

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: P676161

Luminaire Tested: **CCW-SA-2D-760-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676161
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-760-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

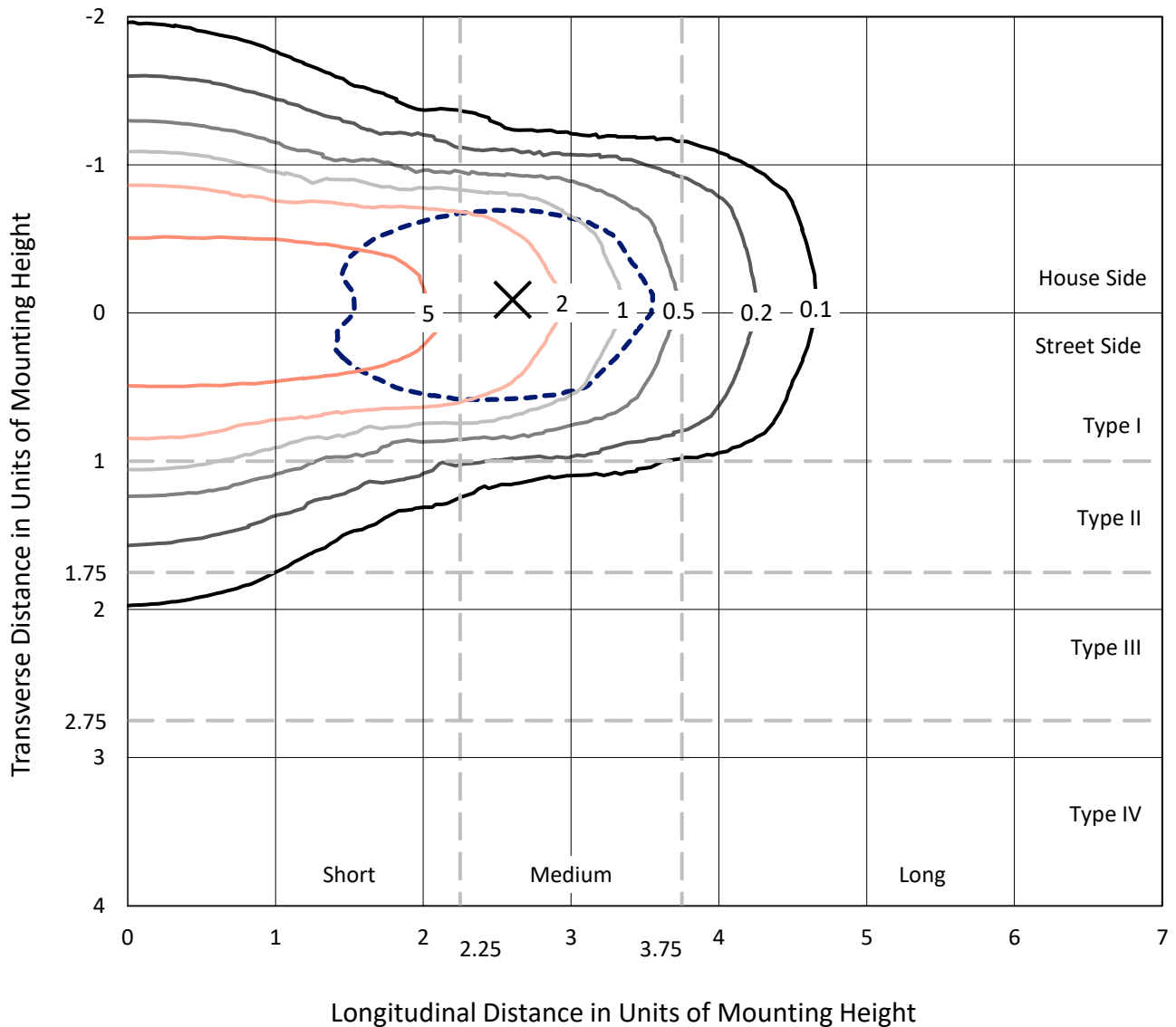
Lumens per Lamp: N/A
Luminaire Lumens: 11109.1 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
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

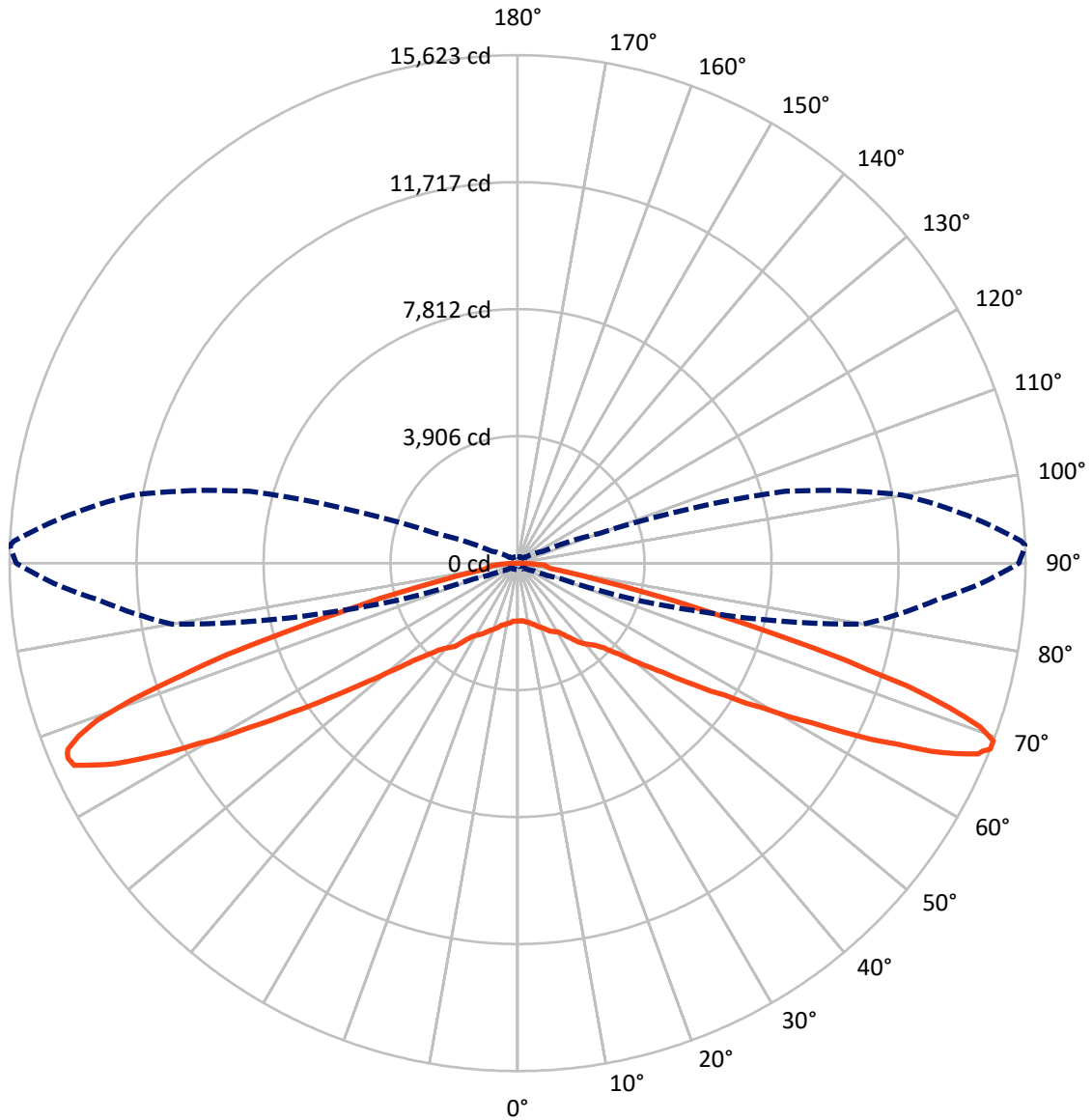
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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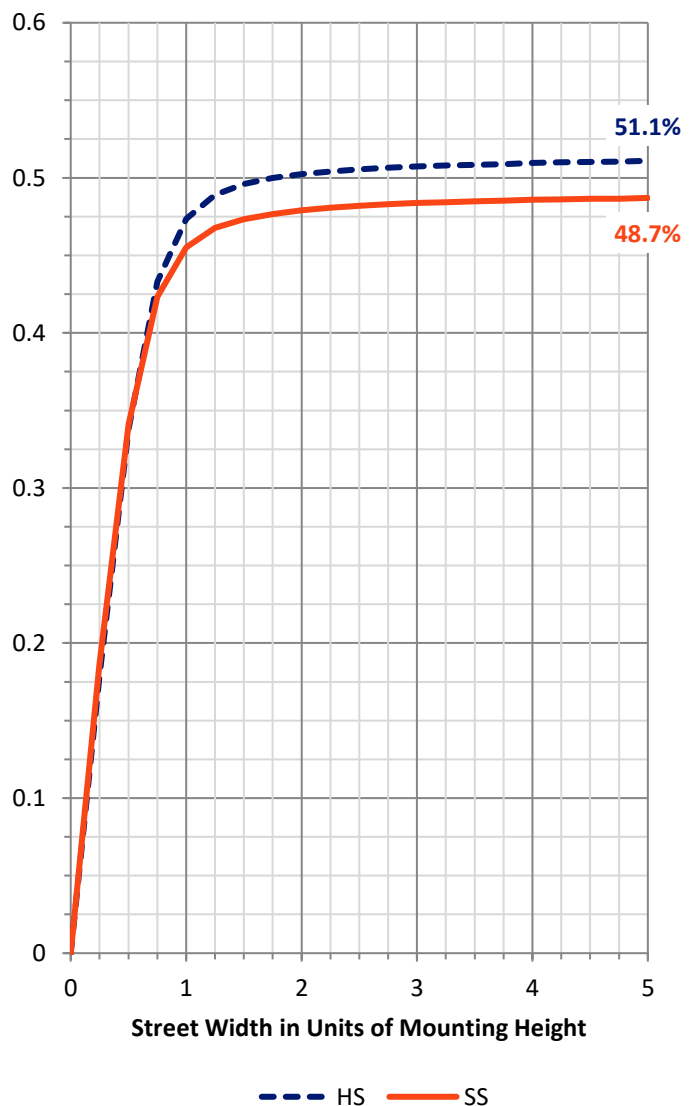
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5721.0	0.0	5721.0
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	5388.1	0.0	5388.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	11109.1	0.0	11109.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.6
10°-20°	576.3	5.2
20°-30°	983.5	8.9
30°-40°	1373.2	12.4
40°-50°	1746.8	15.7
50°-60°	2208.6	19.9
60°-70°	2723.8	24.5
70°-80°	1189.9	10.7
80°-90°	129.1	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°	11109.1	100.0
0°-180°	11109.1	100.0



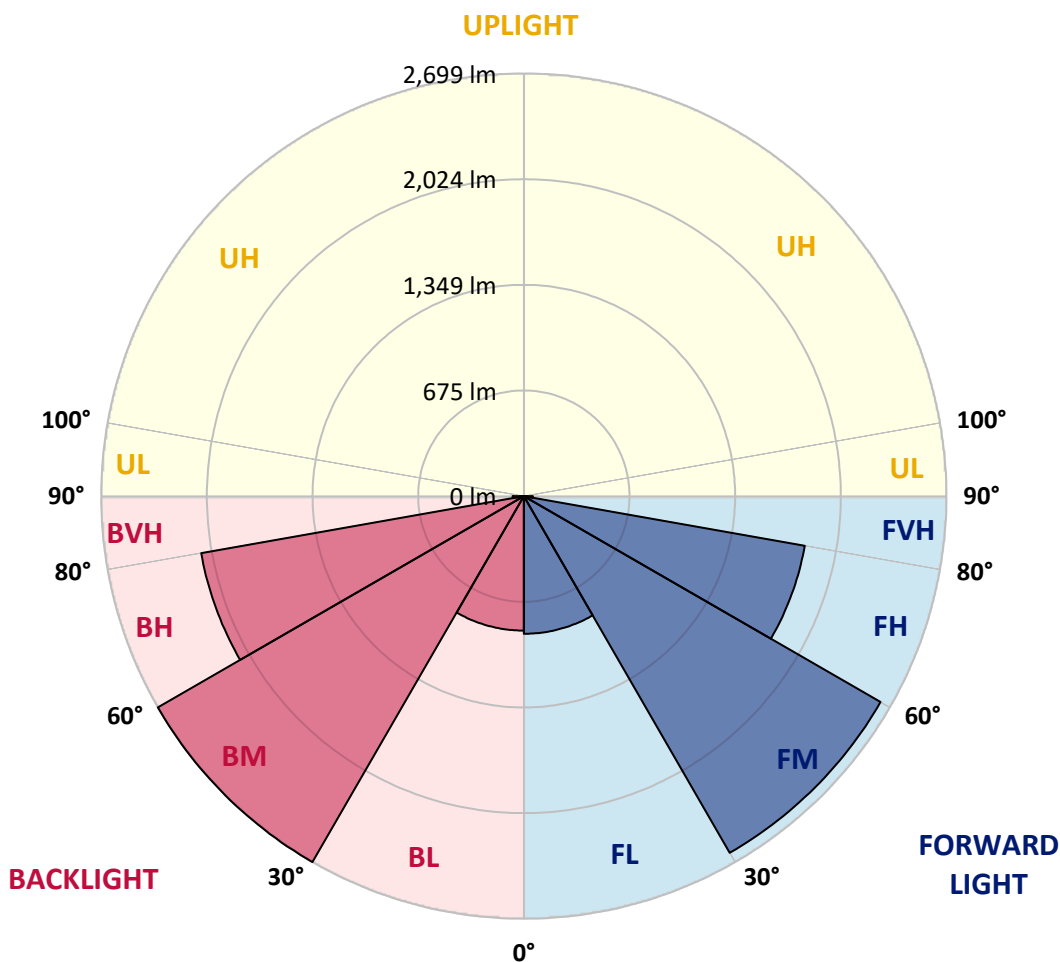
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.2	7.9			
FM (30°-60°)	2630.0	23.7			
FH (60°-80°)	1821.7	16.4			G2/5000
FVH (80°-90°)	57.2	0.5			G1/100
BL (0°-30°)	858.5	7.7	B2/1000		
BM (30°-60°)	2698.6	24.3	B3/5000		
BH (60°-80°)	2092.0	18.8	B3/2500		G3/2500
