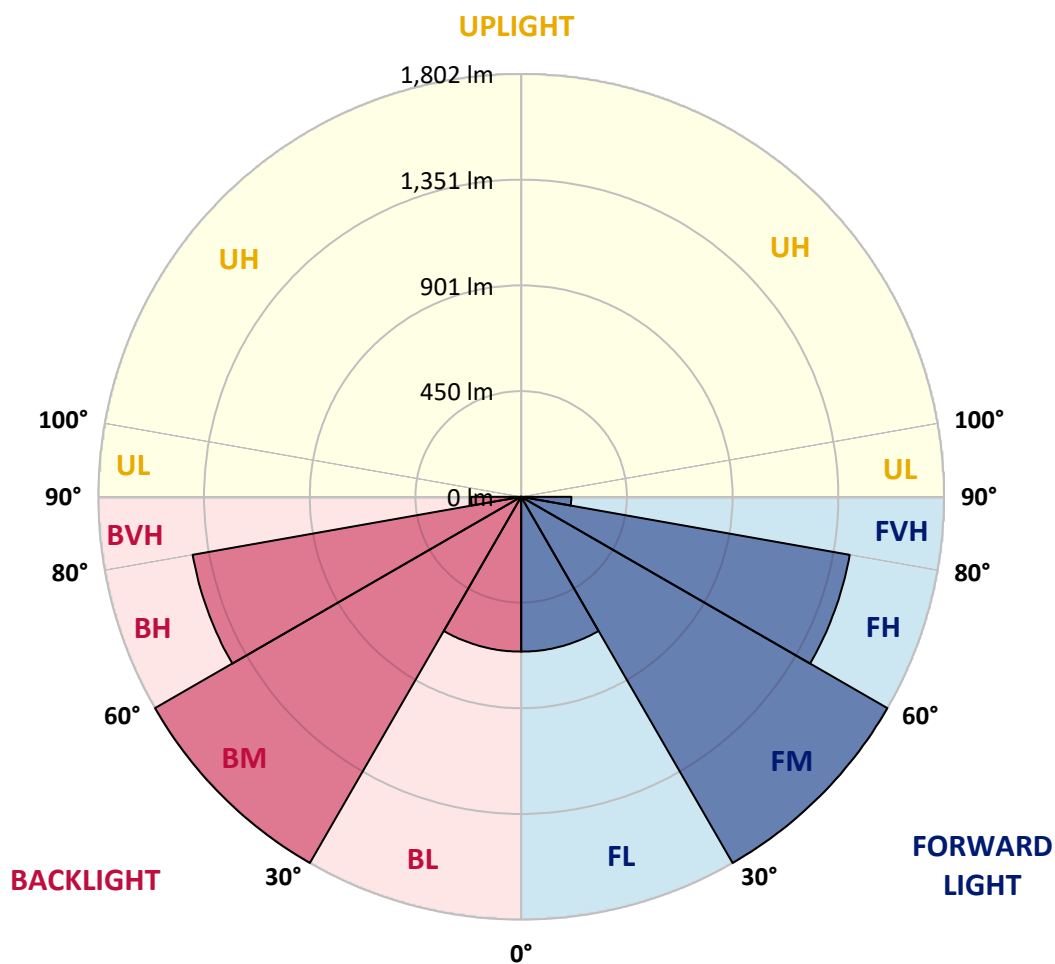
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	659.7	8.1			
FM	(30°-60°)	1801.6	22.0			
FH	(60°-80°)	1421.3	17.3			G1/1800
FVH	(80°-90°)	213.8	2.6			G2/225
BL	(0°-30°)	659.7	8.1	B2/1000		
BM	(30°-60°)	1801.6	22.0	B2/2500		
BH	(60°-80°)	1421.3	17.3	B3/2500		G1/1800
BVH	(80°-90°)	213.8	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°	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3
2.5°	1588.9	1587.3	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9
5°	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3
7.5°	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1587.3	1585.7	1587.3
10°	1582.8	1582.8	1582.8	1582.8	1584.3	1584.3	1584.3	1584.3	1584.3	1584.3	1584.3
12.5°	1579.8	1579.8	1579.8	1579.8	1581.2	1581.2	1581.2	1581.2	1582.8	1582.8	1581.2
15°	1576.6	1575.2	1575.2	1576.6	1576.6	1578.2	1578.2	1578.2	1579.8	1578.2	1578.2
17.5°	1573.6	1572.0	1573.6	1575.2	1575.2	1576.6	1578.2	1578.2	1579.8	1579.8	1579.8
20°	1578.2	1576.6	1578.2	1579.8	1581.2	1584.3	1585.7	1587.3	1588.9	1590.5	1590.5
22.5°	1569.0	1567.5	1569.0	1569.0	1570.6	1572.0	1575.2	1576.6	1578.2	1578.2	1578.2
25°	1555.3	1555.3	1556.9	1556.9	1558.3	1559.9	1561.5	1562.9	1562.9	1564.5	1562.9
27.5°	1540.0	1540.0	1541.6	1541.6	1544.6	1544.6	1546.2	1547.8	1549.2	1549.2	1549.2
30°	1521.7	1521.7	1523.3	1524.7	1527.9	1529.3	1530.9	1532.5	1533.9	1533.9	1533.9
32.5°	1505.0	1503.4	1505.0	1508.0	1512.6	1515.6	1518.7	1520.1	1520.1	1520.1	1521.7
35°	1491.1	1492.7	1495.7	1498.9	1505.0	1508.0	1511.0	1515.6	1517.2	1517.2	1517.2
37.5°	1494.3	1495.7	1500.4	1506.4	1514.2	1523.3	1529.3	1535.4	1540.0	1538.4	1537.0
40°	1514.2	1517.2	1524.7	1533.9	1546.2	1558.3	1567.5	1575.2	1579.8	1581.2	1579.8
42.5°	1517.2	1520.1	1526.3	1540.0	1553.7	1567.5	1579.8	1587.3	1593.5	1595.1	1593.5
45°	1515.6	1515.6	1524.7	1540.0	1553.7	1567.5	1582.8	1593.5	1599.6	1599.6	1599.6
