

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: P676173

Luminaire Tested: **CCW-SA-2E-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676173
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

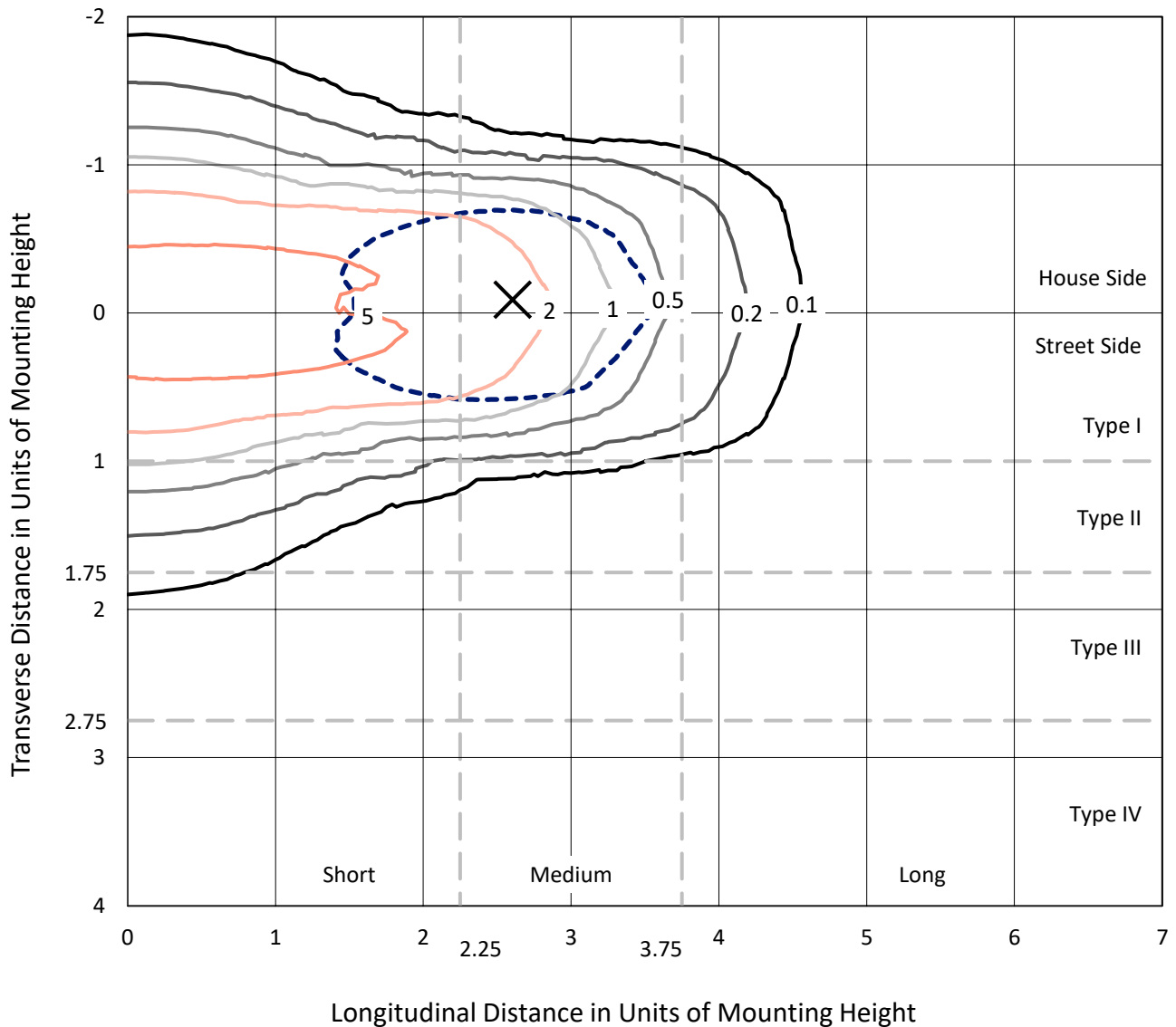
Lumens per Lamp: N/A
Luminaire Lumens: 9787.5 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

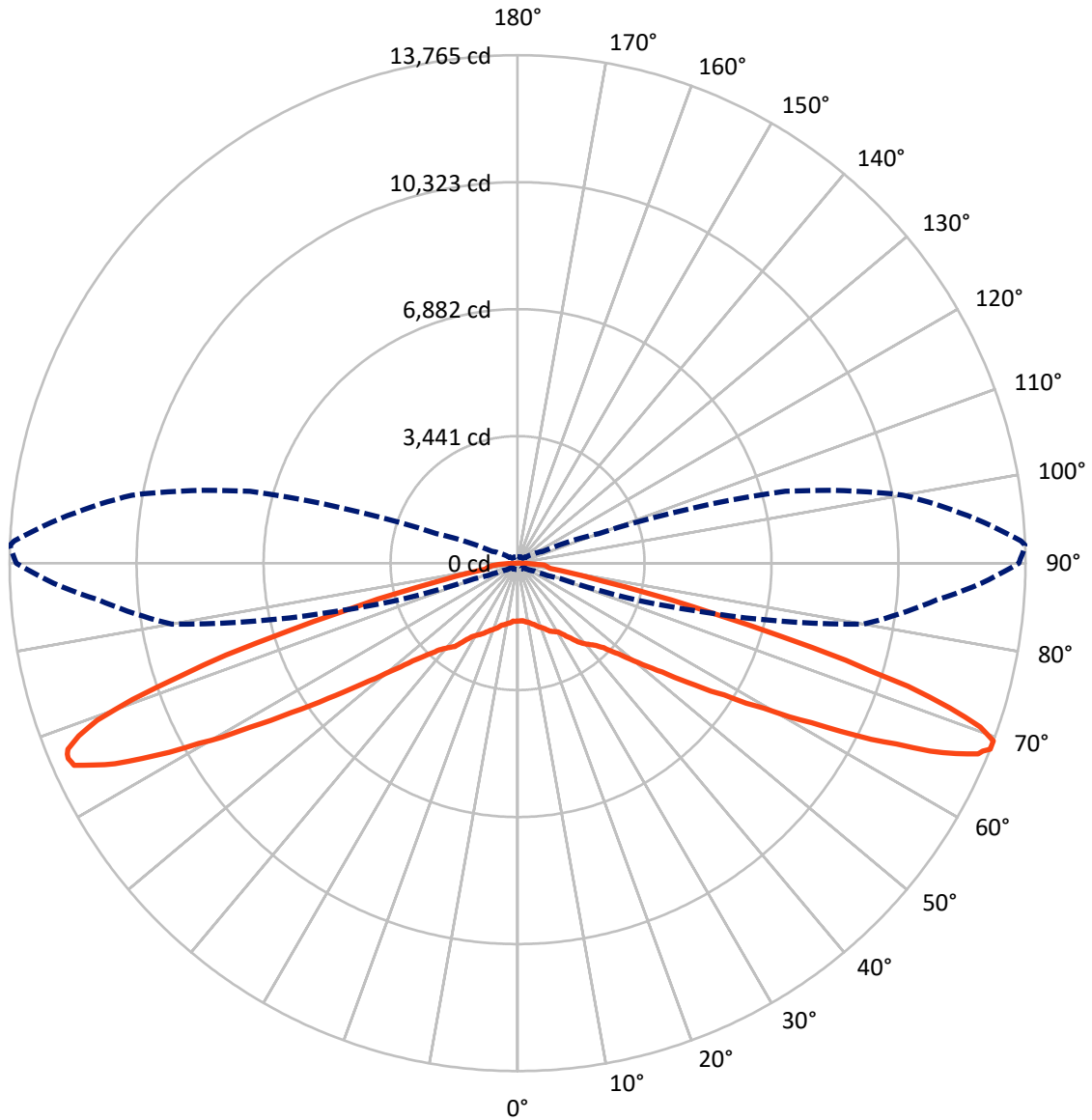
× Max cd
 - - - 1/2 Max cd



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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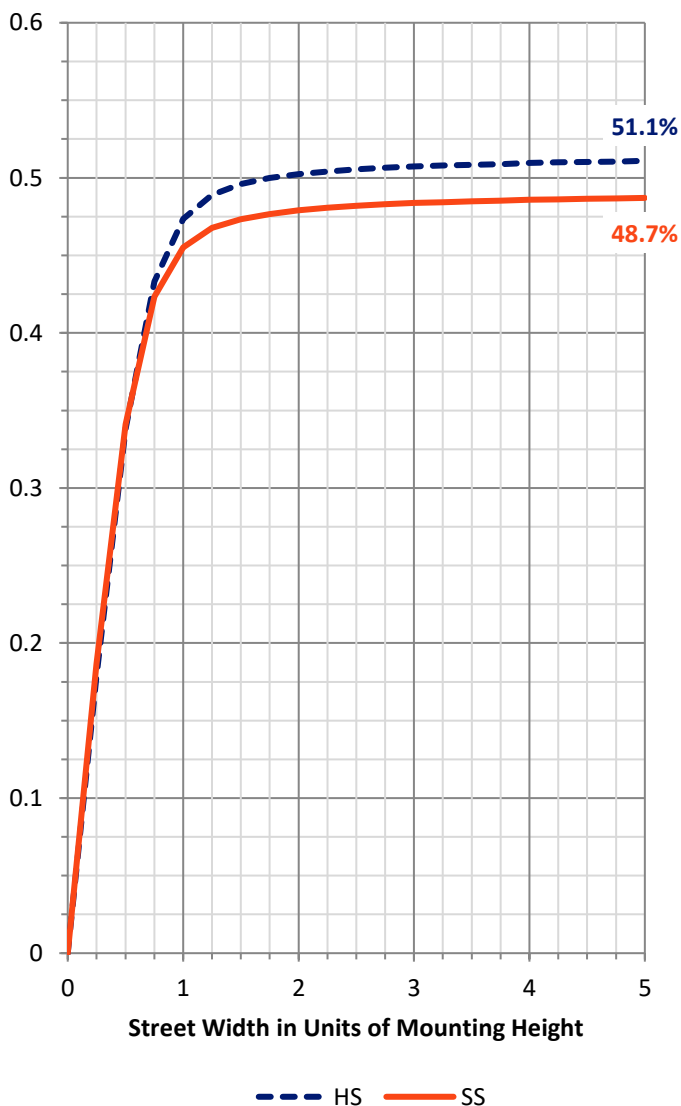
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5040.4	0.0	5040.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4747.1	0.0	4747.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	9787.5	0.0	9787.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	1.6
10°-20°	507.7	5.2
20°-30°	866.5	8.9
30°-40°	1209.9	12.4
40°-50°	1539.0	15.7
50°-60°	1945.9	19.9
60°-70°	2399.8	24.5
70°-80°	1048.3	10.7
80°-90°	113.7	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°	9787.5	100.0
0°-180°	9787.5	100.0



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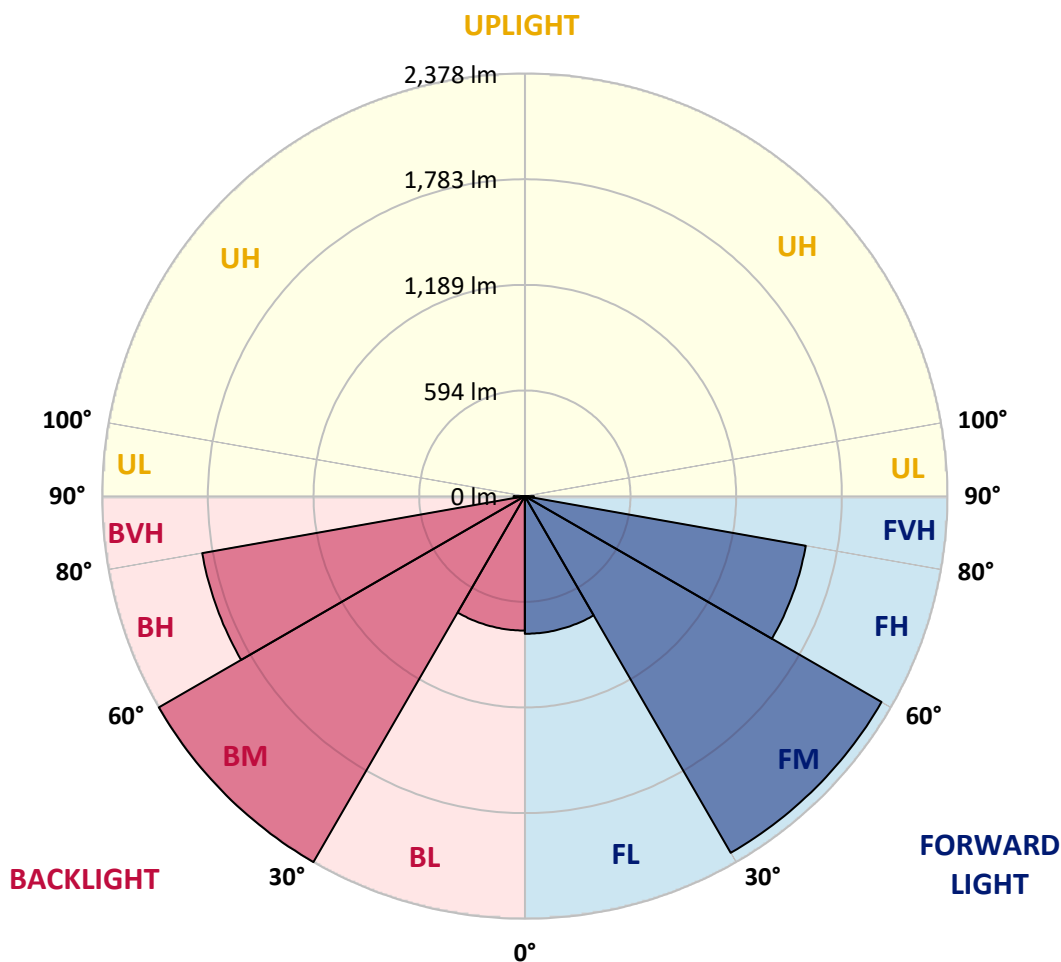
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.6	7.9			
FM	(30°-60°)	2317.1	23.7			
FH	(60°-80°)	1605.0	16.4			G1/1800
FVH	(80°-90°)	50.4	0.5			G1/100
BL	(0°-30°)	756.4	7.7	B2/1000		
BM	(30°-60°)	2377.6	24.3	B2/2500		
BH	(60°-80°)	1843.2	18.8	B3/2500		G3/2500
