

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: P180353

Luminaire Tested: **ICS-F04-LED-E1-RW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180353  
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-F04-LED-E1-RW  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9284.5 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

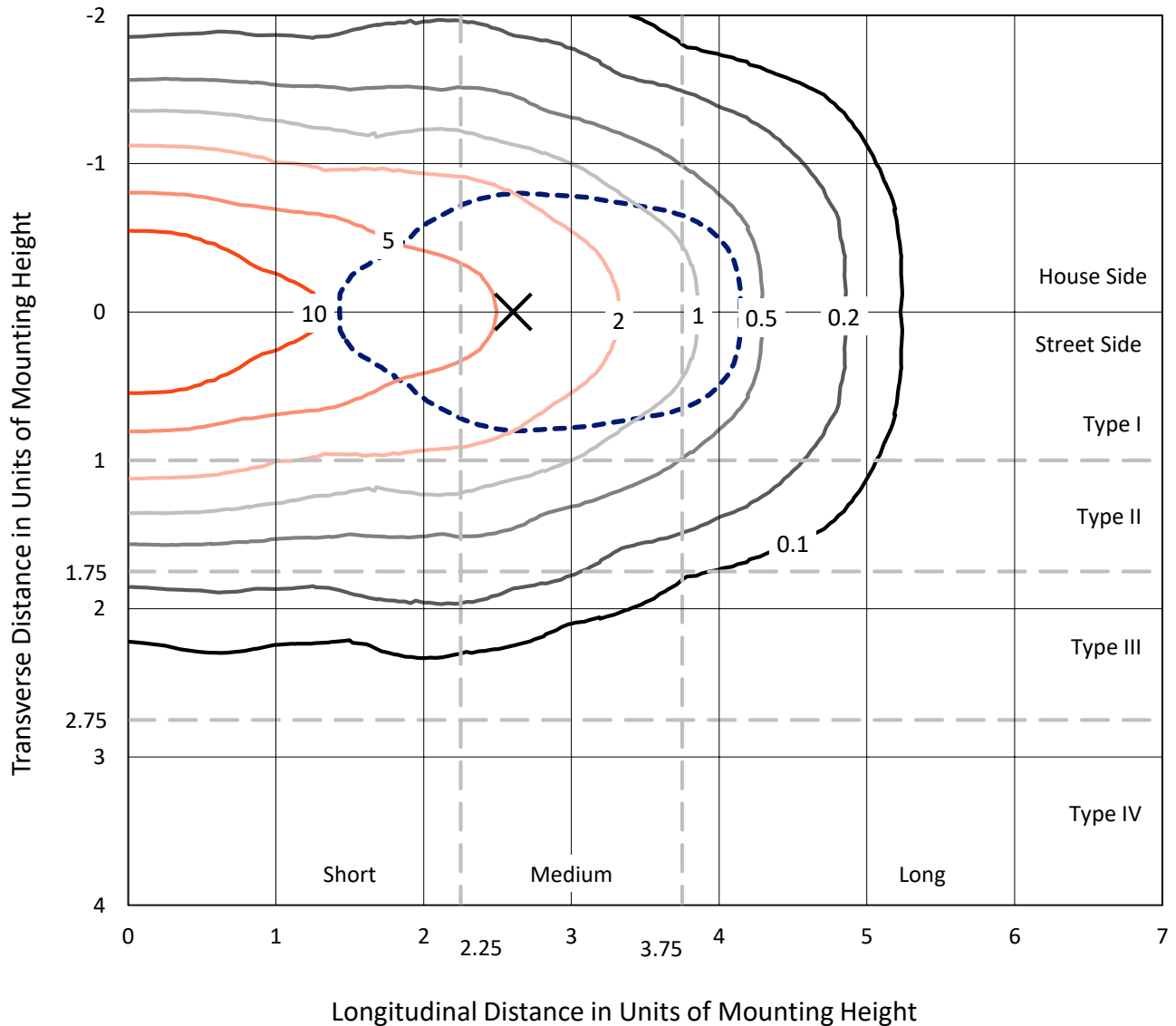
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

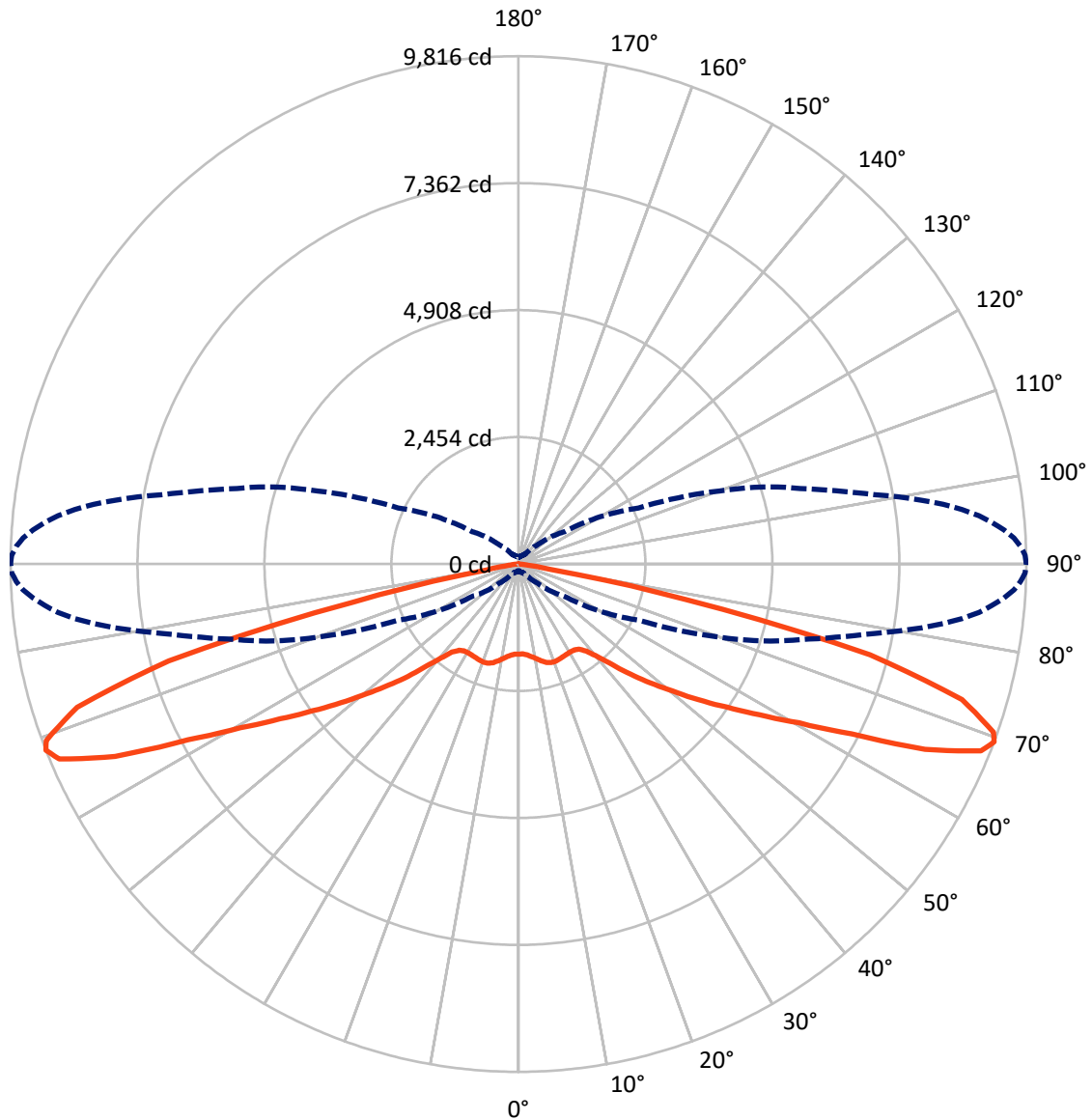
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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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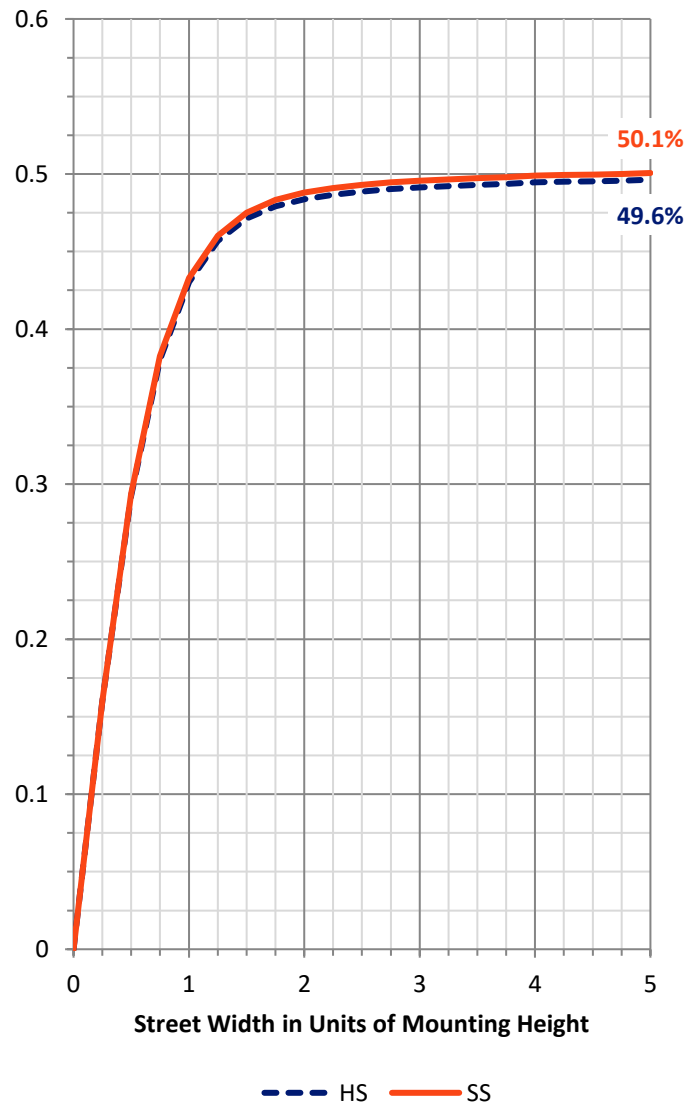
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4642.3	0.0	4642.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4642.3	0.0	4642.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9284.5	0.0	9284.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	1.8
10°-20°	538.3	5.8
20°-30°	872.1	9.4
30°-40°	1086.9	11.7
40°-50°	1358.2	14.6
50°-60°	1677.0	18.1
60°-70°	2083.8	22.4
70°-80°	1383.4	14.9
80°-90°	114.2	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°	9284.5	100.0
0°-180°	9284.5	100.0



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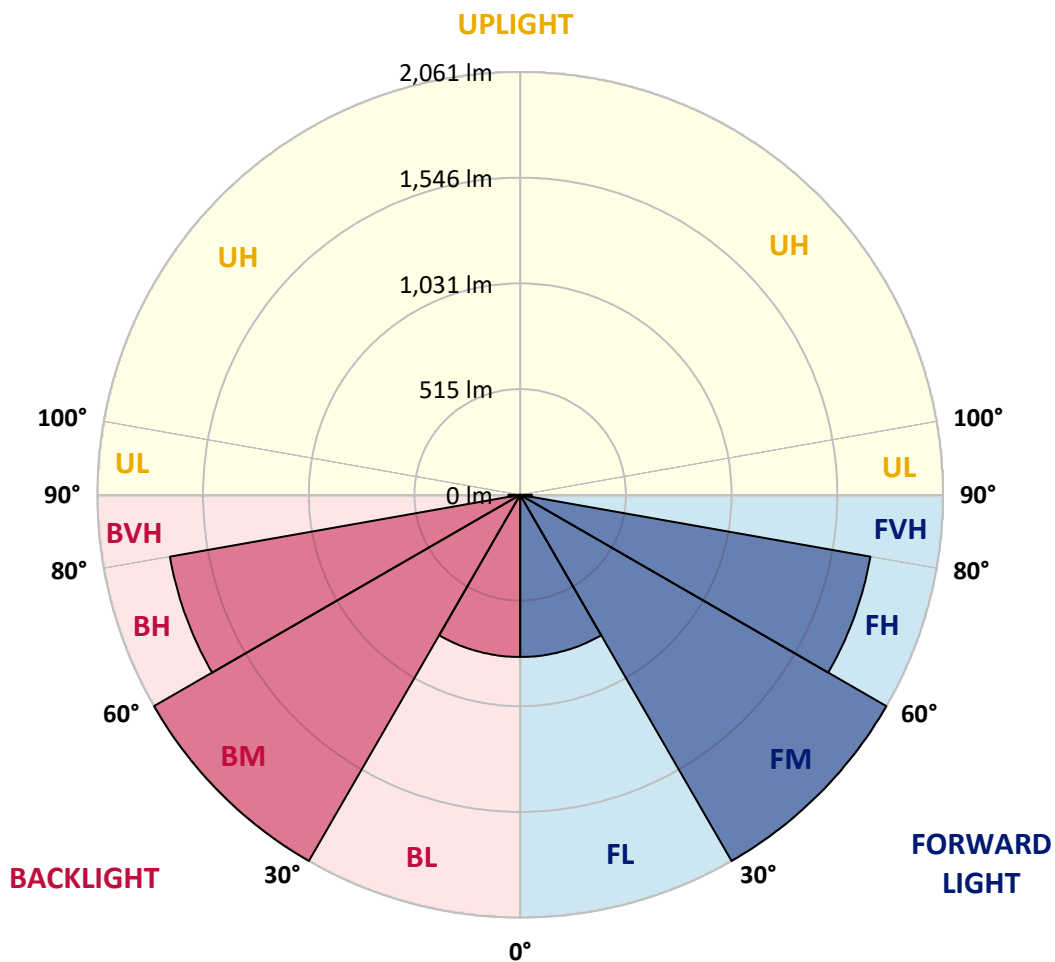
CATALOG NUMBER: ICS-F04-LED-E1-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.5	8.5			
