

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: P180293

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180293
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
Description: ICON SITE MEDIUM 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: 9595.9 lumens
Efficiency: N/A
Efficacy: 93.9 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

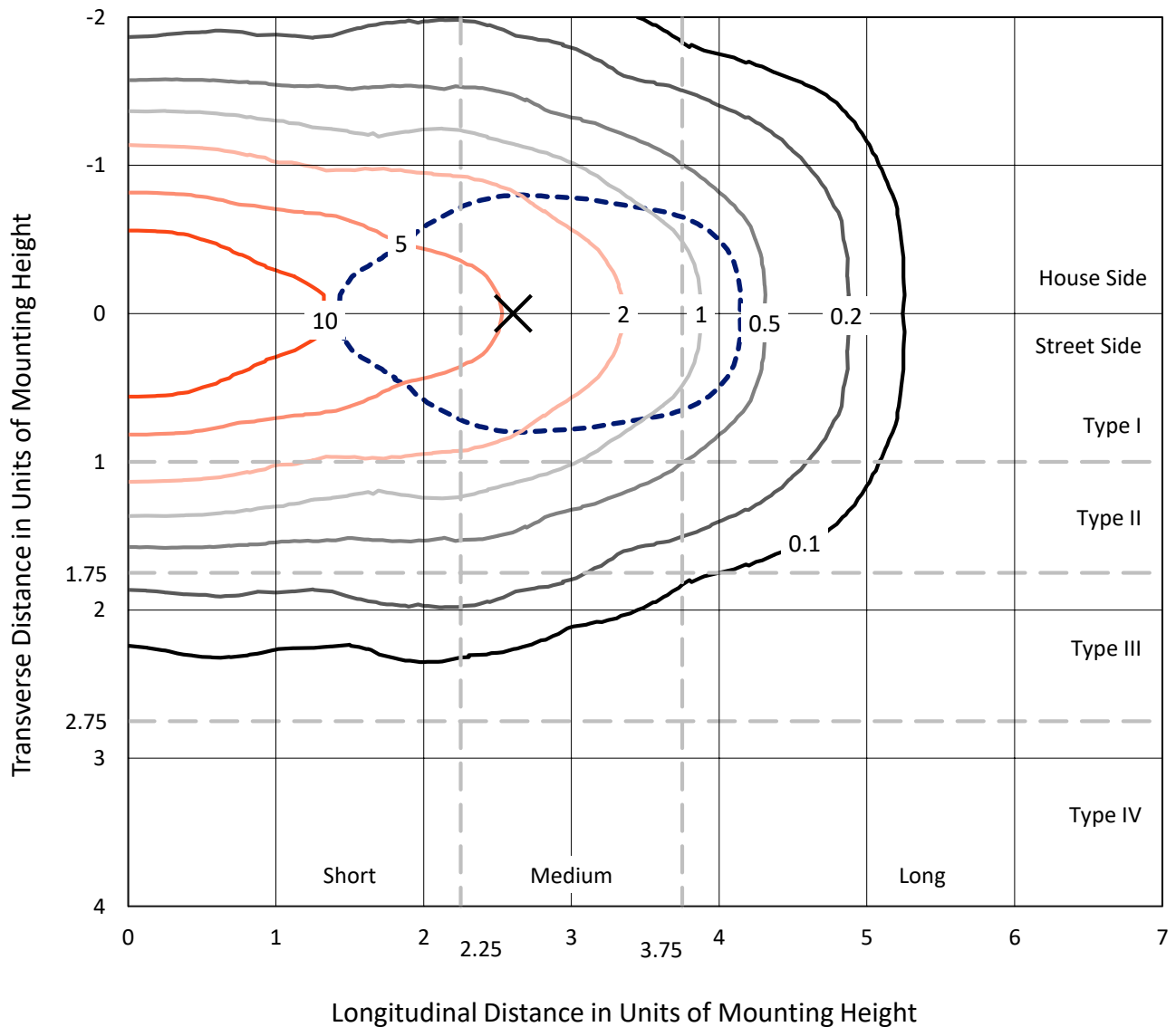
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

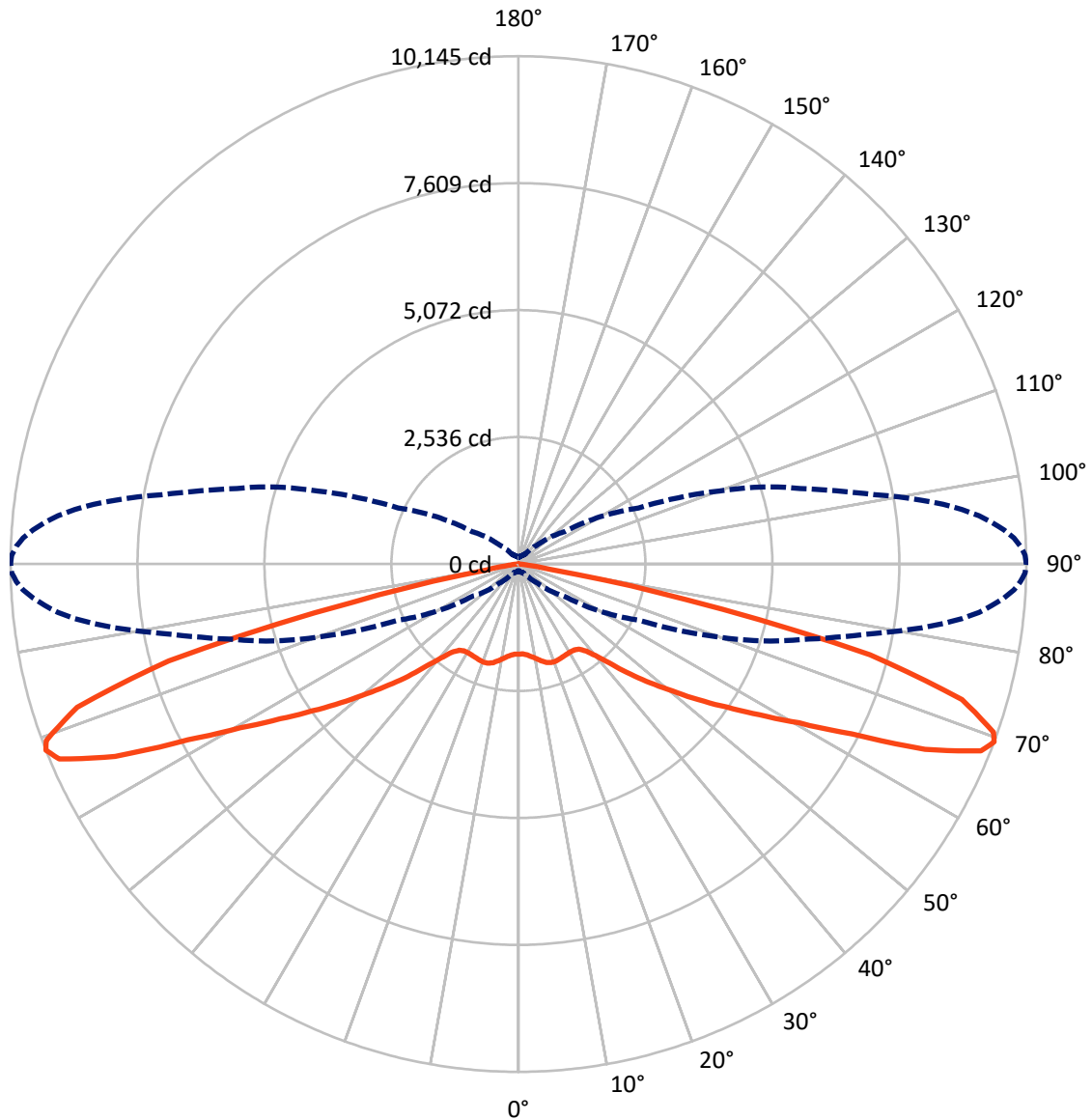
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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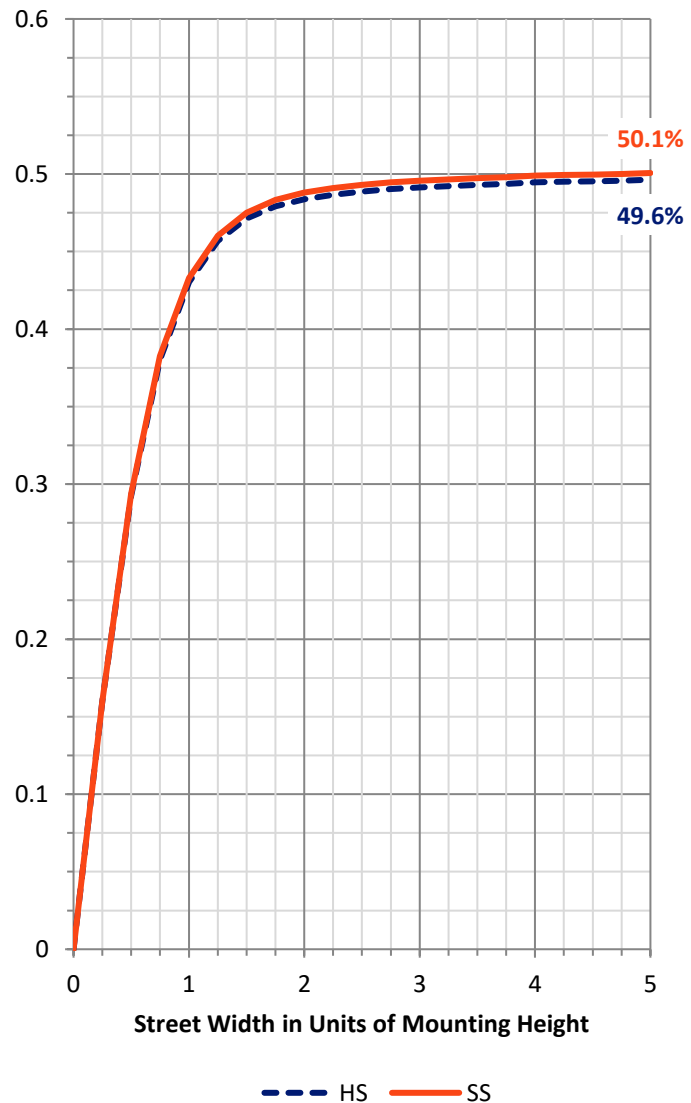
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4798.0	0.0	4798.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4798.0	0.0	4798.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9595.9	0.0	9595.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.8
10°-20°	556.4	5.8
20°-30°	901.4	9.4
30°-40°	1123.3	11.7
40°-50°	1403.7	14.6
50°-60°	1733.3	18.1
60°-70°	2153.7	22.4
70°-80°	1429.8	14.9
80°-90°	118.1	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°	9595.9	100.0
0°-180°	9595.9	100.0



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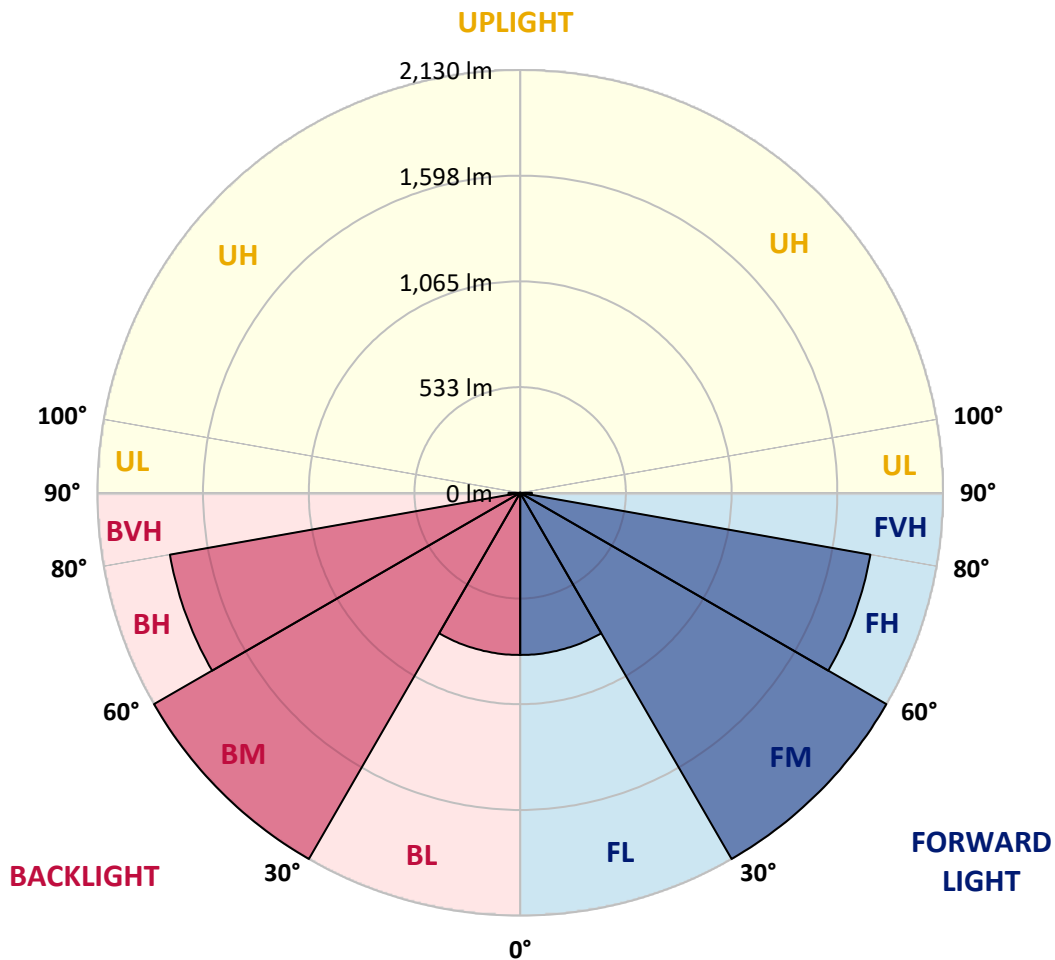
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.0	8.5			
FM (30°-60°)	2130.2	22.2			
