

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: P180338

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180338
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
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8435.1 lumens
Efficiency: N/A
Efficacy: 112.2 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

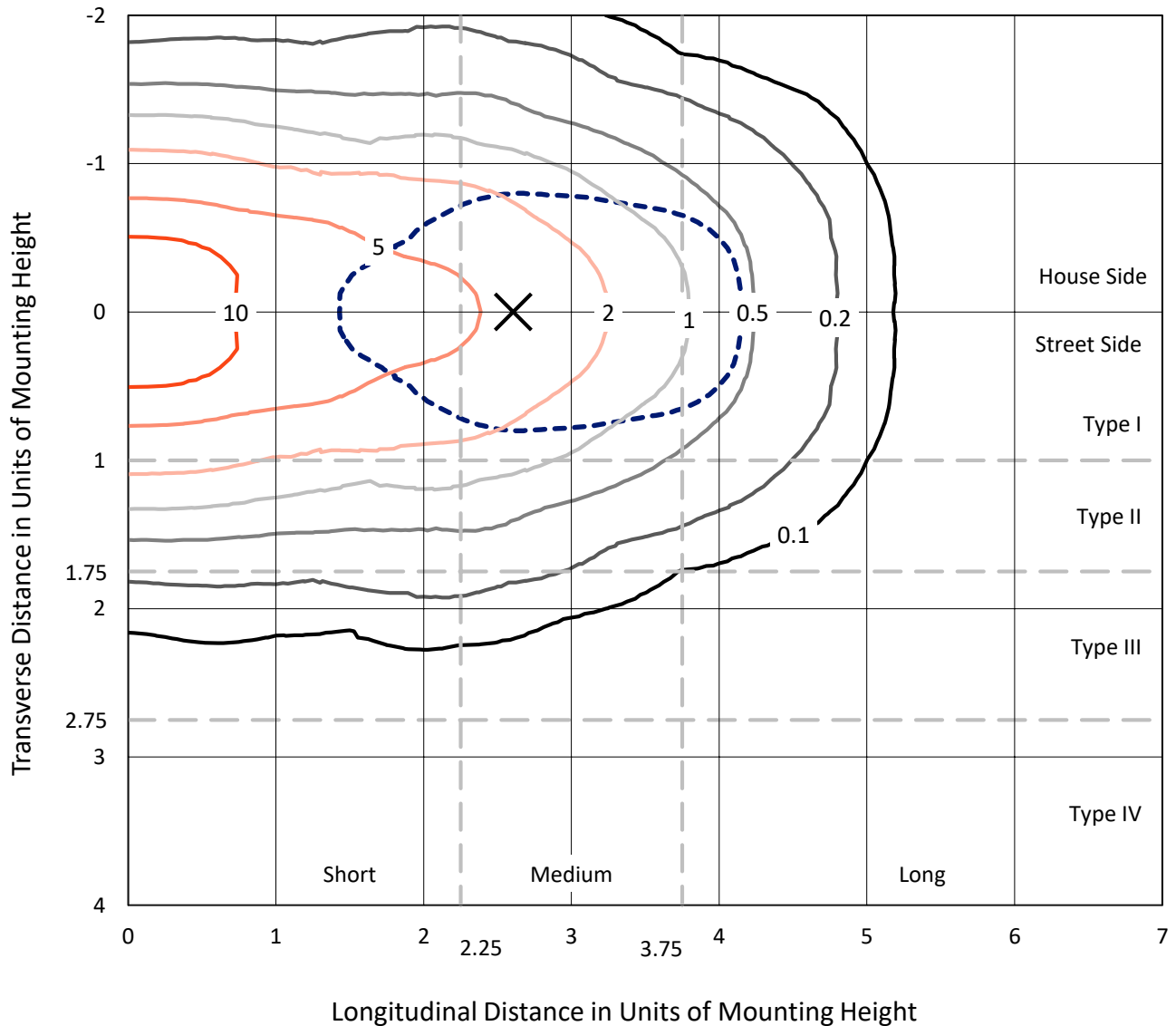
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

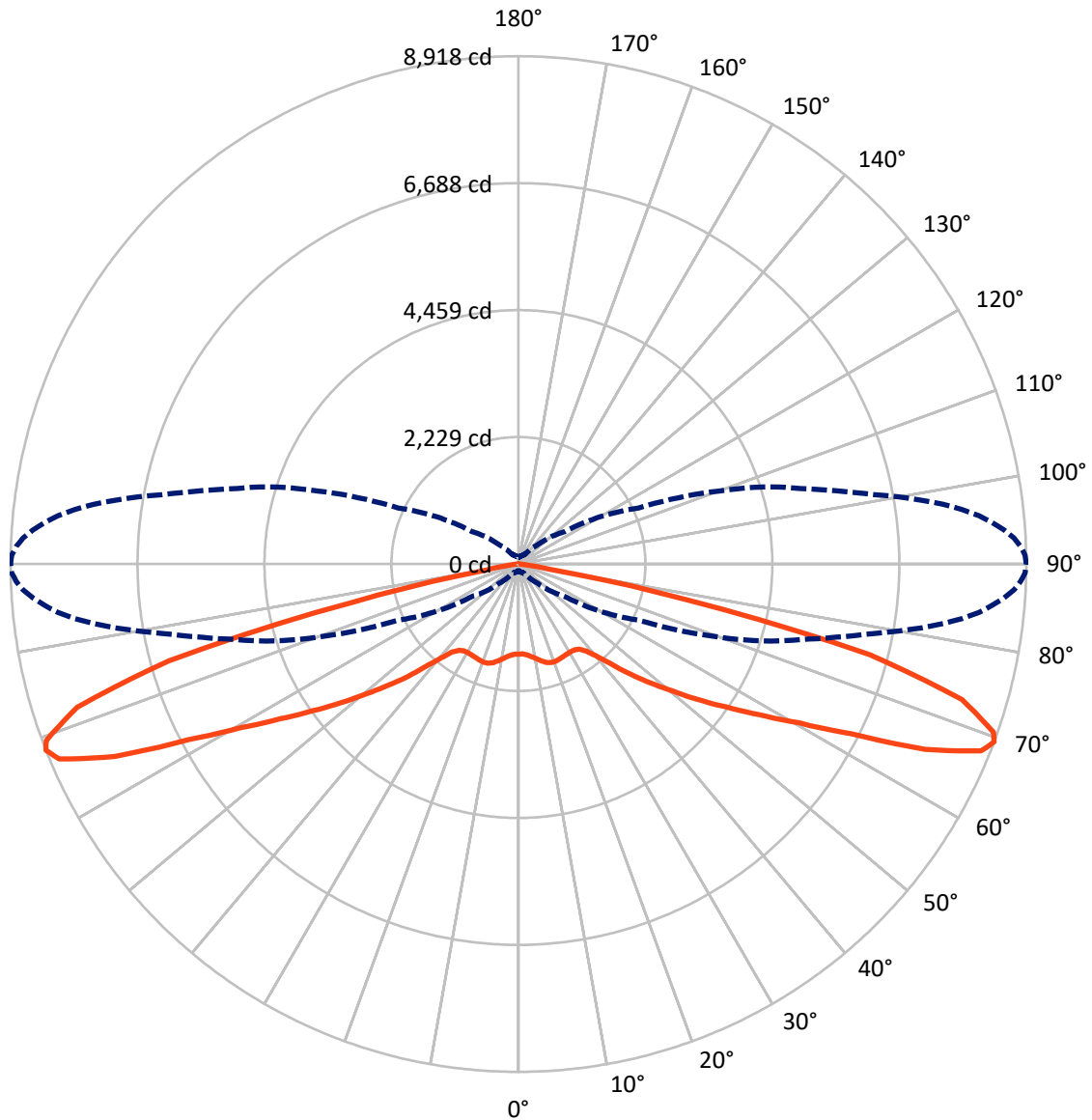
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4217.5	0.0	4217.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4217.5	0.0	4217.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8435.1	0.0	8435.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.8
10°-20°	489.1	5.8
20°-30°	792.3	9.4
30°-40°	987.4	11.7
40°-50°	1233.9	14.6
50°-60°	1523.6	18.1
60°-70°	1893.2	22.4
70°-80°	1256.8	14.9
80°-90°	103.8	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°	8435.1	100.0
0°-180°	8435.1	100.0



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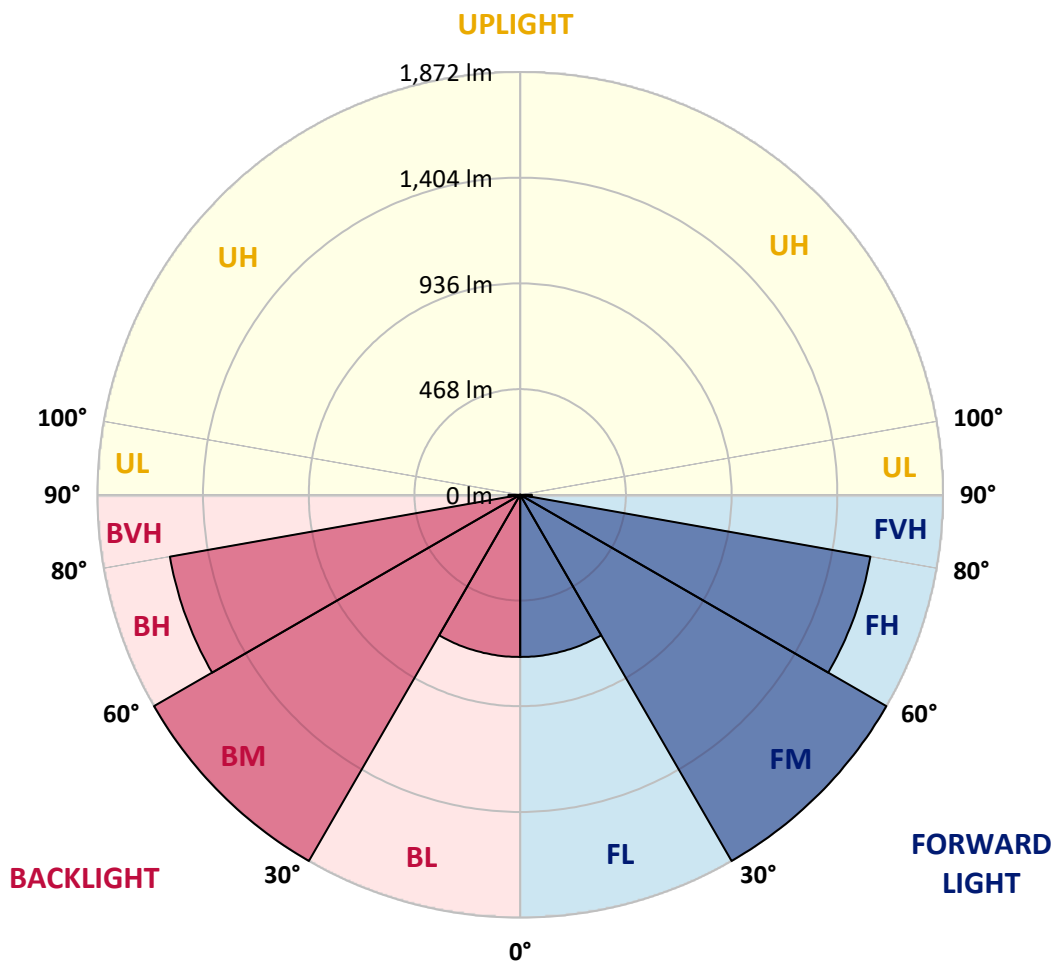
CATALOG NUMBER: ICS-E03-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.2	8.5			
FM	(30°-60°)	1872.5	22.2			
FH	(60°-80°)	1575.0	18.7			G1/1800
FVH	(80°-90°)	51.9	0.6			G1/100
BL	(0°-30°)	718.2	8.5	B2/1000		
BM	(30°-60°)	1872.5	22.2	B2/2500		
BH	(60°-80°)	1575.0	18.7	B3/2500		G3/2500
BVH	(80°-90°)	51.9	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°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5
2.5°	1587.7	1589.1	1588.2	1590.0	1589.5	1589.5	1588.6	1586.8	1585.7	1584.9	1585.0
