

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: P180292

Luminaire Tested: **ICM-F04-LED-E1-RW-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180292  
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-F04-LED-E1-RW-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8764.4 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

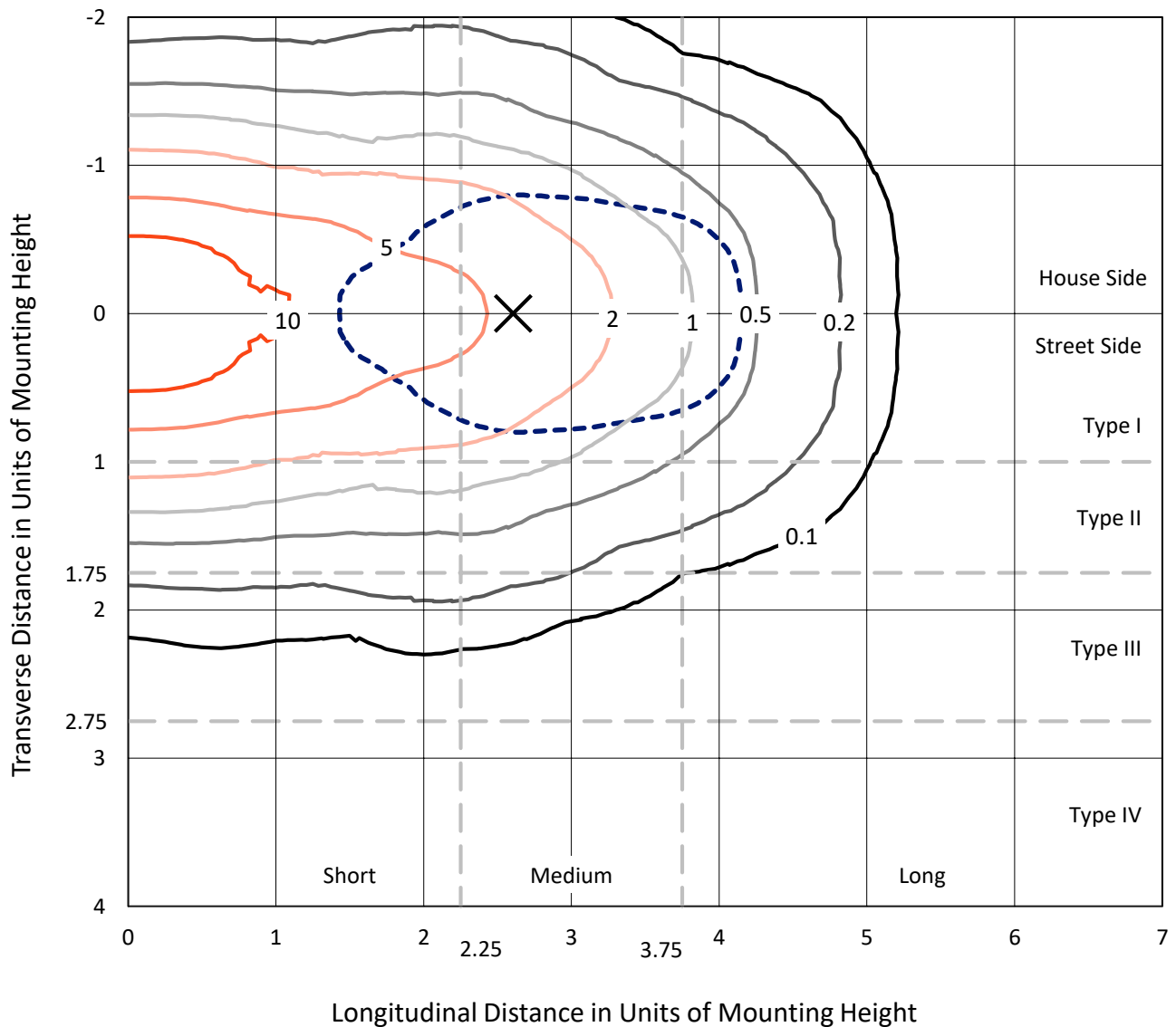
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

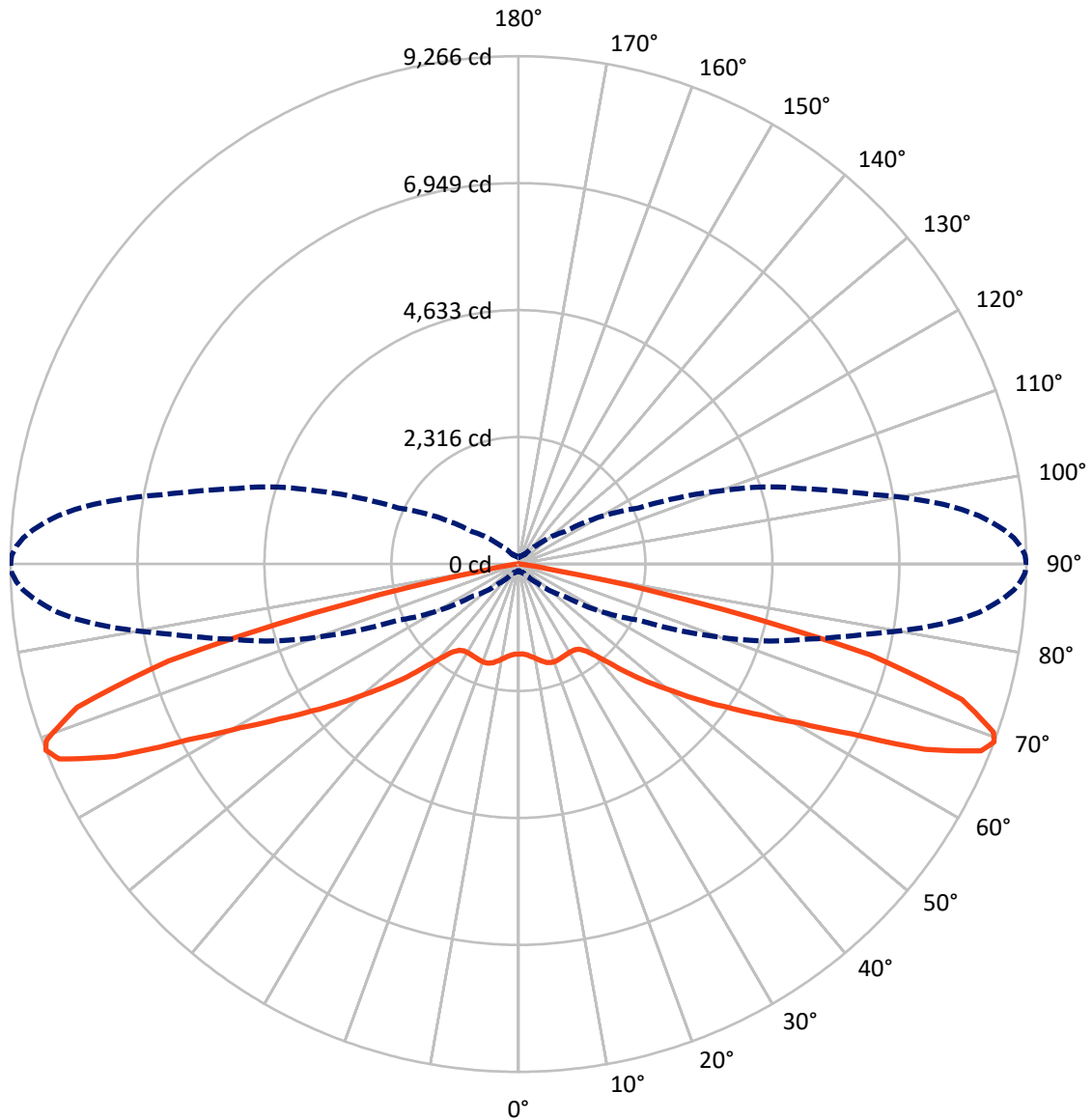
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 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
<b>House Side</b>	Lumens	4382.2	0.0	4382.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4382.2	0.0	4382.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8764.4	0.0	8764.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.1	1.8
10°-20°	508.1	5.8
20°-30°	823.2	9.4
30°-40°	1026.0	11.7
40°-50°	1282.1	14.6
50°-60°	1583.1	18.1
60°-70°	1967.1	22.4
70°-80°	1305.9	14.9
80°-90°	107.8	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°	8764.4	100.0
0°-180°	8764.4	100.0



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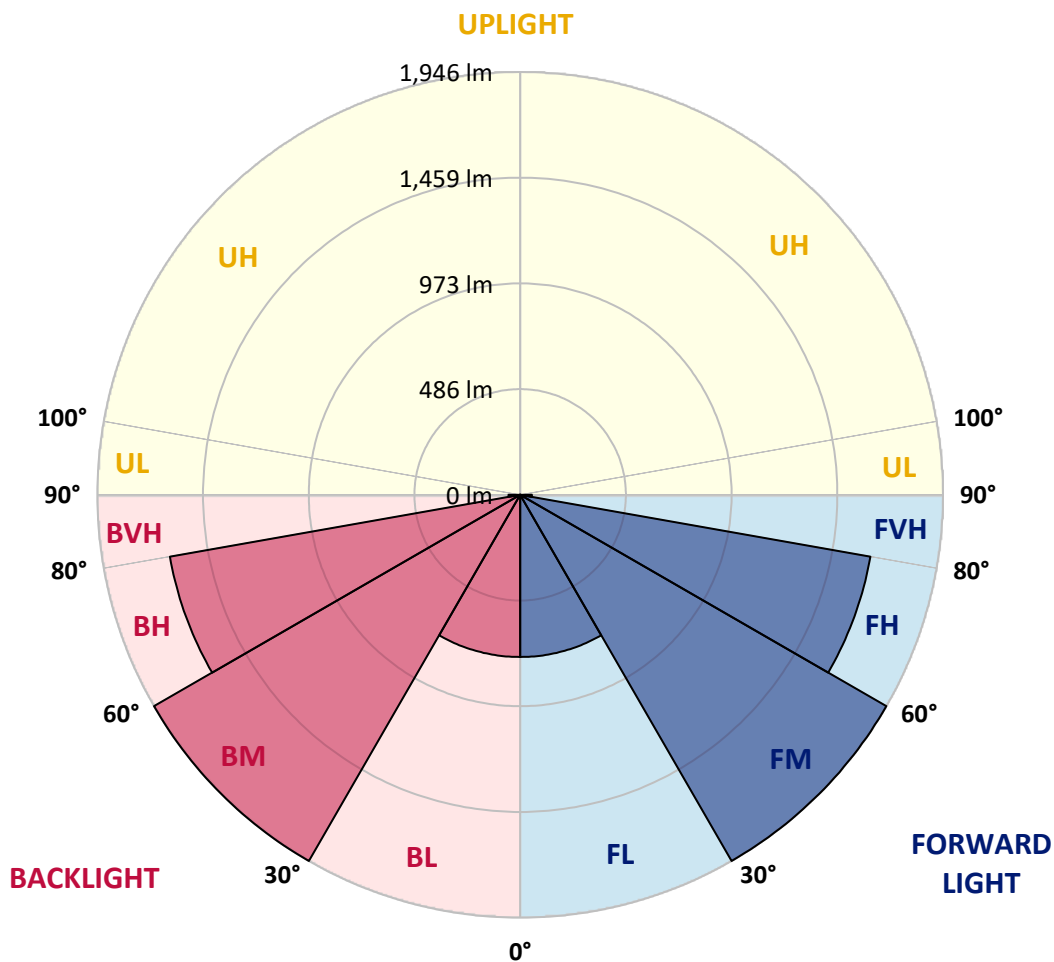
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.2	8.5			
FM	(30°-60°)	1945.6	22.2			
FH	(60°-80°)	1636.5	18.7			G1/1800
FVH	(80°-90°)	53.9	0.6			G1/100
BL	(0°-30°)	746.2	8.5	B2/1000		
BM	(30°-60°)	1945.6	22.2	B2/2500		
BH	(60°-80°)	1636.5	18.7	B3/2500		G3/2500
BVH	(80°-90°)	53.9	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°	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2
