

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: P181674

Luminaire Tested: **ICM-F06-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F06-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13924.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

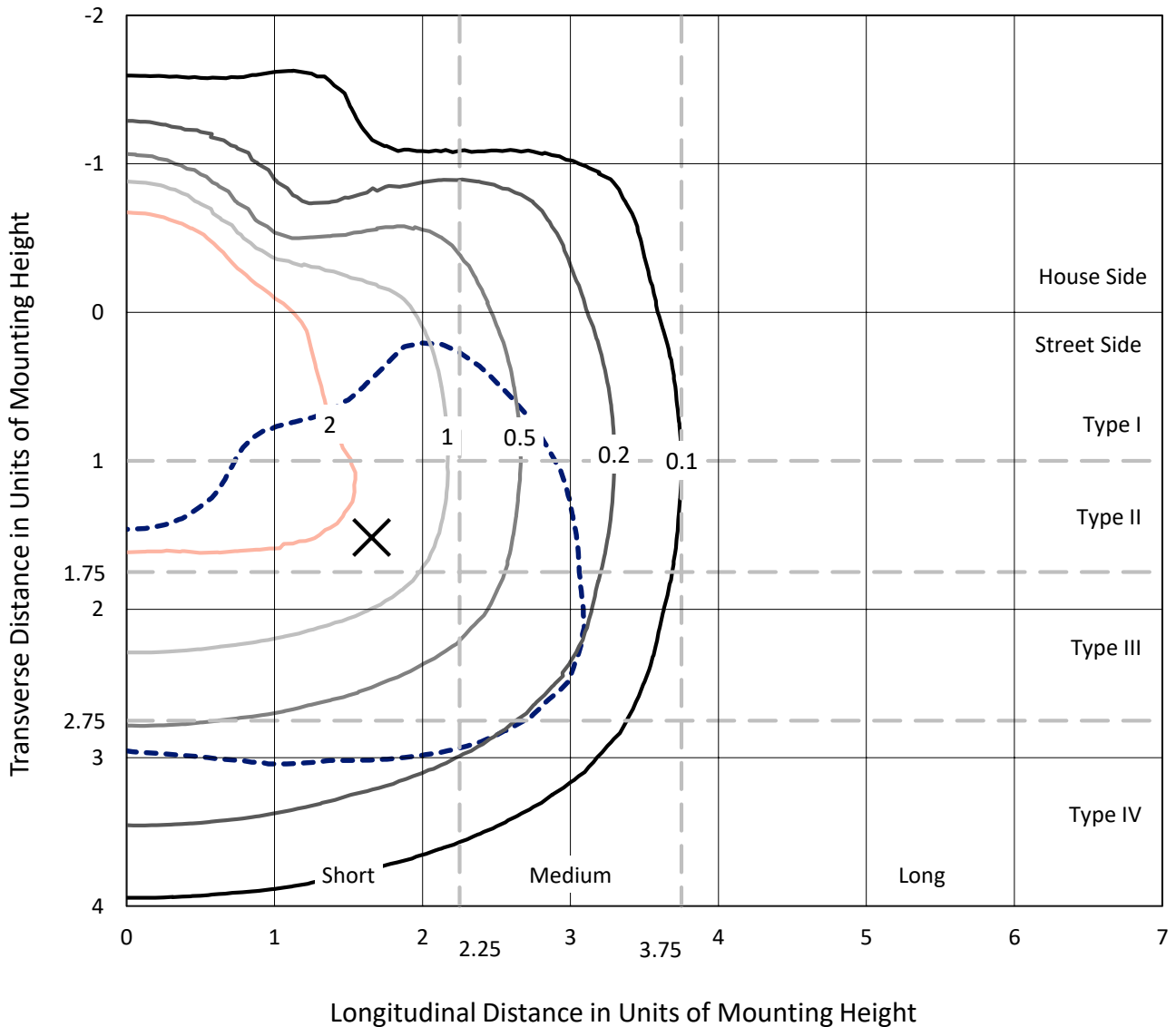
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

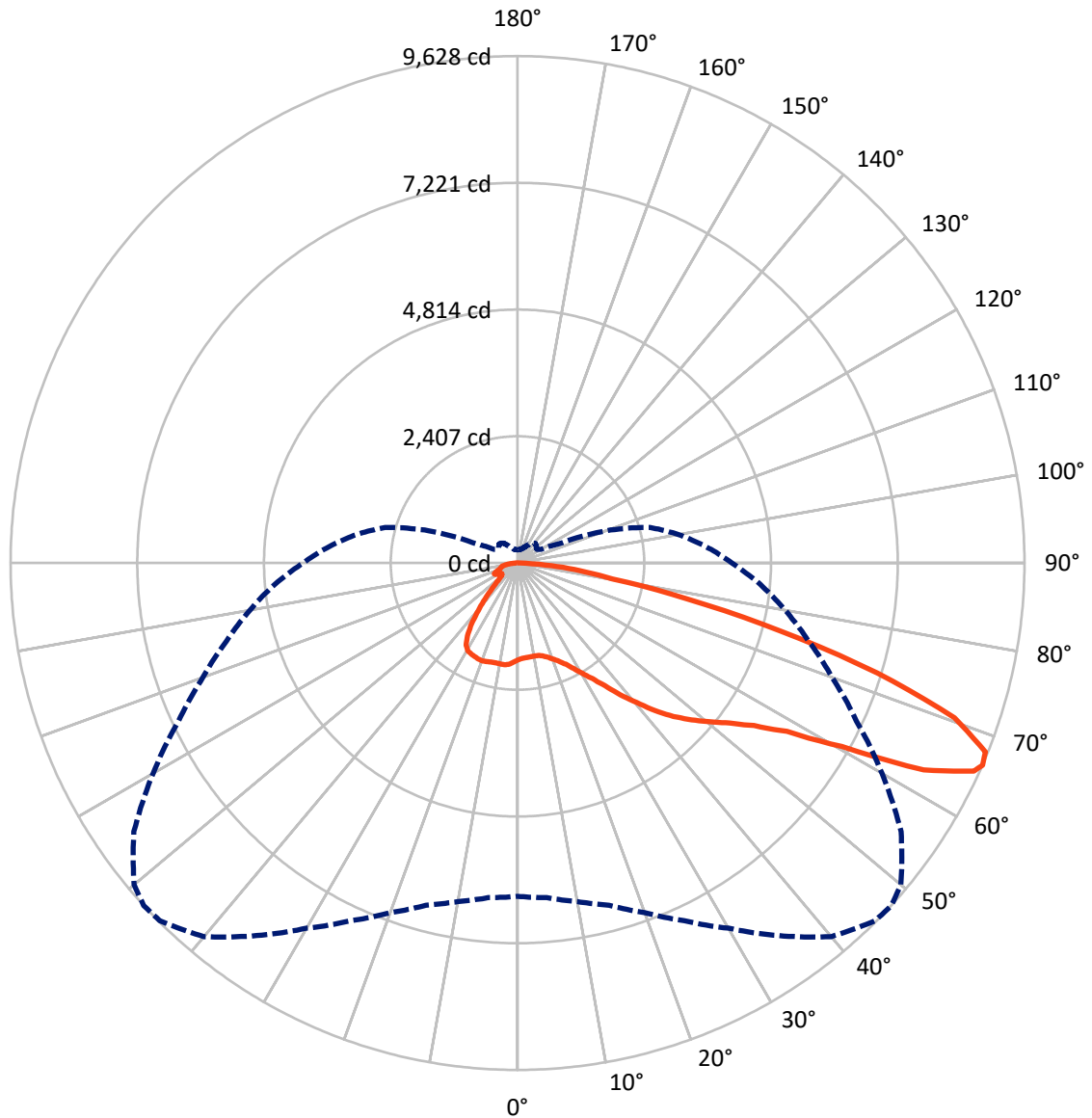
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.1	0.0	2971.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10953.3	0.0	10953.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	13924.4	0.0	13924.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.3
10°-20°	541.1	3.9
20°-30°	932.0	6.7
30°-40°	1410.1	10.1
40°-50°	1827.7	13.1
50°-60°	2519.8	18.1
60°-70°	3915.0	28.1
70°-80°	2276.6	16.3
80°-90°	323.7	2.3
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°	13924.4	100.0
0°-180°	13924.4	100.0



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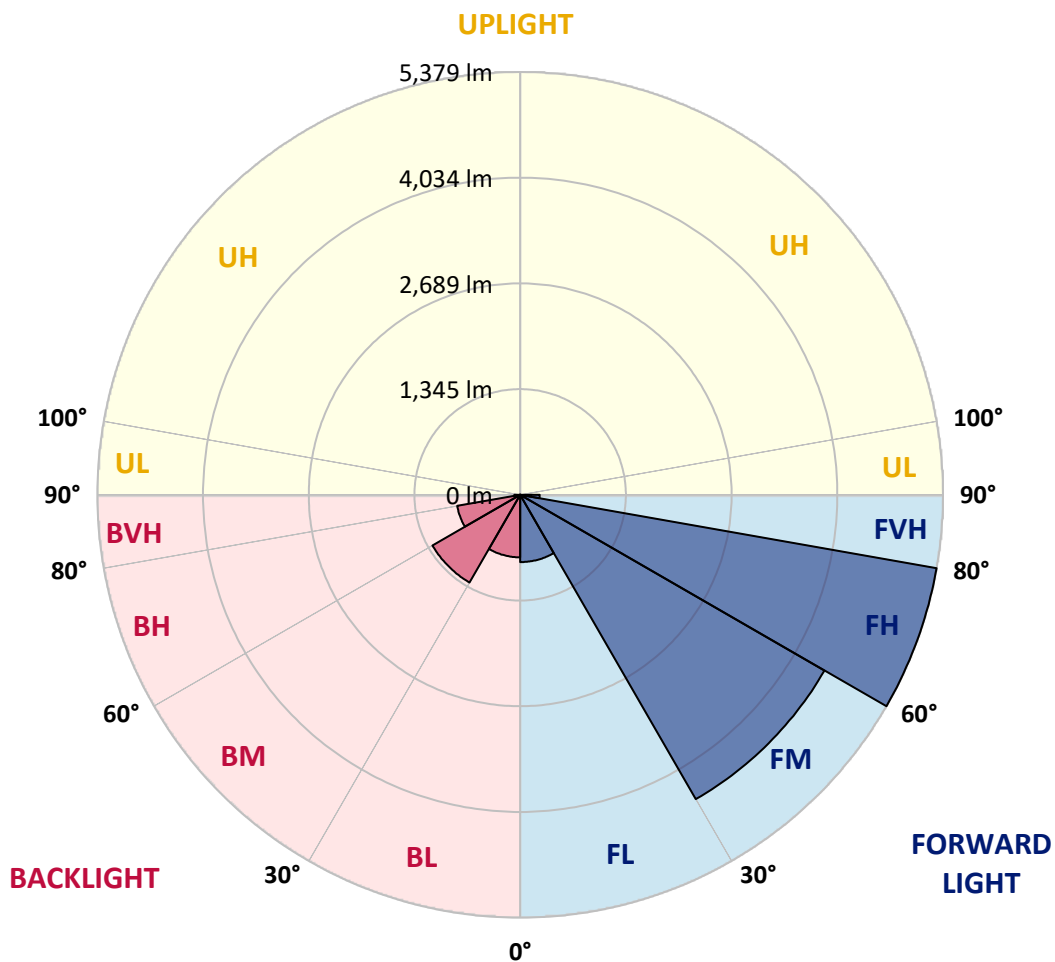
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.1	6.1			
FM	(30°-60°)	4469.7	32.1			
FH	(60°-80°)	5379.0	38.6			G3/7500
FVH	(80°-90°)	248.5	1.8			G3/500
BL	(0°-30°)	795.3	5.7	B2/1000		
BM	(30°-60°)	1288.0	9.2	B2/2500		
BH	(60°-80°)	812.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	75.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4
2.5°	1801.6	1807.7	1803.1	1804.7	1804.7	1806.2	1806.2	1807.7	1806.2	1810.8	1810.8	1813.9
5°	1769.3	1772.4	1770.9	1774.0	1777.0	1783.2	1781.6	1789.3	1790.8	1795.5	1795.5	1803.1
7.5°	1757.0	1754.0	1755.5	1760.1	1763.2	1766.2	1769.3	1775.5	1780.1	1790.8	1790.8	1796.9
10°	1769.3	1767.8	1769.3	1772.4	1772.4	1774.0	1770.9	1777.0	1780.1	1789.3	1789.3	1795.5
