

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: P180337

Luminaire Tested: **ICS-E03-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180337
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: ICS-E03-LED-E1-RW-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7704.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 75.2
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

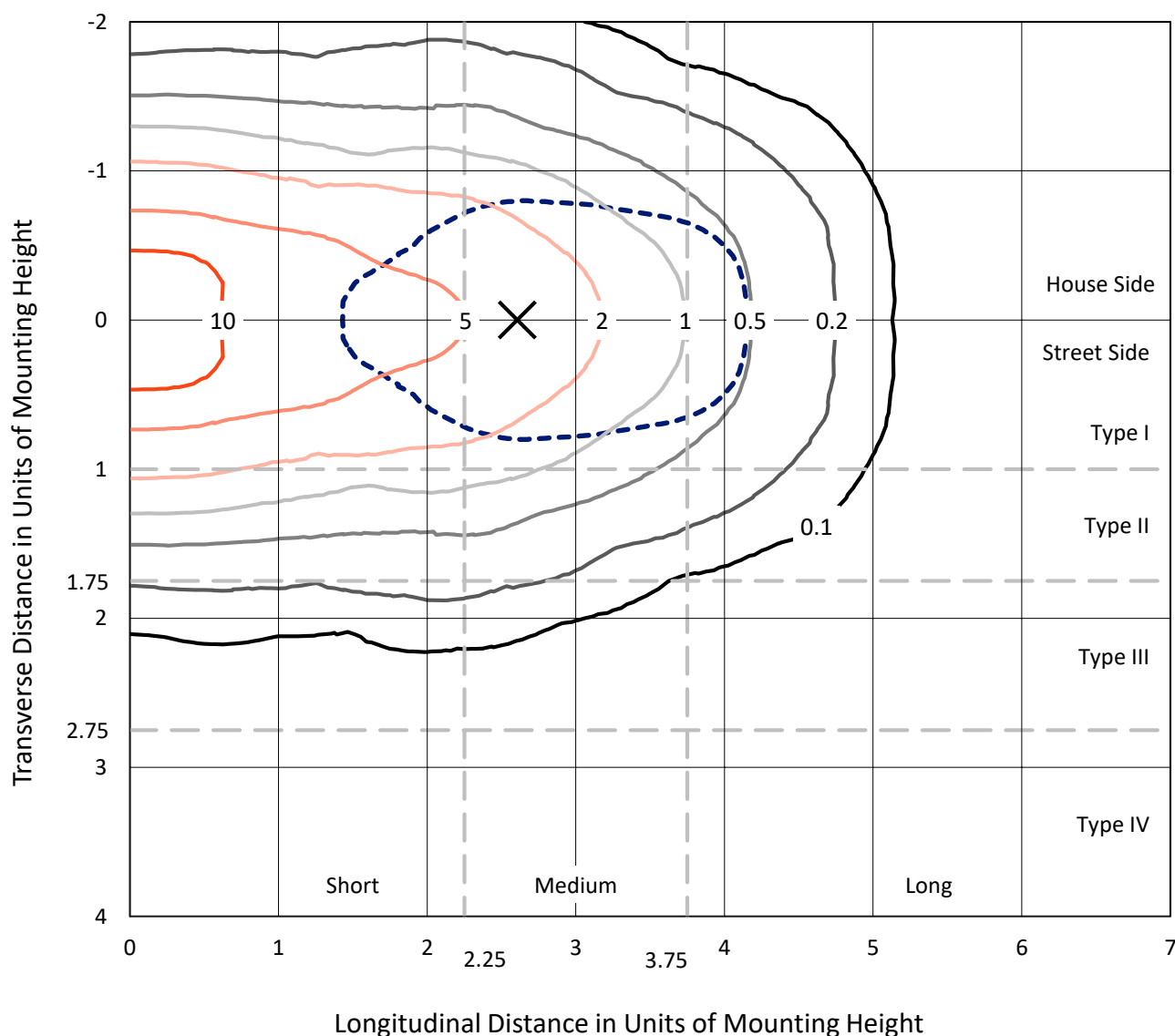


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

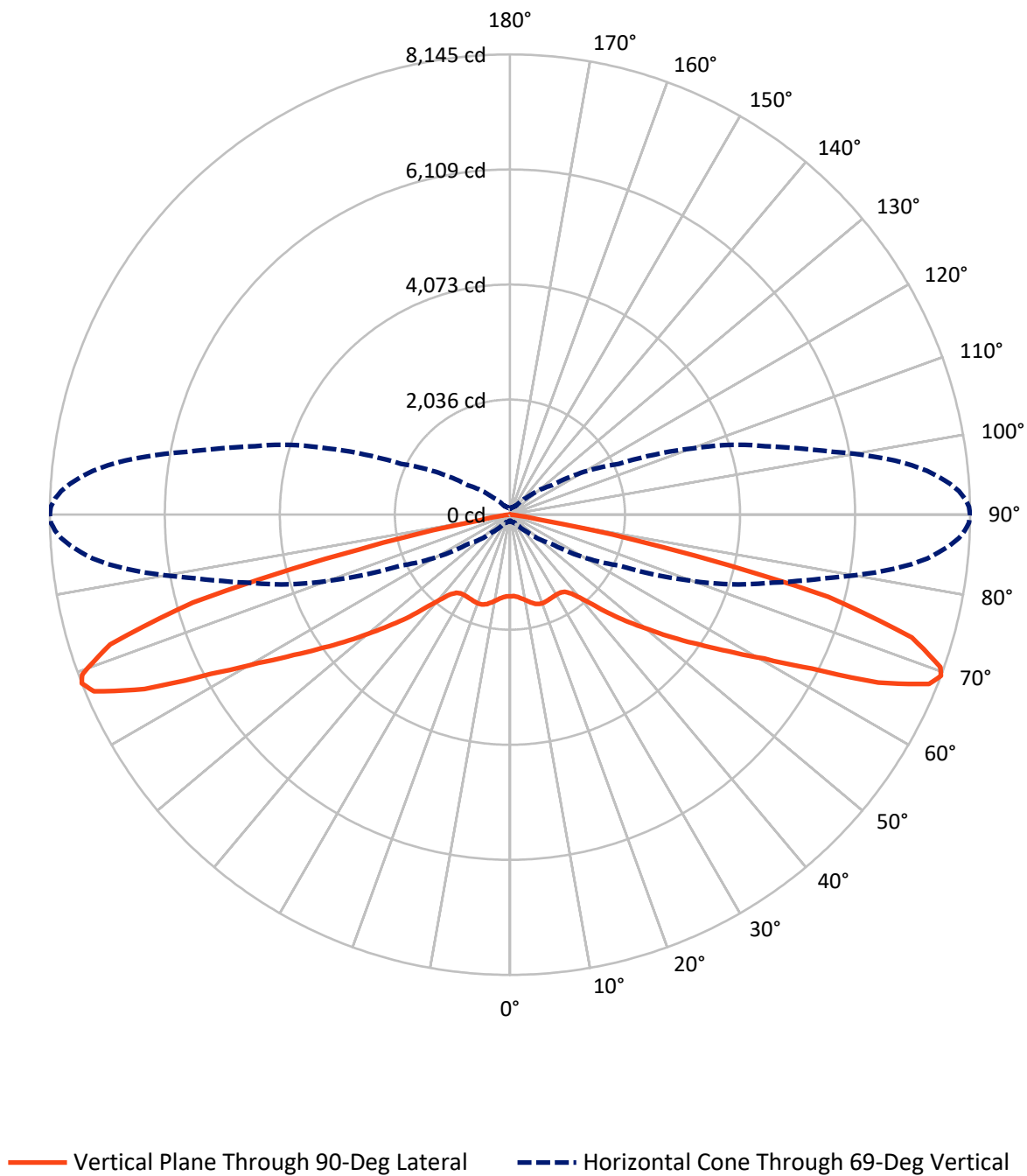


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3852.1	0.0	3852.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3852.1	0.0	3852.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7704.2	0.0	7704.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.8
10°-20°	446.7	5.8
20°-30°	723.7	9.4
30°-40°	901.9	11.7
40°-50°	1127.0	14.6
50°-60°	1391.6	18.1
60°-70°	1729.1	22.4
70°-80°	1147.9	14.9
80°-90°	94.8	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°	7704.2	100.0
0°-180°	7704.2	100.0

Coefficient of Utilization



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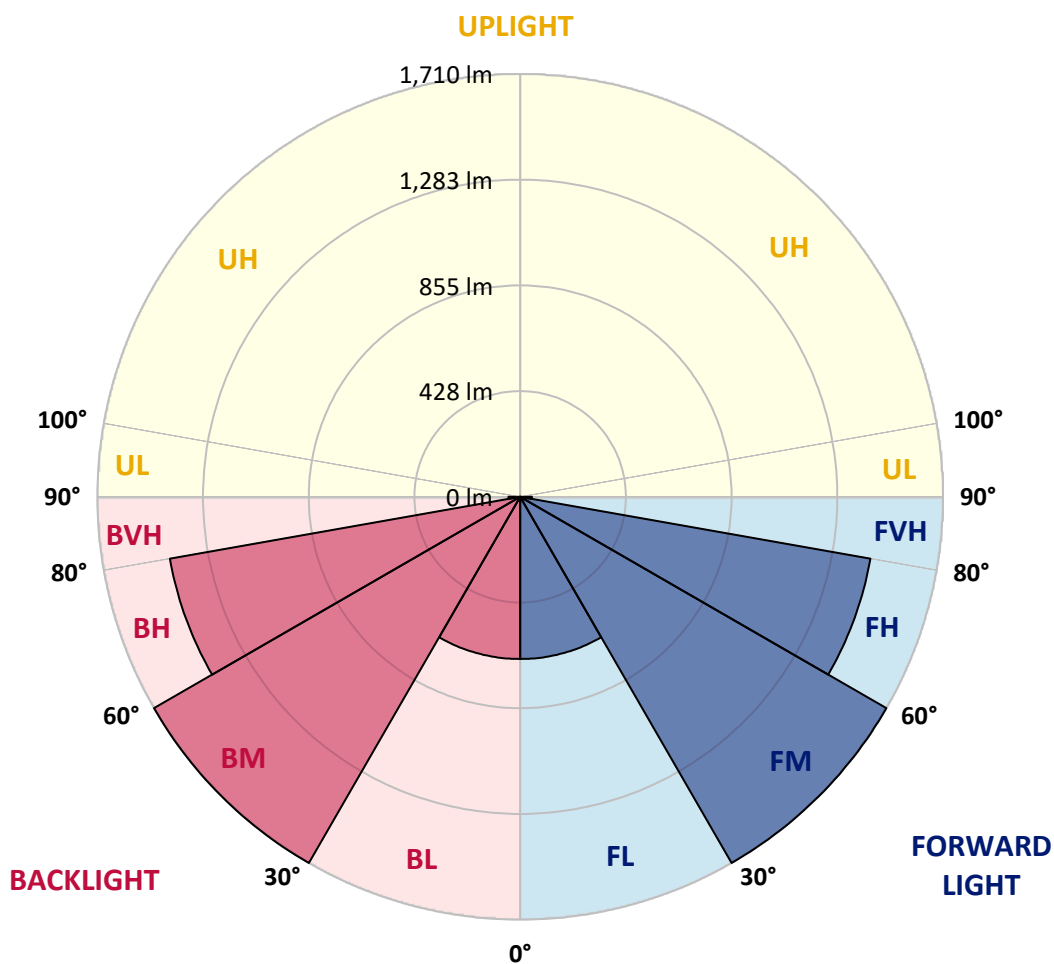
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.0	8.5			
FM	(30°-60°)	1710.2	22.2			
FH	(60°-80°)	1438.5	18.7			G1/1800
FVH	(80°-90°)	47.4	0.6			G1/100
BL	(0°-30°)	656.0	8.5	B2/1000		
BM	(30°-60°)	1710.2	22.2	B2/2500		
BH	(60°-80°)	1438.5	18.7	B3/2500		G3/2500
BVH	(80°-90°)	47.4	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°	70°	71°	72°