47.5°	1505.0	1509.6	1515.6	1530.9	1549.2	1562.9	1578.2	1588.9	1596.5	1601.1	1596.5
50°	1505.0	1505.0	1515.6	1526.3	1543.0	1567.5	1588.9	1599.6	1607.2	1605.6	1607.2
52.5°	1501.9	1511.0	1517.2	1532.5	1562.9	1587.3	1604.2	1619.3	1630.1	1631.7	1628.5
55°	1529.3	1530.9	1544.6	1573.6	1602.6	1630.1	1660.7	1683.5	1701.8	1712.6	1697.3
57.5°	1550.7	1543.0	1570.6	1595.1	1628.5	1669.8	1715.5	1733.8	1747.6	1744.6	1749.1
60°	1521.7	1532.5	1552.3	1578.2	1631.7	1672.8	1697.3	1717.1	1733.8	1738.4	1732.4
61°	1508.0	1526.3	1535.4	1570.6	1627.1	1657.5	1683.5	1711.0	1741.6	1752.1	1738.4
62.5°	1485.1	1514.2	1511.0	1567.5	1602.6	1637.8	1686.5	1718.5	1740.0	1743.0	1740.0
65°	1486.6	1482.0	1517.2	1558.3	1593.5	1656.1	1697.3	1717.1	1729.3	1735.4	1732.4
67.5°	1437.8	1422.5	1465.3	1494.3	1553.7	1602.6	1642.4	1671.2	1689.7	1695.7	1688.1
70°	1324.9	1335.5	1366.1	1410.4	1459.1	1518.7	1555.3	1593.5	1608.8	1610.2	1610.2
72.5°	1216.4	1222.6	1253.2	1294.3	1350.8	1402.7	1439.2	1469.8	1483.6	1485.1	1488.1
75°	1073.1	1079.0	1114.2	1152.4	1208.8	1253.2	1279.0	1315.6	1335.5	1352.4	1338.6
77.5°	906.7	917.2	944.8	986.0	1037.9	1062.3	1108.1	1150.8	1164.5	1169.1	1164.5
80°	718.8	732.5	757.0	812.0	834.9	874.7	918.8	937.1	949.4	952.4	954.0
82.5°	517.4	528.2	554.0	592.2	618.2	650.2	680.7	703.7	717.4	714.3	712.8
85°	305.3	308.3	335.8	361.8	381.7	401.4	425.8	442.7	445.7	451.8	450.3
87.5°	91.6	93.0	105.4	119.1	128.2	137.4	152.7	172.5	177.1	164.8	166.4
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°	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3
2.5°	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1587.3	1588.9
5°	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3	1587.3
7.5°	1587.3	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7
10°	1584.3	1584.3	1584.3	1584.3	1582.8	1582.8	1582.8	1582.8
12.5°	1581.2	1581.2	1581.2	1581.2	1579.8	1579.8	1579.8	1579.8