BVH (80°-90°)	71.8	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°	75°	80°
0°	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4
2.5°	1814.0	1811.9	1818.1	1822.3	1803.5	1809.8	1805.6	1801.4	1786.9	1780.6	1768.1
5°	1864.0	1870.3	1891.1	1872.3	1880.7	1870.3	1836.9	1847.3	1828.6	1824.4	1811.9
7.5°	1951.6	1939.1	1968.2	1947.4	1953.7	1932.8	1918.2	1899.4	1895.3	1866.1	1868.2
10°	1970.3	1995.4	2007.9	2003.7	2007.9	2018.3	1991.2	1962.0	1922.4	1914.0	1884.8
12.5°	1957.8	1980.8	2014.1	2041.2	2060.0	2064.2	2053.7	2047.5	2030.8	1982.8	1980.8
15°	1945.3	1928.6	1949.5	2043.3	2105.9	2147.6	2162.2	2126.7	2130.9	2068.3	2043.3
17.5°	1861.9	1836.9	1918.2	2009.9	2087.1	2178.8	2249.7	2239.3	2239.3	2189.3	2153.8
20°	1751.4	1793.1	1834.8	1951.6	2093.3	2231.0	2366.5	2360.2	2335.2	2320.6	2243.5
22.5°	1657.6	1676.3	1753.5	1876.5	2053.7	2245.6	2406.1	2520.8	2462.4	2404.0	2358.1
25°	1592.9	1576.3	1674.3	1801.4	2016.2	2220.5	2481.2	2600.0	2631.3	2587.5	2499.9
27.5°	1501.2	1501.2	1578.4	1699.3	1895.3	2208.0	2554.1	2735.5	2781.4	2716.8	2589.6
30°	1397.0	1409.5	1476.2	1613.8	1805.6	2116.3	2583.3	2891.9	2929.4	2873.1	2741.8
32.5°	1315.6	1315.6	1390.7	1536.7	1743.1	2074.6	2564.6	3046.2	3117.1	3075.4	2939.9
35°	1228.1	1221.8	1276.0	1436.6	1643.0	1993.3	2558.3	3169.2	3327.7	3329.8	3188.0
37.5°	1103.0	1128.0	1196.8	1324.0	1563.8	1914.0	2539.5	3317.2	3600.8	3648.8	3550.8
40°	1019.6	1030.0	1092.5	1232.2	1440.7	1820.2	2512.4	3438.2	3782.2	3946.9	3811.4