5°	1603.0	1601.2	1603.9	1606.6	1605.7	1606.2	1605.7	1605.7	1604.8	1604.7	1604.6
7.5°	1619.2	1618.8	1620.6	1627.8	1628.6	1631.4	1634.5	1636.8	1637.2	1637.6	1637.2
10°	1633.2	1633.6	1638.1	1648.4	1653.8	1662.4	1671.0	1677.7	1680.2	1681.8	1681.5
12.5°	1644.4	1644.8	1651.6	1667.8	1680.8	1697.0	1715.5	1725.8	1730.4	1731.2	1732.0
15°	1645.3	1646.6	1658.4	1684.9	1711.0	1737.6	1759.6	1773.6	1777.2	1779.6	1779.8
17.5°	1633.6	1634.5	1654.3	1693.4	1737.1	1778.5	1801.4	1807.8	1809.1	1810.0	1809.6
20°	1603.0	1605.2	1633.2	1691.2	1757.8	1811.8	1835.6	1827.1	1822.8	1822.3	1821.8
22.5°	1553.5	1553.1	1589.5	1667.8	1761.8	1837.9	1859.0	1836.6	1823.3	1820.5	1818.7
25°	1473.4	1478.8	1521.6	1615.1	1738.9	1843.8	1875.7	1841.5	1822.4	1818.1	1812.9
27.5°	1386.6	1389.7	1435.1	1535.5	1685.4	1823.5	1883.8	1851.4	1830.0	1824.0	1818.1
30°	1285.3	1289.4	1337.9	1442.8	1599.4	1771.3	1881.6	1873.9	1848.9	1841.8	1834.2
32.5°	1186.3	1190.8	1234.4	1349.2	1509.0	1699.8	1868.0	1905.8	1880.2	1872.3	1864.4
35°	1083.7	1090.4	1143.6	1259.6	1421.6	1620.1	1847.4	1946.8	1932.6	1925.6	1918.7
37.5°	998.6	1000.0	1051.3	1173.2	1340.6	1544.0	1819.9	1998.6	2008.9	2008.9	2009.8
40°	903.6	912.2	963.5	1092.2	1267.3	1479.7	1793.8	2068.8	2122.5	2132.4	2140.0
42.5°	818.6	819.4	871.6	1004.5	1187.6	1427.9	1779.4	2153.4	2268.3	2289.3	2310.4
45°	729.0	732.6	779.8	908.2	1095.8	1366.8	1779.0	2251.0	2434.6	2469.9	2502.5
47.5°	644.4	645.8	695.7	814.9	990.6	1281.2	1775.8	2355.8	2605.8	2657.8	2700.4
50°	563.4	562.0	611.1	725.8	886.6	1169.2	1748.4	2474.6	2790.4	2849.6	2902.0