12.5°	1820.0	1820.0	1816.9	1816.9	1813.9	1810.8	1803.1	1798.5	1796.9	1798.5	1798.5	1801.6
15°	1901.4	1898.3	1892.2	1887.5	1881.4	1870.7	1859.9	1850.7	1844.6	1835.4	1835.4	1832.3
17.5°	1981.3	1976.7	1970.5	1964.4	1956.7	1946.0	1929.0	1918.3	1901.4	1890.6	1890.6	1884.5
20°	2073.4	2064.2	2056.6	2048.8	2033.5	2030.4	2013.5	1995.1	1975.2	1950.5	1950.5	1947.5
22.5°	2193.2	2177.9	2168.7	2164.0	2148.7	2144.1	2116.4	2090.3	2065.8	2033.5	2033.5	2025.8
25°	2314.5	2299.2	2294.6	2288.5	2277.7	2271.5	2245.4	2216.3	2184.0	2139.5	2139.5	2130.2
27.5°	2432.9	2434.3	2422.1	2426.7	2423.6	2412.9	2386.7	2357.6	2332.9	2280.8	2280.8	2270.1
30°	2580.3	2571.1	2564.9	2574.2	2563.4	2564.9	2541.9	2526.5	2486.5	2455.8	2455.8	2434.3
32.5°	2733.9	2732.3	2741.5	2747.6	2746.2	2743.1	2724.7	2709.3	2674.0	2629.4	2629.4	2620.2
35°	2944.3	2953.5	2961.1	2988.8	2988.8	3008.8	2990.3	2971.9	2930.4	2876.7	2876.7	2858.3
37.5°	3087.1	3090.2	3120.9	3157.8	3203.8	3246.8	3259.1	3263.7	3246.8	3206.9	3206.9	3179.3
40°	3217.6	3223.8	3273.0	3329.8	3397.3	3481.8	3532.5	3555.6	3560.1	3541.7	3541.7	3481.8
42.5°	3348.2	3357.4	3408.1	3491.0	3584.8	3692.2	3781.3	3838.2	3870.3	3870.3	3870.3	3835.1
45°	3500.2	3512.6	3567.8	3658.4	3767.5	3902.6	4025.5	4134.5	4186.8	4189.9	4189.9	4156.0
47.5°	3679.9	3690.7	3755.2	3847.4	3959.5	4096.1	4251.3	4375.7	4472.5	4478.6	4478.6	4450.9
50°	3911.8	3927.2	3981.0	4063.9	4179.1	4317.3	4472.5	4646.0	4747.4	4771.9	4771.9	4742.7
52.5°	4219.0	4222.1	4266.6	4343.5	4455.6	4587.7	4751.9	4940.9	5074.5	5094.4	5094.4	5046.8
55°	4642.9	4638.4	4667.5	4750.4	4834.9	4937.8	5108.3	5320.2	5469.2	5499.9	5499.9	5450.8
57.5°	5218.9	5214.3	5238.8	5258.8	5417.1	5516.9	5684.2	5887.0	6031.4	6120.4	6120.4	6035.9