FH (60°-80°)	1791.7	18.7			G1/1800
FVH (80°-90°)	59.0	0.6			G1/100
BL (0°-30°)	817.0	8.5	B2/1000		
BM (30°-60°)	2130.2	22.2	B2/2500		
BH (60°-80°)	1791.7	18.7	B3/2500		G3/2500
BVH (80°-90°)	59.0	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°	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0
2.5°	1806.2	1807.7	1806.7	1808.8	1808.2	1808.2	1807.2	1805.1	1803.8	1803.0	1803.2
5°	1823.6	1821.6	1824.6	1827.7	1826.6	1827.2	1826.6	1826.6	1825.7	1825.5	1825.4
7.5°	1842.1	1841.5	1843.5	1851.7	1852.8	1855.8	1859.4	1862.0	1862.5	1863.1	1862.5
10°	1857.9	1858.4	1863.5	1875.3	1881.5	1891.2	1900.8	1908.6	1911.4	1913.1	1912.9
12.5°	1870.7	1871.2	1878.9	1897.3	1912.2	1930.6	1951.6	1963.4	1968.5	1969.4	1970.3
15°	1871.6	1873.2	1886.5	1916.8	1946.4	1976.7	2001.7	2017.7	2021.8	2024.5	2024.7
17.5°	1858.4	1859.5	1882.0	1926.5	1976.2	2023.3	2049.3	2056.6	2058.1	2059.1	2058.6
20°	1823.5	1826.1	1857.9	1923.9	1999.7	2061.1	2088.3	2078.5	2073.7	2073.1	2072.6
22.5°	1767.3	1766.7	1808.2	1897.3	2004.3	2090.8	2114.9	2089.3	2074.2	2071.1	2068.9
25°	1676.1	1682.2	1731.0	1837.4	1978.2	2097.5	2133.8	2094.9	2073.1	2068.3	2062.4
27.5°	1577.3	1580.8	1632.7	1746.8	1917.3	2074.4	2143.1	2106.2	2081.9	2075.1	2068.3
30°	1462.1	1466.8	1522.1	1641.3	1819.5	2015.1	2140.5	2131.7	2103.4	2095.3	2086.6
32.5°	1349.6	1354.6	1404.3	1534.9	1716.6	1933.7	2125.1	2168.1	2139.0	2130.0	2120.9