FM	(30°-60°)	2061.0	22.2			
FH	(60°-80°)	1733.6	18.7			G1/1800
FVH	(80°-90°)	57.1	0.6			G1/100
BL	(0°-30°)	790.5	8.5	B2/1000		
BM	(30°-60°)	2061.0	22.2	B2/2500		
BH	(60°-80°)	1733.6	18.7	B3/2500		G3/2500
BVH	(80°-90°)	57.1	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°	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6
2.5°	1747.6	1749.0	1748.1	1750.0	1749.6	1749.6	1748.6	1746.6	1745.4	1744.5	1744.6
5°	1764.4	1762.4	1765.4	1768.4	1767.4	1767.9	1767.4	1767.4	1766.4	1766.3	1766.2
7.5°	1782.2	1781.8	1783.7	1791.6	1792.6	1795.6	1799.1	1801.6	1802.1	1802.6	1802.1
10°	1797.6	1798.1	1803.0	1814.4	1820.4	1829.8	1839.2	1846.6	1849.4	1851.1	1850.8
12.5°	1810.0	1810.5	1817.9	1835.7	1850.1	1868.0	1888.2	1899.6	1904.6	1905.5	1906.4
15°	1811.0	1812.4	1825.4	1854.6	1883.2	1912.5	1936.8	1952.2	1956.1	1958.8	1959.0
17.5°	1798.1	1799.0	1820.8	1864.0	1912.0	1957.6	1982.8	1989.8	1991.2	1992.2	1991.7
20°	1764.4	1766.9	1797.6	1861.5	1934.8	1994.2	2020.5	2011.1	2006.4	2005.8	2005.3
22.5°	1709.9	1709.4	1749.6	1835.7	1939.2	2023.0	2046.2	2021.5	2006.9	2003.9	2001.8
25°	1621.8	1627.7	1674.8	1777.8	1914.0	2029.4	2064.6	2027.0	2005.9	2001.2	1995.5
27.5°	1526.1	1529.6	1579.6	1690.1	1855.0	2007.2	2073.5	2037.8	2014.3	2007.7	2001.1
30°	1414.7	1419.2	1472.6	1588.1	1760.4	1949.6	2071.0	2062.6	2035.1	2027.3	2018.8
32.5°	1305.8	1310.7	1358.7	1485.0	1660.9	1870.9	2056.2	2097.8	2069.6	2060.8	2052.1
