

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: P676096

Luminaire Tested: **CCW-SA-2E-722-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676096
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

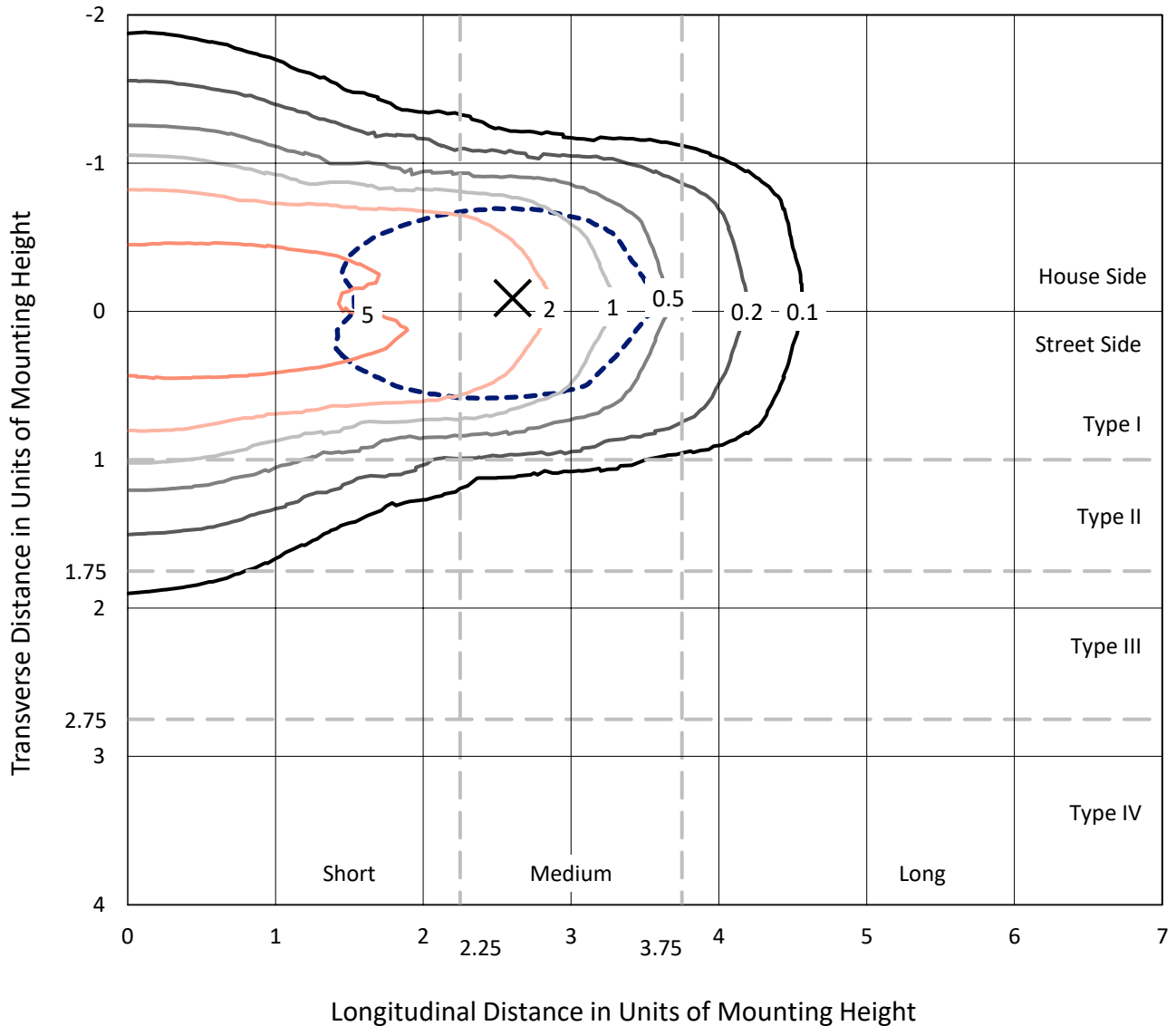
Lumens per Lamp: N/A
Luminaire Lumens: 9807.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 106.6
Input Voltage (V): 120
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

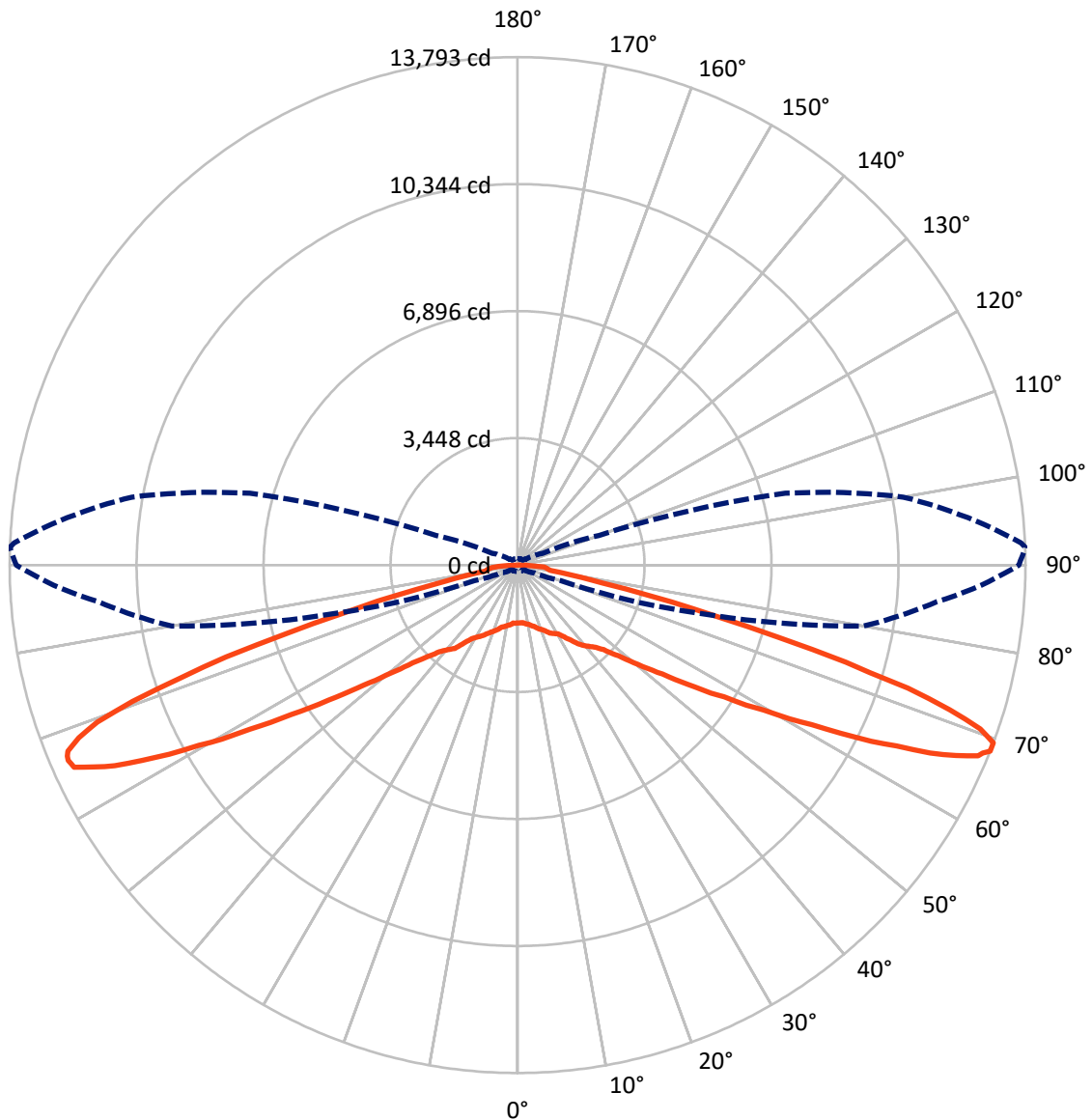
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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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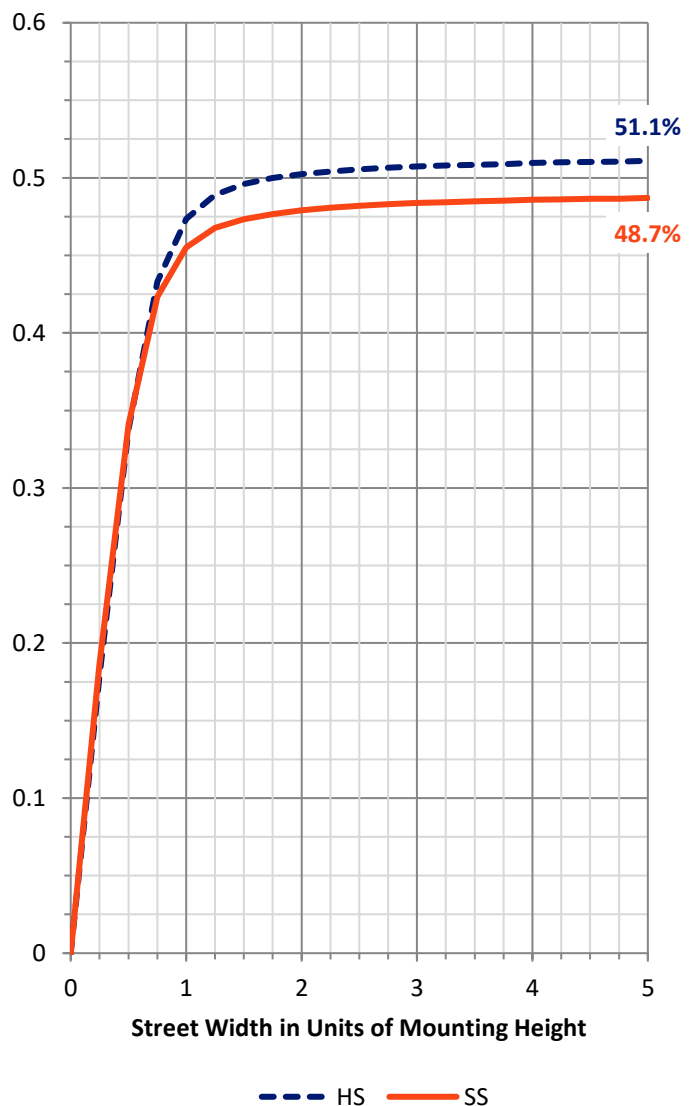
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5050.7	0.0	5050.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4756.8	0.0	4756.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	9807.5	0.0	9807.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	1.6
10°-20°	508.8	5.2
20°-30°	868.3	8.9
30°-40°	1212.3	12.4
40°-50°	1542.1	15.7
50°-60°	1949.9	19.9
60°-70°	2404.7	24.5
70°-80°	1050.4	10.7
80°-90°	113.9	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°	9807.5	100.0
0°-180°	9807.5	100.0



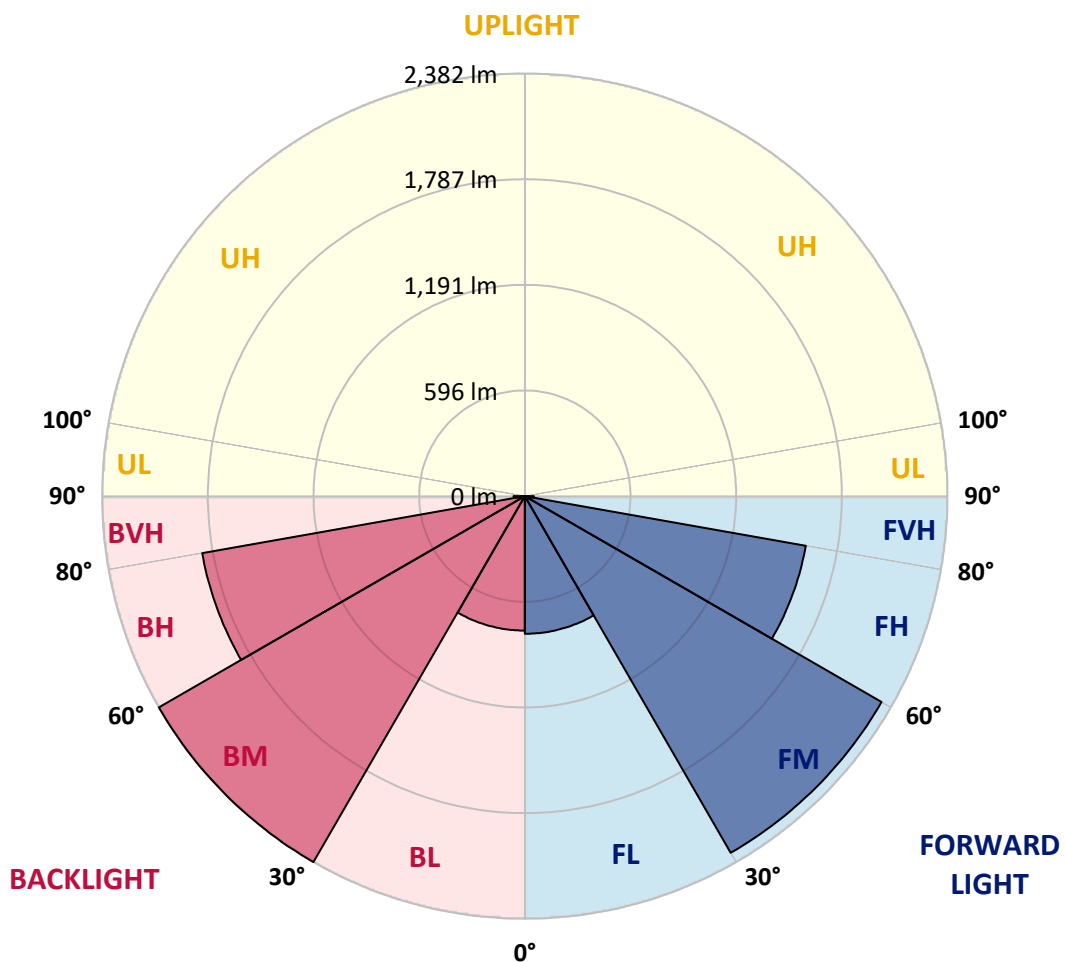
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.2	7.9			
FM (30°-60°)	2321.9	23.7			
FH (60°-80°)	1608.2	16.4			G1/1800
FVH (80°-90°)	50.5	0.5			G1/100
BL (0°-30°)	757.9	7.7	B2/1000		
BM (30°-60°)	2382.4	24.3	B2/2500		