35°	1232.8	1240.5	1300.8	1432.9	1617.3	1843.0	2101.6	2214.7	2198.6	2190.7	2182.7
37.5°	1136.0	1137.5	1195.9	1334.7	1525.1	1756.5	2070.3	2273.6	2285.4	2285.4	2286.3
40°	1028.0	1037.8	1096.1	1242.5	1441.7	1683.4	2040.6	2353.5	2414.6	2425.9	2434.5
42.5°	931.3	932.3	991.6	1142.7	1351.1	1624.5	2024.2	2449.7	2580.5	2604.4	2628.3
45°	829.4	833.5	887.3	1033.1	1246.6	1554.8	2023.7	2560.8	2769.7	2809.8	2846.9
47.5°	733.1	734.7	791.4	927.2	1126.8	1457.5	2020.1	2680.1	2964.5	3023.6	3072.0
50°	640.9	639.4	695.3	825.8	1008.6	1330.1	1988.9	2815.3	3174.3	3241.7	3301.4
52.5°	535.5	542.6	600.6	725.4	901.0	1200.6	1897.9	2963.2	3392.8	3470.6	3545.5
55°	432.1	435.2	497.1	613.9	792.0	1079.7	1739.2	3099.4	3605.7	3694.1	3777.3
57.5°	318.4	327.6	382.0	497.1	681.4	977.9	1537.4	3170.1	3786.2	3888.1	3987.0
60°	224.7	231.9	280.0	376.7	560.0	870.8	1363.8	3130.6	3931.3	4061.4	4180.3
62.5°	175.1	180.7	219.2	282.0	436.7	763.9	1239.4	3003.2	4092.6	4262.4	4424.4
65°	153.6	158.7	193.5	225.8	326.0	654.8	1171.4	2868.5	4308.7	4558.6	4784.6
67.5°	138.7	144.9	175.1	197.6	265.7	571.4	1153.5	2783.5	4414.6	4740.2	5044.8
69°	132.1	138.2	165.4	184.3	246.8	541.6	1122.7	2649.9	4271.5	4619.6	4952.3
70°	128.0	133.1	158.1	177.7	240.7	521.1	1071.5	2483.0	4075.5	4426.8	4774.5
72.5°	118.8	121.3	143.3	162.2	223.3	421.4	824.2	1844.1	3224.6	3567.2	3904.8
75°	104.9	108.1	128.5	147.0	174.0	261.6	521.7	1140.7	2171.2	2426.4	2739.6
