

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: P676194

Luminaire Tested: **CCW-SA-2D-835-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676194
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

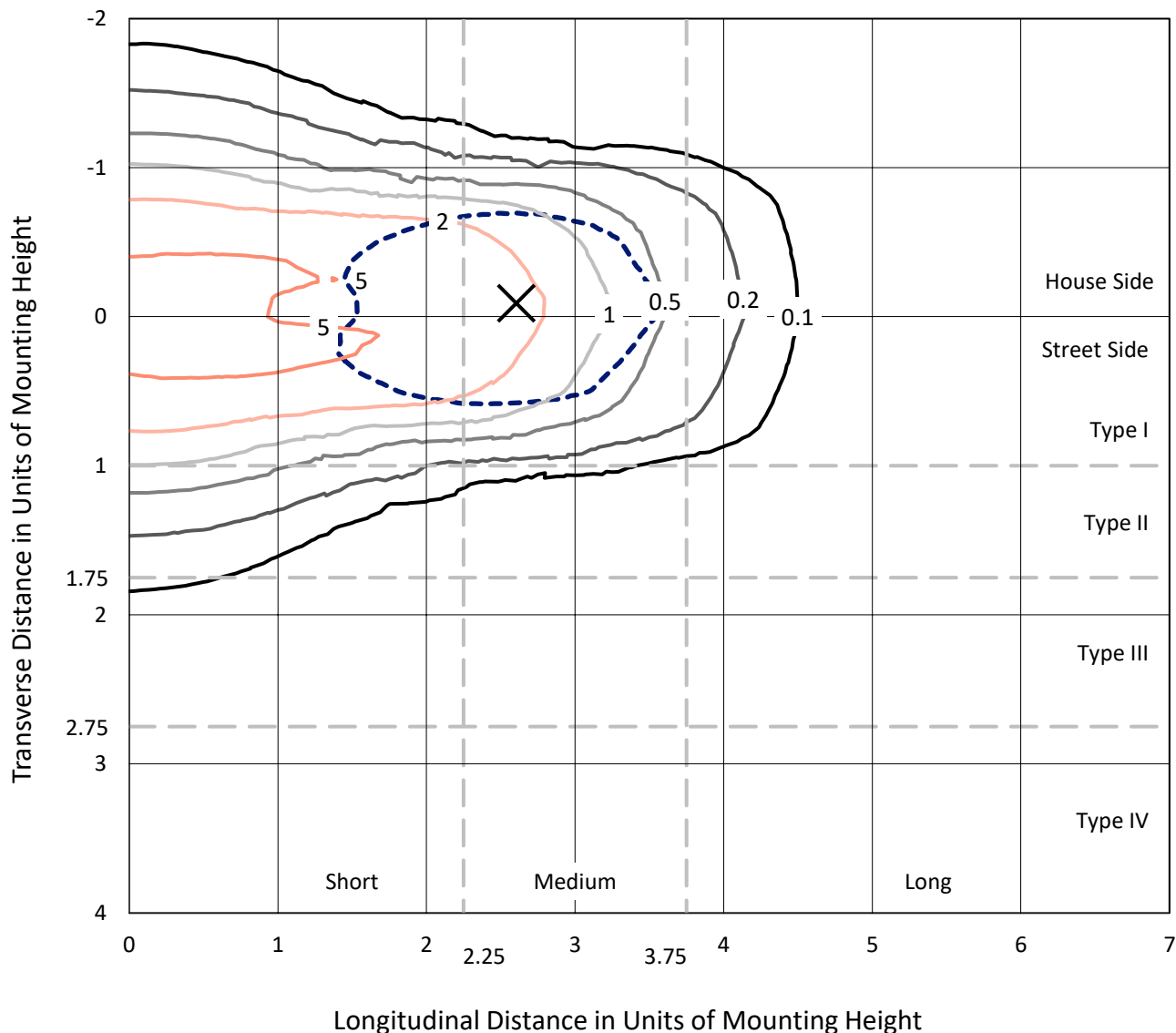
Lumens per Lamp: N/A
Luminaire Lumens: 8948.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

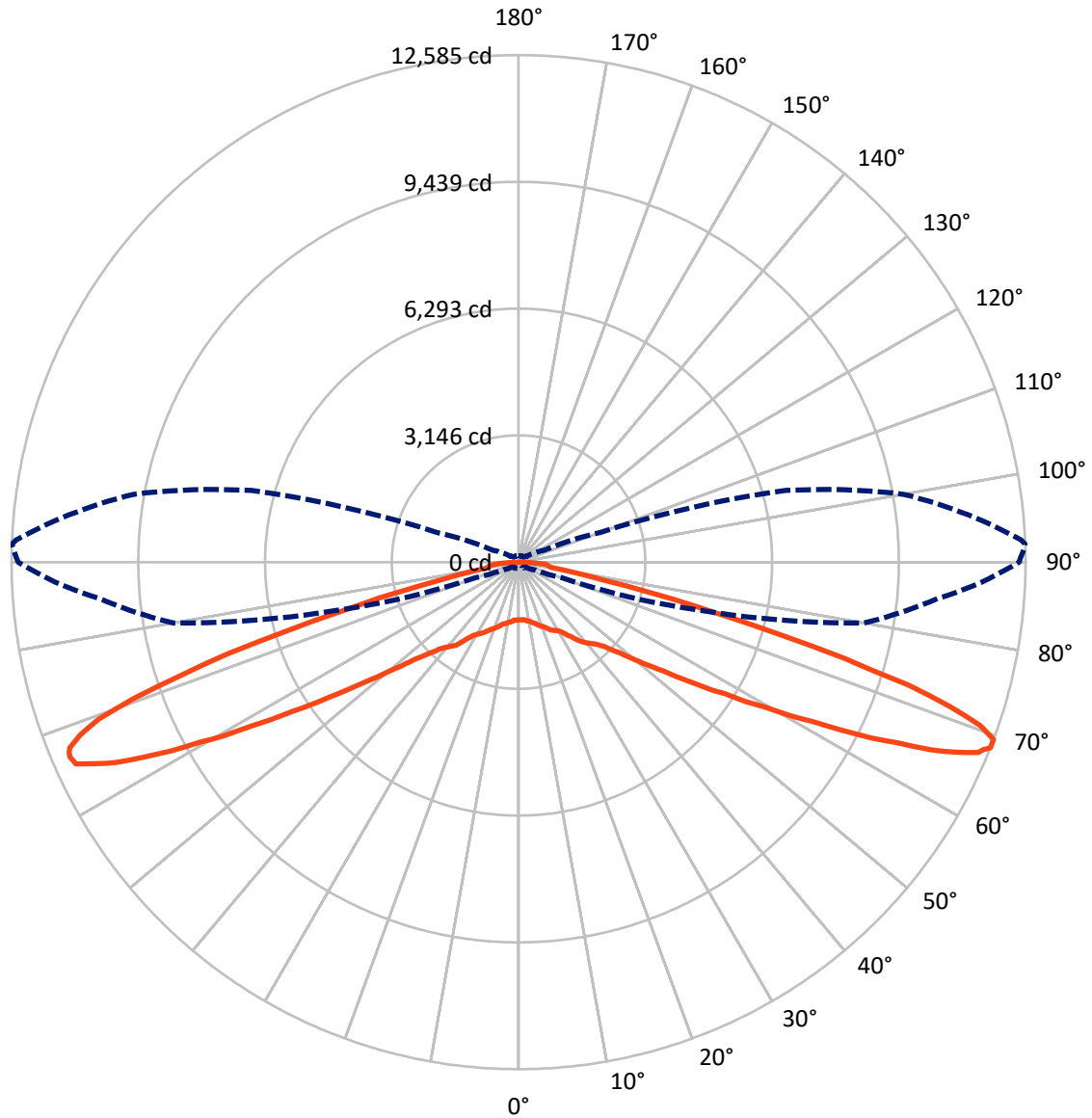
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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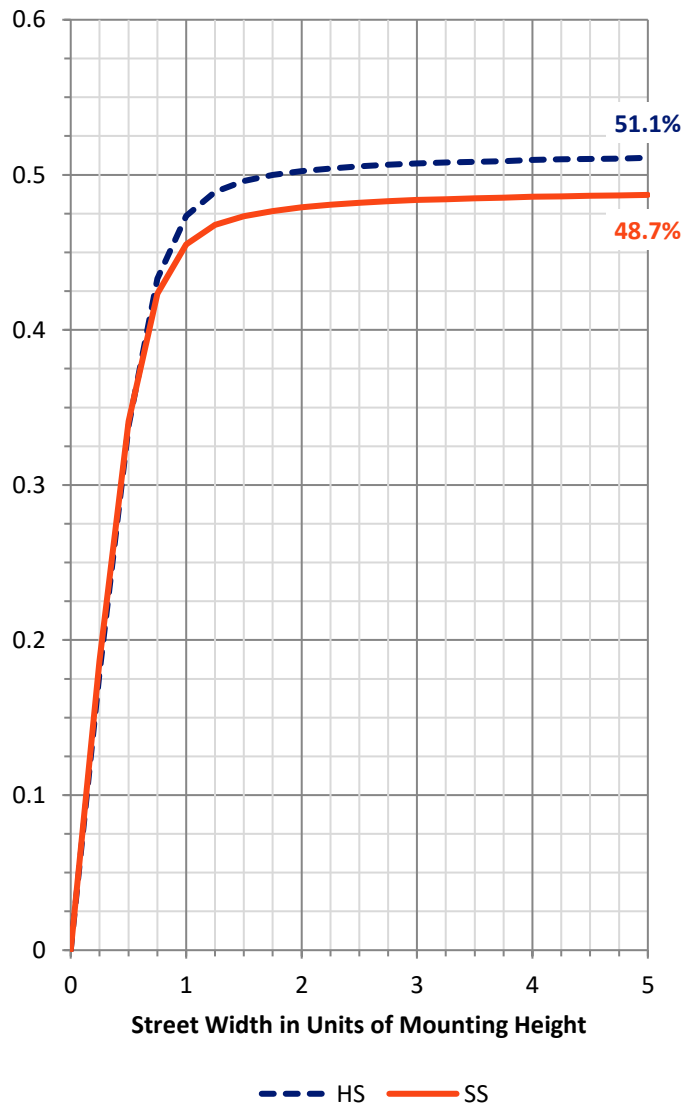
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4608.6	0.0	4608.6
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4340.4	0.0	4340.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	8948.9	0.0	8948.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.6
10°-20°	464.2	5.2
20°-30°	792.2	8.9
30°-40°	1106.2	12.4
40°-50°	1407.1	15.7
50°-60°	1779.2	19.9
60°-70°	2194.2	24.5
70°-80°	958.5	10.7
80°-90°	104.0	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°	8948.9	100.0
0°-180°	8948.9	100.0



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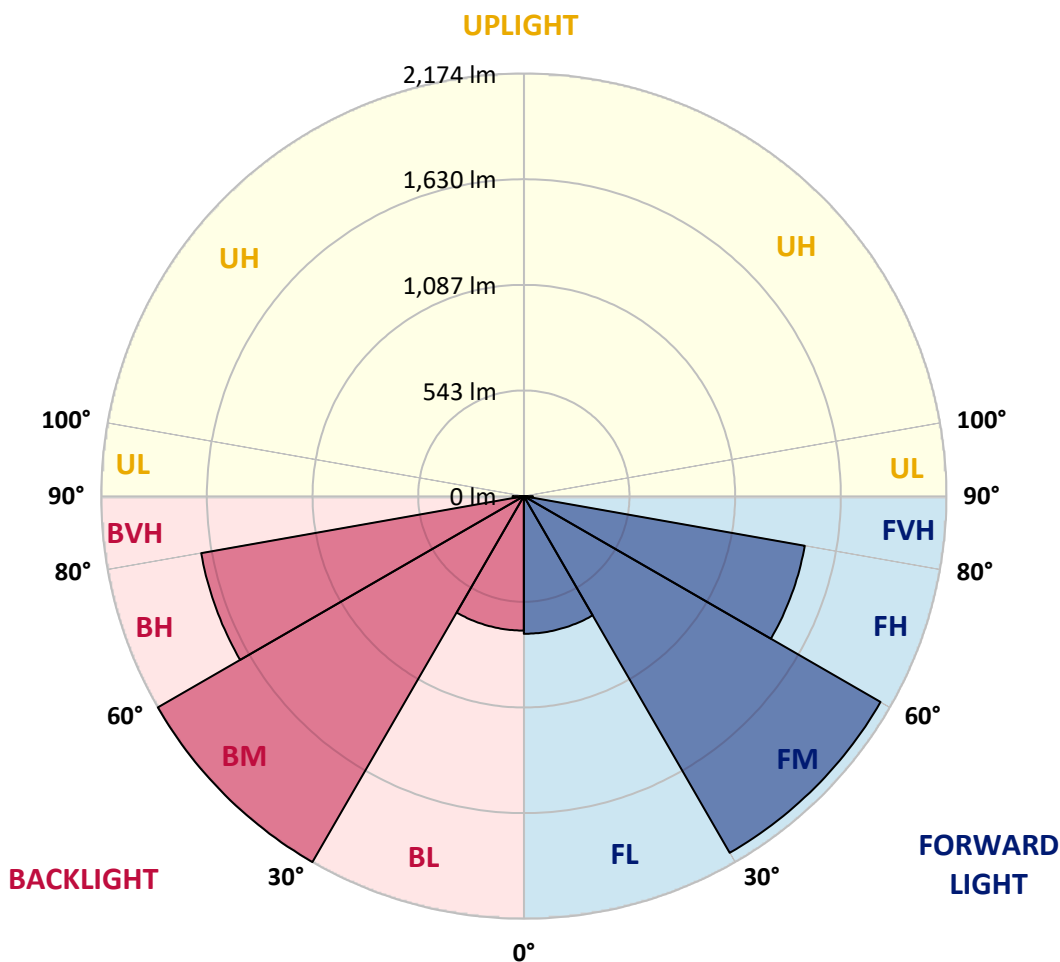
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.2	7.9			
FM (30°-60°)	2118.6	23.7			
FH (60°-80°)	1467.4	16.4			G1/1800
FVH (80°-90°)	46.1	0.5			G1/100
BL (0°-30°)	691.6	7.7	B2/1000		
BM (30°-60°)	2173.9	24.3	B2/2500		
BH (60°-80°)	1685.2	18.8	B3/2500		G3/2500
