

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: P676172

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676172
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

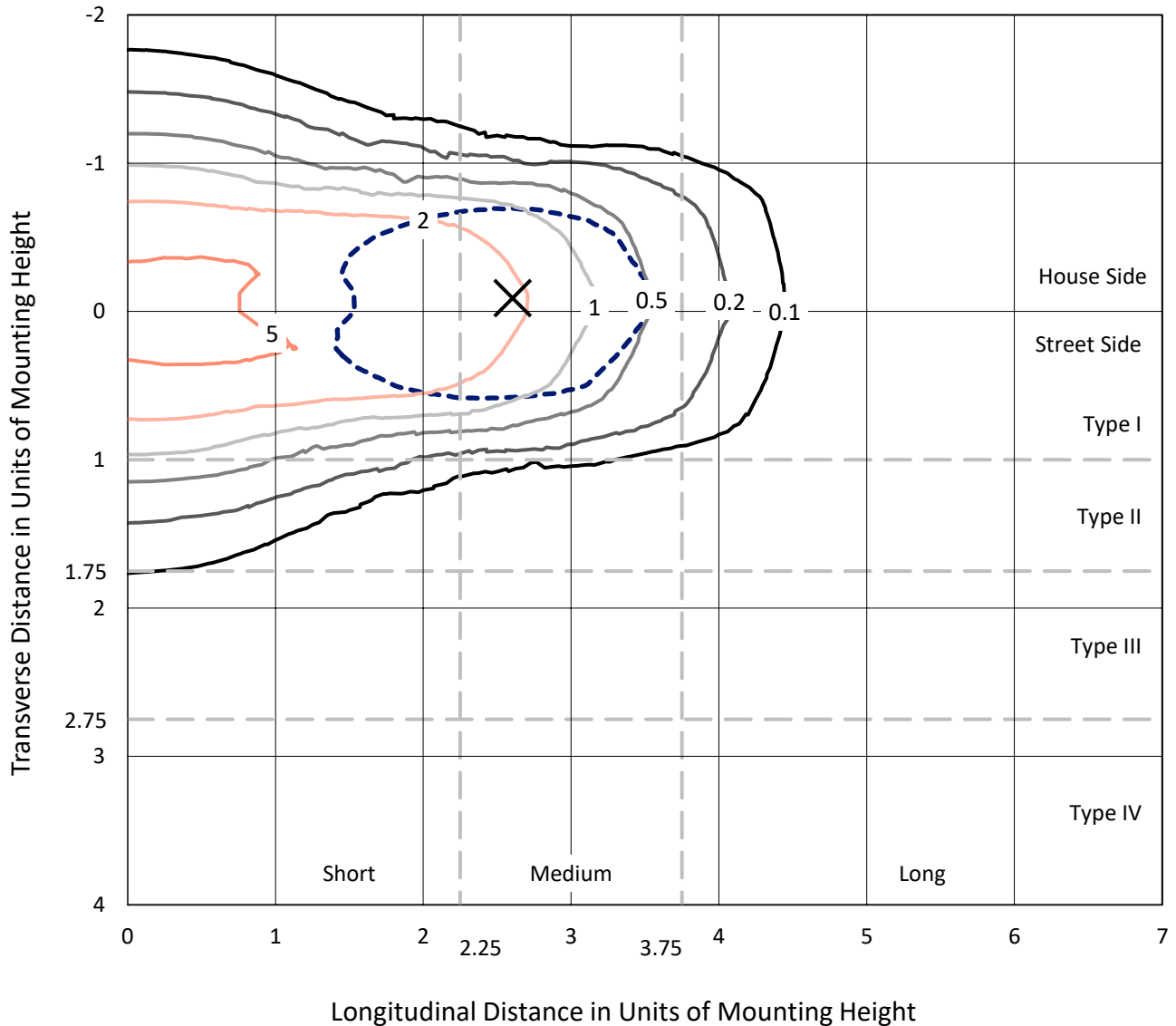
Lumens per Lamp: N/A
Luminaire Lumens: 7983.4 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

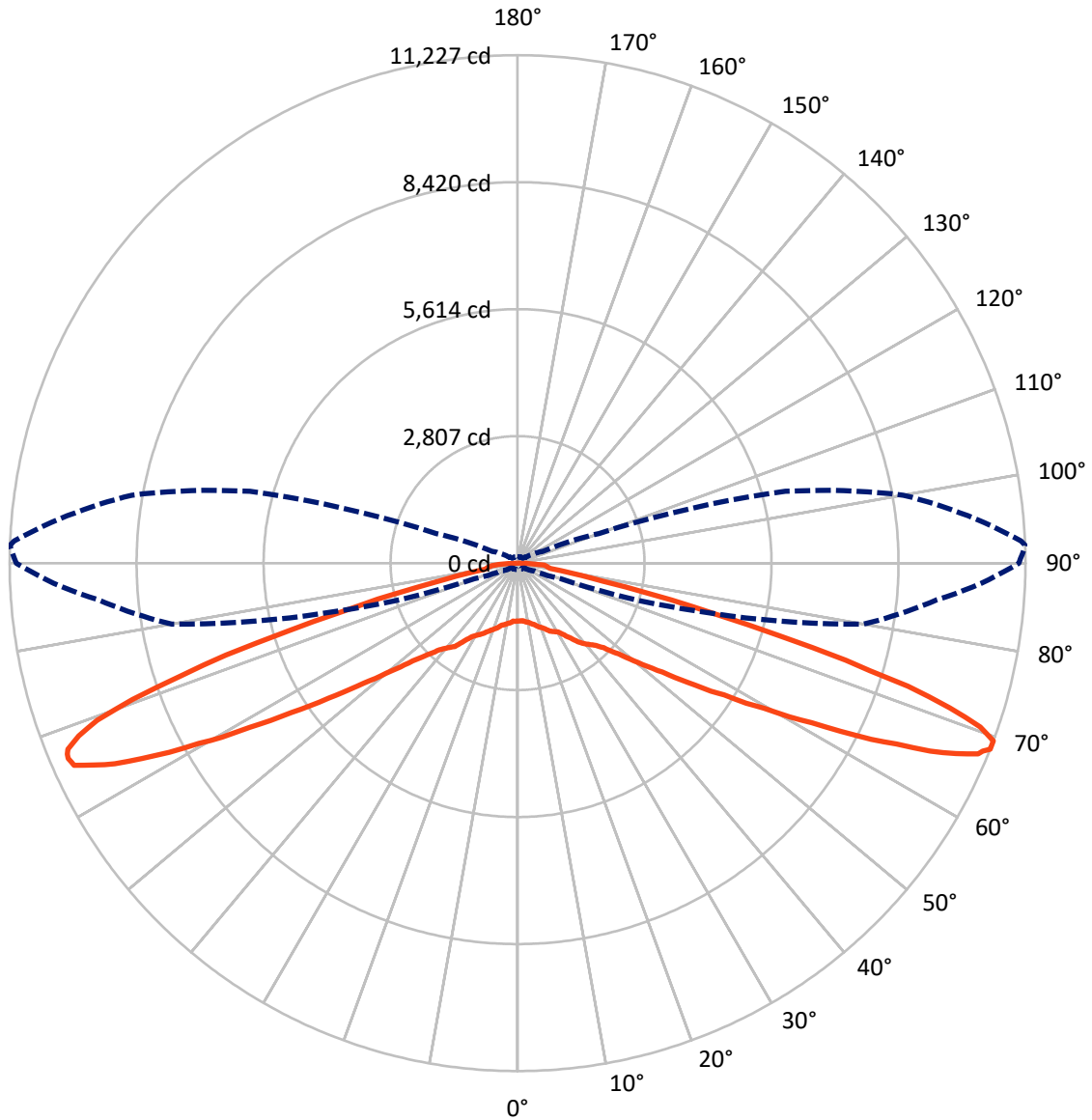
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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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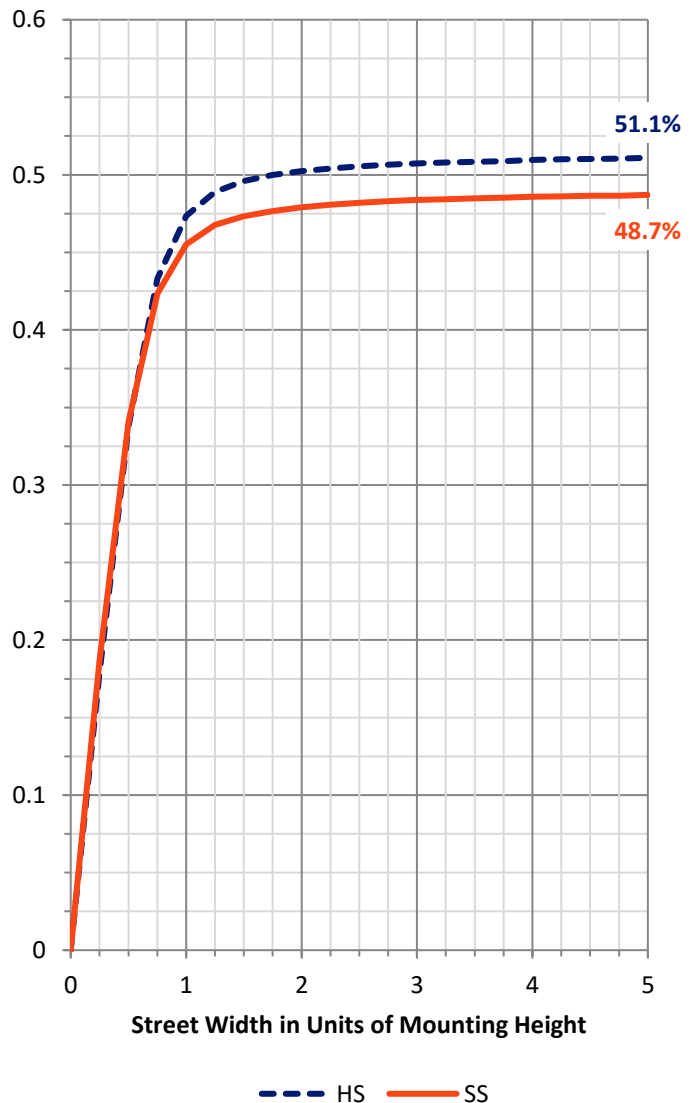
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4111.3	0.0	4111.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3872.1	0.0	3872.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	7983.4	0.0	7983.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.6
10°-20°	414.1	5.2
20°-30°	706.8	8.9
30°-40°	986.8	12.4
40°-50°	1255.3	15.7
50°-60°	1587.2	19.9
60°-70°	1957.5	24.5