77.5°	90.6	93.2	111.1	140.3	135.2	163.3	311.8	634.8	1232.6	1380.8	1584.5
80°	72.7	75.8	91.7	139.3	111.6	127.0	224.2	443.9	605.1	649.4	698.1
82.5°	53.2	55.8	71.6	112.7	85.6	95.8	171.0	376.3	432.4	452.4	462.1
85°	27.2	27.6	45.6	68.7	54.2	49.7	96.3	257.5	293.4	298.3	306.0
87.5°	4.7	4.7	10.2	11.7	13.3	8.2	12.3	44.0	50.9	50.5	54.8
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°	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0
2.5°	1803.8	1803.5	1804.1	1804.2	1804.8	1802.9	1802.4	1802.1	1802.1	1803.1	1802.1
5°	1825.9	1825.8	1826.2	1827.0	1826.8	1825.5	1825.3	1825.7	1824.1	1823.6	1824.6
7.5°	1863.5	1863.1	1862.0	1863.6	1864.8	1864.8	1866.0	1865.1	1864.6	1864.0	1865.1
10°	1914.7	1914.4	1914.7	1916.5	1917.7	1917.9	1919.1	1917.8	1917.2	1918.2	1918.3
12.5°	1972.3	1971.2	1973.6	1974.6	1976.2	1979.2	1977.7	1979.7	1978.2	1980.8	1980.8
15°	2026.4	2027.2	2029.4	2030.3	2030.7	2033.2	2033.6	2035.0	2032.9	2033.5	2037.6
17.5°	2060.1	2059.5	2061.1	2062.0	2063.3	2064.6	2067.0	2068.3	2067.3	2067.3	2069.3
20°	2071.5	2069.9	2070.3	2071.1	2071.3	2072.5	2074.2	2074.4	2074.4	2075.0	2077.0
22.5°	2065.9	2063.3	2060.7	2060.8	2061.0	2060.8	2062.0	2062.7	2063.6	2064.8	2067.3
25°	2058.1	2052.2	2047.4	2046.9	2045.5	2045.6	2046.2	2046.3	2047.3	2048.8	2050.9
27.5°	2058.9	2051.1	2043.2	2040.5	2037.7	2035.9	2035.3	2034.1	2035.0	2036.6	2038.6