35°	1192.8	1200.2	1258.7	1386.4	1564.8	1783.2	2033.4	2142.8	2127.2	2119.6	2111.9
37.5°	1099.2	1100.6	1157.2	1291.4	1475.6	1699.5	2003.2	2199.8	2211.2	2211.2	2212.2
40°	994.6	1004.0	1060.6	1202.2	1394.9	1628.7	1974.4	2277.1	2336.3	2347.1	2355.5
42.5°	901.0	902.0	959.5	1105.6	1307.2	1571.7	1958.6	2370.2	2496.8	2519.9	2543.0
45°	802.4	806.4	858.4	999.6	1206.2	1504.4	1958.1	2477.7	2679.8	2718.7	2754.5
47.5°	709.3	710.8	765.8	897.0	1090.2	1410.2	1954.6	2593.1	2868.2	2925.4	2972.3
50°	620.2	618.6	672.7	799.0	975.8	1286.9	1924.4	2723.9	3071.4	3136.5	3194.2
52.5°	518.1	525.1	581.0	701.9	871.8	1161.6	1836.2	2867.0	3282.6	3358.0	3430.5
55°	418.1	421.0	481.0	593.9	766.3	1044.7	1682.7	2998.8	3488.7	3574.2	3654.7
57.5°	308.1	317.0	369.6	481.0	659.3	946.1	1487.5	3067.2	3663.3	3761.9	3857.5
60°	217.4	224.4	271.0	364.6	541.9	842.6	1319.6	3029.0	3803.8	3929.6	4044.7
62.5°	169.4	174.8	212.0	273.0	422.6	739.0	1199.2	2905.6	3959.8	4124.0	4280.9
65°	148.6	153.6	187.2	218.4	315.5	633.6	1133.4	2775.4	4168.8	4410.8	4629.4
67.5°	134.2	140.2	169.4	191.2	257.1	552.8	1116.0	2693.2	4271.3	4586.4	4881.1
69°	127.8	133.8	160.0	178.4	238.8	524.1	1086.3	2563.8	4132.9	4469.7	4791.6
70°	123.8	128.8	153.0	171.9	232.8	504.3	1036.8	2402.4	3943.2	4283.1	4619.6
72.5°	114.9	117.4	138.7	157.0	216.0	407.7	797.5	1784.2	3119.9	3451.4	3778.0