0°	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1450.1	1451.4	1450.5	1452.2	1451.8	1451.8	1450.9	1449.3	1448.3	1447.6	1447.7
5°	1464.1	1462.4	1464.9	1467.4	1466.6	1467.0	1466.6	1466.6	1465.7	1465.6	1465.6
7.5°	1478.9	1478.5	1480.2	1486.7	1487.5	1490.0	1492.9	1494.9	1495.4	1495.8	1495.3
10°	1491.6	1492.0	1496.2	1505.6	1510.6	1518.4	1526.2	1532.3	1534.6	1536.0	1535.8
12.5°	1501.9	1502.3	1508.5	1523.2	1535.2	1549.9	1566.8	1576.3	1580.4	1581.1	1581.9
15°	1502.7	1504.0	1514.6	1538.9	1562.8	1587.0	1607.2	1619.9	1623.2	1625.4	1625.5
17.5°	1492.0	1492.8	1511.0	1546.7	1586.6	1624.4	1645.4	1651.1	1652.3	1653.2	1652.8
20°	1464.1	1466.1	1491.6	1544.6	1605.4	1654.8	1676.6	1668.8	1664.9	1664.4	1664.0
22.5°	1418.8	1418.4	1451.8	1523.3	1609.2	1678.6	1698.0	1677.4	1665.2	1662.8	1661.1
25°	1345.7	1350.6	1389.7	1475.2	1588.2	1684.0	1713.2	1682.0	1664.5	1660.6	1655.9
27.5°	1266.4	1269.2	1310.8	1402.4	1539.3	1665.5	1720.6	1691.0	1671.5	1666.0	1660.5
30°	1173.9	1177.6	1222.0	1317.8	1460.8	1617.8	1718.6	1711.6	1688.7	1682.2	1675.2
32.5°	1083.5	1087.6	1127.4	1232.3	1378.2	1552.4	1706.2	1740.7	1717.3	1710.1	1702.8
35°	989.8	996.0	1044.4	1150.4	1298.4	1479.7	1687.3	1778.1	1765.2	1758.8	1752.4
37.5°	912.1	913.3	960.2	1071.6	1224.5	1410.2	1662.2	1825.4	1834.8	1834.8	1835.6
40°	825.4	833.2	880.0	997.6	1157.4	1351.4	1638.4	1889.5	1938.6	1947.6	1954.6
42.5°	747.6	748.5	796.2	917.4	1084.8	1304.2	1625.2	1966.8	2071.8	2091.0	2110.2
45°	665.9	669.2	712.3	829.4	1000.9	1248.3	1624.8	2056.0	2223.7	2255.9	2285.6
47.5°	588.6	589.8	635.4	744.4	904.6	1170.2	1621.9	2151.8	2380.0	2427.5	2466.4
