

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: P181659

Luminaire Tested: **ICM-E05-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181659
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-E05-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14056.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

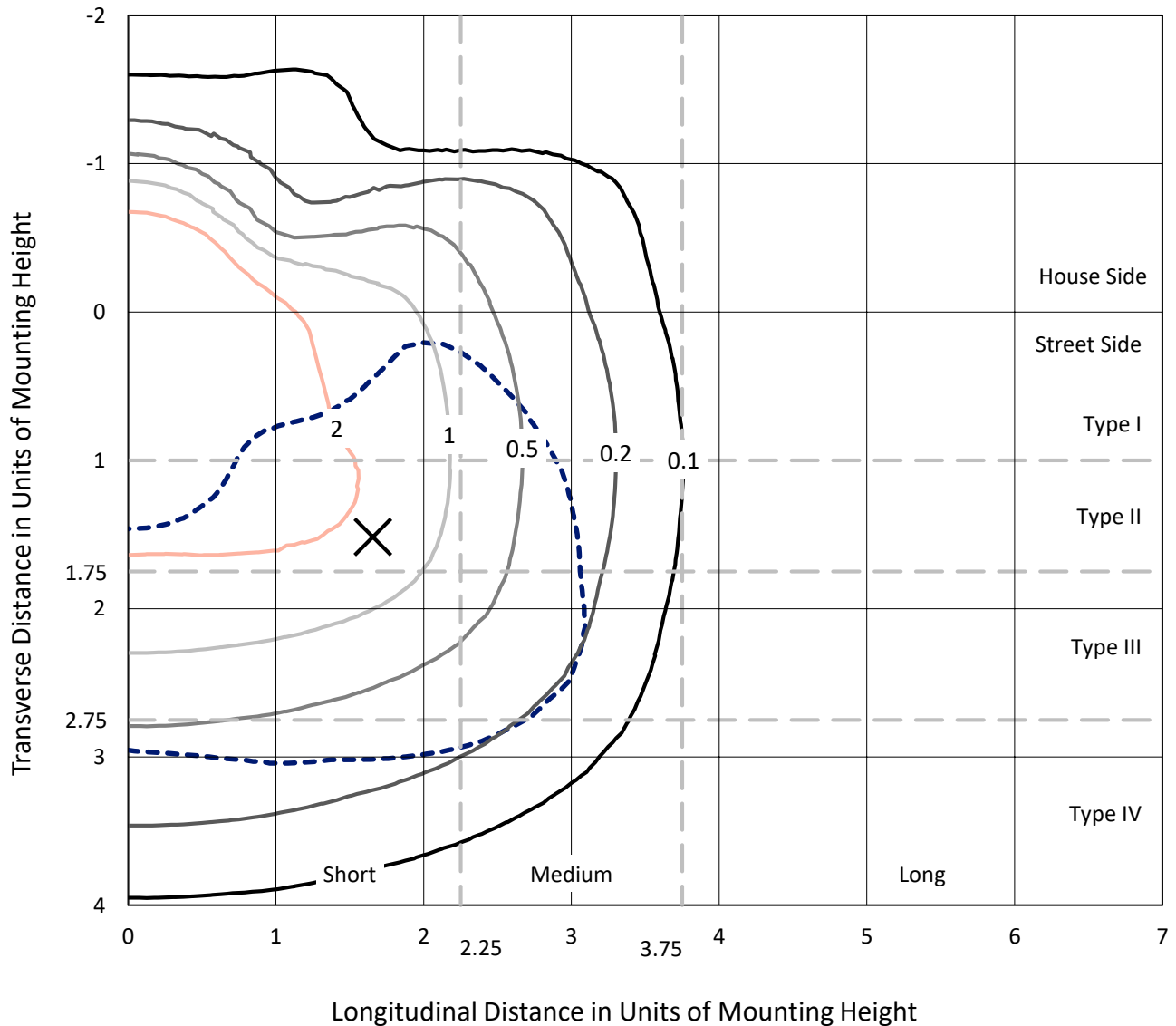
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

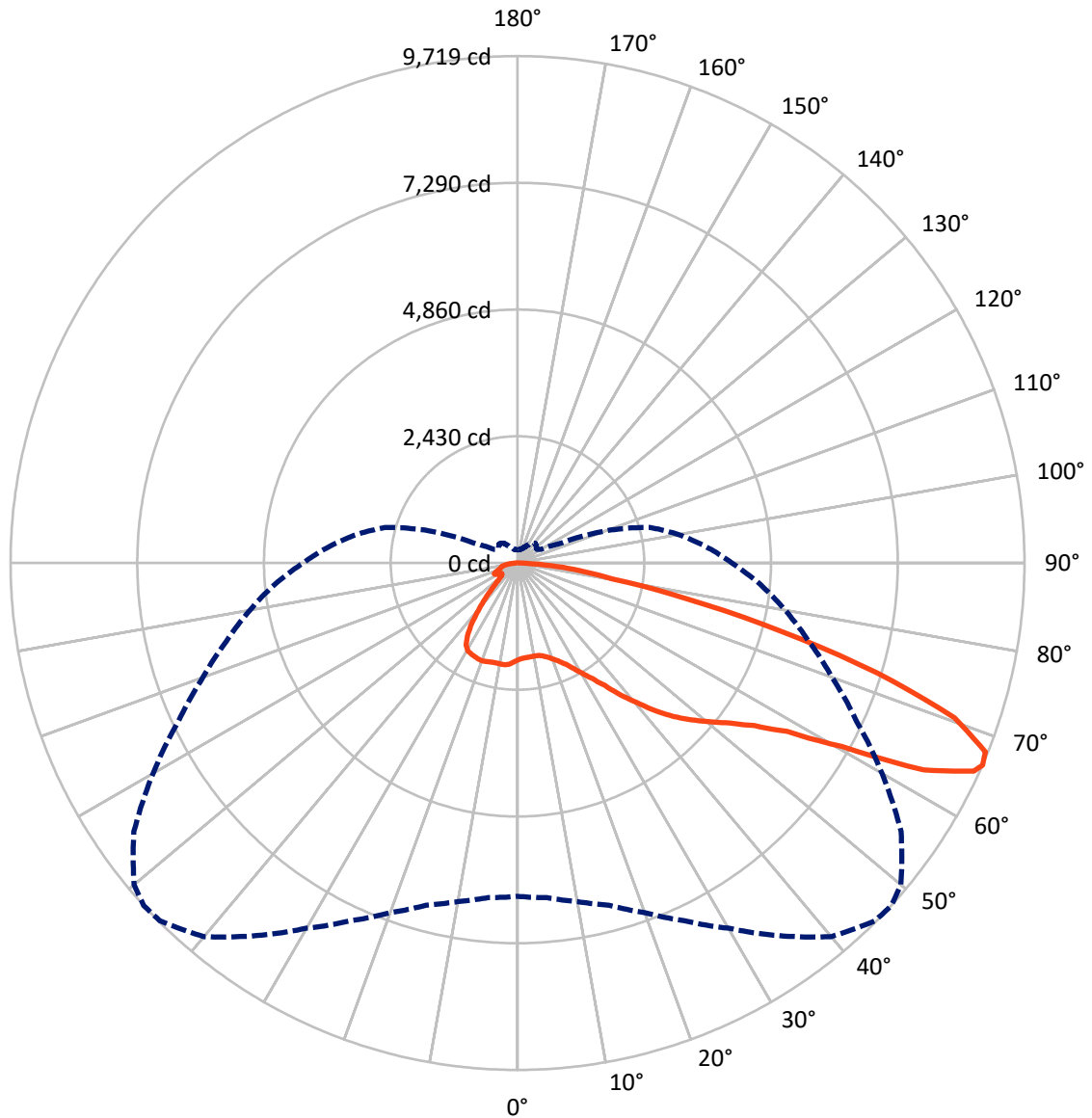
✕ Max cd
 - - - 1/2 Max cd



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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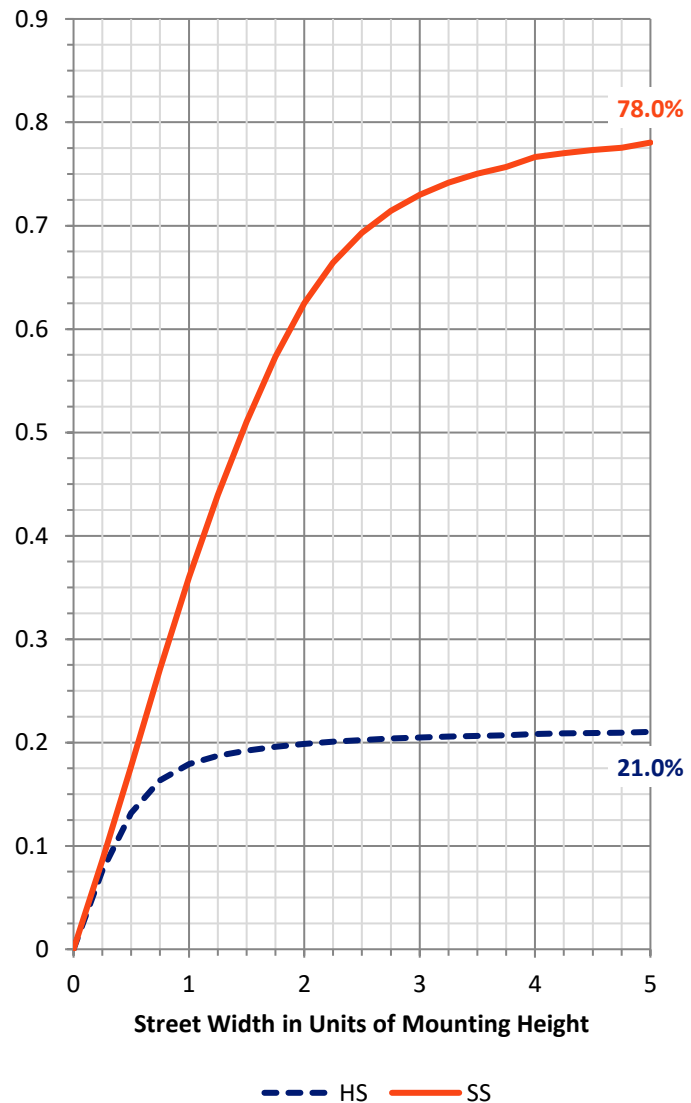
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2999.2	0.0	2999.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11056.9	0.0	11056.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	14056.1	0.0	14056.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.3
10°-20°	546.2	3.9
20°-30°	940.9	6.7
30°-40°	1423.5	10.1
40°-50°	1845.0	13.1
50°-60°	2543.7	18.1
60°-70°	3952.0	28.1
70°-80°	2298.1	16.3
80°-90°	326.8	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°	14056.1	100.0
0°-180°	14056.1	100.0



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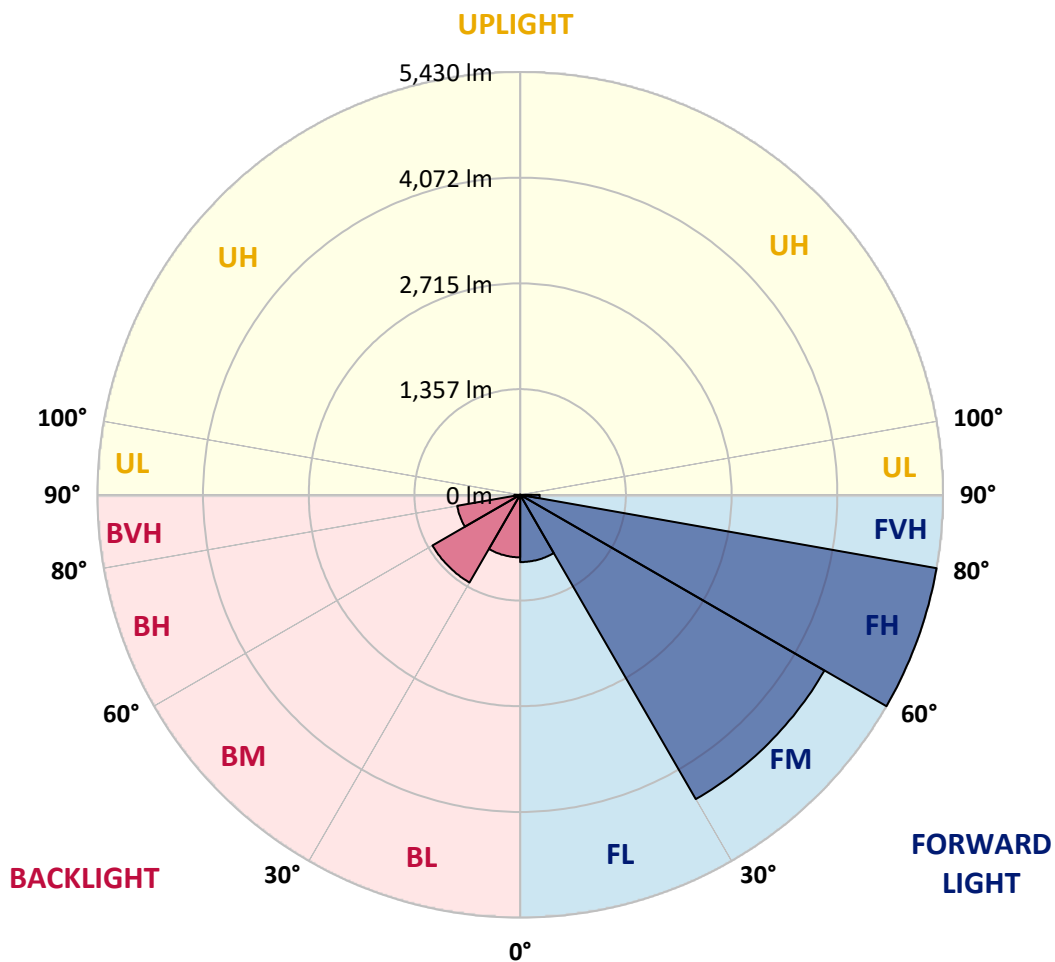
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.2	6.1			
FM	(30°-60°)	4512.0	32.1			
FH	(60°-80°)	5429.9	38.6			G3/7500
FVH	(80°-90°)	250.8	1.8			G3/500
BL	(0°-30°)	802.8	5.7	B2/1000		
BM	(30°-60°)	1300.1	9.2	B2/2500		