70°-80°	855.1	10.7
80°-90°	92.7	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°	7983.4	100.0
0°-180°	7983.4	100.0



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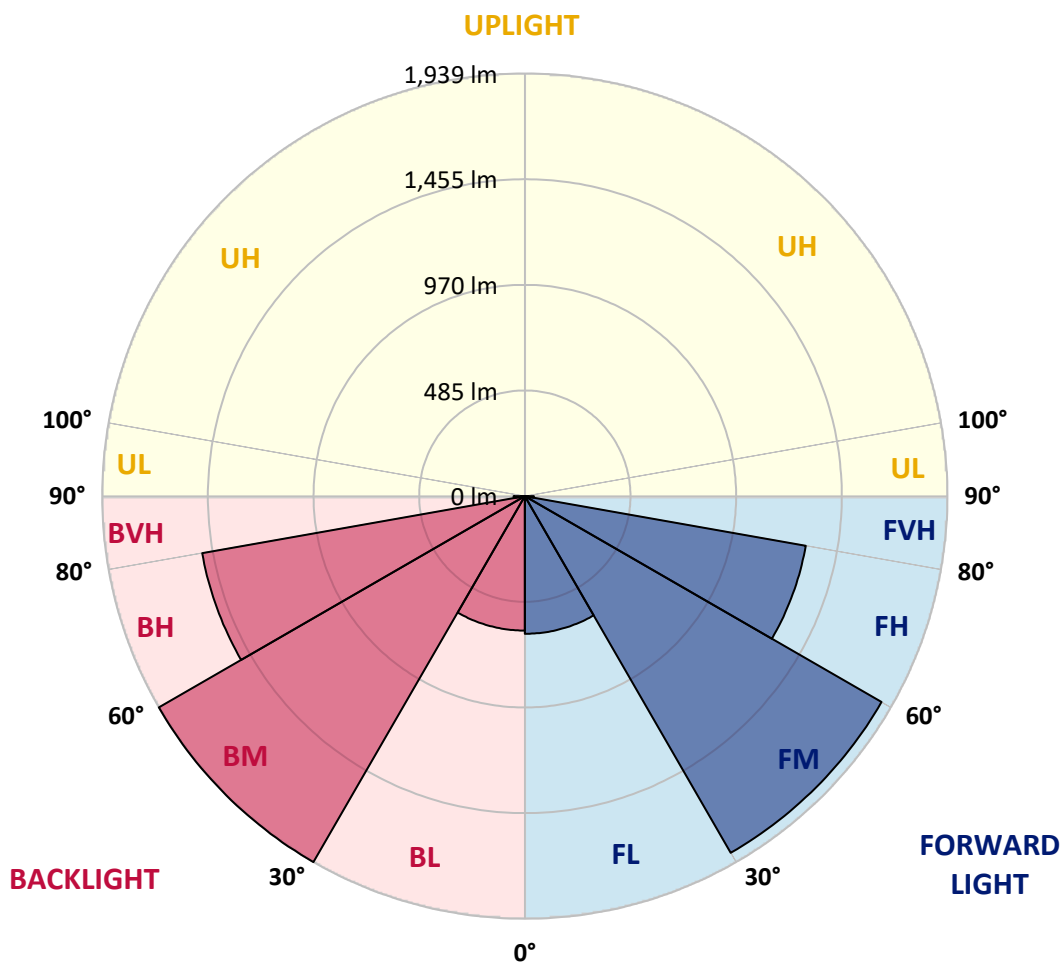
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.8	7.9			
FM (30°-60°)	1890.0	23.7			
FH (60°-80°)	1309.1	16.4			G1/1800
FVH (80°-90°)	41.1	0.5			G1/100
BL (0°-30°)	617.0	7.7	B2/1000		
BM (30°-60°)	1939.3	24.3	B2/2500		
BH (60°-80°)	1503.4	18.8	B3/2500		G3/2500
BVH (80°-90°)	51.6	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°	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6
2.5°	1303.6	1302.1	1306.6	1309.6	1296.1	1300.6	1297.6	1294.6	1284.1	1279.6	1270.6
5°	1339.5	1344.0	1359.0	1345.5	1351.5	1344.0	1320.1	1327.6	1314.1	1311.1	1302.1
7.5°	1402.5	1393.5	1414.5	1399.5	1404.0	1389.0	1378.5	1365.0	1362.0	1341.0	1342.5
10°	1416.0	1433.9	1442.9	1439.9	1442.9	1450.4	1430.9	1410.0	1381.5	1375.5	1354.5