BVH	(80°-90°)	63.3	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°	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1598.2	1596.3	1601.8	1605.5	1589.0	1594.5	1590.8	1587.1	1574.3	1568.8	1557.8
5°	1642.3	1647.8	1666.1	1649.6	1657.0	1647.8	1618.4	1627.6	1611.0	1607.4	1596.3
7.5°	1719.4	1708.4	1734.1	1715.7	1721.2	1702.9	1690.0	1673.5	1669.8	1644.1	1645.9
10°	1735.9	1758.0	1769.0	1765.3	1769.0	1778.2	1754.3	1728.6	1693.7	1686.3	1660.6
12.5°	1724.9	1745.1	1774.5	1798.4	1814.9	1818.6	1809.4	1803.9	1789.2	1747.0	1745.1
15°	1713.9	1699.2	1717.6	1800.2	1855.3	1892.1	1904.9	1873.7	1877.4	1822.3	1800.2
17.5°	1640.4	1618.4	1690.0	1770.8	1838.8	1919.6	1982.1	1972.9	1972.9	1928.8	1897.6
20°	1543.1	1579.8	1616.5	1719.4	1844.3	1965.6	2085.0	2079.5	2057.4	2044.6	1976.6
22.5°	1460.4	1476.9	1544.9	1653.3	1809.4	1978.4	2119.9	2220.9	2169.5	2118.0	2077.6
25°	1403.4	1388.8	1475.1	1587.1	1776.4	1956.4	2186.0	2290.7	2318.3	2279.7	2202.5
27.5°	1322.6	1322.6	1390.6	1497.1	1669.8	1945.4	2250.3	2410.1	2450.5	2393.6	2281.5
30°	1230.8	1241.8	1300.6	1421.8	1590.8	1864.5	2276.0	2547.9	2581.0	2531.4	2415.6
32.5°	1159.1	1159.1	1225.3	1353.9	1535.7	1827.8	2259.5	2683.8	2746.3	2709.5	2590.1
35°	1082.0	1076.5	1124.2	1265.7	1447.5	1756.1	2254.0	2792.2	2931.8	2933.7	2808.7
37.5°	971.8	993.8	1054.4	1166.5	1377.7	1686.3	2237.4	2922.6	3172.5	3214.7	3128.4
40°	898.3	907.5	962.6	1085.7	1269.4	1603.7	2213.6	3029.2	3332.3	3477.4	3358.0
42.5°	791.7	804.6	846.8	999.3	1164.6	1486.1	2108.8	3104.5	3560.1	3725.4	3624.4