BH	(60°-80°)	820.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	76.0	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°	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8
2.5°	1818.6	1824.8	1820.2	1821.7	1821.7	1823.3	1823.3	1824.8	1823.3	1827.9	1812.4	1831.0
5°	1786.1	1789.1	1787.6	1790.7	1793.8	1800.0	1798.4	1806.2	1807.7	1812.4	1812.4	1820.2
7.5°	1773.7	1770.5	1772.1	1776.8	1779.8	1783.0	1786.1	1792.3	1796.9	1807.7	1807.7	1814.0
10°	1786.1	1784.5	1786.1	1789.1	1789.1	1790.7	1787.6	1793.8	1796.9	1806.2	1806.2	1812.4
12.5°	1837.2	1837.2	1834.2	1834.2	1831.0	1827.9	1820.2	1815.5	1814.0	1815.5	1815.5	1818.6
15°	1919.4	1916.3	1910.1	1905.4	1899.3	1888.4	1877.5	1868.2	1862.1	1852.8	1852.8	1849.6
17.5°	2000.0	1995.4	1989.1	1983.0	1975.2	1964.4	1947.3	1936.5	1919.4	1908.6	1908.6	1902.3
20°	2093.0	2083.7	2076.0	2068.2	2052.8	2049.6	2032.6	2014.0	1993.8	1969.0	1969.0	1965.9
22.5°	2214.0	2198.4	2189.1	2184.5	2169.0	2164.4	2136.5	2110.1	2085.3	2052.8	2052.8	2044.9
25°	2336.5	2320.9	2316.3	2310.1	2299.3	2293.0	2266.7	2237.2	2204.7	2159.7	2159.7	2150.4
27.5°	2455.8	2457.4	2444.9	2449.6	2446.5	2435.6	2409.3	2379.8	2355.1	2302.3	2302.3	2291.5
30°	2604.7	2595.4	2589.1	2598.4	2587.6	2589.1	2565.9	2550.4	2510.1	2479.1	2479.1	2457.4
32.5°	2759.7	2758.2	2767.5	2773.7	2772.1	2769.0	2750.4	2734.9	2699.3	2654.2	2654.2	2644.9
35°	2972.1	2981.4	2989.1	3017.0	3017.0	3037.2	3018.6	3000.0	2958.2	2903.9	2903.9	2885.3
37.5°	3116.3	3119.4	3150.4	3187.6	3234.2	3277.5	3290.0	3294.6	3277.5	3237.2	3237.2	3209.3