52.5°	470.7	477.0	527.8	637.6	792.0	1055.4	1668.2	2604.7	2982.3	3050.8	3116.6
55°	379.8	382.5	437.0	539.6	696.2	949.1	1528.8	2724.4	3169.6	3247.2	3320.4
57.5°	279.9	288.0	335.7	437.0	599.0	859.6	1351.4	2786.5	3328.2	3417.8	3504.7
60°	197.6	203.9	246.2	331.2	492.3	765.4	1198.9	2751.9	3455.8	3570.1	3674.6
62.5°	153.9	158.9	192.6	248.0	383.8	671.4	1089.6	2639.8	3597.5	3746.7	3889.2
65°	135.0	139.5	170.1	198.4	286.6	575.6	1029.7	2521.5	3787.4	4007.2	4205.8
67.5°	122.0	127.4	153.9	173.7	233.6	502.2	1013.9	2446.8	3880.6	4166.8	4434.5
69°	116.1	121.5	145.4	162.0	216.9	476.1	986.9	2329.3	3754.8	4060.7	4353.2
70°	112.5	117.0	139.0	156.2	211.5	458.1	941.9	2182.6	3582.4	3891.3	4197.0
72.5°	104.4	106.6	126.0	142.6	196.2	370.4	724.5	1621.0	2834.5	3135.7	3432.4
75°	92.2	95.0	113.0	129.2	153.0	230.0	458.6	1002.6	1908.6	2133.0	2408.2
77.5°	79.6	81.9	97.6	123.3	118.8	143.6	274.0	558.0	1083.4	1213.8	1392.8
80°	63.9	66.6	80.6	122.4	98.1	111.6	197.1	390.2	531.9	570.8	613.7
82.5°	46.8	49.0	63.0	99.0	75.2	84.2	150.3	330.8	380.0	397.6	406.2
85°	23.8	24.3	40.0	60.3	47.7	43.7	84.6	226.4	257.8	262.3	268.9
87.5°	4.0	4.0	9.0	10.4	11.7	7.2	10.8	38.7	44.8	44.5	48.2
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5
2.5°	1585.6	1585.3	1585.9	1586.0	1586.5	1584.8	1584.5	1584.1	1584.1	1585.0	1584.1
5°	1605.0	1604.9	1605.2	1606.0	1605.8	1604.7	1604.5	1604.8	1603.4	1603.0	1603.9
7.5°	1638.1	1637.6	1636.8	1638.2	1639.2	1639.3	1640.3	1639.4	1639.0	1638.6	1639.4
10°	1683.1	1682.9	1683.1	1684.6	1685.7	1685.9	1687.0	1685.8	1685.4	1686.2	1686.2