45°	679.7	687.0	749.5	874.4	1052.6	1346.5	1996.8	3225.7	3780.5	4118.5	4059.7
47.5°	545.6	549.3	602.5	733.0	918.5	1206.9	1824.1	3220.2	3958.7	4511.6	4676.9
50°	426.2	435.4	475.8	582.3	756.8	1036.1	1623.9	3176.1	4182.8	4959.8	5285.0
52.5°	339.8	341.7	367.4	451.9	584.2	865.2	1409.0	3036.5	4394.0	5398.9	6030.8
55°	281.1	281.1	295.8	347.2	448.2	657.6	1157.3	2805.1	4419.8	5883.8	6844.6
56°	270.0	266.4	279.2	323.3	404.1	593.3	1039.7	2648.9	4456.5	6107.9	7252.4
57°	255.3	257.2	264.5	295.8	363.7	525.4	909.3	2496.5	4430.8	6291.6	7553.6
58°	248.0	244.3	259.0	279.2	321.5	466.6	819.3	2316.4	4390.4	6442.3	7992.7
59°	237.0	235.1	244.3	262.7	299.4	415.2	709.1	2121.7	4311.4	6637.0	8319.7
60°	233.3	231.5	235.1	249.8	275.5	363.7	624.6	1893.9	4100.1	6837.2	8725.6
61°	222.3	224.1	231.5	240.6	260.9	327.0	562.1	1660.6	3962.4	7006.2	9173.9
62°	224.1	220.4	224.1	231.5	246.2	301.3	492.3	1431.0	3716.2	7197.3	9510.0
63°	213.1	211.3	216.8	225.9	233.3	271.9	429.9	1236.3	3437.0	7241.4	9794.8
64°	209.4	207.6	209.4	222.3	224.1	255.3	380.3	1056.3	3032.8	7316.7	10160.3
65°	200.2	200.2	203.9	209.4	216.8	240.6	339.8	916.7	2630.5	7118.3	10272.4
66°	192.9	194.7	194.7	203.9	209.4	224.1	312.3	778.9	2244.8	6802.3	10380.8
67°	187.4	187.4	189.2	196.6	202.1	211.3	281.1	674.2	1893.9	6425.7	10213.6
67.5°	183.7	185.5	185.5	192.9	198.4	211.3	268.2	639.3	1693.7	6012.4	10088.7
68°	178.2	180.0	180.0	187.4	192.9	203.9	259.0	584.2	1561.4	5744.2	9857.2
69°	174.5	172.7	172.7	180.0	187.4	194.7	240.6	510.7	1241.8	4994.7	9519.2
