

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: P180278

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180278
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: ICM-E03-LED-E1-RW
Description: ICON SITE MEDIUM 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: 8718 lumens
Efficiency: N/A
Efficacy: 115.9 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

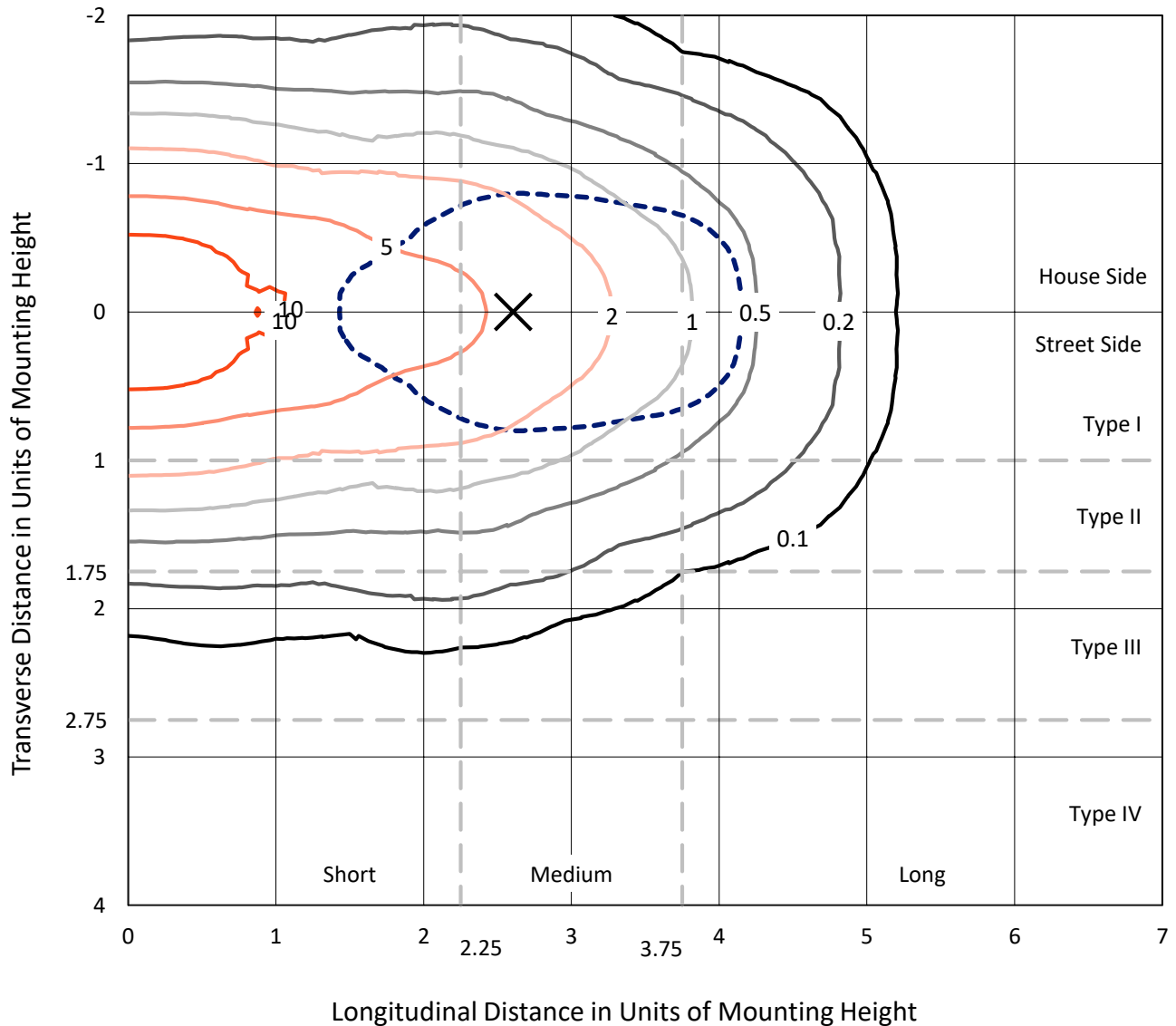
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

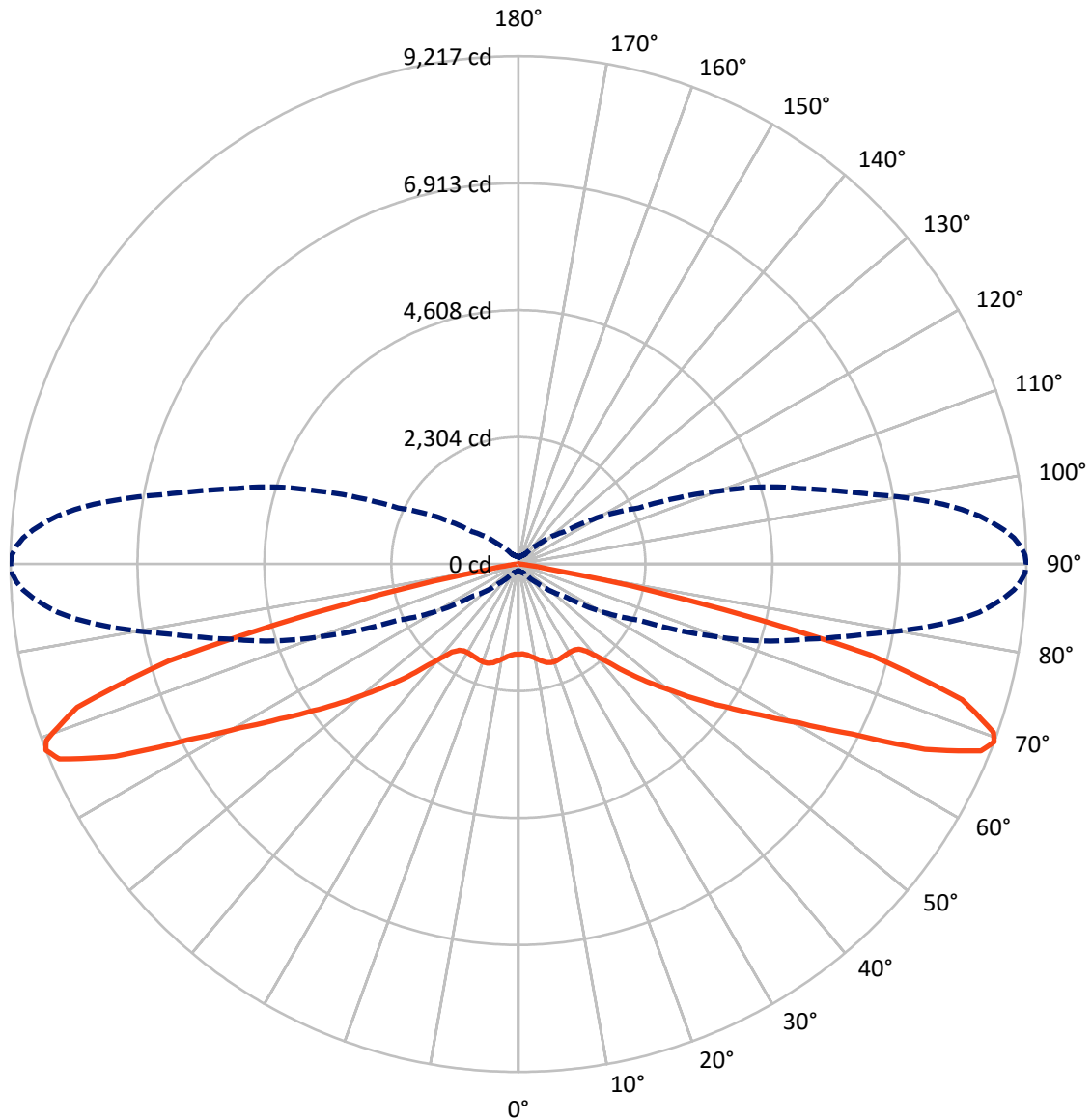
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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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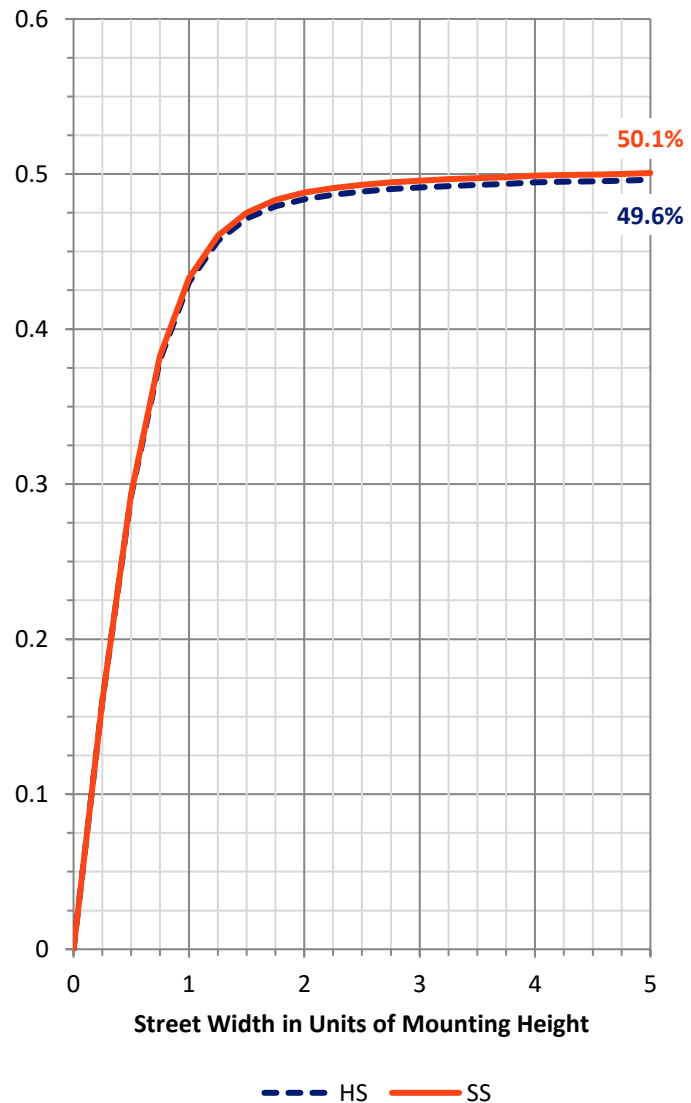
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4359.0	0.0	4359.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4359.0	0.0	4359.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8718.0	0.0	8718.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	1.8
10°-20°	505.5	5.8
20°-30°	818.9	9.4
30°-40°	1020.5	11.7
40°-50°	1275.3	14.6
50°-60°	1574.7	18.1
60°-70°	1956.7	22.4
70°-80°	1299.0	14.9
80°-90°	107.2	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°	8718.0	100.0
0°-180°	8718.0	100.0



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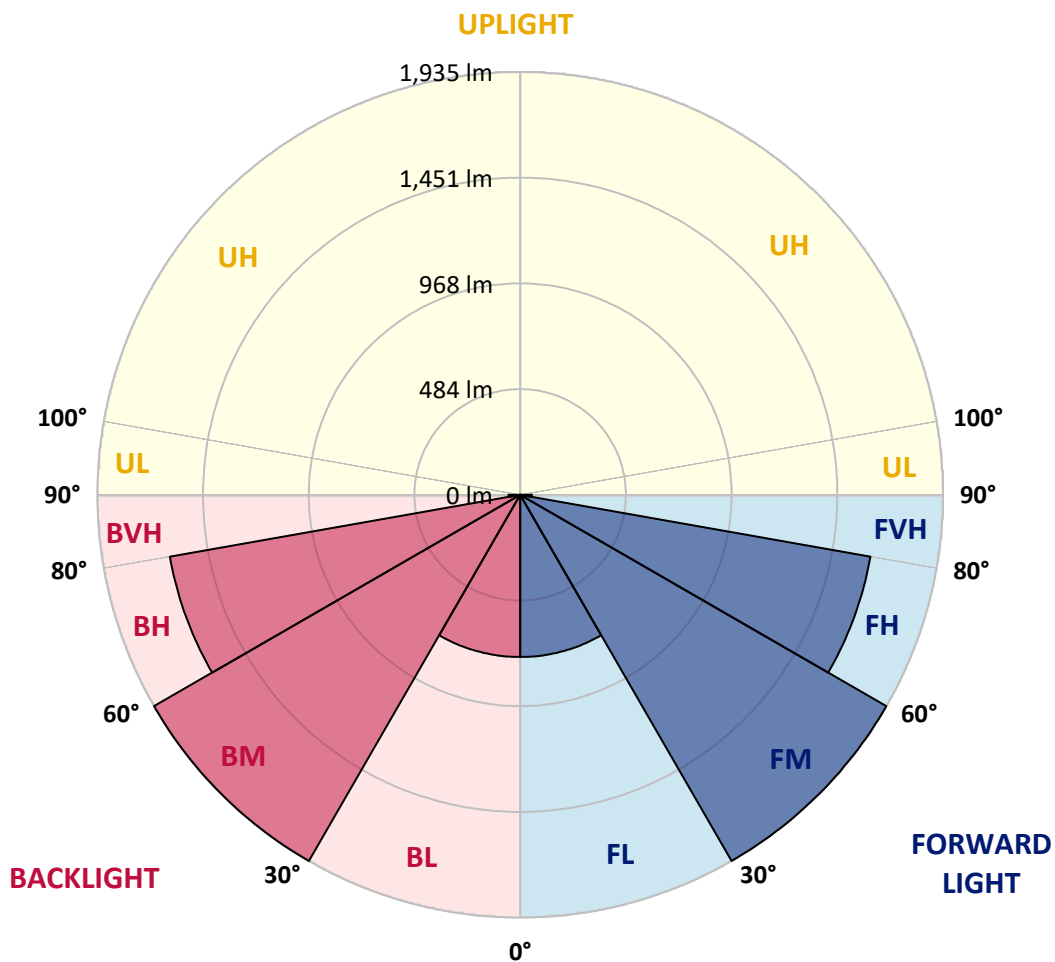