12.5°	1733.7	1732.7	1734.8	1735.8	1737.1	1739.8	1738.4	1740.2	1738.9	1741.2	1741.2
15°	1781.3	1781.9	1783.9	1784.7	1785.1	1787.2	1787.6	1788.8	1787.0	1787.5	1791.1
17.5°	1810.9	1810.4	1811.8	1812.5	1813.7	1814.9	1816.9	1818.1	1817.2	1817.2	1819.0
20°	1820.9	1819.5	1819.9	1820.5	1820.7	1821.8	1823.3	1823.5	1823.5	1824.0	1825.8
22.5°	1815.9	1813.6	1811.4	1811.5	1811.7	1811.4	1812.5	1813.2	1814.0	1815.0	1817.2
25°	1809.1	1803.9	1799.6	1799.3	1798.0	1798.1	1798.7	1798.8	1799.6	1801.0	1802.8
27.5°	1809.8	1802.9	1796.0	1793.6	1791.2	1789.7	1789.0	1788.0	1788.8	1790.2	1792.0
30°	1825.2	1814.5	1804.6	1801.5	1798.0	1795.0	1792.4	1789.3	1787.5	1788.8	1789.8
32.5°	1852.4	1841.8	1832.0	1827.1	1822.2	1816.8	1811.8	1808.6	1804.6	1803.2	1802.8
35°	1909.9	1901.6	1892.8	1887.2	1878.9	1874.7	1868.7	1860.0	1853.6	1853.2	1849.6
37.5°	2007.1	2003.0	1996.8	1990.9	1988.2	1977.0	1969.8	1965.2	1958.0	1962.6	1954.9
40°	2146.7	2153.4	2159.2	2155.8	2156.9	2153.9	2149.6	2153.8	2148.8	2147.5	2148.9
42.5°	2325.5	2349.2	2365.8	2371.0	2384.3	2389.5	2399.2	2414.4	2411.2	2428.3	2431.4
45°	2532.8	2566.7	2599.8	2624.3	2651.1	2681.6	2712.0	2736.1	2755.0	2754.2	2774.8
47.5°	2744.2	2794.4	2838.4	2875.3	2923.6	2968.2	3017.4	3067.0	3103.0	3116.4	3121.0
50°	2958.5	3016.3	3076.4	3130.8	3195.9	3267.4	3344.7	3422.0	3460.7	3492.2	3513.4
52.5°	3182.9	3249.1	3313.1	3389.9	3470.2	3564.6	3661.1	3771.2	3829.7	3889.1	3920.6
55°	3396.3	3470.3	3536.3	3639.0	3737.6	3850.2	3976.3	4115.4	4216.7	4286.5	4348.1
57.5°	3590.2	3669.0	3750.0	3865.9	3991.6	4123.2	4283.2	4452.1	4562.4	4683.8	4793.2