60°	6111.2	6106.6	6146.5	6263.3	6381.5	6527.5	6690.3	6932.9	7135.7	7161.7	7161.7	7078.8
62.5°	6757.8	6780.9	6868.4	7005.1	7244.7	7530.4	7828.3	8147.8	8564.1	8696.1	8696.1	8656.1
65°	6532.0	6578.1	6699.5	6906.8	7226.3	7621.0	8087.9	8666.9	9224.4	9536.2	9536.2	9527.0
66°	6329.3	6380.0	6529.0	6728.6	7066.6	7498.1	8008.0	8639.3	9262.8	9606.8	9606.8	9628.3
67.5°	5960.7	6017.5	6163.5	6399.9	6728.6	7187.9	7736.1	8422.7	9127.7	9528.5	9528.5	9585.4
70°	5243.5	5307.9	5414.0	5609.0	5933.1	6343.1	6920.6	7535.0	8273.7	8733.0	8733.0	8802.1
72.5°	4383.4	4440.2	4558.4	4718.2	4983.9	5241.9	5695.0	6148.1	6676.4	7200.1	7200.1	7149.4
75°	3147.0	3171.6	3242.3	3415.7	3558.6	3790.5	4154.5	4526.2	4887.1	5126.7	5126.7	5160.5
77.5°	1635.7	1700.2	1800.0	1992.0	2147.2	2356.0	2592.6	2872.1	3136.2	3355.8	3355.8	3296.0
80°	1070.5	1098.1	1187.3	1285.5	1399.2	1532.8	1691.0	1795.5	1829.2	1815.4	1815.4	1829.2
82.5°	617.4	668.1	786.3	861.6	946.1	992.2	1118.1	1237.9	1305.5	1221.0	1221.0	1190.3
85°	78.3	101.4	319.4	402.4	460.7	529.9	568.3	640.5	597.5	534.5	534.5	651.2
87.5°	16.9	15.3	21.5	46.0	47.6	39.9	75.3	79.9	49.1	24.6	24.6	30.7
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4
2.5°	1816.9	1818.4	1821.5	1826.2	1829.2	1832.3	1835.4	1840.0	1843.1	1846.2	1852.3
5°	1809.2	1815.4	1821.5	1827.6	1835.4	1847.6	1855.4	1861.5	1867.6	1879.9	1884.5
7.5°	1804.7	1815.4	1824.6	1835.4	1847.6	1858.4	1872.2	1879.9	1889.1	1896.8	1906.1
10°	1801.6	1816.9	1826.2	1841.5	1855.4	1866.1	1881.4	1890.6	1901.4	1910.6	1915.3
12.5°	1807.7	1815.4	1824.6	1840.0	1856.8	1872.2	1889.1	1896.8	1906.1	1913.7	1915.3
15°	1833.9	1833.9	1835.4	1847.6	1864.6	1876.8	1890.6	1898.3	1903.0	1907.5	1907.5