75°	101.6	104.5	124.4	142.1	168.4	253.1	504.8	1103.6	2100.8	2347.8	2650.7
77.5°	87.7	90.1	107.4	135.8	130.8	158.0	301.7	614.2	1192.6	1336.0	1533.0
80°	70.4	73.3	88.6	134.7	108.0	122.8	217.0	429.4	585.5	628.3	675.5
82.5°	51.6	54.0	69.4	109.0	82.8	92.6	165.4	364.0	418.3	437.7	447.1
85°	26.2	26.8	44.0	66.4	52.6	48.0	93.2	249.2	283.8	288.7	296.0
87.5°	4.4	4.4	10.0	11.4	12.8	8.0	11.9	42.6	49.3	48.9	53.0
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°	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6
2.5°	1745.3	1745.0	1745.6	1745.7	1746.3	1744.4	1744.0	1743.6	1743.6	1744.6	1743.6
5°	1766.6	1766.5	1766.9	1767.6	1767.5	1766.3	1766.1	1766.4	1764.9	1764.4	1765.4
7.5°	1803.1	1802.6	1801.6	1803.1	1804.2	1804.3	1805.4	1804.5	1804.0	1803.5	1804.5
10°	1852.6	1852.3	1852.6	1854.2	1855.4	1855.6	1856.8	1855.6	1855.0	1856.0	1856.0
12.5°	1908.3	1907.2	1909.6	1910.5	1912.0	1915.0	1913.5	1915.5	1914.0	1916.5	1916.4
15°	1960.7	1961.4	1963.6	1964.4	1964.8	1967.2	1967.6	1969.0	1967.0	1967.5	1971.4
17.5°	1993.2	1992.8	1994.2	1995.0	1996.3	1997.6	1999.9	2001.2	2000.2	2000.2	2002.2
20°	2004.3	2002.7	2003.2	2003.8	2004.0	2005.2	2006.9	2007.1	2007.2	2007.6	2009.6
22.5°	1998.8	1996.3	1993.8	1993.9	1994.1	1993.9	1995.1	1995.8	1996.7	1997.7	2000.2
25°	1991.3	1985.6	1980.9	1980.5	1979.1	1979.2	1979.8	1979.9	1980.8	1982.4	1984.4
27.5°	1992.1	1984.5	1976.9	1974.2	1971.5	1969.9	1969.2	1968.0	1969.0	1970.4	1972.4