70°	163.5	163.5	167.2	172.7	178.2	185.5	222.3	450.1	1050.8	4135.0	8648.5
71°	158.0	156.1	158.0	163.5	169.0	178.2	203.9	398.6	859.7	3433.3	7792.5
72°	147.0	150.6	150.6	156.1	161.7	167.2	191.0	347.2	721.9	2744.4	6850.1
72.5°	145.1	145.1	147.0	152.5	156.1	165.3	183.7	332.5	659.5	2419.3	6455.1
73°	139.6	139.6	141.4	147.0	150.6	159.8	178.2	299.4	600.7	2152.9	5716.7
74°	134.1	132.3	132.3	139.6	141.4	150.6	167.2	264.5	503.3	1622.1	4588.8
75°	124.9	124.9	126.8	130.4	132.3	139.6	154.3	235.1	424.3	1258.3	3589.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	102.9	104.7	106.5	110.2	110.2	115.7	126.8	163.5	259.0	637.4	1647.8
80°	75.3	79.0	84.5	90.0	88.2	88.2	99.2	117.6	154.3	286.6	631.9
82.5°	60.6	64.3	58.8	66.1	66.1	62.5	71.6	86.3	104.7	141.4	225.9
85°	40.4	42.3	34.9	40.4	38.6	38.6	47.8	51.4	64.3	79.0	112.1
87.5°	18.4	18.4	14.7	16.5	16.5	16.5	23.9	18.4	27.6	38.6	66.1
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°	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1568.8	1576.1	1576.1	1568.8	1563.3	1568.8	1565.1	1555.9	1565.1	1568.8	1570.6
5°	1590.8	1576.1	1583.5	1566.9	1578.0	1576.1	1572.5	1581.6	1583.5	1583.5	1596.3
7.5°	1614.7	1633.1	1609.2	1611.0	1616.5	1594.5	1601.8	1605.5	1598.2	1612.9	1623.9
10°	1657.0	1664.3	1657.0	1629.4	1647.8	1633.1	1627.6	1644.1	1640.4	1644.1	1660.6
12.5°	1695.5	1708.4	1688.2	1686.3	1677.2	1664.3	1671.6	1669.8	1695.5	1699.2	1719.4
15°	1774.5	1741.5	1734.1	1732.3	1728.6	1723.1	1726.8	1728.6	1761.7	1767.2	1814.9