60°	3779.6	3878.7	3971.9	4123.3	4272.9	4436.4	4635.5	4849.4	5020.0	5185.2	5311.2
62.5°	4030.8	4157.9	4273.8	4464.3	4659.7	4861.8	5098.7	5351.7	5599.2	5823.3	5993.0
65°	4401.8	4588.7	4762.2	5003.5	5250.2	5516.2	5799.0	6122.2	6419.2	6715.7	6958.8
67.5°	4683.4	4920.1	5142.9	5434.6	5725.0	6033.3	6374.9	6756.6	7124.4	7458.7	7754.8
69°	4628.1	4879.2	5120.4	5418.2	5720.1	6035.0	6379.6	6785.4	7167.5	7530.7	7848.4
70°	4459.9	4721.5	4971.4	5266.9	5572.8	5888.5	6249.2	6647.8	7038.8	7425.8	7746.8
72.5°	3696.3	3958.8	4201.4	4503.9	4811.7	5143.3	5484.9	5873.3	6290.9	6704.4	6985.7
75°	2650.1	2882.1	3117.4	3373.1	3673.5	3946.8	4259.3	4629.8	4980.8	5301.8	5516.8
77.5°	1566.4	1705.3	1873.0	1993.3	2167.7	2318.2	2477.2	2683.0	2791.0	2998.0	3051.2
80°	638.2	634.3	659.2	634.6	640.1	619.9	598.4	594.4	560.7	603.0	571.5
82.5°	405.4	377.1	347.0	305.2	268.4	229.8	194.3	164.7	159.3	160.2	158.4
85°	267.0	254.8	227.7	191.4	156.1	125.2	100.2	79.2	78.3	76.9	76.5
87.5°	48.3	44.9	36.9	31.5	26.6	19.8	14.0	10.4	9.9	9.9	11.7
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°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5
2.5°	1584.1	1584.1	1583.6	1584.6	1584.1	1582.8	1581.4
5°	1604.8	1603.0	1604.4	1605.7	1603.4	1603.9	1603.0
7.5°	1639.4	1639.0	1639.4	1638.1	1637.2	1638.6	1639.9
10°	1688.0	1687.2	1686.7	1688.0	1687.2	1686.2	1686.7
12.5°	1742.5	1742.5	1742.0	1742.5	1742.0	1740.7	1739.8
15°	1790.6	1791.6	1791.6	1790.6	1790.2	1789.8	1790.2
17.5°	1820.4	1819.9	1819.9	1819.9	1819.4	1819.9	1820.8