30°	2009.0	1997.2	1986.3	1983.0	1979.1	1975.7	1972.9	1969.5	1967.5	1969.0	1970.0
32.5°	2038.9	2027.2	2016.6	2011.1	2005.7	1999.7	1994.3	1990.8	1986.4	1984.8	1984.4
35°	2102.2	2093.1	2083.4	2077.2	2068.2	2063.5	2056.8	2047.2	2040.3	2039.8	2035.8
37.5°	2209.2	2204.8	2197.8	2191.4	2188.4	2176.0	2168.1	2163.2	2155.2	2160.2	2151.8
40°	2362.9	2370.2	2376.6	2372.9	2374.1	2370.8	2366.0	2370.7	2365.3	2363.8	2365.2
42.5°	2559.8	2585.9	2604.0	2609.8	2624.4	2630.2	2640.8	2657.5	2654.0	2672.8	2676.4
45°	2787.9	2825.3	2861.6	2888.7	2918.1	2951.7	2985.1	3011.6	3032.5	3031.4	3054.2
47.5°	3020.6	3075.8	3124.1	3164.8	3217.9	3267.0	3321.2	3375.8	3415.4	3430.2	3435.2
50°	3256.4	3320.0	3386.2	3446.0	3517.7	3596.4	3681.5	3766.6	3809.2	3843.8	3867.2
52.5°	3503.4	3576.3	3646.7	3731.2	3819.7	3923.5	4029.8	4151.0	4215.4	4280.8	4315.5
55°	3738.2	3819.8	3892.4	4005.4	4114.0	4238.0	4376.7	4529.9	4641.4	4718.2	4786.0
57.5°	3951.7	4038.5	4127.6	4255.2	4393.6	4538.4	4714.5	4900.5	5021.8	5155.6	5275.8
60°	4160.2	4269.3	4371.9	4538.5	4703.2	4883.2	5102.3	5337.8	5525.6	5707.4	5846.0
62.5°	4436.7	4576.7	4704.3	4913.9	5129.0	5351.5	5612.1	5890.6	6163.0	6409.7	6596.4
65°	4845.0	5050.8	5241.7	5507.3	5778.8	6071.7	6382.9	6738.6	7065.6	7392.0	7659.4
67.5°	5155.0	5415.5	5660.8	5981.8	6301.4	6640.8	7016.9	7437.0	7841.8	8209.8	8535.7