CATALOG NUMBER: ICM-E03-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.3	8.5			
FM (30°-60°)	1935.3	22.2			
FH (60°-80°)	1627.8	18.7			G1/1800
FVH (80°-90°)	53.6	0.6			G1/100
BL (0°-30°)	742.3	8.5	B2/1000		
BM (30°-60°)	1935.3	22.2	B2/2500		
BH (60°-80°)	1627.8	18.7	B3/2500		G3/2500
BVH (80°-90°)	53.6	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°	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1640.9	1642.3	1641.4	1643.3	1642.8	1642.8	1641.9	1640.0	1638.9	1638.1	1638.1
5°	1656.8	1654.9	1657.7	1660.5	1659.5	1660.0	1659.5	1659.5	1658.6	1658.5	1658.4
7.5°	1673.5	1673.0	1674.9	1682.3	1683.3	1686.1	1689.3	1691.6	1692.1	1692.6	1692.1
10°	1687.9	1688.4	1693.0	1703.7	1709.3	1718.2	1727.0	1734.0	1736.6	1738.2	1737.9
12.5°	1699.5	1700.0	1707.0	1723.7	1737.2	1754.0	1773.0	1783.7	1788.4	1789.2	1790.1
15°	1700.5	1701.9	1714.0	1741.4	1768.4	1795.8	1818.6	1833.0	1836.8	1839.3	1839.5
17.5°	1688.4	1689.3	1709.8	1750.2	1795.4	1838.2	1861.9	1868.4	1869.8	1870.7	1870.2
20°	1656.8	1659.1	1687.9	1747.9	1816.8	1872.6	1897.2	1888.4	1883.9	1883.5	1883.0
22.5°	1605.6	1605.1	1642.8	1723.7	1820.9	1899.5	1921.4	1898.2	1884.5	1881.6	1879.6
25°	1522.8	1528.4	1572.6	1669.3	1797.2	1905.6	1938.6	1903.3	1883.5	1879.1	1873.7
27.5°	1433.0	1436.3	1483.3	1587.0	1741.9	1884.7	1947.0	1913.5	1891.4	1885.2	1879.1
30°	1328.4	1332.6	1382.8	1491.2	1653.0	1830.7	1944.7	1936.8	1910.9	1903.5	1895.6