40°	3248.1	3254.3	3303.9	3361.2	3429.5	3514.7	3565.9	3589.1	3593.8	3575.2	3575.2	3514.7
42.5°	3379.8	3389.1	3440.3	3524.0	3618.6	3727.2	3817.0	3874.4	3907.0	3907.0	3907.0	3871.4
45°	3533.3	3545.8	3601.6	3693.0	3803.1	3939.6	4063.6	4173.7	4226.4	4229.5	4229.5	4195.4
47.5°	3714.7	3725.6	3790.7	3883.7	3997.0	4134.9	4291.5	4417.1	4514.7	4521.0	4521.0	4493.1
50°	3948.9	3964.4	4018.6	4102.4	4218.6	4358.2	4514.7	4690.0	4792.3	4817.1	4817.1	4787.7
52.5°	4258.9	4262.1	4307.0	4384.5	4497.7	4631.0	4797.0	4987.7	5122.5	5142.6	5142.6	5094.6
55°	4686.8	4682.2	4711.7	4795.4	4880.7	4984.5	5156.6	5370.5	5521.0	5551.9	5551.9	5502.4
57.5°	5268.2	5263.6	5288.4	5308.6	5468.2	5569.1	5738.0	5942.6	6088.4	6178.4	6178.4	6093.1
60°	6169.1	6164.4	6204.7	6322.6	6441.9	6589.2	6753.5	6998.5	7203.1	7229.5	7229.5	7145.8
62.5°	6821.7	6845.0	6933.3	7071.4	7313.3	7601.6	7902.4	8224.9	8645.0	8778.4	8778.4	8738.0
65°	6593.8	6640.3	6762.8	6972.1	7294.6	7693.1	8164.4	8748.9	9311.7	9626.4	9626.4	9617.1
66°	6389.2	6440.3	6590.7	6792.3	7133.3	7569.1	8083.8	8721.0	9350.5	9697.7	9697.7	9719.4
67.5°	6017.1	6074.5	6221.7	6460.5	6792.3	7255.9	7809.4	8502.4	9214.0	9618.7	9618.7	9676.1
70°	5293.1	5358.2	5465.1	5662.1	5989.2	6403.1	6986.1	7606.3	8352.0	8815.6	8815.6	8885.4
72.5°	4424.9	4482.2	4601.6	4762.8	5031.0	5291.5	5748.9	6206.3	6739.6	7268.2	7268.2	7217.1
75°	3176.8	3201.6	3272.9	3448.1	3592.3	3826.3	4193.8	4569.1	4933.3	5175.2	5175.2	5209.3
77.5°	1651.2	1716.3	1817.0	2010.9	2167.5	2378.3	2617.0	2899.3	3165.9	3387.6	3387.6	3327.2