30°	2076.4	2064.2	2053.0	2049.5	2045.5	2042.0	2039.0	2035.5	2033.5	2035.0	2036.1
32.5°	2107.4	2095.3	2084.2	2078.5	2072.9	2066.8	2061.2	2057.5	2052.9	2051.4	2050.9
35°	2172.8	2163.3	2153.3	2147.0	2137.5	2132.7	2125.9	2115.9	2108.8	2108.3	2104.2
37.5°	2283.4	2278.7	2271.5	2264.9	2261.8	2249.0	2240.9	2235.7	2227.5	2232.7	2224.0
40°	2442.2	2449.8	2456.4	2452.5	2453.7	2450.3	2445.4	2450.2	2444.7	2443.1	2444.6
42.5°	2645.6	2672.6	2691.4	2697.3	2712.5	2718.3	2729.4	2746.6	2743.1	2762.5	2766.2
45°	2881.4	2920.0	2957.6	2985.5	3016.0	3050.6	3085.3	3112.8	3134.2	3133.2	3156.8
47.5°	3122.0	3179.0	3228.9	3271.0	3325.9	3376.7	3432.6	3489.0	3530.0	3545.3	3550.3
50°	3365.6	3431.5	3499.7	3561.6	3635.7	3717.0	3805.0	3892.9	3937.0	3972.9	3996.9
52.5°	3620.9	3696.2	3769.0	3856.4	3947.8	4055.1	4165.0	4290.2	4356.7	4424.3	4460.1
55°	3863.7	3947.9	4022.9	4139.7	4252.0	4380.0	4523.6	4681.9	4797.1	4876.4	4946.5
57.5°	4084.3	4174.0	4266.2	4397.9	4541.0	4690.6	4872.6	5064.8	5190.2	5328.4	5452.9
60°	4299.7	4412.5	4518.5	4690.8	4861.0	5047.0	5273.5	5516.9	5710.9	5898.7	6042.1
62.5°	4585.5	4730.2	4862.0	5078.7	5301.0	5530.9	5800.3	6088.2	6369.7	6624.7	6817.7
65°	5007.5	5220.2	5417.5	5692.0	5972.7	6275.4	6597.0	6964.7	7302.6	7640.0	7916.3
67.5°	5327.9	5597.2	5850.6	6182.5	6512.8	6863.6	7252.2	7686.6	8104.8	8485.2	8822.1