17.5°	1881.4	1870.7	1863.0	1864.6	1875.3	1883.0	1890.6	1890.6	1887.5	1886.1	1883.0
20°	1936.8	1922.9	1907.5	1896.8	1893.7	1887.5	1883.0	1867.6	1855.4	1844.6	1836.9
22.5°	2016.6	1995.1	1973.6	1953.6	1935.2	1912.2	1886.1	1855.4	1826.2	1806.2	1793.9
25°	2114.9	2098.0	2071.9	2041.1	2018.2	1975.2	1941.3	1896.8	1859.9	1833.9	1812.3
27.5°	2254.6	2234.7	2210.2	2182.4	2148.7	2101.0	2059.6	2007.4	1962.8	1924.5	1896.8
30°	2428.2	2402.1	2383.6	2349.9	2326.8	2273.1	2231.6	2167.1	2081.1	2019.6	1981.3
32.5°	2606.3	2577.2	2561.9	2535.7	2509.6	2477.3	2414.4	2314.5	2204.0	2104.1	2038.1
35°	2844.4	2813.7	2786.1	2763.0	2724.7	2664.8	2609.4	2489.7	2337.6	2197.9	2087.3
37.5°	3143.9	3093.2	3024.1	2965.8	2898.2	2812.2	2727.7	2604.9	2431.3	2250.1	2102.6
40°	3463.4	3374.3	3276.0	3167.0	3050.3	2925.8	2829.0	2704.7	2509.6	2294.6	2091.8
42.5°	3796.7	3655.4	3518.7	3365.1	3202.3	3054.8	2928.9	2792.2	2568.0	2306.9	2048.8
45°	4126.9	3968.7	3761.3	3560.1	3354.3	3171.6	3030.3	2876.7	2621.7	2311.5	1992.0
47.5°	4400.3	4237.4	4001.0	3749.0	3504.9	3297.5	3131.6	2965.8	2693.9	2343.7	1978.2
50°	4689.1	4490.9	4228.2	3930.3	3653.8	3421.9	3245.3	3073.3	2795.3	2426.7	2022.7
52.5°	5003.8	4776.6	4469.4	4136.1	3833.5	3574.0	3382.0	3205.3	2924.3	2543.4	2107.2
55°	5387.8	5109.8	4776.6	4400.3	4076.2	3789.0	3577.0	3368.2	3077.9	2681.6	2213.2
57.5°	5974.5	5633.6	5258.8	4830.4	4470.9	4131.5	3878.1	3637.0	3315.9	2887.5	2357.6
60°	7035.9	6671.9	6185.0	5665.8	5243.5	4847.2	4475.6	4176.0	3781.3	3293.0	2677.0
62.5°	8556.3	8072.5	7422.8	6696.4	6143.5	5572.1	5152.9	4707.5	4217.5	3690.7	3053.3
65°	9401.1	8814.4	7945.1	7101.9	6390.7	5770.3	5237.3	4721.2	4177.6	3673.8	3140.9