80°	1080.7	1108.6	1198.4	1297.7	1412.4	1547.3	1707.0	1812.4	1846.5	1832.6	1832.6	1846.5
82.5°	623.3	674.4	793.8	869.8	955.1	1001.6	1128.7	1249.6	1317.9	1232.6	1232.6	1201.6
85°	79.1	102.3	322.5	406.2	465.1	534.9	573.7	646.5	603.1	539.5	539.5	657.4
87.5°	17.0	15.5	21.7	46.5	48.1	40.3	76.0	80.7	49.6	24.8	24.8	31.0
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°	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8
2.5°	1834.2	1835.6	1838.8	1843.5	1846.5	1849.6	1852.8	1857.4	1860.5	1863.5	1869.8
5°	1826.3	1832.6	1838.8	1844.9	1852.8	1865.1	1872.8	1879.1	1885.3	1897.7	1902.3
7.5°	1821.7	1832.6	1841.9	1852.8	1865.1	1876.0	1890.0	1897.7	1907.0	1914.7	1924.0
10°	1818.6	1834.2	1843.5	1858.9	1872.8	1883.7	1899.3	1908.6	1919.4	1928.7	1933.3
12.5°	1824.8	1832.6	1841.9	1857.4	1874.4	1890.0	1907.0	1914.7	1924.0	1931.8	1933.3
15°	1851.2	1851.2	1852.8	1865.1	1882.2	1894.6	1908.6	1916.3	1920.9	1925.6	1925.6
17.5°	1899.3	1888.4	1880.7	1882.2	1893.0	1900.8	1908.6	1908.6	1905.4	1903.9	1900.8
20°	1955.1	1941.1	1925.6	1914.7	1911.6	1905.4	1900.8	1885.3	1872.8	1862.1	1854.2
22.5°	2035.6	2014.0	1992.3	1972.1	1953.5	1930.2	1903.9	1872.8	1843.5	1823.3	1810.9
25°	2134.9	2117.9	2091.5	2060.5	2037.2	1993.8	1959.7	1914.7	1877.5	1851.2	1829.5
27.5°	2276.0	2255.8	2231.0	2203.1	2169.0	2120.9	2079.1	2026.3	1981.4	1942.6	1914.7
30°	2451.2	2424.9	2406.2	2372.1	2348.9	2294.6	2252.8	2187.6	2100.8	2038.8	2000.0
32.5°	2631.0	2601.6	2586.1	2559.7	2533.3	2500.8	2437.2	2336.5	2224.9	2124.0	2057.4
35°	2871.4	2840.3	2812.4	2789.1	2750.4	2690.0	2634.2	2513.2	2359.7	2218.6	2107.0