32.5°	1226.1	1230.7	1275.8	1394.4	1559.5	1756.8	1930.7	1969.8	1943.3	1935.1	1926.9
35°	1120.0	1127.0	1181.9	1301.9	1469.3	1674.4	1909.3	2012.1	1997.4	1990.2	1983.1
37.5°	1032.1	1033.5	1086.5	1212.6	1385.6	1595.8	1880.9	2065.6	2076.3	2076.3	2077.2
40°	934.0	942.8	995.8	1128.8	1309.8	1529.3	1854.0	2138.2	2193.7	2203.9	2211.7
42.5°	846.1	847.0	900.9	1038.1	1227.4	1475.8	1839.1	2225.6	2344.4	2366.2	2387.9
45°	753.5	757.2	806.1	938.6	1132.6	1412.6	1838.6	2326.5	2516.3	2552.8	2586.4
47.5°	666.1	667.4	719.1	842.3	1023.7	1324.2	1835.4	2434.9	2693.2	2747.0	2790.9
50°	582.3	580.9	631.6	750.2	916.3	1208.4	1807.0	2557.7	2883.9	2945.1	2999.3
52.5°	486.5	493.0	545.6	659.1	818.6	1090.7	1724.2	2692.1	3082.3	3153.1	3221.1
55°	392.6	395.4	451.6	557.7	719.5	980.9	1580.0	2815.8	3275.8	3356.1	3431.7
57.5°	289.3	297.7	347.0	451.6	619.1	888.4	1396.8	2880.0	3439.8	3532.4	3622.2
60°	204.2	210.7	254.4	342.3	508.8	791.2	1239.1	2844.2	3571.6	3689.9	3797.9
62.5°	159.1	164.2	199.1	256.3	396.7	694.0	1126.1	2728.4	3718.2	3872.4	4019.7
65°	139.5	144.2	175.8	205.1	296.3	594.9	1064.2	2606.1	3914.4	4141.6	4346.9
67.5°	126.0	131.6	159.1	179.5	241.4	519.1	1047.9	2528.9	4010.7	4306.5	4583.3
69°	120.0	125.6	150.2	167.4	224.2	492.1	1020.0	2407.5	3880.8	4197.0	4499.2
70°	116.3	120.9	143.7	161.4	218.6	473.5	973.5	2255.8	3702.5	4021.8	4337.7
