

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: INVUE

Report Number: P148686

Luminaire Tested: **VXM-F03-LED-E1-RW-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148686
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-F03-LED-E1-RW-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7938.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 78.3
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

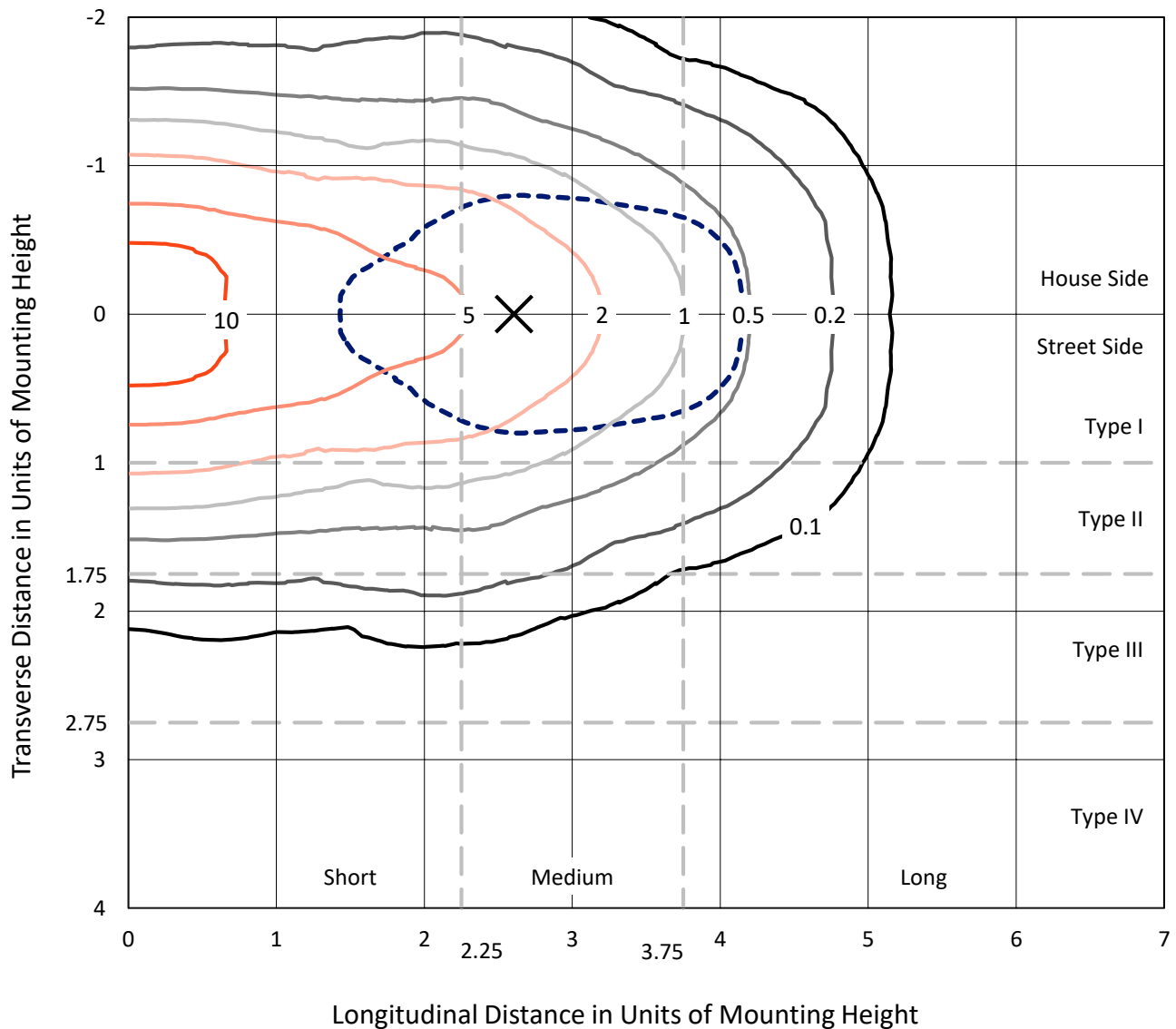


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

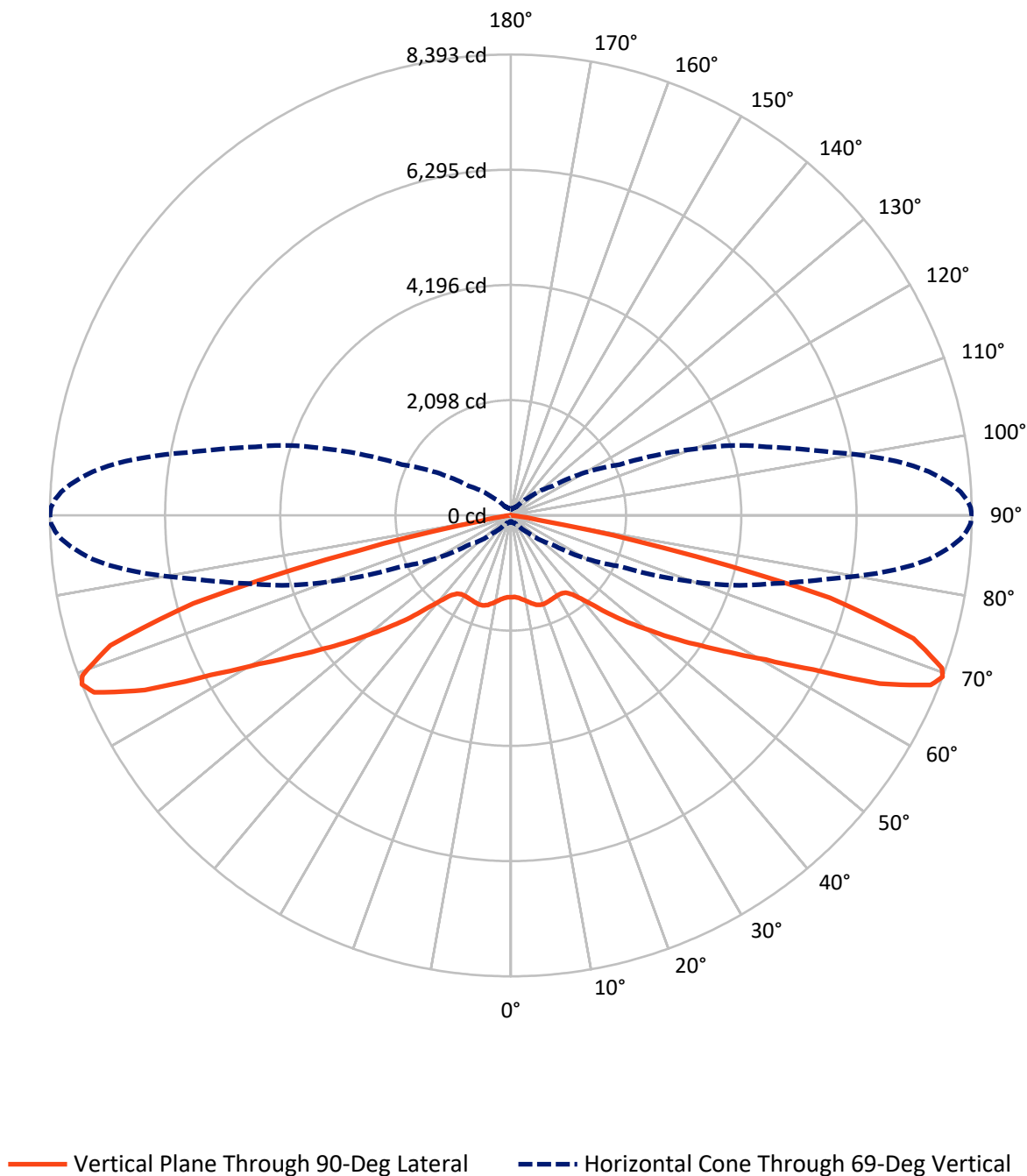


Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3969.3	0.0	3969.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3969.3	0.0	3969.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7938.6	0.0	7938.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.8
10°-20°	460.3	5.8
20°-30°	745.7	9.4
30°-40°	929.3	11.7
40°-50°	1161.3	14.6
50°-60°	1433.9	18.1
60°-70°	1781.7	22.4
70°-80°	1182.8	14.9
80°-90°	97.7	1.2
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°	7938.6	100.0
0°-180°	7938.6	100.0

Coefficient of Utilization



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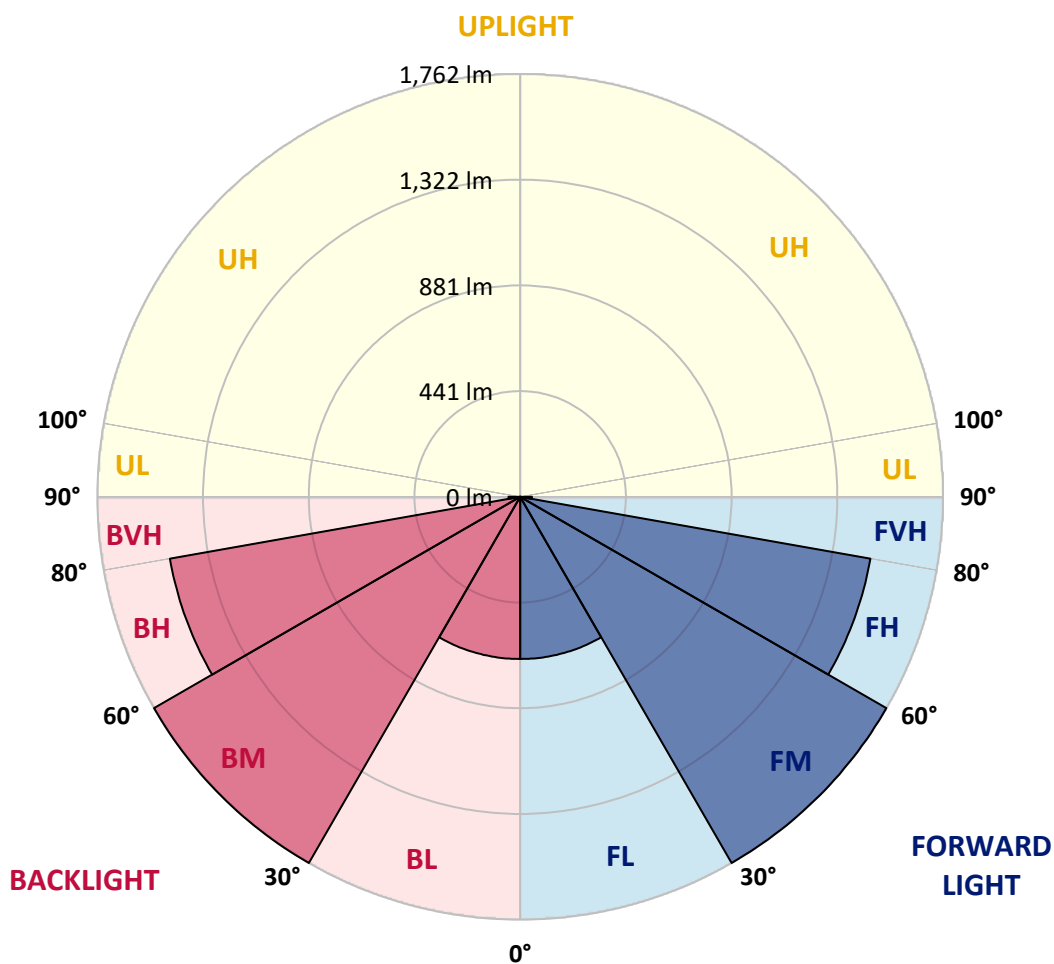
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.9	8.5			
FM	(30°-60°)	1762.3	22.2			
FH	(60°-80°)	1482.3	18.7			G1/1800
FVH	(80°-90°)	48.8	0.6			G1/100
BL	(0°-30°)	675.9	8.5	B2/1000		
BM	(30°-60°)	1762.3	22.2	B2/2500		
BH	(60°-80°)	1482.3	18.7	B3/2500		G3/2500