69°	5265.1	5550.6	5825.1	6163.9	6507.3	6865.5	7257.6	7719.3	8153.9	8567.1	8928.5
70°	5073.7	5371.3	5655.7	5991.8	6339.7	6698.8	7109.3	7562.7	8007.5	8447.9	8812.9
72.5°	4205.0	4503.6	4779.6	5123.7	5473.8	5851.1	6239.7	6681.5	7156.7	7627.1	7947.1
75°	3014.8	3278.8	3546.3	3837.3	4179.0	4490.0	4845.4	5267.0	5666.4	6031.4	6276.1
77.5°	1782.0	1940.0	2130.8	2267.6	2466.0	2637.2	2818.2	3052.3	3175.2	3410.6	3471.1
80°	726.1	721.7	750.0	722.0	728.2	705.3	680.7	676.3	638.0	686.0	650.2
82.5°	461.1	428.9	394.7	347.2	305.3	261.4	221.0	187.3	181.2	182.2	180.2
85°	303.8	289.9	259.0	217.8	177.6	142.4	114.0	90.1	89.1	87.6	87.1
87.5°	55.0	51.0	42.0	35.8	30.1	22.5	15.8	11.7	11.3	11.3	13.3
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°	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0	1798.0
2.5°	1802.1	1802.1	1801.5	1802.6	1802.1	1800.6	1799.0
5°	1825.7	1823.6	1825.1	1826.6	1824.0	1824.6	1823.5
7.5°	1865.1	1864.6	1865.1	1863.5	1862.5	1864.0	1865.6
10°	1920.4	1919.3	1918.8	1920.4	1919.3	1918.3	1918.8
12.5°	1982.3	1982.3	1981.8	1982.3	1981.8	1980.3	1979.3
15°	2037.1	2038.2	2038.2	2037.0	2036.6	2036.1	2036.6
17.5°	2070.8	2070.3	2070.3	2070.3	2069.8	2070.3	2071.4
20°	2079.5	2078.0	2078.1	2079.1	2078.0	2079.1	2079.5
22.5°	2067.8	2067.8	2067.7	2068.3	2069.3	2069.3	2070.3
25°	2052.9	2052.9	2052.9	2054.0	2054.0	2054.5	2055.0
27.5°	2041.1	2041.1	2041.1	2042.2	2042.2	2042.7	2043.7