BVH (80°-90°)	57.9	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°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1461.2	1459.6	1464.6	1468.0	1452.8	1457.9	1454.5	1451.2	1439.4	1434.4	1424.3
5°	1501.5	1506.6	1523.4	1508.3	1515.0	1506.6	1479.7	1488.1	1473.0	1469.6	1459.6
7.5°	1572.1	1562.0	1585.5	1568.7	1573.8	1557.0	1545.2	1530.1	1526.7	1503.2	1504.9
10°	1587.2	1607.4	1617.4	1614.1	1617.4	1625.8	1604.0	1580.5	1548.6	1541.9	1518.3
12.5°	1577.1	1595.6	1622.5	1644.3	1659.4	1662.8	1654.4	1649.4	1635.9	1597.3	1595.6
15°	1567.1	1553.6	1570.4	1646.0	1696.4	1730.0	1741.7	1713.2	1716.5	1666.1	1646.0
17.5°	1499.9	1479.7	1545.2	1619.1	1681.3	1755.2	1812.3	1803.9	1803.9	1763.6	1735.0
20°	1410.9	1444.4	1478.0	1572.1	1686.3	1797.2	1906.3	1901.3	1881.1	1869.4	1807.2
22.5°	1335.3	1350.4	1412.5	1511.6	1654.4	1808.9	1938.2	2030.6	1983.6	1936.6	1899.6
25°	1283.2	1269.8	1348.7	1451.2	1624.2	1788.8	1998.7	2094.4	2119.6	2084.4	2013.8
27.5°	1209.3	1209.3	1271.4	1368.9	1526.7	1778.7	2057.5	2203.6	2240.6	2188.5	2086.0
30°	1125.3	1135.4	1189.1	1300.0	1454.5	1704.8	2081.0	2329.6	2359.8	2314.5	2208.7
32.5°	1059.8	1059.8	1120.3	1237.9	1404.1	1671.2	2065.9	2453.9	2511.0	2477.4	2368.2
35°	989.3	984.2	1027.9	1157.2	1323.5	1605.7	2060.8	2553.0	2680.6	2682.3	2568.1
37.5°	888.5	908.7	964.1	1066.5	1259.7	1541.9	2045.7	2672.2	2900.6	2939.3	2860.3
40°	821.3	829.7	880.1	992.6	1160.6	1466.3	2023.9	2769.6	3046.8	3179.5	3070.3
42.5°	723.9	735.7	774.3	913.7	1064.9	1358.8	1928.2	2838.5	3255.0	3406.2	3313.8