BH (60°-80°)	1846.9	18.8	B3/2500		G3/2500
BVH (80°-90°)	63.4	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°	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1601.4	1599.6	1605.1	1608.8	1592.2	1597.7	1594.1	1590.4	1577.5	1572.0	1560.9
5°	1645.6	1651.1	1669.5	1653.0	1660.3	1651.1	1621.7	1630.9	1614.3	1610.6	1599.6
7.5°	1722.9	1711.9	1737.6	1719.2	1724.8	1706.4	1693.5	1676.9	1673.2	1647.4	1649.3
10°	1739.5	1761.6	1772.6	1768.9	1772.6	1781.8	1757.9	1732.1	1697.1	1689.8	1664.0
12.5°	1728.4	1748.7	1778.1	1802.1	1818.6	1822.3	1813.1	1807.6	1792.9	1750.5	1748.7
15°	1717.4	1702.7	1721.1	1803.9	1859.1	1895.9	1908.8	1877.5	1881.2	1826.0	1803.9
17.5°	1643.8	1621.7	1693.5	1774.5	1842.6	1923.6	1986.1	1976.9	1976.9	1932.8	1901.5
20°	1546.2	1583.0	1619.8	1722.9	1848.1	1969.6	2089.2	2083.7	2061.6	2048.7	1980.6
22.5°	1463.4	1479.9	1548.0	1656.7	1813.1	1982.5	2124.2	2225.4	2173.9	2122.4	2081.9
25°	1406.3	1391.6	1478.1	1590.4	1780.0	1960.4	2190.5	2295.4	2323.0	2284.3	2207.0
27.5°	1325.3	1325.3	1393.4	1500.2	1673.2	1949.3	2254.9	2415.0	2455.5	2398.5	2286.2
30°	1233.3	1244.3	1303.2	1424.7	1594.1	1868.3	2280.7	2553.1	2586.2	2536.5	2420.6
32.5°	1161.5	1161.5	1227.8	1356.6	1538.8	1831.5	2264.1	2689.3	2751.9	2715.1	2595.4
35°	1084.2	1078.7	1126.5	1268.3	1450.5	1759.7	2258.6	2797.9	2937.8	2939.6	2814.5
37.5°	973.7	995.8	1056.6	1168.9	1380.5	1689.8	2242.0	2928.6	3178.9	3221.3	3134.8
40°	900.1	909.3	964.5	1087.9	1271.9	1607.0	2218.1	3035.4	3339.1	3484.5	3364.8