72.5°	107.9	110.2	130.2	147.4	202.8	382.8	748.8	1675.4	2929.5	3240.9	3547.6
75°	95.3	98.1	116.7	133.5	158.1	237.7	474.0	1036.3	1972.6	2204.5	2488.9
77.5°	82.3	84.7	100.9	127.4	122.8	148.4	283.3	576.7	1119.8	1254.5	1439.5
80°	66.0	68.8	83.3	126.5	101.4	115.3	203.7	403.3	549.8	590.0	634.3
82.5°	48.4	50.7	65.1	102.3	77.7	87.0	155.3	341.9	392.7	411.0	419.9
85°	24.7	25.1	41.4	62.3	49.3	45.1	87.4	234.0	266.5	271.1	278.0
87.5°	4.2	4.2	9.3	10.7	12.1	7.4	11.2	40.0	46.3	46.0	49.9
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1638.8	1638.5	1639.1	1639.2	1639.7	1638.0	1637.6	1637.2	1637.2	1638.1	1637.2
5°	1658.8	1658.7	1659.1	1659.8	1659.6	1658.5	1658.3	1658.6	1657.2	1656.8	1657.7
7.5°	1693.0	1692.6	1691.6	1693.1	1694.1	1694.2	1695.3	1694.4	1694.0	1693.5	1694.4
10°	1739.5	1739.4	1739.5	1741.1	1742.2	1742.4	1743.5	1742.3	1741.9	1742.8	1742.8
12.5°	1791.8	1790.8	1793.0	1794.0	1795.4	1798.2	1796.8	1798.6	1797.2	1799.5	1799.5
15°	1841.0	1841.7	1843.7	1844.6	1844.9	1847.2	1847.5	1848.8	1847.0	1847.5	1851.2
17.5°	1871.6	1871.2	1872.6	1873.3	1874.5	1875.7	1877.9	1879.1	1878.2	1878.2	1880.0
20°	1882.0	1880.6	1880.9	1881.6	1881.8	1882.9	1884.5	1884.7	1884.7	1885.1	1887.0
22.5°	1876.8	1874.4	1872.1	1872.3	1872.5	1872.2	1873.3	1874.0	1874.9	1875.8	1878.2
25°	1869.8	1864.4	1860.0	1859.6	1858.3	1858.4	1859.0	1859.1	1860.0	1861.4	1863.3