30°	2037.6	2037.6	2037.0	2037.6	2038.2	2038.2	2038.6
32.5°	2051.4	2049.9	2049.3	2048.4	2047.3	2047.3	2046.8
35°	2100.1	2095.9	2096.4	2093.4	2094.3	2091.8	2089.8
37.5°	2218.3	2214.2	2209.6	2203.5	2199.8	2204.5	2204.5
40°	2439.5	2442.0	2430.7	2427.7	2421.0	2425.7	2431.8
42.5°	2768.2	2771.2	2773.2	2756.3	2755.9	2752.3	2742.1
45°	3157.8	3150.5	3153.7	3146.0	3142.9	3131.6	3145.5
47.5°	3569.9	3574.5	3556.0	3549.9	3560.7	3542.3	3544.8
50°	4010.6	4011.7	3997.9	3994.8	4004.5	3969.7	3986.1
52.5°	4485.8	4487.8	4498.6	4485.8	4490.9	4482.6	4499.1
55°	4991.1	5029.4	5033.1	5046.9	5047.8	5064.8	5047.9
57.5°	5521.9	5565.4	5606.4	5662.3	5674.5	5667.9	5678.6
60°	6161.4	6275.6	6337.0	6424.6	6438.4	6476.3	6443.5
62.5°	6998.9	7176.6	7310.7	7378.3	7419.3	7498.7	7472.5
65°	8170.3	8381.8	8585.5	8682.8	8790.4	8902.9	8923.4
67.5°	9129.7	9364.7	9576.6	9745.1	9876.2	9959.1	9965.7
69°	9249.5	9499.4	9722.6	9910.0	10037.5	10122.4	10144.9
70°	9141.5	9397.0	9633.5	9812.2	9954.5	10041.0	10071.2
72.5°	8283.0	8587.0	8776.4	8958.8	9159.4	9185.5	9268.4
75°	6556.6	6829.4	7015.3	7063.5	7168.4	7300.5	7253.4
77.5°	3419.8	3538.6	3578.1	3494.1	3490.1	3567.3	3413.7
80°	651.2	652.3	641.5	637.4	645.0	637.4	626.6
82.5°	183.7	181.2	179.7	183.8	183.3	182.7	186.3
85°	85.0	82.4	78.3	78.3	80.4	77.4	78.9
87.5°	11.7	9.7	9.7	9.7	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)