66°	9505.5	8894.2	7991.1	7103.4	6357.0	5719.6	5159.0	4624.5	4068.5	3587.8	3104.0
67.5°	9462.5	8837.4	7906.7	6969.8	6211.0	5526.1	4947.0	4392.6	3838.2	3389.7	2981.1
70°	8757.5	8164.7	7250.8	6343.1	5622.8	4947.0	4394.2	3848.9	3340.5	2956.6	2655.6
72.5°	7272.3	6765.5	5971.5	5258.8	4693.6	4136.1	3667.7	3147.0	2716.9	2432.9	2254.6
75°	5249.6	4942.4	4219.0	3810.5	3314.4	2944.3	2489.7	2180.9	1872.2	1734.0	1703.3
77.5°	3315.9	2902.8	2443.5	2012.0	1654.1	1371.5	1067.4	906.1	755.6	740.3	893.9
80°	1678.7	1511.3	1164.2	927.6	780.2	631.3	499.2	377.9	264.2	318.0	380.9
82.5°	1099.7	916.9	718.8	591.4	514.5	427.0	331.7	230.4	168.9	190.4	261.1
85°	594.4	506.8	408.6	322.5	261.1	233.5	156.7	110.6	109.0	116.7	149.0
87.5°	43.0	43.0	33.8	30.7	36.8	30.7	27.6	27.6	26.1	27.6	36.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4
2.5°	1855.4	1859.9	1861.5	1869.1	1873.8	1876.8	1879.9	1879.9	1881.4	1886.1	1887.5
5°	1890.6	1898.3	1907.5	1913.7	1916.8	1926.0	1929.0	1929.0	1932.1	1938.2	1942.9
7.5°	1912.2	1922.9	1932.1	1935.2	1941.3	1944.4	1949.0	1952.1	1952.1	1958.2	1961.3
10°	1919.8	1926.0	1935.2	1935.2	1941.3	1941.3	1946.0	1947.5	1947.5	1953.6	1958.2
12.5°	1919.8	1922.9	1930.6	1930.6	1935.2	1936.8	1942.9	1947.5	1949.0	1956.7	1962.8
15°	1910.6	1913.7	1919.8	1921.4	1932.1	1938.2	1952.1	1961.3	1961.3	1968.9	1972.0
17.5°	1884.5	1892.2	1904.5	1916.8	1936.8	1950.5	1967.5	1975.2	1968.9	1964.4	1959.7
20°	1841.5	1855.4	1884.5	1915.3	1950.5	1968.9	1978.2	1970.5	1949.0	1927.5	1913.7
22.5°	1798.5	1826.2	1875.3	1921.4	1961.3	1973.6	1968.9	1941.3	1906.1	1879.9	1861.5
25°	1818.4	1850.7	1898.3	1939.8	1965.9	1962.8	1944.4	1906.1	1867.6	1833.9	1803.1
27.5°	1901.4	1936.8	1962.8	1976.7	1973.6	1952.1	1922.9	1879.9	1833.9	1789.3	1746.2