27.5°	1870.5	1863.5	1856.3	1853.8	1851.3	1849.7	1849.0	1847.9	1848.8	1850.2	1852.1
30°	1886.4	1875.4	1865.1	1862.0	1858.3	1855.2	1852.5	1849.3	1847.5	1848.8	1849.8
32.5°	1914.5	1903.5	1893.5	1888.4	1883.3	1877.7	1872.6	1869.3	1865.1	1863.7	1863.3
35°	1974.0	1965.4	1956.3	1950.5	1942.0	1937.6	1931.4	1922.3	1915.8	1915.4	1911.6
37.5°	2074.4	2070.2	2063.7	2057.7	2054.9	2043.3	2035.8	2031.2	2023.7	2028.4	2020.5
40°	2218.7	2225.7	2231.6	2228.1	2229.2	2226.2	2221.7	2226.1	2220.9	2219.5	2220.9
42.5°	2403.5	2428.1	2445.1	2450.5	2464.3	2469.7	2479.7	2495.4	2492.1	2509.8	2513.0
45°	2617.8	2652.9	2687.0	2712.4	2740.1	2771.6	2803.0	2827.9	2847.5	2846.5	2867.9
47.5°	2836.3	2888.2	2933.5	2971.7	3021.6	3067.7	3118.5	3169.8	3207.0	3220.9	3225.6
50°	3057.7	3117.4	3179.6	3235.7	3303.1	3377.0	3456.9	3536.8	3576.8	3609.3	3631.2
52.5°	3289.6	3358.1	3424.2	3503.6	3586.6	3684.1	3783.9	3897.7	3958.2	4019.6	4052.1
55°	3510.2	3586.7	3654.9	3761.0	3863.0	3979.4	4109.7	4253.5	4358.2	4430.3	4494.0
57.5°	3710.6	3792.0	3875.8	3995.6	4125.5	4261.5	4426.8	4601.4	4715.4	4841.0	4954.0
60°	3906.3	4008.8	4105.1	4261.6	4416.2	4585.2	4791.0	5012.1	5188.4	5359.1	5489.3
62.5°	4166.0	4297.4	4417.2	4614.1	4816.0	5025.0	5269.7	5531.2	5787.0	6018.6	6194.0
65°	4549.4	4742.6	4921.9	5171.3	5426.3	5701.2	5993.4	6327.5	6634.5	6941.0	7192.1
67.5°	4840.5	5085.1	5315.4	5616.9	5917.0	6235.7	6588.8	6983.3	7363.3	7708.9	8014.9