2.5°	1649.7	1651.1	1650.1	1652.0	1651.5	1651.5	1650.6	1648.8	1647.5	1646.7	1646.9
5°	1665.5	1663.6	1666.4	1669.3	1668.4	1668.8	1668.4	1668.4	1667.5	1667.4	1667.3
7.5°	1682.4	1681.9	1683.8	1691.4	1692.3	1695.1	1698.3	1700.7	1701.1	1701.6	1701.1
10°	1696.9	1697.4	1702.1	1712.8	1718.3	1727.3	1736.2	1743.3	1745.8	1747.5	1747.2
12.5°	1708.6	1709.0	1716.1	1732.8	1746.4	1763.3	1782.5	1793.2	1798.0	1798.8	1799.6
15°	1709.6	1710.9	1723.2	1750.7	1777.9	1805.4	1828.3	1842.8	1846.5	1849.0	1849.2
17.5°	1697.3	1698.2	1718.9	1759.5	1804.9	1847.9	1871.8	1878.3	1879.7	1880.7	1880.2
20°	1665.6	1667.9	1696.9	1757.2	1826.4	1882.5	1907.4	1898.4	1894.0	1893.5	1892.9
22.5°	1614.1	1613.7	1651.5	1732.8	1830.7	1909.7	1931.6	1908.3	1894.4	1891.6	1889.7
25°	1530.9	1536.6	1580.9	1678.1	1806.8	1915.7	1948.9	1913.4	1893.5	1889.1	1883.7
27.5°	1440.7	1443.9	1491.2	1595.4	1751.1	1894.7	1957.3	1923.7	1901.5	1895.3	1889.0
30°	1335.5	1339.6	1390.1	1499.2	1661.8	1840.5	1955.0	1947.1	1921.1	1913.7	1905.8
32.5°	1232.6	1237.2	1282.6	1401.8	1567.8	1766.2	1941.0	1980.3	1953.6	1945.4	1937.2
35°	1126.0	1133.0	1188.1	1308.8	1477.1	1683.4	1919.5	2022.8	2008.1	2000.8	1993.6
37.5°	1037.6	1039.1	1092.3	1219.0	1392.9	1604.3	1891.0	2076.7	2087.4	2087.4	2088.3
40°	939.0	947.8	1001.1	1134.9	1316.8	1537.5	1863.8	2149.6	2205.4	2215.6	2223.5
42.5°	850.6	851.5	905.7	1043.6	1234.1	1483.6	1848.8	2237.4	2356.9	2378.8	2400.6
45°	757.5	761.3	810.4	943.6	1138.6	1420.1	1848.4	2338.9	2529.7	2566.3	2600.2
47.5°	669.6	671.0	722.9	846.8	1029.2	1331.3	1845.1	2447.8	2707.6	2761.6	2805.8