30°	1979.7	1998.2	2004.3	1993.6	1968.9	1933.7	1896.8	1847.6	1786.2	1730.9	1681.8
32.5°	2015.1	1996.7	1967.5	1938.2	1898.3	1867.6	1816.9	1763.2	1686.4	1620.4	1571.2
35°	2015.1	1941.3	1867.6	1806.2	1746.2	1707.9	1649.5	1577.3	1506.7	1451.4	1413.0
37.5°	1970.5	1829.2	1707.9	1608.0	1532.8	1491.4	1403.8	1339.3	1279.4	1260.9	1236.4
40°	1889.1	1680.2	1505.1	1374.6	1279.4	1218.0	1130.4	1085.9	1062.8	1053.6	1049.0
42.5°	1780.1	1514.3	1280.9	1119.6	1016.8	947.6	889.3	861.6	860.1	858.5	858.5
45°	1663.4	1336.2	1062.8	870.8	780.2	718.8	691.2	680.4	689.6	688.1	689.6
47.5°	1591.2	1201.0	863.2	658.9	589.8	549.9	536.0	540.7	548.3	545.2	545.2
50°	1582.0	1131.9	729.5	513.0	460.7	440.8	437.7	437.7	442.3	439.3	437.7
52.5°	1615.7	1121.2	660.5	440.8	399.4	382.4	379.4	377.9	376.3	367.1	359.4
55°	1674.1	1145.8	640.5	422.3	379.4	360.9	356.3	353.2	347.1	334.8	321.0
57.5°	1790.8	1222.5	658.9	431.5	385.5	370.1	365.5	365.5	353.2	333.3	313.3
60°	2071.9	1417.6	734.1	466.9	414.7	399.4	402.4	400.8	382.4	353.2	322.5
62.5°	2434.3	1672.6	832.5	516.1	451.5	448.5	463.8	460.7	430.0	385.5	340.9
65°	2601.8	1792.4	860.1	526.8	459.3	473.0	503.7	500.7	462.3	400.8	344.0
66°	2604.9	1792.4	847.8	517.6	448.5	465.4	496.1	494.5	456.2	394.7	337.9
67.5°	2541.9	1743.2	812.5	499.2	427.0	439.3	466.9	465.4	430.0	379.4	325.6
70°	2305.3	1560.5	721.9	466.9	397.8	391.6	400.8	394.7	371.7	336.4	299.5
72.5°	1975.2	1310.1	629.7	442.3	377.9	353.2	347.1	342.5	324.1	304.1	281.0
75°	1555.8	1036.8	552.9	423.9	359.4	327.2	316.4	310.2	298.0	284.1	265.7
77.5°	959.9	741.9	482.2	399.4	345.6	313.3	305.7	296.5	278.0	261.1	247.3
80°	428.5	459.3	396.3	348.7	308.7	279.5	267.3	253.4	235.0	224.3	216.6