BVH	(80°-90°)	48.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1494.2	1495.5	1494.6	1496.4	1495.9	1495.9	1495.0	1493.4	1493.2	1493.0	1492.8
5°	1508.6	1507.0	1509.5	1512.1	1511.2	1511.6	1511.2	1511.2	1511.0	1510.8	1510.6
7.5°	1523.9	1523.4	1525.2	1531.9	1532.8	1535.4	1538.3	1540.4	1540.5	1540.6	1540.7
10°	1537.0	1537.4	1541.7	1551.4	1556.5	1564.6	1572.6	1579.0	1579.4	1579.9	1580.3
12.5°	1547.6	1548.0	1554.4	1569.6	1581.9	1597.2	1614.5	1624.3	1625.1	1626.0	1626.8
15°	1548.4	1549.7	1560.8	1585.8	1610.3	1635.2	1656.0	1669.2	1669.8	1670.5	1671.2
17.5°	1537.4	1538.3	1557.0	1593.8	1634.8	1673.8	1695.4	1701.4	1701.6	1701.9	1702.1
20°	1508.6	1510.8	1537.0	1591.6	1654.4	1705.2	1727.6	1719.6	1718.7	1717.9	1717.1
22.5°	1462.0	1461.6	1496.0	1569.6	1658.2	1729.8	1749.6	1728.5	1726.0	1723.5	1721.0
25°	1386.7	1391.8	1431.9	1520.1	1636.6	1735.2	1765.3	1733.1	1729.5	1725.9	1722.3
27.5°	1304.9	1307.8	1350.6	1445.1	1586.2	1716.2	1772.9	1742.4	1738.4	1734.4	1730.4
30°	1209.6	1213.4	1259.2	1357.8	1505.3	1667.0	1770.8	1763.6	1758.9	1754.2	1749.5
32.5°	1116.4	1120.7	1161.8	1269.8	1420.1	1599.8	1758.2	1793.6	1788.8	1784.0	1779.2
35°	1019.9	1026.2	1076.2	1185.4	1338.0	1524.8	1738.6	1832.2	1829.5	1826.9	1824.2
37.5°	939.8	941.1	989.4	1104.2	1261.8	1453.2	1712.8	1881.0	1882.9	1884.8	1886.8
40°	850.4	858.5	906.8	1027.9	1192.6	1392.6	1688.2	1947.0	1957.2	1967.3	1977.4
42.5°	770.4	771.3	820.4	945.4	1117.7	1343.9	1674.7	2026.6	2048.2	2069.9	2091.5