45°	621.4	628.2	685.3	799.5	962.4	1231.1	1825.7	2949.4	3456.6	3765.6	3711.9
47.5°	498.8	502.2	550.9	670.2	839.8	1103.5	1667.8	2944.3	3619.5	4125.1	4276.2
50°	389.7	398.1	435.0	532.4	692.0	947.3	1484.8	2904.0	3824.4	4534.9	4832.2
52.5°	310.7	312.4	335.9	413.2	534.1	791.1	1288.2	2776.4	4017.6	4936.3	5514.1
55°	257.0	257.0	270.4	317.4	409.8	601.3	1058.1	2564.7	4041.1	5379.7	6258.1
56°	246.9	243.5	255.3	295.6	369.5	542.5	950.6	2422.0	4074.7	5584.6	6631.0
57°	233.5	235.1	241.9	270.4	332.6	480.4	831.4	2282.6	4051.2	5752.6	6906.5
58°	226.7	223.4	236.8	255.3	293.9	426.6	749.1	2118.0	4014.2	5890.3	7307.9
59°	216.7	215.0	223.4	240.2	273.8	379.6	648.3	1939.9	3942.0	6068.3	7606.8
60°	213.3	211.6	215.0	228.4	251.9	332.6	571.1	1731.7	3748.8	6251.4	7978.0
61°	203.2	204.9	211.6	220.0	238.5	299.0	514.0	1518.3	3622.9	6405.9	8387.8
62°	204.9	201.6	204.9	211.6	225.1	275.5	450.1	1308.4	3397.8	6580.6	8695.2
63°	194.8	193.2	198.2	206.6	213.3	248.6	393.0	1130.4	3142.5	6620.9	8955.5
64°	191.5	189.8	191.5	203.2	204.9	233.5	347.7	965.8	2773.0	6689.8	9289.8
65°	183.1	183.1	186.4	191.5	198.2	220.0	310.7	838.1	2405.2	6508.4	9392.2
66°	176.4	178.0	178.0	186.4	191.5	204.9	285.5	712.1	2052.5	6219.5	9491.3
67°	171.3	171.3	173.0	179.7	184.8	193.2	257.0	616.4	1731.7	5875.2	9338.5
67.5°	168.0	169.6	169.6	176.4	181.4	193.2	245.2	584.5	1548.6	5497.3	9224.3
68°	162.9	164.6	164.6	171.3	176.4	186.4	236.8	534.1	1427.6	5252.1	9012.6
69°	159.6	157.9	157.9	164.6	171.3	178.0	220.0	466.9	1135.4	4566.8	8703.6