69°	5094.2	5370.6	5636.0	5963.8	6296.1	6642.8	7022.1	7468.8	7889.3	8289.0	8638.8
70°	4909.0	5197.0	5472.0	5797.3	6133.9	6481.5	6878.6	7317.2	7747.6	8173.6	8526.8
72.5°	4068.4	4357.4	4624.5	4957.4	5296.2	5661.2	6037.2	6464.7	6924.4	7379.6	7689.2
75°	2917.0	3172.4	3431.2	3712.8	4043.4	4344.3	4688.2	5096.1	5482.5	5835.6	6072.4
77.5°	1724.1	1877.0	2061.6	2194.1	2386.0	2551.6	2726.6	2953.2	3072.1	3300.0	3358.4
80°	702.5	698.2	725.6	698.5	704.6	682.4	658.7	654.3	617.2	663.8	629.0
82.5°	446.2	415.0	381.9	335.9	295.4	252.9	213.9	181.3	175.4	176.4	174.4
85°	293.9	280.5	250.6	210.7	171.8	137.8	110.3	87.2	86.2	84.7	84.2
87.5°	53.2	49.4	40.6	34.7	29.2	21.8	15.4	11.4	10.9	10.9	12.9
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):**

	84°	85°	86°	87°	88°	89°	90°
0°	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6	1739.6
2.5°	1743.6	1743.6	1743.1	1744.1	1743.6	1742.1	1740.6
5°	1766.4	1764.4	1765.9	1767.4	1764.9	1765.4	1764.4
7.5°	1804.6	1804.0	1804.6	1803.0	1802.0	1803.6	1805.0
10°	1858.0	1857.0	1856.6	1858.0	1857.0	1856.0	1856.5
12.5°	1918.0	1918.0	1917.4	1918.0	1917.4	1916.0	1915.0
15°	1971.0	1972.0	1972.0	1971.0	1970.4	1970.0	1970.5
17.5°	2003.7	2003.2	2003.2	2003.2	2002.7	2003.2	2004.2
20°	2012.0	2010.6	2010.6	2011.6	2010.6	2011.6	2012.1
22.5°	2000.7	2000.7	2000.7	2001.2	2002.2	2002.2	2003.2
25°	1986.3	1986.3	1986.4	1987.3	1987.3	1987.8	1988.3
27.5°	1974.9	1974.9	1974.9	1976.0	1975.9	1976.4	1977.4