37.5°	3173.7	3122.5	3052.8	2993.8	2925.6	2838.8	2753.5	2629.5	2454.2	2271.4	2122.5
40°	3496.1	3406.3	3307.0	3196.9	3079.1	2953.5	2855.8	2730.2	2533.3	2316.3	2111.6
42.5°	3832.6	3690.0	3551.9	3397.0	3232.6	3083.7	2956.6	2818.6	2592.3	2328.7	2068.2
45°	4165.9	4006.3	3797.0	3593.8	3386.1	3201.6	3058.9	2903.9	2646.5	2333.3	2010.9
47.5°	4441.9	4277.5	4038.8	3784.5	3538.0	3328.7	3161.2	2993.8	2719.4	2365.9	1996.9
50°	4733.3	4533.3	4268.2	3967.5	3688.4	3454.3	3276.0	3102.3	2821.7	2449.6	2041.9
52.5°	5051.2	4821.7	4511.7	4175.2	3869.8	3607.7	3414.0	3235.6	2951.9	2567.5	2127.2
55°	5438.8	5158.2	4821.7	4441.9	4114.7	3824.9	3610.9	3400.0	3107.0	2707.0	2234.2
57.5°	6031.0	5686.8	5308.6	4876.0	4513.2	4170.5	3914.7	3671.4	3347.3	2914.7	2379.8
60°	7102.4	6734.9	6243.5	5719.4	5293.1	4893.1	4517.9	4215.6	3817.0	3324.0	2702.3
62.5°	8637.3	8148.9	7493.1	6759.8	6201.6	5624.9	5201.6	4751.9	4257.4	3725.6	3082.2
65°	9490.0	8897.7	8020.2	7169.1	6451.2	5824.9	5286.8	4765.9	4217.0	3708.6	3170.5
66°	9595.4	8978.4	8066.7	7170.6	6417.1	5773.7	5207.8	4668.2	4107.0	3621.7	3133.3
67.5°	9552.0	8921.0	7981.4	7035.7	6269.8	5578.4	4993.8	4434.2	3874.4	3421.7	3009.3
70°	8840.3	8241.9	7319.4	6403.1	5676.0	4993.8	4435.7	3885.3	3372.1	2984.5	2680.7
72.5°	7341.2	6829.5	6027.9	5308.6	4738.0	4175.2	3702.3	3176.8	2742.6	2455.8	2276.0
75°	5299.3	4989.1	4258.9	3846.5	3345.8	2972.1	2513.2	2201.6	1890.0	1750.4	1719.4
77.5°	3347.3	2930.3	2466.7	2031.0	1669.8	1384.5	1077.5	914.7	762.8	747.3	902.3