50°	514.6	513.4	558.2	663.0	809.8	1067.8	1596.8	2260.2	2548.6	2602.6	2650.5
52.5°	429.9	435.7	482.2	582.4	723.4	963.8	1523.7	2379.0	2723.9	2786.5	2846.5
55°	347.0	349.4	399.1	492.8	635.8	866.8	1396.2	2488.4	2894.8	2965.8	3032.6
57.5°	255.6	263.1	306.6	399.1	547.0	785.0	1234.4	2545.1	3039.8	3121.6	3201.0
60°	180.4	186.2	224.8	302.5	449.7	699.2	1095.0	2513.4	3156.3	3260.8	3356.2
62.5°	140.6	145.1	175.9	226.4	350.7	613.2	995.1	2411.1	3285.8	3422.1	3552.2
65°	123.3	127.4	155.4	181.3	261.8	525.7	940.4	2303.0	3459.2	3660.0	3841.4
67.5°	111.4	116.3	140.6	158.6	213.3	458.7	926.0	2234.8	3544.3	3805.7	4050.3
69°	106.0	111.0	132.8	148.0	198.1	434.9	901.4	2127.5	3429.4	3708.9	3976.0
70°	102.8	106.8	127.0	142.6	193.1	418.4	860.3	1993.4	3272.0	3554.1	3833.3
72.5°	95.4	97.4	115.1	130.3	179.2	338.3	661.8	1480.6	2588.9	2864.0	3135.0
75°	84.2	86.8	103.2	118.0	139.8	210.0	418.8	915.8	1743.2	1948.1	2199.5
77.5°	72.8	74.8	89.2	112.6	108.5	131.1	250.4	509.7	989.6	1108.6	1272.1
80°	58.4	60.8	73.6	111.8	89.6	101.9	180.0	356.4	485.8	521.4	560.6
82.5°	42.8	44.8	57.6	90.4	68.6	76.8	137.3	302.2	347.2	363.2	371.0
85°	21.8	22.2	36.6	55.1	43.6	39.8	77.2	206.8	235.5	239.5	245.6
87.5°	3.7	3.7	8.2	9.4	10.7	6.6	9.8	35.4	40.9	40.6	44.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1448.2	1447.9	1448.5	1448.6	1449.1	1447.5	1447.2	1446.9	1446.8	1447.6	1446.8
5°	1465.9	1465.8	1466.1	1466.8	1466.6	1465.6	1465.5	1465.8	1464.5	1464.1	1465.0
7.5°	1496.2	1495.7	1495.0	1496.2	1497.1	1497.2	1498.1	1497.4	1497.0	1496.6	1497.4