50°	585.4	584.0	635.0	754.2	921.1	1214.8	1816.6	2571.3	2899.3	2960.8	3015.3
52.5°	489.1	495.6	548.5	662.5	823.0	1096.6	1733.4	2706.4	3098.7	3169.9	3238.3
55°	394.6	397.4	454.0	560.7	723.4	986.2	1588.5	2830.8	3293.2	3374.0	3450.0
57.5°	290.8	299.3	348.8	454.0	622.3	893.1	1404.2	2895.4	3458.1	3551.2	3641.5
60°	205.2	211.8	255.8	344.2	511.6	795.4	1245.7	2859.4	3590.7	3709.5	3818.2
62.5°	159.9	165.0	200.2	257.7	398.9	697.7	1132.0	2742.9	3738.0	3893.0	4041.0
65°	140.3	144.9	176.7	206.1	297.9	598.1	1069.9	2619.9	3935.3	4163.7	4370.1
67.5°	126.7	132.4	159.9	180.5	242.7	521.9	1053.5	2542.3	4032.0	4329.4	4607.7
69°	120.7	126.2	151.1	168.4	225.4	494.7	1025.5	2420.3	3901.4	4219.3	4523.2
70°	116.9	121.6	144.5	162.2	219.7	476.0	978.7	2267.8	3722.3	4043.2	4360.9
72.5°	108.5	110.8	131.0	148.3	203.9	384.8	752.8	1684.3	2945.1	3258.1	3566.4
75°	95.8	98.6	117.4	134.1	159.0	238.9	476.5	1041.9	1983.1	2216.2	2502.2
77.5°	82.8	85.1	101.5	128.2	123.4	149.2	284.7	579.8	1125.8	1261.2	1447.2
80°	66.4	69.2	83.7	127.3	102.0	115.9	204.8	405.4	552.7	593.1	637.8
82.5°	48.7	51.0	65.5	102.9	78.0	87.4	156.2	343.7	394.9	413.2	422.1
85°	24.7	25.3	41.7	62.7	49.6	45.4	87.9	235.2	267.9	272.6	279.4
87.5°	4.2	4.2	9.3	10.8	12.1	7.4	11.2	40.2	46.5	46.1	50.0
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°	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2
2.5°	1647.5	1647.2	1647.8	1647.8	1648.4	1646.7	1646.3	1646.0	1646.0	1646.9	1646.0
5°	1667.6	1667.5	1667.9	1668.7	1668.5	1667.4	1667.2	1667.4	1666.1	1665.5	1666.5
7.5°	1702.1	1701.6	1700.7	1702.1	1703.2	1703.3	1704.3	1703.5	1703.0	1702.5	1703.5