42.5°	898.6	913.2	961.2	1134.2	1321.9	1686.8	2393.6	3523.7	4040.7	4228.4	4113.7
45°	771.5	779.8	850.7	992.5	1194.7	1528.3	2266.4	3661.3	4290.9	4674.6	4607.9
47.5°	619.2	623.4	683.9	831.9	1042.5	1369.9	2070.4	3655.0	4493.2	5120.8	5308.4
50°	483.7	494.1	540.0	660.9	859.0	1175.9	1843.1	3605.0	4747.6	5629.5	5998.6
52.5°	385.7	387.8	417.0	512.9	663.0	982.0	1599.2	3446.5	4987.3	6127.8	6845.1
55°	319.0	319.0	335.7	394.1	508.7	746.4	1313.6	3183.8	5016.5	6678.3	7768.7
56°	306.5	302.3	316.9	367.0	458.7	673.5	1180.1	3006.6	5058.2	6932.7	8231.6
57°	289.8	291.9	300.2	335.7	412.8	596.3	1032.1	2833.5	5029.0	7141.2	8573.6
58°	281.5	277.3	294.0	316.9	364.9	529.6	929.9	2629.2	4983.2	7312.1	9071.9
59°	269.0	266.9	277.3	298.2	339.9	471.2	804.8	2408.2	4893.5	7533.1	9443.0
60°	264.8	262.7	266.9	283.6	312.8	412.8	708.9	2149.6	4653.7	7760.4	9903.8
61°	252.3	254.4	262.7	273.1	296.1	371.1	638.0	1884.8	4497.4	7952.2	10412.5
62°	254.4	250.2	254.4	262.7	279.4	341.9	558.8	1624.2	4218.0	8169.1	10794.1
63°	241.9	239.8	246.0	256.5	264.8	308.6	487.9	1403.2	3901.1	8219.1	11117.3
64°	237.7	235.6	237.7	252.3	254.4	289.8	431.6	1198.9	3442.3	8304.6	11532.2
65°	227.3	227.3	231.4	237.7	246.0	273.1	385.7	1040.4	2985.7	8079.4	11659.4
66°	218.9	221.0	221.0	231.4	237.7	254.4	354.5	884.0	2547.9	7720.8	11782.4
67°	212.7	212.7	214.8	223.1	229.4	239.8	319.0	765.2	2149.6	7293.4	11592.6
67.5°	208.5	210.6	210.6	218.9	225.2	239.8	304.4	725.6	1922.4	6824.2	11450.9
68°	202.2	204.3	204.3	212.7	218.9	231.4	294.0	663.0	1772.3	6519.8	11188.2