10°	1537.3	1537.0	1537.2	1538.7	1539.6	1539.8	1540.8	1539.7	1539.3	1540.2	1540.1
12.5°	1583.4	1582.5	1584.5	1585.3	1586.6	1589.0	1587.8	1589.5	1588.2	1590.3	1590.2
15°	1626.9	1627.5	1629.3	1630.0	1630.4	1632.4	1632.7	1633.8	1632.2	1632.6	1635.9
17.5°	1654.0	1653.6	1654.8	1655.5	1656.5	1657.6	1659.5	1660.6	1659.8	1659.8	1661.4
20°	1663.1	1661.9	1662.2	1662.8	1663.0	1663.9	1665.3	1665.4	1665.5	1665.9	1667.6
22.5°	1658.6	1656.5	1654.4	1654.6	1654.7	1654.4	1655.4	1656.0	1656.8	1657.7	1659.7
25°	1652.4	1647.6	1643.7	1643.4	1642.2	1642.3	1642.8	1642.9	1643.7	1644.9	1646.6
27.5°	1653.0	1646.7	1640.4	1638.2	1636.0	1634.6	1634.0	1633.0	1633.8	1635.0	1636.8
30°	1667.0	1657.2	1648.2	1645.4	1642.2	1639.4	1637.0	1634.2	1632.6	1633.8	1634.6
32.5°	1691.9	1682.2	1673.3	1668.8	1664.2	1659.3	1654.8	1651.9	1648.2	1647.0	1646.6
35°	1744.4	1736.8	1728.8	1723.7	1716.1	1712.2	1706.7	1698.8	1693.0	1692.6	1689.4
37.5°	1833.2	1829.5	1823.7	1818.4	1815.9	1805.7	1799.1	1795.0	1788.4	1792.5	1785.5
40°	1960.7	1966.8	1972.2	1969.0	1970.0	1967.3	1963.3	1967.2	1962.6	1961.4	1962.7
42.5°	2124.0	2145.7	2160.8	2165.5	2177.7	2182.5	2191.4	2205.1	2202.3	2217.9	2220.8
45°	2313.4	2344.4	2374.5	2397.0	2421.5	2449.2	2477.0	2499.0	2516.3	2515.5	2534.4
47.5°	2506.5	2552.3	2592.4	2626.1	2670.2	2711.0	2755.9	2801.2	2834.0	2846.4	2850.5
50°	2702.1	2754.9	2809.8	2859.5	2919.0	2984.2	3054.9	3125.5	3160.9	3189.6	3209.0
52.5°	2907.1	2967.6	3026.0	3096.1	3169.5	3255.7	3343.9	3444.4	3497.8	3552.2	3580.9
55°	3102.0	3169.6	3229.8	3323.7	3413.7	3516.6	3631.8	3758.8	3851.4	3915.0	3971.4