10°	1748.8	1748.6	1748.8	1750.4	1751.5	1751.7	1752.8	1751.6	1751.1	1752.0	1752.0
12.5°	1801.4	1800.3	1802.6	1803.5	1804.9	1807.7	1806.3	1808.2	1806.7	1809.1	1809.1
15°	1850.8	1851.5	1853.6	1854.3	1854.7	1856.9	1857.3	1858.6	1856.8	1857.3	1861.0
17.5°	1881.6	1881.1	1882.6	1883.4	1884.5	1885.8	1887.8	1889.1	1888.2	1888.2	1890.1
20°	1891.9	1890.5	1891.0	1891.6	1891.8	1892.9	1894.5	1894.7	1894.7	1895.2	1897.0
22.5°	1886.8	1884.5	1882.1	1882.2	1882.4	1882.2	1883.3	1883.9	1884.8	1885.8	1888.2
25°	1879.7	1874.3	1870.0	1869.5	1868.2	1868.3	1868.8	1869.0	1870.0	1871.4	1873.2
27.5°	1880.5	1873.3	1866.2	1863.6	1861.1	1859.5	1858.9	1857.8	1858.6	1860.1	1862.0
30°	1896.5	1885.3	1875.1	1871.9	1868.2	1865.0	1862.3	1859.2	1857.3	1858.7	1859.6
32.5°	1924.8	1913.7	1903.6	1898.4	1893.3	1887.6	1882.5	1879.3	1875.1	1873.7	1873.1
35°	1984.5	1975.8	1966.7	1960.9	1952.3	1947.9	1941.6	1932.6	1926.1	1925.6	1921.9
37.5°	2085.5	2081.2	2074.7	2068.7	2065.9	2054.2	2046.6	2042.0	2034.5	2039.2	2031.3
40°	2230.5	2237.5	2243.5	2240.0	2241.1	2238.0	2233.5	2238.0	2232.8	2231.4	2232.8
42.5°	2416.4	2441.0	2458.2	2463.5	2477.4	2482.8	2492.9	2508.7	2505.3	2523.2	2526.4
45°	2631.7	2667.0	2701.3	2726.8	2754.7	2786.3	2818.0	2843.0	2862.6	2861.6	2883.2
47.5°	2851.4	2903.6	2949.1	2987.6	3037.7	3084.1	3135.2	3186.6	3224.0	3238.1	3242.8
50°	3074.0	3134.1	3196.5	3253.0	3320.7	3394.9	3475.3	3555.6	3595.8	3628.6	3650.4
52.5°	3307.1	3375.9	3442.4	3522.2	3605.7	3703.7	3804.0	3918.4	3979.2	4041.0	4073.7
55°	3528.9	3605.8	3674.3	3781.0	3883.6	4000.6	4131.6	4276.1	4381.3	4453.8	4517.9