69°	198.1	196.0	196.0	204.3	212.7	221.0	273.1	579.6	1409.5	5669.1	10804.5
70°	185.6	185.6	189.7	196.0	202.2	210.6	252.3	510.8	1192.6	4693.4	9816.2
71°	179.3	177.2	179.3	185.6	191.8	202.2	231.4	452.4	975.8	3896.9	8844.6
72°	166.8	171.0	171.0	177.2	183.5	189.7	216.8	394.1	819.4	3115.0	7775.0
72.5°	164.7	164.7	166.8	173.1	177.2	187.7	208.5	377.4	748.5	2746.0	7326.7
73°	158.5	158.5	160.5	166.8	171.0	181.4	202.2	339.9	681.8	2443.6	6488.5
74°	152.2	150.1	150.1	158.5	160.5	171.0	189.7	300.2	571.3	1841.1	5208.4
75°	141.8	141.8	143.9	148.0	150.1	158.5	175.1	266.9	481.6	1428.2	4074.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	116.8	118.8	120.9	125.1	125.1	131.4	143.9	185.6	294.0	723.5	1870.3
80°	85.5	89.7	95.9	102.2	100.1	100.1	112.6	133.4	175.1	325.3	717.2
82.5°	68.8	73.0	66.7	75.1	75.1	70.9	81.3	98.0	118.8	160.5	256.5
85°	45.9	48.0	39.6	45.9	43.8	43.8	54.2	58.4	73.0	89.7	127.2
87.5°	20.9	20.9	16.7	18.8	18.8	18.8	27.1	20.9	31.3	43.8	75.1
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4
2.5°	1780.6	1788.9	1788.9	1780.6	1774.3	1780.6	1776.4	1766.0	1776.4	1780.6	1782.7
5°	1805.6	1788.9	1797.3	1778.5	1791.0	1788.9	1784.8	1795.2	1797.3	1797.3	1811.9
7.5°	1832.7	1853.6	1826.5	1828.6	1834.8	1809.8	1818.1	1822.3	1814.0	1830.6	1843.1
10°	1880.7	1889.0	1880.7	1849.4	1870.3	1853.6	1847.3	1866.1	1861.9	1866.1	1884.8
12.5°	1924.5	1939.1	1916.1	1914.0	1903.6	1889.0	1897.4	1895.3	1924.5	1928.6	1951.6
15°	2014.1	1976.6	1968.2	1966.2	1962.0	1955.7	1959.9	1962.0	1999.5	2005.8	2060.0