17.5°	1842.5	1837.0	1796.6	1811.3	1811.3	1789.2	1780.0	1811.3	1837.0	1864.5	1897.6
20°	1912.3	1906.8	1862.7	1864.5	1848.0	1868.2	1857.2	1886.6	1930.7	1939.8	1969.2
22.5°	1995.0	1971.1	1939.8	1943.5	1949.0	1934.3	1927.0	1967.4	2011.5	2037.2	2039.0
25°	2125.4	2064.8	2039.0	2042.7	2035.4	2024.3	2029.9	2081.3	2103.3	2158.4	2147.4
27.5°	2195.2	2160.3	2141.9	2099.7	2101.5	2085.0	2107.0	2184.2	2228.3	2270.5	2186.0
30°	2279.7	2257.6	2176.8	2162.1	2160.3	2152.9	2193.3	2292.5	2358.7	2382.6	2261.3
32.5°	2445.0	2356.8	2336.6	2323.8	2294.4	2303.6	2323.8	2454.2	2558.9	2553.4	2331.1
35°	2634.2	2573.6	2516.7	2505.6	2502.0	2476.2	2511.1	2663.6	2744.4	2720.6	2356.8
37.5°	2937.3	2845.5	2768.3	2726.1	2718.7	2700.4	2783.0	2904.3	3009.0	2915.3	2377.0
40°	3086.1	2983.2	2911.6	2885.9	2891.4	2917.1	2997.9	3183.5	3229.4	3056.7	2393.6
42.5°	3299.2	3187.2	3045.7	3032.8	3016.3	3029.2	3185.3	3435.1	3473.7	3247.8	2331.1
45°	3677.6	3508.6	3345.1	3271.7	3275.3	3310.2	3552.7	3826.4	3754.8	3380.0	2231.9
47.5°	4155.2	3907.2	3775.0	3675.8	3723.6	3685.0	4070.7	4289.3	4045.0	3547.2	2110.7
50°	4873.5	4526.3	4346.3	4226.9	4247.1	4280.2	4671.4	4857.0	4366.5	3628.0	1925.2
52.5°	5779.1	5332.7	5068.2	4908.4	4923.1	4994.7	5499.9	5443.0	4733.9	3696.0	1677.2
55°	6862.9	6403.7	5891.2	5825.1	5808.5	5979.4	6536.0	6056.5	5064.5	3587.6	1420.0
56°	7436.1	6947.4	6414.7	6278.8	6238.4	6357.8	7011.7	6363.3	5178.4	3466.4	1296.9
57°	7922.9	7456.3	6872.1	6640.7	6692.1	6916.2	7483.8	6651.7	5283.1	3341.5	1181.2