70°	149.5	149.5	152.8	157.9	162.9	169.6	203.2	411.5	960.7	3780.7	7907.5
71°	144.4	142.8	144.4	149.5	154.5	162.9	186.4	364.5	786.0	3139.1	7124.8
72°	134.4	137.7	137.7	142.8	147.8	152.8	174.7	317.4	660.1	2509.3	6263.2
72.5°	132.7	132.7	134.4	139.4	142.8	151.2	168.0	304.0	603.0	2212.0	5902.1
73°	127.6	127.6	129.3	134.4	137.7	146.1	162.9	273.8	549.2	1968.5	5226.9
74°	122.6	120.9	120.9	127.6	129.3	137.7	152.8	241.9	460.2	1483.1	4195.6
75°	114.2	114.2	115.9	119.3	120.9	127.6	141.1	215.0	388.0	1150.5	3281.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	94.1	95.7	97.4	100.8	100.8	105.8	115.9	149.5	236.8	582.8	1506.6
80°	68.9	72.2	77.3	82.3	80.6	80.6	90.7	107.5	141.1	262.0	577.8
82.5°	55.4	58.8	53.7	60.5	60.5	57.1	65.5	78.9	95.7	129.3	206.6
85°	37.0	38.6	31.9	37.0	35.3	35.3	43.7	47.0	58.8	72.2	102.5
87.5°	16.8	16.8	13.4	15.1	15.1	15.1	21.8	16.8	25.2	35.3	60.5
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°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1434.4	1441.1	1441.1	1434.4	1429.3	1434.4	1431.0	1422.6	1431.0	1434.4	1436.0
5°	1454.5	1441.1	1447.8	1432.7	1442.8	1441.1	1437.7	1446.1	1447.8	1447.8	1459.6
7.5°	1476.4	1493.2	1471.3	1473.0	1478.0	1457.9	1464.6	1468.0	1461.2	1474.7	1484.8
10°	1515.0	1521.7	1515.0	1489.8	1506.6	1493.2	1488.1	1503.2	1499.9	1503.2	1518.3
12.5°	1550.3	1562.0	1543.5	1541.9	1533.5	1521.7	1528.4	1526.7	1550.3	1553.6	1572.1
15°	1622.5	1592.2	1585.5	1583.8	1580.5	1575.5	1578.8	1580.5	1610.7	1615.8	1659.4