42.5°	793.4	806.2	848.6	1001.4	1167.0	1489.1	2113.2	3110.8	3567.3	3733.0	3631.7
45°	681.1	688.4	751.0	876.2	1054.7	1349.3	2000.9	3232.3	3788.2	4126.9	4068.0
47.5°	546.7	550.4	603.8	734.4	920.4	1209.4	1827.8	3226.8	3966.8	4520.8	4686.5
50°	427.0	436.3	476.7	583.5	758.4	1038.2	1627.2	3182.6	4191.3	4970.0	5295.8
52.5°	340.5	342.4	368.1	452.8	585.4	867.0	1411.8	3042.7	4403.0	5409.9	6043.1
55°	281.6	281.6	296.4	347.9	449.1	659.0	1159.7	2810.8	4428.8	5895.8	6858.5
56°	270.6	266.9	279.8	324.0	405.0	594.6	1041.9	2654.3	4465.6	6120.4	7267.2
57°	255.9	257.7	265.1	296.4	364.5	526.4	911.2	2501.5	4439.8	6304.5	7569.1
58°	248.5	244.8	259.5	279.8	322.1	467.5	821.0	2321.2	4399.3	6455.4	8009.0
59°	237.5	235.6	244.8	263.2	300.0	416.0	710.5	2126.0	4320.2	6650.5	8336.6
60°	233.8	231.9	235.6	250.3	276.1	364.5	625.8	1897.8	4108.5	6851.2	8743.4
61°	222.7	224.6	231.9	241.1	261.4	327.6	563.3	1664.0	3970.4	7020.5	9192.6
62°	224.6	220.9	224.6	231.9	246.7	301.9	493.3	1433.9	3723.8	7212.0	9529.4
63°	213.5	211.7	217.2	226.4	233.8	272.4	430.7	1238.8	3444.0	7256.1	9814.7
64°	209.8	208.0	209.8	222.7	224.6	255.9	381.0	1058.4	3039.0	7331.6	10181.0
65°	200.6	200.6	204.3	209.8	217.2	241.1	340.5	918.5	2635.9	7132.8	10293.3
66°	193.3	195.1	195.1	204.3	209.8	224.6	312.9	780.5	2249.4	6816.2	10401.9
67°	187.8	187.8	189.6	197.0	202.5	211.7	281.6	675.5	1897.8	6438.9	10234.4
67.5°	184.1	185.9	185.9	193.3	198.8	211.7	268.7	640.6	1697.1	6024.7	10109.3
68°	178.6	180.4	180.4	187.8	193.3	204.3	259.5	585.4	1564.6	5755.9	9877.3