69°	4783.4	5042.8	5292.1	5599.9	5911.9	6237.4	6593.6	7013.1	7408.0	7783.3	8111.7
70°	4609.5	4879.8	5138.2	5443.6	5759.7	6086.0	6458.8	6870.7	7274.9	7674.9	8006.6
72.5°	3820.2	4091.6	4342.4	4654.9	4973.1	5315.8	5668.9	6070.3	6501.9	6929.3	7220.0
75°	2739.0	2978.8	3221.9	3486.3	3796.7	4079.2	4402.2	4785.1	5147.9	5479.6	5701.9
77.5°	1618.9	1762.4	1935.8	2060.2	2240.4	2395.9	2560.3	2773.0	2884.7	3098.6	3153.5
80°	659.6	655.6	681.4	655.9	661.6	640.7	618.5	614.4	579.5	623.3	590.7
82.5°	419.0	389.8	358.6	315.4	277.4	237.5	200.8	170.2	164.7	165.6	163.7
85°	276.0	263.4	235.4	197.9	161.3	129.4	103.5	81.9	80.9	79.5	79.1
87.5°	50.0	46.3	38.1	32.6	27.4	20.5	14.4	10.7	10.2	10.2	12.1
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5	1633.5
2.5°	1637.2	1637.2	1636.8	1637.7	1637.2	1635.8	1634.4
5°	1658.6	1656.8	1658.1	1659.5	1657.2	1657.7	1656.8
7.5°	1694.4	1694.0	1694.4	1693.0	1692.1	1693.5	1694.9
10°	1744.7	1743.7	1743.3	1744.7	1743.7	1742.8	1743.3
12.5°	1800.9	1800.9	1800.5	1800.9	1800.5	1799.1	1798.2
15°	1850.7	1851.6	1851.6	1850.7	1850.2	1849.8	1850.2
17.5°	1881.4	1880.9	1880.9	1880.9	1880.5	1880.9	1881.9
20°	1889.3	1887.9	1887.9	1888.8	1887.9	1888.8	1889.3
22.5°	1878.6	1878.6	1878.6	1879.1	1880.0	1880.0	1880.9
25°	1865.1	1865.1	1865.1	1866.1	1866.1	1866.5	1867.0
27.5°	1854.4	1854.4	1854.4	1855.4	1855.4	1855.8	1856.8