58°	8591.5	8058.8	7441.6	7265.2	7219.3	7397.5	7992.7	6941.9	5318.0	3212.9	1074.6
59°	9258.4	8619.1	8062.5	7741.0	7753.9	8079.0	8494.2	7287.3	5371.3	3049.4	938.7
60°	9765.4	9443.9	8699.9	8459.3	8426.2	8896.5	8993.8	7518.7	5428.3	2828.9	843.2
61°	10483.6	10064.8	9372.3	9061.8	9151.8	9528.4	9533.9	7809.0	5343.8	2549.7	725.6
62°	10999.8	10889.6	10162.2	9866.4	9838.8	10338.5	10096.0	8064.3	5270.3	2285.2	641.1
63°	11604.2	11604.2	10941.0	10709.6	10722.4	11117.4	10340.3	8319.7	5185.8	1993.1	564.0
64°	11918.3	12313.3	11701.5	11376.4	11460.9	11802.6	10775.7	8486.8	4924.9	1697.4	496.0
65°	12190.2	12783.5	12443.7	12293.0	12164.5	12366.5	11152.3	8643.0	4526.3	1443.9	440.9
66°	12419.8	13226.2	13114.2	12952.5	12939.7	12893.7	11225.8	8637.5	4114.8	1219.8	385.8
67°	12304.1	13235.4	13439.3	13507.3	13487.1	13002.1	11097.2	8440.9	3587.6	1030.5	343.5
67.5°	12199.4	13160.1	13634.0	13595.5	13680.0	13094.0	11119.2	8200.3	3212.9	933.2	323.3
68°	12107.5	13059.1	13713.0	13762.6	13720.4	13105.0	10998.0	8009.2	2957.5	876.2	304.9
69°	11411.3	12579.6	13586.3	13764.5	13656.1	12684.3	10612.2	7511.4	2349.5	747.6	281.1
70°	10713.2	11958.7	12970.9	13297.9	13163.8	11870.5	10125.4	6719.7	1938.0	639.3	253.5
71°	9747.0	10805.1	12151.6	12348.2	12186.5	10944.7	9118.8	5883.8	1508.2	541.9	225.9
72°	8435.4	9333.7	10619.6	11095.3	10856.5	9612.9	8101.1	4862.5	1221.6	455.6	205.7
72.5°	7785.1	8705.4	9945.4	9984.0	10029.9	9034.2	7669.4	4271.0	1065.4	422.5	200.2