80°	1694.6	1525.6	1175.2	936.5	787.6	637.2	503.9	381.4	266.7	320.9	384.5
82.5°	1110.1	925.6	725.6	596.9	519.4	431.0	334.9	232.6	170.5	192.3	263.5
85°	600.0	511.6	412.4	325.6	263.5	235.6	158.1	111.6	110.0	117.9	150.4
87.5°	43.4	43.4	34.1	31.0	37.2	31.0	27.9	27.9	26.3	27.9	37.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8	1852.8
2.5°	1872.8	1877.5	1879.1	1886.8	1891.5	1894.6	1897.7	1897.7	1899.3	1903.9	1905.4
5°	1908.6	1916.3	1925.6	1931.8	1934.9	1944.2	1947.3	1947.3	1950.4	1956.6	1961.2
7.5°	1930.2	1941.1	1950.4	1953.5	1959.7	1962.8	1967.5	1970.5	1970.5	1976.8	1979.8
10°	1938.0	1944.2	1953.5	1953.5	1959.7	1959.7	1964.4	1965.9	1965.9	1972.1	1976.8
12.5°	1938.0	1941.1	1948.8	1948.8	1953.5	1955.1	1961.2	1965.9	1967.5	1975.2	1981.4
15°	1928.7	1931.8	1938.0	1939.5	1950.4	1956.6	1970.5	1979.8	1979.8	1987.6	1990.7
17.5°	1902.3	1910.1	1922.5	1934.9	1955.1	1969.0	1986.1	1993.8	1987.6	1983.0	1978.3
20°	1858.9	1872.8	1902.3	1933.3	1969.0	1987.6	1996.9	1989.1	1967.5	1945.8	1931.8
22.5°	1815.5	1843.5	1893.0	1939.5	1979.8	1992.3	1987.6	1959.7	1924.0	1897.7	1879.1
25°	1835.6	1868.2	1916.3	1958.2	1984.5	1981.4	1962.8	1924.0	1885.3	1851.2	1820.2
27.5°	1919.4	1955.1	1981.4	1995.4	1992.3	1970.5	1941.1	1897.7	1851.2	1806.2	1762.8
30°	1998.4	2017.0	2023.3	2012.4	1987.6	1951.9	1914.7	1865.1	1803.1	1747.3	1697.7
32.5°	2034.2	2015.5	1986.1	1956.6	1916.3	1885.3	1834.2	1779.8	1702.3	1635.6	1586.1
35°	2034.2	1959.7	1885.3	1823.3	1762.8	1724.0	1665.1	1592.3	1520.9	1465.1	1426.3
37.5°	1989.1	1846.5	1724.0	1623.3	1547.3	1505.4	1417.0	1351.9	1291.4	1272.8	1248.1