30°	1971.4	1971.5	1971.0	1971.4	1972.0	1972.0	1972.5
32.5°	1984.8	1983.4	1982.8	1981.8	1980.9	1980.8	1980.4
35°	2031.9	2027.9	2028.4	2025.4	2026.4	2024.0	2022.0
37.5°	2146.3	2142.4	2137.9	2132.0	2128.5	2133.0	2132.9
40°	2360.3	2362.8	2351.9	2349.0	2342.5	2346.9	2352.9
42.5°	2678.3	2681.3	2683.2	2667.0	2666.4	2663.0	2653.1
45°	3055.2	3048.3	3051.3	3043.9	3040.9	3030.0	3043.4
47.5°	3454.0	3458.5	3440.6	3434.7	3445.1	3427.3	3429.7
50°	3880.5	3881.5	3868.1	3865.2	3874.6	3840.9	3856.7
52.5°	4340.2	4342.2	4352.6	4340.2	4345.1	4337.2	4353.1
55°	4829.0	4866.2	4869.7	4883.1	4884.0	4900.4	4884.1
57.5°	5342.8	5384.8	5424.5	5478.5	5490.4	5484.0	5494.3
60°	5961.5	6071.9	6131.4	6216.0	6229.4	6266.1	6234.4
62.5°	6771.8	6943.7	7073.5	7138.8	7178.5	7255.3	7230.0
65°	7905.2	8109.8	8306.8	8401.0	8505.0	8614.0	8633.8
67.5°	8833.4	9060.8	9265.8	9428.8	9555.6	9635.9	9642.3
69°	8949.4	9191.0	9407.0	9588.3	9711.6	9793.9	9815.7
70°	8844.8	9092.0	9320.8	9493.7	9631.4	9715.2	9744.4
72.5°	8014.1	8308.4	8491.7	8668.0	8862.2	8887.4	8967.7
75°	6343.8	6607.9	6787.6	6834.2	6935.8	7063.6	7018.0
77.5°	3308.9	3423.8	3461.9	3380.7	3376.8	3451.6	3302.9
80°	630.0	631.1	620.6	616.7	624.1	616.7	606.3
82.5°	177.8	175.4	173.8	177.8	177.3	176.9	180.3
85°	82.2	79.8	75.8	75.8	77.8	74.8	76.3
87.5°	11.4	9.4	9.4	9.4	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)