69°	174.9	173.0	173.0	180.4	187.8	195.1	241.1	511.7	1244.3	5004.9	9538.6
70°	163.8	163.8	167.5	173.0	178.6	185.9	222.7	451.0	1052.9	4143.5	8666.1
71°	158.3	156.5	158.3	163.8	169.3	178.6	204.3	399.4	861.5	3440.3	7808.4
72°	147.3	150.9	150.9	156.5	162.0	167.5	191.4	347.9	723.4	2750.0	6864.1
72.5°	145.4	145.4	147.3	152.8	156.5	165.7	184.1	333.2	660.8	2424.2	6468.3
73°	139.9	139.9	141.7	147.3	150.9	160.1	178.6	300.0	601.9	2157.3	5728.3
74°	134.4	132.5	132.5	139.9	141.7	150.9	167.5	265.1	504.4	1625.4	4598.1
75°	125.2	125.2	127.0	130.7	132.5	139.9	154.6	235.6	425.2	1260.9	3596.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	103.1	104.9	106.8	110.4	110.4	116.0	127.0	163.8	259.5	638.7	1651.1
80°	75.5	79.2	84.7	90.2	88.4	88.4	99.4	117.8	154.6	287.2	633.2
82.5°	60.7	64.4	58.9	66.3	66.3	62.6	71.8	86.5	104.9	141.7	226.4
85°	40.5	42.3	35.0	40.5	38.7	38.7	47.9	51.5	64.4	79.2	112.3
87.5°	18.4	18.4	14.7	16.6	16.6	16.6	23.9	18.4	27.6	38.7	66.3
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1572.0	1579.3	1579.3	1572.0	1566.5	1572.0	1568.3	1559.1	1568.3	1572.0	1573.8
5°	1594.1	1579.3	1586.7	1570.1	1581.2	1579.3	1575.7	1584.9	1586.7	1586.7	1599.6
7.5°	1618.0	1636.4	1612.5	1614.3	1619.8	1597.7	1605.1	1608.8	1601.4	1616.2	1627.2
10°	1660.3	1667.7	1660.3	1632.7	1651.1	1636.4	1630.9	1647.4	1643.8	1647.4	1664.0
12.5°	1699.0	1711.9	1691.6	1689.8	1680.6	1667.7	1675.1	1673.2	1699.0	1702.7	1722.9
15°	1778.1	1745.0	1737.6	1735.8	1732.1	1726.6	1730.3	1732.1	1765.3	1770.8	1818.6