17.5°	2091.3	2085.0	2039.1	2055.8	2055.8	2030.8	2020.4	2055.8	2085.0	2116.3	2153.8
20°	2170.5	2164.2	2114.2	2116.3	2097.5	2120.5	2107.9	2141.3	2191.3	2201.8	2235.1
22.5°	2264.3	2237.2	2201.8	2205.9	2212.2	2195.5	2187.2	2233.0	2283.1	2312.3	2314.4
25°	2412.4	2343.5	2314.4	2318.5	2310.2	2297.7	2303.9	2362.3	2387.3	2449.9	2437.4
27.5°	2491.6	2452.0	2431.1	2383.2	2385.2	2366.5	2391.5	2479.1	2529.1	2577.1	2481.2
30°	2587.5	2562.5	2470.7	2454.1	2452.0	2443.6	2489.5	2602.1	2677.2	2704.3	2566.6
32.5°	2775.1	2675.1	2652.1	2637.5	2604.2	2614.6	2637.5	2785.6	2904.4	2898.2	2645.9
35°	2989.9	2921.1	2856.5	2844.0	2839.8	2810.6	2850.2	3023.3	3115.0	3087.9	2675.1
37.5°	3333.9	3229.7	3142.1	3094.2	3085.8	3065.0	3158.8	3296.4	3415.2	3308.9	2698.0
40°	3502.8	3386.1	3304.7	3275.5	3281.8	3311.0	3402.7	3613.3	3665.4	3469.5	2716.8
42.5°	3744.7	3617.5	3456.9	3442.3	3423.6	3438.2	3615.4	3899.0	3942.8	3686.3	2645.9
45°	4174.2	3982.4	3796.8	3713.4	3717.6	3757.2	4032.4	4343.1	4261.8	3836.4	2533.3
47.5°	4716.3	4434.8	4284.7	4172.1	4226.3	4182.5	4620.4	4868.5	4591.2	4026.2	2395.7
50°	5531.5	5137.5	4933.1	4797.6	4820.5	4858.1	5302.2	5512.8	4956.1	4117.9	2185.1
52.5°	6559.4	6052.8	5752.5	5571.1	5587.8	5669.1	6242.5	6177.9	5373.1	4195.0	1903.6
55°	7789.6	7268.3	6686.6	6611.6	6592.8	6786.7	7418.5	6874.3	5748.4	4072.0	1611.7
56°	8440.1	7885.5	7280.8	7126.6	7080.7	7216.2	7958.5	7222.5	5877.6	3934.4	1472.0
57°	8992.6	8463.0	7800.0	7537.3	7595.7	7850.1	8494.3	7549.8	5996.5	3792.6	1340.7