40°	1907.0	1696.1	1519.4	1387.6	1291.4	1229.5	1141.1	1096.1	1072.8	1063.5	1058.9
42.5°	1796.9	1528.7	1293.0	1130.2	1026.3	956.6	897.7	869.8	868.2	866.7	866.7
45°	1679.1	1348.8	1072.8	879.1	787.6	725.6	697.7	686.8	696.1	694.6	696.1
47.5°	1606.2	1212.4	871.4	665.1	595.4	555.1	541.1	545.8	553.5	550.4	550.4
50°	1596.9	1142.6	736.5	517.9	465.1	444.9	441.9	441.9	446.5	443.4	441.9
52.5°	1631.0	1131.8	666.7	444.9	403.1	386.0	383.0	381.4	379.8	370.5	362.8
55°	1690.0	1156.6	646.5	426.3	383.0	364.4	359.7	356.6	350.4	338.0	324.0
57.5°	1807.7	1234.1	665.1	435.6	389.1	373.7	369.0	369.0	356.6	336.5	316.3
60°	2091.5	1431.0	741.1	471.4	418.6	403.1	406.2	404.7	386.0	356.6	325.6
62.5°	2457.4	1688.4	840.3	520.9	455.8	452.7	468.2	465.1	434.1	389.1	344.2
65°	2626.3	1809.3	868.2	531.8	463.5	477.5	508.6	505.4	466.7	404.7	347.3
66°	2629.5	1809.3	855.8	522.5	452.7	469.8	500.7	499.3	460.5	398.4	341.1
67.5°	2565.9	1759.7	820.2	503.9	431.0	443.4	471.4	469.8	434.1	383.0	328.7
70°	2327.2	1575.2	728.7	471.4	401.6	395.4	404.7	398.4	375.2	339.5	302.3
72.5°	1993.8	1322.5	635.6	446.5	381.4	356.6	350.4	345.8	327.2	307.0	283.7
75°	1570.5	1046.5	558.1	427.9	362.8	330.2	319.4	313.2	300.7	286.8	268.2
77.5°	969.0	748.8	486.8	403.1	348.8	316.3	308.6	299.3	280.7	263.5	249.6
80°	432.6	463.5	400.0	351.9	311.6	282.1	269.8	255.8	237.2	226.3	218.6
82.5°	288.4	299.3	290.0	263.5	235.6	212.4	193.8	193.8	190.7	181.4	178.3
85°	184.5	186.0	179.8	162.8	151.9	138.0	130.2	131.8	138.0	136.5	134.9