17.5°	1846.2	1840.7	1800.2	1815.0	1815.0	1792.9	1783.7	1815.0	1840.7	1868.3	1901.5
20°	1916.2	1910.7	1866.5	1868.3	1851.8	1872.0	1861.0	1890.4	1934.6	1943.8	1973.3
22.5°	1999.0	1975.1	1943.8	1947.5	1953.0	1938.3	1930.9	1971.4	2015.6	2041.4	2043.2
25°	2129.7	2069.0	2043.2	2046.9	2039.5	2028.5	2034.0	2085.5	2107.6	2162.9	2151.8
27.5°	2199.7	2164.7	2146.3	2103.9	2105.8	2089.2	2111.3	2188.6	2232.8	2275.1	2190.5
30°	2284.3	2262.3	2181.3	2166.5	2164.7	2157.3	2197.8	2297.2	2363.5	2387.4	2265.9
32.5°	2450.0	2361.6	2341.4	2328.5	2299.1	2308.3	2328.5	2459.2	2564.1	2558.6	2335.9
35°	2639.6	2578.9	2521.8	2510.7	2507.1	2481.3	2516.3	2669.1	2750.0	2726.1	2361.6
37.5°	2943.3	2851.3	2774.0	2731.6	2724.3	2705.9	2788.7	2910.2	3015.1	2921.2	2381.9
40°	3092.4	2989.3	2917.5	2891.8	2897.3	2923.1	3004.1	3190.0	3236.0	3063.0	2398.5
42.5°	3305.9	3193.7	3051.9	3039.0	3022.5	3035.4	3191.8	3442.2	3480.8	3254.4	2335.9
45°	3685.1	3515.8	3352.0	3278.3	3282.0	3317.0	3560.0	3834.2	3762.4	3386.9	2236.5
47.5°	4163.7	3915.2	3782.7	3683.3	3731.1	3692.5	4079.0	4298.1	4053.3	3554.4	2115.0
50°	4883.4	4535.5	4355.2	4235.5	4255.8	4288.9	4681.0	4866.9	4375.4	3635.4	1929.1
52.5°	5790.9	5343.6	5078.6	4918.4	4933.1	5004.9	5511.1	5454.1	4743.5	3703.5	1680.6
55°	6876.9	6416.8	5903.2	5836.9	5820.4	5991.6	6549.3	6068.9	5074.9	3594.9	1422.9
56°	7451.3	6961.6	6427.8	6291.6	6251.1	6370.7	7026.0	6376.3	5189.0	3473.4	1299.6
57°	7939.0	7471.5	6886.2	6654.2	6705.8	6930.3	7499.1	6665.3	5293.9	3348.3	1183.6