20°	1828.0	1826.6	1826.6	1827.6	1826.6	1827.6	1828.0
22.5°	1817.6	1817.6	1817.6	1818.1	1819.0	1819.0	1819.9
25°	1804.6	1804.6	1804.6	1805.5	1805.5	1806.0	1806.4
27.5°	1794.2	1794.2	1794.2	1795.2	1795.2	1795.6	1796.5
30°	1791.1	1791.1	1790.6	1791.1	1791.6	1791.6	1792.0
32.5°	1803.2	1801.9	1801.4	1800.6	1799.6	1799.6	1799.2
35°	1846.0	1842.4	1842.8	1840.2	1841.0	1838.8	1837.0
37.5°	1950.0	1946.4	1942.3	1936.9	1933.8	1937.8	1937.8
40°	2144.4	2146.6	2136.7	2134.0	2128.2	2132.2	2137.6
42.5°	2433.2	2436.0	2437.8	2422.9	2422.4	2419.3	2410.3
45°	2775.8	2769.4	2772.2	2765.4	2762.7	2752.8	2765.0
47.5°	3138.0	3142.1	3125.9	3120.5	3130.0	3113.8	3116.0
50°	3525.5	3526.4	3514.2	3511.6	3520.1	3489.5	3503.9
52.5°	3943.1	3944.9	3954.4	3943.1	3947.6	3940.4	3954.8
55°	4387.2	4421.0	4424.2	4436.3	4437.2	4452.0	4437.2
57.5°	4854.0	4892.2	4928.2	4977.3	4988.1	4982.2	4991.7
60°	5416.0	5516.4	5570.4	5647.4	5659.5	5692.8	5664.0
62.5°	6152.2	6308.4	6426.4	6485.8	6521.8	6591.6	6568.6
65°	7182.0	7367.8	7546.9	7632.4	7726.9	7825.9	7843.9
67.5°	8025.3	8231.8	8418.2	8566.2	8681.4	8754.4	8760.2
69°	8130.6	8350.2	8546.4	8711.2	8823.2	8897.9	8917.7
70°	8035.6	8260.2	8468.1	8625.2	8750.3	8826.4	8852.9
72.5°	7281.0	7548.2	7714.8	7875.0	8051.4	8074.3	8147.2
75°	5763.4	6003.3	6166.7	6209.0	6301.2	6417.4	6375.9
77.5°	3006.2	3110.6	3145.2	3071.4	3067.8	3135.8	3000.8
80°	572.4	573.3	563.8	560.2	567.0	560.2	550.8
82.5°	161.6	159.3	158.0	161.6	161.1	160.6	163.8
85°	74.7	72.4	68.8	68.8	70.6	67.9	69.3
87.5°	10.4	8.6	8.6	8.6	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)