45°	686.1	689.5	734.0	854.7	1031.4	1286.3	1674.2	2118.6	2153.1	2187.7	2222.2
47.5°	606.5	607.8	654.8	767.1	932.2	1205.8	1671.3	2217.2	2264.3	2311.3	2358.4
50°	530.2	529.0	575.2	683.2	834.4	1100.4	1645.4	2329.0	2388.4	2447.9	2507.3
52.5°	443.0	449.0	496.8	600.2	745.4	993.2	1570.0	2451.4	2522.5	2593.6	2664.6
55°	357.4	360.0	411.2	507.8	655.2	893.2	1438.8	2564.1	2647.9	2731.7	2815.4
57.5°	263.4	271.0	316.0	411.2	563.7	808.9	1271.9	2622.6	2724.5	2826.4	2928.4
60°	186.0	191.9	231.7	311.7	463.4	720.4	1128.3	2590.0	2722.4	2854.9	2987.4
62.5°	144.8	149.5	181.3	233.4	361.2	632.0	1025.4	2484.4	2664.7	2845.0	3025.2
65°	127.1	131.2	160.1	186.8	269.8	541.7	969.0	2373.1	2611.4	2849.7	3087.9
67.5°	114.8	119.8	144.8	163.5	219.8	472.7	954.2	2302.8	2572.6	2842.5	3112.4
69°	109.2	114.4	136.8	152.4	204.1	448.1	928.8	2192.2	2460.6	2728.9	2997.2
70°	105.8	110.2	130.8	147.0	199.0	431.2	886.4	2054.1	2317.6	2581.1	2844.6
72.5°	98.3	100.4	118.6	134.2	184.7	348.6	681.9	1525.6	1754.0	1982.4	2210.8
75°	86.8	89.4	106.3	121.6	144.0	216.4	431.6	943.6	1114.2	1284.7	1455.2
77.5°	74.9	77.1	91.9	116.0	111.8	135.1	257.9	525.2	624.1	723.0	821.9
80°	60.2	62.7	75.8	115.2	92.3	105.0	185.5	367.2	393.9	420.6	447.2
82.5°	44.0	46.2	59.3	93.1	70.7	79.2	141.4	311.3	320.6	329.8	339.1
85°	22.5	22.9	37.7	56.8	44.9	41.1	79.6	213.0	219.0	224.9	230.8
87.5°	3.8	3.8	8.5	9.8	11.0	6.8	10.2	36.4	37.6	38.7	39.9
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1492.5	1492.3	1491.6	1491.7	1492.3	1492.0	1492.6	1492.6	1493.1	1491.5	1491.2