58°	8609.1	8075.3	7456.8	7280.1	7234.0	7412.6	8009.0	6956.1	5328.9	3219.4	1076.8
59°	9277.3	8636.7	8078.9	7756.8	7769.7	8095.5	8511.5	7302.2	5382.3	3055.6	940.6
60°	9785.3	9463.2	8717.7	8476.5	8443.4	8914.6	9012.2	7534.1	5439.3	2834.7	844.9
61°	10505.0	10085.3	9391.4	9080.3	9170.5	9547.8	9553.4	7824.9	5354.7	2554.9	727.1
62°	11022.3	10911.8	10182.9	9886.5	9858.9	10359.6	10116.6	8080.8	5281.0	2289.9	642.4
63°	11627.9	11627.9	10963.4	10731.4	10744.3	11140.1	10361.4	8336.6	5196.4	1997.2	565.1
64°	11942.6	12338.4	11725.4	11399.6	11484.3	11826.7	10797.7	8504.1	4935.0	1700.8	497.0
65°	12215.0	12809.6	12469.1	12318.1	12189.3	12391.8	11175.0	8660.6	4535.5	1446.8	441.8
66°	12445.1	13253.2	13140.9	12978.9	12966.1	12920.0	11248.7	8655.1	4123.2	1222.2	386.6
67°	12329.2	13262.4	13466.7	13534.8	13514.6	13028.6	11119.8	8458.1	3594.9	1032.6	344.2
67.5°	12224.3	13187.0	13661.9	13623.2	13707.9	13120.7	11141.9	8217.0	3219.4	935.1	324.0
68°	12132.2	13085.7	13741.0	13790.7	13748.4	13131.7	11020.4	8025.6	2963.6	878.0	305.6
69°	11434.6	12605.3	13614.0	13792.5	13683.9	12710.2	10633.9	7526.7	2354.3	749.2	281.6
70°	10735.1	11983.1	12997.4	13325.0	13190.6	11894.8	10146.1	6733.4	1942.0	640.6	254.0
71°	9766.9	10827.1	12176.4	12373.4	12211.4	10967.0	9137.4	5895.8	1511.2	543.0	226.4
72°	8452.6	9352.7	10641.2	11118.0	10878.7	9632.5	8117.6	4872.4	1224.1	456.5	206.2
72.5°	7801.0	8723.2	9965.7	10004.3	10050.4	9052.7	7685.0	4279.7	1067.6	423.4	200.6