58°	9751.6	9146.9	8446.4	8246.2	8194.1	8396.3	9071.9	7879.2	6036.1	3646.7	1219.7
59°	10508.4	9782.9	9151.1	8786.2	8800.8	9169.9	9641.1	8271.2	6096.6	3461.1	1065.4
60°	11083.9	10719.0	9874.6	9601.5	9563.9	10097.7	10208.2	8533.9	6161.2	3210.9	957.0
61°	11899.1	11423.8	10637.7	10285.3	10387.5	10814.9	10821.2	8863.4	6065.3	2894.0	823.6
62°	12485.0	12359.9	11534.3	11198.6	11167.3	11734.4	11459.2	9153.2	5981.9	2593.8	727.7
63°	13171.0	13171.0	12418.3	12155.6	12170.2	12618.5	11736.5	9443.0	5886.0	2262.2	640.1
64°	13527.5	13975.8	13281.5	12912.5	13008.4	13396.2	12230.7	9632.7	5589.9	1926.5	563.0
65°	13836.1	14509.6	14123.8	13952.9	13806.9	14036.3	12658.1	9810.0	5137.5	1638.8	500.4
66°	14096.7	15012.1	14884.9	14701.4	14686.8	14634.7	12741.5	9803.7	4670.4	1384.4	437.9
67°	13965.4	15022.5	15253.9	15331.1	15308.1	14757.7	12595.5	9580.6	4072.0	1169.7	389.9
67.5°	13846.5	14937.0	15474.9	15431.1	15527.1	14861.9	12620.6	9307.5	3646.7	1059.2	367.0
68°	13742.3	14822.3	15564.6	15620.9	15572.9	14874.4	12482.9	9090.6	3356.9	994.5	346.1
69°	12952.1	14278.1	15420.7	15623.0	15500.0	14397.0	12045.1	8525.6	2666.7	848.6	319.0
70°	12159.8	13573.4	14722.2	15093.4	14941.2	13473.3	11492.6	7627.0	2199.7	725.6	287.7
71°	11063.1	12264.0	13792.3	14015.4	13831.9	12422.5	10350.0	6678.3	1711.8	615.1	256.5
72°	9574.4	10593.9	12053.4	12593.5	12322.4	10910.8	9194.9	5519.0	1386.5	517.1	233.5
72.5°	8836.3	9880.9	11288.2	11332.0	11384.1	10254.1	8704.9	4847.6	1209.3	479.6	227.3