5°	1510.5	1510.3	1510.2	1510.1	1510.5	1510.4	1510.8	1511.4	1511.3	1510.3	1510.1
7.5°	1540.7	1540.8	1541.2	1540.8	1541.7	1541.3	1540.4	1541.8	1542.7	1542.8	1543.7
10°	1580.8	1581.3	1582.8	1582.5	1584.0	1583.8	1584.0	1585.4	1586.5	1586.6	1587.7
12.5°	1627.7	1628.5	1629.3	1630.0	1631.6	1630.7	1632.8	1633.6	1634.8	1637.4	1636.2
15°	1671.8	1672.5	1674.8	1675.0	1676.4	1677.0	1678.9	1679.7	1680.0	1682.1	1682.4
17.5°	1702.4	1702.6	1703.5	1703.0	1704.3	1703.9	1705.2	1705.8	1706.9	1708.0	1710.0
20°	1716.3	1715.5	1715.1	1714.6	1713.7	1712.4	1712.8	1713.4	1713.5	1714.6	1716.0
22.5°	1718.5	1716.0	1713.4	1711.7	1709.1	1706.9	1704.8	1704.9	1705.1	1704.8	1705.9
25°	1718.7	1715.1	1711.1	1706.2	1702.6	1697.8	1693.7	1693.4	1692.2	1692.3	1692.8
27.5°	1726.3	1722.3	1716.7	1711.0	1703.3	1696.8	1690.4	1688.0	1685.8	1684.3	1683.7
30°	1744.8	1740.1	1733.4	1726.2	1717.8	1707.7	1698.4	1695.5	1692.2	1689.3	1686.9
32.5°	1774.4	1769.5	1762.1	1754.6	1743.4	1733.4	1724.2	1719.6	1714.9	1709.8	1705.2
35°	1821.5	1818.8	1812.3	1805.7	1797.5	1789.6	1781.4	1776.1	1768.4	1764.3	1758.7
37.5°	1888.7	1890.7	1890.7	1891.5	1889.0	1885.2	1879.2	1873.8	1871.2	1860.6	1853.8
40°	1987.5	1997.6	2006.9	2014.0	2020.3	2026.6	2032.2	2028.9	2029.9	2027.1	2023.1
42.5°	2113.2	2134.8	2154.6	2174.4	2188.7	2211.0	2226.6	2231.5	2244.0	2248.9	2258.0
45°	2256.8	2291.4	2324.5	2355.2	2383.7	2415.7	2446.8	2469.9	2495.1	2523.8	2552.4