82.5°	285.7	296.5	287.2	261.1	233.5	210.4	192.0	192.0	188.9	179.7	176.7
85°	182.8	184.3	178.1	161.3	150.5	136.7	129.0	130.5	136.7	135.2	133.6
87.5°	41.5	41.5	49.1	46.0	53.8	56.8	61.4	66.0	75.3	75.3	79.9
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):

	160°	165°	170°	175°	180°
0°	1835.4	1835.4	1835.4	1835.4	1835.4
2.5°	1889.1	1892.2	1895.3	1890.6	1892.2
5°	1942.9	1941.3	1949.0	1944.4	1947.5
7.5°	1959.7	1961.3	1967.5	1967.5	1968.9
10°	1961.3	1964.4	1972.0	1976.7	1979.7
12.5°	1968.9	1975.2	1987.5	1990.5	1990.5
15°	1975.2	1978.2	1985.9	1988.9	1992.0
17.5°	1953.6	1947.5	1950.5	1952.1	1950.5
20°	1899.8	1893.7	1892.2	1886.1	1889.1
22.5°	1841.5	1824.6	1813.9	1801.6	1801.6
25°	1770.9	1744.8	1723.3	1701.8	1706.3
27.5°	1704.8	1671.0	1649.5	1635.7	1632.7
30°	1640.3	1604.9	1585.0	1568.1	1568.1
32.5°	1532.8	1508.2	1482.1	1471.4	1469.9
35°	1383.8	1368.5	1347.0	1342.3	1334.7
37.5°	1216.4	1211.8	1193.4	1191.8	1184.2
40°	1041.3	1044.4	1038.2	1035.2	1030.6
42.5°	866.2	881.6	878.5	876.9	873.9
45°	698.8	709.6	711.1	715.7	723.4
47.5°	549.9	552.9	556.0	554.4	556.0
50°	430.0	422.3	420.8	416.2	420.8
52.5°	347.1	334.8	328.7	322.5	319.4
55°	305.7	293.4	287.2	284.1	281.0
57.5°	294.9	282.6	273.4	267.3	265.7
60°	298.0	279.5	267.3	259.5	258.0
62.5°	305.7	281.0	264.2	256.5	255.0
65°	304.1	278.0	262.6	253.4	251.9
66°	299.5	274.9	259.5	251.9	250.3
67.5°	291.8	270.3	256.5	250.3	247.3
70°	278.0	264.2	253.4	245.8	242.7
72.5°	265.7	255.0	245.8	238.0	236.6
75°	251.9	242.7	233.5	227.4	225.8
77.5°	235.0	225.8	219.6	215.0	213.5
80°	207.4	201.2	195.1	188.9	188.9
82.5°	172.0	167.4	161.3	156.7	155.2
85°	132.1	132.1	127.4	122.9	121.3
87.5°	78.3	76.8	76.8	72.2	72.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)