73°	7167.9	8069.8	9142.6	9278.6	9083.8	8058.8	7024.6	3819.1	973.6	385.8	192.9
74°	5808.5	6322.9	7212.0	7344.2	7173.4	6570.9	5740.6	2928.1	775.2	332.5	176.3
75°	4570.4	4853.3	5657.9	5577.1	5321.7	5110.5	4451.0	2237.4	628.2	292.1	163.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2053.7	2224.6	2358.7	2358.7	2373.4	2265.0	2051.9	1026.9	387.6	211.3	134.1
80°	782.6	876.2	905.6	907.5	920.3	953.4	887.3	505.2	229.6	150.6	108.4
82.5°	567.6	793.6	854.2	810.1	813.8	734.8	339.8	224.1	145.1	104.7	79.0
85°	514.4	690.7	731.1	725.6	727.4	679.7	200.2	110.2	84.5	66.1	55.1
87.5°	249.8	244.3	259.0	292.1	284.7	369.2	169.0	55.1	36.7	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°	1565.1	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1555.9	1554.1	1579.8	1554.1	1568.8	1557.8
5°	1574.3	1581.6	1587.1	1598.2	1572.5	1598.2
7.5°	1629.4	1636.7	1638.6	1647.8	1636.7	1634.9
10°	1671.6	1690.0	1701.0	1664.3	1686.3	1684.5
12.5°	1754.3	1735.9	1734.1	1726.8	1706.6	1699.2
15°	1813.1	1785.5	1769.0	1739.6	1715.7	1706.6
17.5°	1895.8	1842.5	1774.5	1713.9	1671.6	1638.6
20°	1947.2	1851.7	1715.7	1644.1	1579.8	1594.5
22.5°	1980.3	1842.5	1662.5	1570.6	1506.3	1524.7
25°	1991.3	1796.6	1625.7	1511.8	1449.4	1436.5
27.5°	1960.1	1743.3	1554.1	1425.5	1370.4	1381.4
30°	1945.4	1666.1	1488.0	1361.2	1287.7	1298.7
32.5°	1906.8	1587.1	1399.8	1271.2	1217.9	1199.5
35°	1851.7	1521.0	1315.3	1194.0	1129.7	1115.0
37.5°	1783.7	1438.4	1241.8	1094.8	1037.9	1026.9
40°	1682.7	1339.2	1135.3	1008.5	942.4	940.5