47.5°	2405.4	2452.5	2501.4	2541.4	2582.7	2629.9	2671.2	2706.0	2751.4	2793.5	2839.7
50°	2566.7	2626.1	2681.8	2731.2	2784.4	2838.8	2895.4	2946.5	3007.8	3075.1	3147.8
52.5°	2735.7	2806.8	2871.2	2933.2	2995.5	3057.9	3118.1	3190.3	3266.0	3354.7	3445.6
55°	2899.2	2983.0	3056.1	3125.0	3196.4	3266.1	3328.2	3424.8	3517.7	3623.6	3742.3
57.5°	3030.3	3132.3	3216.6	3298.4	3378.9	3453.0	3529.3	3638.3	3756.7	3880.5	4031.1
60°	3119.9	3252.4	3360.0	3458.4	3557.1	3650.4	3738.2	3880.6	4021.4	4175.3	4362.7
62.5°	3205.5	3385.8	3526.2	3660.3	3793.6	3913.2	4022.4	4201.6	4385.5	4575.7	4798.6
65°	3326.2	3564.5	3771.3	3958.3	4142.7	4318.6	4481.8	4709.0	4941.2	5191.5	5457.6
67.5°	3382.3	3652.2	3921.5	4173.6	4407.8	4630.6	4840.2	5114.7	5388.0	5678.2	5999.8
69°	3265.5	3533.8	3821.8	4097.0	4355.8	4592.0	4819.0	5099.3	5383.4	5679.8	6004.1
70°	3108.1	3371.6	3662.2	3950.0	4197.4	4443.6	4678.8	4956.9	5244.8	5541.9	5881.4
72.5°	2439.2	2667.6	2951.1	3230.4	3478.7	3725.7	3954.2	4238.8	4528.5	4840.6	5162.1
75°	1625.7	1796.2	2007.4	2266.5	2494.1	2712.5	2933.9	3174.6	3457.2	3714.5	4008.6
77.5°	920.8	1019.7	1142.4	1310.8	1474.2	1604.9	1762.8	1876.0	2040.1	2181.7	2331.4
80°	473.9	500.6	537.2	577.6	600.7	597.0	620.5	597.3	602.4	583.5	563.2
82.5°	348.4	357.7	374.2	382.4	381.5	354.9	326.6	287.3	252.6	216.3	182.9
85°	236.7	242.6	246.8	253.1	251.3	239.8	214.3	180.2	146.9	117.8	94.3
87.5°	41.0	42.2	41.8	45.3	45.4	42.2	34.7	29.6	25.0	18.7	13.1