17.5°	1684.6	1679.6	1642.6	1656.1	1656.1	1635.9	1627.5	1656.1	1679.6	1704.8	1735.0
20°	1748.4	1743.4	1703.1	1704.8	1689.7	1708.1	1698.1	1724.9	1765.2	1773.6	1800.5
22.5°	1824.0	1802.2	1773.6	1777.0	1782.0	1768.6	1761.9	1798.8	1839.1	1862.7	1864.3
25°	1943.3	1887.9	1864.3	1867.7	1861.0	1850.9	1855.9	1903.0	1923.1	1973.5	1963.4
27.5°	2007.1	1975.2	1958.4	1919.8	1921.4	1906.3	1926.5	1997.0	2037.3	2076.0	1998.7
30°	2084.4	2064.2	1990.3	1976.9	1975.2	1968.5	2005.4	2096.1	2156.6	2178.4	2067.6
32.5°	2235.5	2154.9	2136.4	2124.7	2097.8	2106.2	2124.7	2243.9	2339.7	2334.6	2131.4
35°	2408.5	2353.1	2301.0	2291.0	2287.6	2264.1	2296.0	2435.4	2509.3	2487.5	2154.9
37.5°	2685.7	2601.7	2531.1	2492.5	2485.8	2469.0	2544.6	2655.4	2751.2	2665.5	2173.4
40°	2821.7	2727.6	2662.1	2638.6	2643.7	2667.2	2741.1	2910.7	2952.7	2794.8	2188.5
42.5°	3016.5	2914.1	2784.8	2773.0	2757.9	2769.6	2912.4	3140.8	3176.1	2969.5	2131.4
45°	3362.5	3208.0	3058.5	2991.3	2994.7	3026.6	3248.3	3498.6	3433.1	3090.4	2040.7
47.5°	3799.2	3572.5	3451.5	3360.8	3404.5	3369.2	3722.0	3921.8	3698.4	3243.3	1929.8
50°	4455.9	4138.5	3973.9	3864.7	3883.2	3913.4	4271.2	4440.8	3992.4	3317.2	1760.2
52.5°	5284.0	4875.8	4634.0	4487.8	4501.3	4566.8	5028.7	4976.6	4328.3	3379.3	1533.5
55°	6274.9	5855.0	5386.4	5326.0	5310.8	5467.0	5976.0	5537.6	4630.6	3280.2	1298.3
56°	6799.0	6352.2	5865.1	5740.8	5703.9	5813.0	6411.0	5818.1	4734.7	3169.4	1185.8
57°	7244.0	6817.4	6283.3	6071.7	6118.7	6323.6	6842.6	6081.8	4830.5	3055.2	1080.0