30°	1851.2	1851.2	1850.7	1851.2	1851.6	1851.6	1852.1
32.5°	1863.7	1862.3	1861.9	1860.9	1860.0	1860.0	1859.5
35°	1907.9	1904.2	1904.7	1901.9	1902.8	1900.5	1898.6
37.5°	2015.4	2011.6	2007.5	2001.9	1998.6	2002.8	2002.8
40°	2216.3	2218.6	2208.4	2205.6	2199.5	2203.7	2209.3
42.5°	2514.9	2517.7	2519.6	2504.2	2503.7	2500.5	2491.2
45°	2868.9	2862.3	2865.1	2858.2	2855.4	2845.1	2857.7
47.5°	3243.3	3247.5	3230.7	3225.1	3234.9	3218.2	3220.5
50°	3643.7	3644.7	3632.1	3629.3	3638.2	3606.5	3621.4
52.5°	4075.4	4077.2	4087.0	4075.4	4080.0	4072.6	4087.5
55°	4534.4	4569.3	4572.6	4585.1	4586.1	4601.4	4586.1
57.5°	5016.8	5056.3	5093.5	5144.2	5155.4	5149.3	5159.1
60°	5597.7	5701.4	5757.2	5836.8	5849.3	5883.8	5854.0
62.5°	6358.6	6520.0	6641.9	6703.3	6740.5	6812.6	6788.9
65°	7422.8	7614.9	7800.0	7888.4	7986.1	8088.4	8107.0
67.5°	8294.5	8508.0	8700.5	8853.5	8972.6	9048.0	9054.0
69°	8403.3	8630.3	8833.1	9003.3	9119.1	9196.3	9216.8
70°	8305.2	8537.3	8752.1	8914.5	9043.8	9122.4	9149.8
72.5°	7525.2	7801.4	7973.5	8139.1	8321.4	8345.2	8420.5
75°	5956.8	6204.7	6373.5	6417.2	6512.6	6632.6	6589.8
77.5°	3107.0	3214.9	3250.7	3174.4	3170.7	3241.0	3101.4
80°	591.6	592.6	582.8	579.1	586.1	579.1	569.3
82.5°	167.0	164.7	163.3	167.0	166.5	166.0	169.3
85°	77.2	74.9	71.2	71.2	73.0	70.2	71.6
87.5°	10.7	8.8	8.8	8.8	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)