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1490.8	1490.8	1491.7	1490.8	1490.8	1490.8	1490.4	1491.3	1490.9	1489.6	1488.3
5°	1510.4	1509.1	1508.6	1509.5	1510.4	1508.6	1509.9	1511.2	1509.1	1509.5	1508.6
7.5°	1543.0	1542.5	1542.1	1543.0	1543.0	1542.6	1543.0	1541.7	1540.8	1542.1	1543.4
10°	1586.6	1586.1	1587.0	1587.0	1588.7	1587.8	1587.4	1588.7	1587.8	1587.0	1587.4
12.5°	1637.9	1636.6	1638.7	1638.6	1640.0	1640.0	1639.6	1640.0	1639.6	1638.2	1637.4
15°	1683.6	1681.8	1682.3	1685.7	1685.2	1686.1	1686.1	1685.2	1684.8	1684.4	1684.8
17.5°	1711.1	1710.2	1710.2	1711.9	1713.2	1712.8	1712.8	1712.8	1712.4	1712.8	1713.6
20°	1716.2	1716.2	1716.6	1718.3	1720.4	1719.1	1719.2	1720.0	1719.2	1720.0	1720.4
22.5°	1706.4	1707.2	1708.1	1710.2	1710.7	1710.7	1710.6	1711.1	1712.0	1712.0	1712.8
25°	1692.8	1693.8	1695.0	1696.7	1698.4	1698.4	1698.4	1699.2	1699.2	1699.6	1700.1
27.5°	1682.7	1683.6	1684.8	1686.6	1688.6	1688.6	1688.6	1689.5	1689.5	1689.9	1690.8
30°	1684.0	1682.3	1683.6	1684.4	1685.6	1685.6	1685.2	1685.7	1686.1	1686.2	1686.5
32.5°	1702.2	1698.4	1697.2	1696.7	1697.1	1695.8	1695.4	1694.6	1693.8	1693.7	1693.3
35°	1750.4	1744.6	1744.2	1740.8	1737.4	1734.0	1734.4	1731.8	1732.7	1730.6	1728.9
37.5°	1849.6	1842.8	1847.0	1839.8	1835.2	1831.8	1828.0	1822.9	1820.0	1823.8	1823.8
40°	2027.0	2022.4	2021.2	2022.4	2018.2	2020.2	2011.0	2008.4	2002.9	2006.7	2011.8
42.5°	2272.3	2269.4	2285.4	2288.4	2290.0	2292.6	2294.3	2280.4	2279.9	2277.0	2268.5
45°	2575.1	2592.9	2592.0	2611.6	2612.4	2606.4	2609.0	2602.6	2600.1	2590.8	2602.2