12.5°	1407.0	1423.5	1447.4	1466.9	1480.4	1483.4	1475.9	1471.4	1459.4	1425.0	1423.5
15°	1398.0	1386.0	1401.0	1468.4	1513.4	1543.3	1553.8	1528.3	1531.3	1486.4	1468.4
17.5°	1338.1	1320.1	1378.5	1444.4	1499.9	1565.8	1616.7	1609.3	1609.3	1573.3	1547.8
20°	1258.6	1288.6	1318.6	1402.5	1504.4	1603.3	1700.7	1696.2	1678.2	1667.7	1612.3
22.5°	1191.2	1204.7	1260.1	1348.5	1475.9	1613.8	1729.1	1811.5	1769.6	1727.6	1694.7
25°	1144.8	1132.8	1203.2	1294.6	1448.9	1595.8	1783.1	1868.5	1891.0	1859.5	1796.6
27.5°	1078.8	1078.8	1134.3	1221.2	1362.0	1586.8	1835.5	1965.9	1998.8	1952.4	1861.0
30°	1003.9	1012.9	1060.9	1159.7	1297.6	1520.9	1856.5	2078.2	2105.2	2064.8	1970.4
32.5°	945.5	945.5	999.4	1104.3	1252.6	1490.9	1843.0	2189.1	2240.1	2210.1	2112.7
35°	882.5	878.0	917.0	1032.4	1180.7	1432.4	1838.5	2277.5	2391.4	2392.9	2291.0
37.5°	792.6	810.6	860.1	951.5	1123.8	1375.5	1825.0	2383.9	2587.7	2622.2	2551.7
40°	732.7	740.2	785.1	885.5	1035.4	1308.1	1805.5	2470.8	2718.1	2836.4	2739.0