73°	8135.7	9159.4	10377.1	10531.4	10310.4	9146.9	7973.1	4334.7	1105.1	437.9	218.9
74°	6592.8	7176.6	8185.7	8335.9	8142.0	7458.1	6515.7	3323.5	879.9	377.4	200.2
75°	5187.5	5508.6	6421.8	6330.1	6040.3	5800.5	5052.0	2539.5	713.1	331.5	185.6



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2331.0	2524.9	2677.2	2677.2	2693.8	2570.8	2329.0	1165.5	439.9	239.8	152.2
80°	888.2	994.5	1027.9	1030.0	1044.6	1082.1	1007.1	573.4	260.6	171.0	123.0
82.5°	644.3	900.7	969.5	919.5	923.7	834.0	385.7	254.4	164.7	118.8	89.7
85°	583.8	784.0	829.8	823.6	825.7	771.5	227.3	125.1	95.9	75.1	62.6
87.5°	283.6	277.3	294.0	331.5	323.2	419.1	191.8	62.6	41.7	31.3	31.3
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):

	135°	145°	155°	165°	175°	180°
0°	1776.4	1776.4	1776.4	1776.4	1776.4	1776.4
2.5°	1766.0	1763.9	1793.1	1763.9	1780.6	1768.1
5°	1786.9	1795.2	1801.4	1814.0	1784.8	1814.0
7.5°	1849.4	1857.7	1859.8	1870.3	1857.7	1855.7
10°	1897.4	1918.2	1930.7	1889.0	1914.0	1912.0
12.5°	1991.2	1970.3	1968.2	1959.9	1937.0	1928.6
15°	2057.9	2026.6	2007.9	1974.5	1947.4	1937.0
17.5°	2151.7	2091.3	2014.1	1945.3	1897.4	1859.8
20°	2210.1	2101.7	1947.4	1866.1	1793.1	1809.8
22.5°	2247.6	2091.3	1886.9	1782.7	1709.7	1730.6
25°	2260.1	2039.1	1845.2	1716.0	1645.1	1630.5
27.5°	2224.7	1978.7	1763.9	1618.0	1555.4	1567.9
30°	2208.0	1891.1	1688.9	1545.0	1461.6	1474.1
32.5°	2164.2	1801.4	1588.8	1442.8	1382.4	1361.5
35°	2101.7	1726.4	1492.9	1355.3	1282.3	1265.6
37.5°	2024.5	1632.6	1409.5	1242.7	1178.0	1165.5