58°	7855.4	7368.3	6804.0	6642.8	6600.8	6763.7	7307.9	6347.1	4862.4	2937.6	982.6
59°	8465.1	7880.6	7371.7	7077.8	7089.5	7386.8	7766.4	6662.9	4911.1	2788.1	858.3
60°	8928.7	8634.7	7954.5	7734.5	7704.3	8134.2	8223.2	6874.5	4963.2	2586.6	770.9
61°	9585.4	9202.4	8569.2	8285.4	8367.7	8712.0	8717.0	7139.9	4885.9	2331.3	663.4
62°	10057.4	9956.6	9291.5	9021.0	8995.9	9452.7	9231.0	7373.4	4818.7	2089.4	586.2
63°	10609.9	10609.9	10003.6	9792.0	9803.7	10164.8	9454.4	7606.8	4741.5	1822.3	515.6
64°	10897.1	11258.3	10699.0	10401.7	10478.9	10791.3	9852.4	7759.7	4503.0	1551.9	453.5
65°	11145.7	11688.2	11377.5	11239.8	11122.2	11307.0	10196.8	7902.4	4138.5	1320.2	403.1
66°	11355.7	12093.0	11990.6	11842.7	11831.0	11789.0	10263.9	7897.4	3762.3	1115.2	352.7
67°	11249.9	12101.4	12287.8	12350.0	12331.5	11888.1	10146.4	7717.7	3280.2	942.2	314.1
67.5°	11154.1	12032.5	12465.9	12430.6	12507.9	11972.1	10166.5	7497.7	2937.6	853.2	295.6
68°	11070.1	11940.2	12538.1	12583.4	12544.8	11982.2	10055.7	7323.0	2704.1	801.2	278.8
69°	10433.6	11501.8	12422.2	12585.1	12486.0	11597.5	9703.0	6867.8	2148.2	683.6	257.0
70°	9795.3	10934.1	11859.5	12158.5	12035.9	10853.5	9257.9	6143.9	1772.0	584.5	231.8
71°	8911.9	9879.3	11110.5	11290.2	11142.4	10007.0	8337.5	5379.7	1378.9	495.5	206.6
72°	7712.7	8534.0	9709.7	10144.7	9926.3	8789.3	7407.0	4445.9	1116.9	416.5	188.1
72.5°	7118.1	7959.6	9093.3	9128.5	9170.5	8260.2	7012.3	3905.0	974.2	386.3	183.1