57.5°	3279.1	3351.1	3425.1	3530.9	3645.7	3766.0	3912.0	4066.4	4167.0	4278.0	4377.9
60°	3452.1	3542.6	3627.8	3766.0	3902.6	4052.0	4233.8	4429.2	4585.0	4735.8	4851.0
62.5°	3681.5	3797.7	3903.6	4077.5	4256.0	4440.6	4656.9	4888.0	5114.0	5318.7	5473.7
65°	4020.3	4191.1	4349.6	4569.9	4795.2	5038.3	5296.5	5591.7	5863.0	6133.8	6355.8
67.5°	4277.6	4493.8	4697.2	4963.6	5228.8	5510.5	5822.6	6171.2	6507.0	6812.4	7082.9
69°	4227.1	4456.5	4676.7	4948.8	5224.5	5512.1	5826.8	6197.5	6546.5	6878.2	7168.4
70°	4073.5	4312.4	4540.6	4810.6	5089.9	5378.2	5707.7	6071.7	6428.9	6782.4	7075.4
72.5°	3376.0	3615.7	3837.4	4113.6	4394.7	4697.7	5009.6	5364.4	5745.8	6123.5	6380.4
75°	2420.5	2632.4	2847.2	3080.8	3355.2	3604.8	3890.3	4228.7	4549.3	4842.4	5038.8
77.5°	1430.6	1557.5	1710.7	1820.6	1979.8	2117.3	2262.5	2450.6	2549.2	2738.3	2786.8
80°	582.9	579.4	602.2	579.6	584.6	566.2	546.6	543.0	512.2	550.8	522.0
82.5°	370.2	344.4	316.9	278.8	245.1	209.9	177.5	150.4	145.5	146.4	144.7
85°	243.9	232.7	208.0	174.8	142.5	114.4	91.5	72.4	71.5	70.3	69.9
87.5°	44.1	41.0	33.7	28.8	24.3	18.1	12.7	9.4	9.0	9.0	10.7
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1446.8	1446.9	1446.4	1447.2	1446.8	1445.6	1444.4
5°	1465.8	1464.1	1465.4	1466.6	1464.5	1464.9	1464.1
7.5°	1497.4	1497.0	1497.4	1496.2	1495.3	1496.6	1497.8
10°	1541.8	1541.0	1540.6	1541.8	1541.0	1540.2	1540.5
12.5°	1591.6	1591.5	1591.1	1591.5	1591.1	1589.9	1589.0
15°	1635.5	1636.4	1636.3	1635.5	1635.1	1634.6	1635.1
17.5°	1662.6	1662.2	1662.2	1662.2	1661.8	1662.2	1663.0