87.5°	41.9	41.9	49.6	46.5	54.2	57.4	62.0	66.7	76.0	76.0	80.7
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°	1852.8	1852.8	1852.8	1852.8	1852.8
2.5°	1907.0	1910.1	1913.2	1908.6	1910.1
5°	1961.2	1959.7	1967.5	1962.8	1965.9
7.5°	1978.3	1979.8	1986.1	1986.1	1987.6
10°	1979.8	1983.0	1990.7	1995.4	1998.4
12.5°	1987.6	1993.8	2006.2	2009.3	2009.3
15°	1993.8	1996.9	2004.7	2007.7	2010.9
17.5°	1972.1	1965.9	1969.0	1970.5	1969.0
20°	1917.9	1911.6	1910.1	1903.9	1907.0
22.5°	1858.9	1841.9	1831.0	1818.6	1818.6
25°	1787.6	1761.2	1739.5	1717.9	1722.5
27.5°	1720.9	1686.8	1665.1	1651.2	1648.1
30°	1655.8	1620.2	1600.0	1583.0	1583.0
32.5°	1547.3	1522.5	1496.1	1485.3	1483.7
35°	1396.9	1381.4	1359.7	1355.1	1347.3
37.5°	1227.9	1223.3	1204.7	1203.1	1195.4
40°	1051.2	1054.2	1048.1	1044.9	1040.3
42.5°	874.4	890.0	886.8	885.3	882.1
45°	705.4	716.3	717.9	722.5	730.2
47.5°	555.1	558.1	561.2	559.7	561.2
50°	434.1	426.3	424.8	420.2	424.8
52.5°	350.4	338.0	331.8	325.6	322.5
55°	308.6	296.1	290.0	286.8	283.7
57.5°	297.7	285.3	276.0	269.8	268.2
60°	300.7	282.1	269.8	262.0	260.5
62.5°	308.6	283.7	266.7	258.9	257.4
65°	307.0	280.7	265.1	255.8	254.2
66°	302.3	277.5	262.0	254.2	252.7
67.5°	294.6	272.8	258.9	252.7	249.6
70°	280.7	266.7	255.8	248.1	244.9
72.5°	268.2	257.4	248.1	240.3	238.8
75°	254.2	244.9	235.6	229.5	227.9
77.5°	237.2	227.9	221.7	217.0	215.5
80°	209.3	203.1	196.9	190.7	190.7
82.5°	173.7	169.0	162.8	158.1	156.6
85°	133.3	133.3	128.7	124.0	122.5
87.5°	79.1	77.5	77.5	72.8	72.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)