73°	6553.7	7378.4	8359.3	8483.6	8305.5	7368.3	6422.7	3491.9	890.2	352.7	176.4
74°	5310.8	5781.1	6594.0	6715.0	6558.8	6007.9	5248.7	2677.3	708.8	304.0	161.2
75°	4178.8	4437.5	5173.1	5099.2	4865.8	4672.6	4069.6	2045.7	574.4	267.1	149.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1877.8	2034.0	2156.6	2156.6	2170.0	2070.9	1876.1	938.9	354.4	193.2	122.6
80°	715.5	801.2	828.0	829.7	841.5	871.7	811.2	461.9	209.9	137.7	99.1
82.5°	519.0	725.6	781.0	740.7	744.1	671.8	310.7	204.9	132.7	95.7	72.2
85°	470.3	631.5	668.5	663.4	665.1	621.4	183.1	100.8	77.3	60.5	50.4
87.5°	228.4	223.4	236.8	267.1	260.3	337.6	154.5	50.4	33.6	25.2	25.2
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):

	135°	145°	155°	165°	175°	180°
0°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1422.6	1420.9	1444.4	1420.9	1434.4	1424.3
5°	1439.4	1446.1	1451.2	1461.2	1437.7	1461.2
7.5°	1489.8	1496.5	1498.2	1506.6	1496.5	1494.8
10°	1528.4	1545.2	1555.3	1521.7	1541.9	1540.2
12.5°	1604.0	1587.2	1585.5	1578.8	1560.3	1553.6
15°	1657.7	1632.6	1617.4	1590.6	1568.7	1560.3
17.5°	1733.3	1684.6	1622.5	1567.1	1528.4	1498.2
20°	1780.4	1693.0	1568.7	1503.2	1444.4	1457.9
22.5°	1810.6	1684.6	1520.0	1436.0	1377.3	1394.1
25°	1820.7	1642.6	1486.4	1382.3	1325.2	1313.4
27.5°	1792.1	1593.9	1420.9	1303.4	1253.0	1263.0
30°	1778.7	1523.4	1360.5	1244.6	1177.4	1187.5
32.5°	1743.4	1451.2	1279.8	1162.3	1113.6	1096.8
35°	1693.0	1390.7	1202.6	1091.7	1032.9	1019.5
37.5°	1630.9	1315.1	1135.4	1001.0	949.0	938.9
40°	1538.5	1224.4	1038.0	922.1	861.6	859.9