20°	1669.6	1668.4	1668.4	1669.2	1668.4	1669.2	1669.6
22.5°	1660.2	1660.2	1660.2	1660.6	1661.4	1661.4	1662.2
25°	1648.2	1648.2	1648.2	1649.0	1649.1	1649.5	1649.9
27.5°	1638.8	1638.8	1638.8	1639.6	1639.6	1640.0	1640.8
30°	1635.9	1635.9	1635.5	1635.9	1636.3	1636.3	1636.7
32.5°	1647.0	1645.8	1645.4	1644.6	1643.8	1643.8	1643.3
35°	1686.0	1682.8	1683.2	1680.7	1681.5	1679.4	1677.8
37.5°	1781.0	1777.8	1774.0	1769.0	1766.2	1769.9	1769.9
40°	1958.6	1960.6	1951.6	1949.1	1943.8	1947.4	1952.4
42.5°	2222.4	2224.9	2226.6	2213.0	2212.6	2209.7	2201.5
45°	2535.2	2529.4	2532.0	2525.8	2523.3	2514.2	2525.4
47.5°	2866.2	2869.8	2855.0	2850.0	2858.7	2843.9	2846.0
50°	3220.0	3220.9	3209.8	3207.2	3215.1	3187.2	3200.3
52.5°	3601.4	3603.1	3611.8	3601.4	3605.6	3599.0	3612.1
55°	4007.2	4038.0	4040.8	4052.0	4052.8	4066.3	4052.8
57.5°	4433.4	4468.3	4501.2	4546.0	4555.8	4550.5	4559.1
60°	4946.7	5038.5	5087.8	5158.0	5169.1	5199.5	5173.2
62.5°	5619.2	5761.8	5869.5	5923.8	5956.6	6020.4	5999.4
65°	6559.6	6729.4	6893.0	6971.1	7057.4	7147.8	7164.3
67.5°	7329.9	7518.6	7688.8	7824.0	7929.2	7995.8	8001.1
69°	7426.0	7626.7	7805.8	7956.3	8058.6	8126.8	8145.0
70°	7339.4	7544.4	7734.4	7877.8	7992.0	8061.5	8085.8
72.5°	6650.0	6894.2	7046.3	7192.6	7353.8	7374.7	7441.3
75°	5264.1	5483.2	5632.4	5671.0	5755.2	5861.3	5823.5
77.5°	2745.7	2841.0	2872.6	2805.3	2802.0	2864.0	2740.7
80°	522.8	523.6	515.0	511.7	517.9	511.7	503.1
82.5°	147.6	145.6	144.3	147.6	147.2	146.8	149.6
85°	68.2	66.2	62.9	62.9	64.5	62.0	63.3
87.5°	9.4	7.8	7.8	7.8	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)