42.5°	1594.5	1243.6	1036.1	905.6	839.5	843.2
45°	1482.4	1115.0	922.2	810.1	744.0	747.6
47.5°	1339.2	995.6	813.8	688.9	633.8	630.1
50°	1170.2	859.7	681.5	575.0	529.0	519.9
52.5°	1008.5	721.9	558.4	462.9	424.3	420.7
55°	804.6	562.1	435.4	363.7	334.3	336.2
56°	731.1	518.0	396.8	332.5	310.4	310.4
57°	661.3	459.2	360.0	306.8	286.6	286.6
58°	584.2	404.1	327.0	277.4	268.2	260.9
59°	530.9	367.4	295.8	262.7	248.0	246.2
60°	468.4	330.7	275.5	246.2	235.1	233.3
61°	415.2	297.6	253.5	229.6	225.9	225.9
62°	371.1	275.5	235.1	222.3	220.4	214.9
63°	332.5	253.5	225.9	211.3	205.7	211.3
64°	297.6	233.3	218.6	207.6	200.2	203.9
65°	270.0	224.1	209.4	202.1	194.7	196.6
66°	251.7	209.4	202.1	192.9	189.2	191.0
67°	227.8	202.1	194.7	185.5	183.7	185.5
67.5°	220.4	196.6	191.0	181.9	180.0	181.9
68°	214.9	192.9	189.2	180.0	178.2	176.3
69°	200.2	185.5	180.0	176.3	172.7	170.8
70°	187.4	178.2	174.5	169.0	165.3	163.5
71°	180.0	169.0	167.2	161.7	158.0	156.1
72°	170.8	163.5	159.8	152.5	150.6	152.5
72.5°	169.0	159.8	158.0	150.6	148.8	148.8
73°	163.5	152.5	154.3	147.0	143.3	147.0
74°	152.5	148.8	145.1	139.6	137.8	137.8
75°	143.3	139.6	135.9	132.3	132.3	132.3



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	135°	145°	155°	165°	175°	180°
77.5°	121.2	119.4	121.2	113.9	112.1	110.2
80°	97.4	97.4	99.2	93.7	90.0	88.2
82.5°	73.5	75.3	79.0	73.5	69.8	66.1
85°	47.8	49.6	49.6	44.1	51.4	47.8
87.5°	23.9	25.7	23.9	22.0	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)