40°	1909.9	1520.0	1288.5	1144.7	1069.6	1067.5
42.5°	1809.8	1411.6	1175.9	1027.9	952.8	957.0
45°	1682.6	1265.6	1046.7	919.5	844.4	848.6
47.5°	1520.0	1130.1	923.7	781.9	719.3	715.2
50°	1328.2	975.8	773.5	652.6	600.5	590.1
52.5°	1144.7	819.4	633.8	525.4	481.6	477.5
55°	913.2	638.0	494.1	412.8	379.5	381.6
56°	829.8	588.0	450.4	377.4	352.4	352.4
57°	750.6	521.3	408.7	348.2	325.3	325.3
58°	663.0	458.7	371.1	314.8	304.4	296.1
59°	602.6	417.0	335.7	298.2	281.5	279.4
60°	531.7	375.3	312.8	279.4	266.9	264.8
61°	471.2	337.8	287.7	260.6	256.5	256.5
62°	421.2	312.8	266.9	252.3	250.2	243.9
63°	377.4	287.7	256.5	239.8	233.5	239.8
64°	337.8	264.8	248.1	235.6	227.3	231.4
65°	306.5	254.4	237.7	229.4	221.0	223.1
66°	285.6	237.7	229.4	218.9	214.8	216.8
67°	258.5	229.4	221.0	210.6	208.5	210.6
67.5°	250.2	223.1	216.8	206.4	204.3	206.4
68°	243.9	218.9	214.8	204.3	202.2	200.2
69°	227.3	210.6	204.3	200.2	196.0	193.9
70°	212.7	202.2	198.1	191.8	187.7	185.6
71°	204.3	191.8	189.7	183.5	179.3	177.2
72°	193.9	185.6	181.4	173.1	171.0	173.1
72.5°	191.8	181.4	179.3	171.0	168.9	168.9
73°	185.6	173.1	175.1	166.8	162.6	166.8
74°	173.1	168.9	164.7	158.5	156.4	156.4
75°	162.6	158.5	154.3	150.1	150.1	150.1



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77.5°	137.6	135.5	137.6	129.3	127.2	125.1
80°	110.5	110.5	112.6	106.3	102.2	100.1
82.5°	83.4	85.5	89.7	83.4	79.2	75.1
85°	54.2	56.3	56.3	50.0	58.4	54.2
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90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)