57.5°	3730.3	3812.2	3896.4	4016.8	4147.5	4284.2	4450.4	4625.9	4740.5	4866.7	4980.3
60°	3927.2	4030.2	4127.0	4284.3	4439.7	4609.6	4816.5	5038.8	5216.0	5387.7	5518.5
62.5°	4188.2	4320.3	4440.8	4638.6	4841.7	5051.7	5297.8	5560.6	5817.8	6050.6	6227.0
65°	4573.6	4767.8	4948.1	5198.8	5455.1	5731.6	6025.3	6361.2	6669.8	6977.9	7230.4
67.5°	4866.3	5112.2	5343.7	5646.7	5948.4	6268.9	6623.9	7020.4	7402.5	7750.0	8057.6
69°	4808.9	5069.7	5320.2	5629.7	5943.4	6270.6	6628.7	7050.5	7447.4	7824.8	8154.8
70°	4634.1	4905.9	5165.5	5472.6	5790.4	6118.5	6493.2	6907.4	7313.7	7715.8	8049.2
72.5°	3840.6	4113.3	4365.4	4679.7	4999.6	5344.2	5699.1	6102.5	6536.5	6966.2	7258.5
75°	2753.6	2994.6	3239.0	3504.8	3816.9	4100.9	4425.6	4810.6	5175.3	5508.7	5732.3
77.5°	1627.5	1771.9	1946.2	2071.2	2252.3	2408.7	2574.0	2787.8	2900.1	3115.1	3170.3
80°	663.2	659.2	685.0	659.4	665.1	644.1	621.8	617.7	582.7	626.6	593.9
82.5°	421.2	391.8	360.6	317.1	278.9	238.8	202.0	171.2	165.6	166.5	164.7
85°	277.5	264.7	236.7	198.9	162.1	130.0	104.1	82.2	81.3	79.9	79.4
87.5°	50.2	46.6	38.3	32.7	27.6	20.6	14.5	10.8	10.2	10.3	12.2
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):**

	84°	85°	86°	87°	88°	89°	90°
0°	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2	1642.2
2.5°	1646.0	1646.0	1645.5	1646.4	1646.0	1644.6	1643.2
5°	1667.5	1665.6	1667.0	1668.4	1666.1	1666.5	1665.6
7.5°	1703.5	1703.0	1703.5	1702.1	1701.1	1702.5	1703.9
10°	1753.9	1753.0	1752.6	1754.0	1753.0	1752.1	1752.6
12.5°	1810.5	1810.5	1810.1	1810.5	1810.1	1808.7	1807.7
15°	1860.6	1861.5	1861.5	1860.6	1860.1	1859.6	1860.1
17.5°	1891.5	1891.0	1891.0	1891.0	1890.5	1891.0	1891.9