73°	7182.5	8086.3	9161.3	9297.5	9102.4	8075.3	7038.9	3826.9	975.6	386.6	193.3
74°	5820.4	6335.8	7226.7	7359.2	7188.0	6584.3	5752.3	2934.1	776.8	333.2	176.7
75°	4579.7	4863.2	5669.4	5588.4	5332.6	5120.9	4460.1	2242.0	629.5	292.7	163.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2057.9	2229.1	2363.5	2363.5	2378.2	2269.6	2056.1	1029.0	388.4	211.7	134.4
80°	784.1	878.0	907.5	909.3	922.2	955.3	889.1	506.2	230.1	150.9	108.6
82.5°	568.8	795.2	855.9	811.8	815.4	736.3	340.5	224.6	145.4	104.9	79.2
85°	515.4	692.1	732.6	727.1	728.9	681.1	200.6	110.4	84.7	66.3	55.2
87.5°	250.3	244.8	259.5	292.7	285.3	370.0	169.3	55.2	36.8	27.6	27.6
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°	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1559.1	1557.3	1583.0	1557.3	1572.0	1560.9
5°	1577.5	1584.9	1590.4	1601.4	1575.7	1601.4
7.5°	1632.7	1640.1	1641.9	1651.1	1640.1	1638.2
10°	1675.1	1693.5	1704.5	1667.7	1689.8	1687.9
12.5°	1757.9	1739.5	1737.6	1730.3	1710.0	1702.7
15°	1816.8	1789.2	1772.6	1743.2	1719.2	1710.0
17.5°	1899.6	1846.2	1778.1	1717.4	1675.1	1641.9
20°	1951.2	1855.5	1719.2	1647.4	1583.0	1597.7
22.5°	1984.3	1846.2	1665.9	1573.8	1509.4	1527.8
25°	1995.3	1800.2	1629.0	1514.9	1452.3	1439.4
27.5°	1964.1	1746.8	1557.3	1428.4	1373.2	1384.2
30°	1949.3	1669.5	1491.0	1364.0	1290.3	1301.4
32.5°	1910.7	1590.4	1402.6	1273.8	1220.4	1202.0
35°	1855.5	1524.1	1318.0	1196.5	1132.0	1117.3
37.5°	1787.3	1441.3	1244.3	1097.1	1040.0	1029.0
40°	1686.1	1341.9	1137.6	1010.6	944.3	942.5