42.5°	1457.9	1137.1	947.3	828.0	767.6	770.9
45°	1355.4	1019.5	843.2	740.7	680.2	683.6
47.5°	1224.4	910.3	744.1	629.8	579.5	576.1
50°	1069.9	786.0	623.1	525.7	483.7	475.3
52.5°	922.1	660.1	510.6	423.3	388.0	384.6
55°	735.7	514.0	398.1	332.6	305.7	307.4
56°	668.5	473.6	362.8	304.0	283.8	283.8
57°	604.7	419.9	329.2	280.5	262.0	262.0
58°	534.1	369.5	299.0	253.6	245.2	238.5
59°	485.4	335.9	270.4	240.2	226.7	225.1
60°	428.3	302.3	251.9	225.1	215.0	213.3
61°	379.6	272.1	231.8	209.9	206.6	206.6
62°	339.3	251.9	215.0	203.2	201.6	196.5
63°	304.0	231.8	206.6	193.2	188.1	193.2
64°	272.1	213.3	199.9	189.8	183.1	186.4
65°	246.9	204.9	191.5	184.8	178.0	179.7
66°	230.1	191.5	184.8	176.4	173.0	174.7
67°	208.3	184.8	178.0	169.6	168.0	169.6
67.5°	201.6	179.7	174.7	166.3	164.6	166.3
68°	196.5	176.4	173.0	164.6	162.9	161.2
69°	183.1	169.6	164.6	161.2	157.9	156.2
70°	171.3	162.9	159.6	154.5	151.2	149.5
71°	164.6	154.5	152.8	147.8	144.4	142.8
72°	156.2	149.5	146.1	139.4	137.7	139.4
72.5°	154.5	146.1	144.4	137.7	136.0	136.0
73°	149.5	139.4	141.1	134.4	131.0	134.4
74°	139.4	136.0	132.7	127.6	126.0	126.0
75°	131.0	127.6	124.3	120.9	120.9	120.9



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	135°	145°	155°	165°	175°	180°
77.5°	110.9	109.2	110.9	104.1	102.5	100.8
80°	89.0	89.0	90.7	85.7	82.3	80.6
82.5°	67.2	68.9	72.2	67.2	63.8	60.5
85°	43.7	45.3	45.3	40.3	47.0	43.7
87.5°	21.8	23.5	21.8	20.2	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)