47.5°	2886.4	2920.2	2933.0	2937.2	2953.4	2957.1	2941.9	2936.8	2945.7	2930.4	2932.6
50°	3220.6	3257.0	3286.6	3306.6	3318.0	3318.8	3307.4	3304.9	3312.9	3284.1	3297.7
52.5°	3549.2	3604.3	3660.2	3689.8	3711.0	3712.8	3721.6	3711.0	3715.2	3708.5	3722.1
55°	3873.2	3968.6	4034.2	4092.2	4129.0	4160.8	4163.8	4175.2	4176.1	4190.1	4176.1
57.5°	4190.0	4293.8	4408.2	4511.1	4568.3	4604.3	4638.2	4684.3	4694.5	4689.0	4697.9
60°	4564.0	4724.6	4880.0	4998.6	5097.3	5191.8	5242.6	5315.0	5326.4	5357.8	5330.6
62.5°	5036.8	5269.6	5480.6	5640.2	5790.2	5937.2	6048.2	6104.0	6137.9	6203.5	6182.0
65°	5761.8	6041.4	6320.4	6549.2	6759.2	6934.2	7102.7	7183.2	7272.2	7365.3	7382.3
67.5°	6359.0	6705.0	7019.7	7298.4	7553.0	7747.4	7922.7	8062.0	8170.5	8239.1	8244.6
69°	6386.1	6745.6	7087.4	7386.5	7652.0	7858.8	8043.4	8198.4	8303.9	8374.2	8392.8
70°	6256.5	6624.6	6988.8	7290.8	7562.7	7774.1	7969.7	8117.5	8235.3	8306.8	8331.8
72.5°	5527.6	5920.6	6309.8	6574.6	6852.4	7104.0	7260.7	7411.5	7577.6	7599.1	7667.7
75°	4357.4	4687.7	4989.7	5192.2	5424.2	5650.0	5803.8	5843.6	5930.3	6039.6	6000.7
77.5°	2525.1	2626.8	2821.6	2871.6	2829.2	2927.5	2960.1	2890.6	2887.3	2951.2	2824.2
80°	559.5	527.7	567.6	537.9	538.7	539.6	530.7	527.3	533.7	527.3	518.4
82.5°	155.0	150.0	150.8	149.1	152.0	150.0	148.6	152.0	151.6	151.2	154.2
85°	74.6	73.7	72.4	72.0	70.3	68.2	64.8	64.8	66.5	64.0	65.2
87.5°	9.8	9.4	9.4	11.0	9.8	8.0	8.0	8.0	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)