42.5°	1597.7	1246.2	1038.2	907.5	841.2	844.9
45°	1485.5	1117.3	924.0	811.8	745.5	749.2
47.5°	1341.9	997.7	815.4	690.3	635.1	631.4
50°	1172.5	861.5	682.9	576.1	530.1	520.9
52.5°	1010.6	723.4	559.6	463.9	425.2	421.5
55°	806.2	563.3	436.3	364.5	335.0	336.9
56°	732.6	519.1	397.6	333.2	311.1	311.1
57°	662.7	460.2	360.8	307.4	287.2	287.2
58°	585.4	405.0	327.6	277.9	268.7	261.4
59°	532.0	368.1	296.4	263.2	248.5	246.7
60°	469.4	331.3	276.1	246.7	235.6	233.8
61°	416.0	298.2	254.0	230.1	226.4	226.4
62°	371.8	276.1	235.6	222.7	220.9	215.4
63°	333.2	254.0	226.4	211.7	206.2	211.7
64°	298.2	233.8	219.0	208.0	200.6	204.3
65°	270.6	224.6	209.8	202.5	195.1	197.0
66°	252.2	209.8	202.5	193.3	189.6	191.4
67°	228.2	202.5	195.1	185.9	184.1	185.9
67.5°	220.9	197.0	191.4	182.2	180.4	182.2
68°	215.4	193.3	189.6	180.4	178.6	176.7
69°	200.6	185.9	180.4	176.7	173.0	171.2
70°	187.8	178.6	174.9	169.3	165.7	163.8
71°	180.4	169.3	167.5	162.0	158.3	156.5
72°	171.2	163.8	160.1	152.8	150.9	152.8
72.5°	169.3	160.1	158.3	150.9	149.1	149.1
73°	163.8	152.8	154.6	147.3	143.6	147.3
74°	152.8	149.1	145.4	139.9	138.1	138.1
75°	143.6	139.9	136.2	132.5	132.5	132.5



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	135°	145°	155°	165°	175°	180°
77.5°	121.5	119.6	121.5	114.1	112.3	110.4
80°	97.6	97.6	99.4	93.9	90.2	88.4
82.5°	73.6	75.5	79.2	73.6	69.9	66.3
85°	47.9	49.7	49.7	44.2	51.5	47.9
87.5°	23.9	25.8	23.9	22.1	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)