42.5°	645.8	656.3	690.8	815.1	950.0	1212.2	1720.1	2532.3	2903.9	3038.7	2956.3
45°	554.4	560.4	611.3	713.2	858.6	1098.3	1628.7	2631.1	3083.7	3359.4	3311.4
47.5°	445.0	448.0	491.5	597.9	749.2	984.4	1487.9	2626.7	3229.0	3680.0	3814.9
50°	347.6	355.1	388.1	475.0	617.3	845.1	1324.6	2590.7	3411.8	4045.6	4310.8
52.5°	277.2	278.7	299.7	368.6	476.5	705.7	1149.3	2476.8	3584.1	4403.7	4919.2
55°	229.3	229.3	241.2	283.2	365.6	536.4	944.0	2288.0	3605.1	4799.3	5583.0
56°	220.3	217.3	227.8	263.7	329.6	484.0	848.1	2160.7	3635.1	4982.1	5915.6
57°	208.3	209.8	215.8	241.2	296.7	428.5	741.7	2036.3	3614.1	5131.9	6161.3
58°	202.3	199.3	211.3	227.8	262.2	380.6	668.3	1889.5	3581.1	5254.8	6519.4
59°	193.3	191.8	199.3	214.3	244.2	338.6	578.4	1730.6	3516.7	5413.6	6786.1
60°	190.3	188.8	191.8	203.8	224.8	296.7	509.4	1544.8	3344.4	5577.0	7117.3
61°	181.3	182.8	188.8	196.3	212.8	266.7	458.5	1354.5	3232.0	5714.8	7482.9
62°	182.8	179.8	182.8	188.8	200.8	245.7	401.6	1167.2	3031.2	5870.6	7757.1