15°	1578.2	1578.2	1578.2	1578.2	1576.6	1576.6	1576.6	1576.6
17.5°	1579.8	1578.2	1576.6	1576.6	1575.2	1573.6	1573.6	1573.6
20°	1588.9	1587.3	1584.3	1581.2	1579.8	1578.2	1578.2	1578.2
22.5°	1576.6	1575.2	1572.0	1570.6	1570.6	1569.0	1567.5	1567.5
25°	1562.9	1559.9	1559.9	1558.3	1558.3	1555.3	1555.3	1553.7
27.5°	1547.8	1546.2	1544.6	1543.0	1543.0	1541.6	1540.0	1538.4
30°	1533.9	1530.9	1527.9	1526.3	1524.7	1523.3	1523.3	1523.3
32.5°	1520.1	1517.2	1515.6	1511.0	1508.0	1506.4	1505.0	1505.0
35°	1515.6	1511.0	1508.0	1503.4	1498.9	1495.7	1494.3	1491.1
37.5°	1533.9	1527.9	1523.3	1515.6	1505.0	1500.4	1495.7	1494.3
40°	1573.6	1567.5	1558.3	1546.2	1533.9	1524.7	1517.2	1514.2
42.5°	1587.3	1579.8	1567.5	1555.3	1540.0	1526.3	1520.1	1517.2
45°	1591.9	1584.3	1567.5	1552.3	1538.4	1526.3	1517.2	1514.2
47.5°	1587.3	1576.6	1561.5	1549.2	1529.3	1514.2	1508.0	1503.4
50°	1598.1	1588.9	1569.0	1541.6	1524.7	1515.6	1505.0	1503.4
52.5°	1619.3	1602.6	1584.3	1564.5	1532.5	1514.2	1508.0	1500.4
55°	1683.5	1660.7	1628.5	1596.5	1576.6	1547.8	1529.3	1529.3
57.5°	1732.4	1714.0	1672.8	1630.1	1593.5	1572.0	1544.6	1546.2
60°	1718.5	1694.3	1674.4	1631.7	1579.8	1550.7	1540.0	1520.1
61°	1717.1	1683.5	1656.1	1622.5	1578.2	1532.5	1529.3	1503.4
62.5°	1720.1	1689.7	1637.8	1602.6	1569.0	1509.6	1508.0	1483.6
65°	1717.1	1688.1	1662.1	1596.5	1550.7	1526.3	1474.4	1494.3
67.5°	1669.8	1643.8	1596.5	1559.9	1489.7	1459.1	1430.1	1430.1
70°	1595.1	1556.9	1511.0	1465.3	1418.0	1366.1	1340.0	1324.9
72.5°	1469.8	1437.8	1401.1	1352.4	1294.3	1247.0	1222.6	1211.8
75°	1312.6	1277.6	1245.4	1208.8	1147.8	1108.1	1082.2	1074.5
77.5°	1147.8	1117.2	1060.7	1025.7	984.4	938.7	915.8	906.7
80°	937.1	920.4	880.6	824.2	804.3	747.8	732.5	718.8
82.5°	703.7	685.2	648.7	609.1	584.6	552.4	525.0	522.0
85°	442.7	430.4	407.5	378.5	348.1	329.6	305.3	311.3
87.5°	164.8	157.2	143.5	125.2	111.3	99.2	87.1	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)