20°	1899.4	1898.0	1898.0	1898.9	1898.0	1898.9	1899.4
22.5°	1888.6	1888.6	1888.6	1889.1	1890.1	1890.1	1891.0
25°	1875.1	1875.1	1875.1	1876.0	1875.9	1876.5	1876.9
27.5°	1864.3	1864.3	1864.3	1865.2	1865.3	1865.7	1866.6
30°	1861.0	1861.0	1860.6	1861.0	1861.5	1861.5	1862.0
32.5°	1873.7	1872.2	1871.8	1870.9	1870.0	1870.0	1869.4
35°	1918.2	1914.3	1914.8	1912.0	1912.9	1910.6	1908.8
37.5°	2026.1	2022.3	2018.2	2012.5	2009.3	2013.5	2013.5
40°	2228.0	2230.4	2220.1	2217.3	2211.3	2215.5	2221.0
42.5°	2528.3	2531.1	2533.0	2517.5	2517.0	2513.8	2504.5
45°	2884.1	2877.6	2880.4	2873.3	2870.5	2860.3	2872.9
47.5°	3260.5	3264.8	3247.9	3242.3	3252.1	3235.4	3237.6
50°	3663.2	3664.0	3651.5	3648.6	3657.5	3625.7	3640.7
52.5°	4097.1	4098.9	4108.8	4097.1	4101.8	4094.3	4109.2
55°	4558.5	4593.7	4597.0	4609.5	4610.4	4625.9	4610.5
57.5°	5043.6	5083.2	5120.6	5171.7	5182.9	5176.8	5186.5
60°	5627.5	5731.8	5787.9	5867.9	5880.5	5915.0	5885.2
62.5°	6392.5	6554.7	6677.3	6739.0	6776.4	6848.8	6825.1
65°	7462.4	7655.5	7841.6	7930.5	8028.6	8131.5	8150.2
67.5°	8338.7	8553.3	8746.8	8900.7	9020.4	9096.1	9102.2
69°	8448.1	8676.2	8880.1	9051.2	9167.7	9245.3	9265.9
70°	8349.4	8582.8	8798.8	8961.9	9092.0	9170.9	9198.6
72.5°	7565.3	7843.0	8016.0	8182.5	8365.7	8389.6	8465.4
75°	5988.5	6237.7	6407.5	6451.4	6547.3	6667.9	6624.9
77.5°	3123.6	3232.0	3268.1	3191.4	3187.6	3258.3	3118.0
80°	594.8	595.7	585.9	582.1	589.1	582.1	572.4
82.5°	167.8	165.6	164.1	167.9	167.4	166.9	170.2
85°	77.6	75.3	71.5	71.5	73.4	70.6	72.0
87.5°	10.8	8.9	8.9	8.9	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)