63°	173.8	172.3	176.8	184.3	190.3	221.8	350.6	1008.4	2803.5	5906.6	7989.3
64°	170.8	169.3	170.8	181.3	182.8	208.3	310.2	861.6	2473.8	5968.0	8287.5
65°	163.3	163.3	166.3	170.8	176.8	196.3	277.2	747.7	2145.7	5806.2	8378.9
66°	157.3	158.8	158.8	166.3	170.8	182.8	254.7	635.3	1831.0	5548.5	8467.3
67°	152.8	152.8	154.3	160.3	164.8	172.3	229.3	549.9	1544.8	5241.3	8331.0
67.5°	149.8	151.3	151.3	157.3	161.8	172.3	218.8	521.4	1381.5	4904.2	8229.1
68°	145.3	146.8	146.8	152.8	157.3	166.3	211.3	476.5	1273.6	4685.4	8040.3
69°	142.3	140.8	140.8	146.8	152.8	158.8	196.3	416.5	1012.9	4074.1	7764.6
70°	133.4	133.4	136.4	140.8	145.3	151.3	181.3	367.1	857.1	3372.8	7054.4
71°	128.9	127.4	128.9	133.4	137.9	145.3	166.3	325.1	701.2	2800.5	6356.1
72°	119.9	122.9	122.9	127.4	131.9	136.4	155.8	283.2	588.9	2238.6	5587.4
72.5°	118.4	118.4	119.9	124.4	127.4	134.9	149.8	271.2	537.9	1973.4	5265.3
73°	113.9	113.9	115.4	119.9	122.9	130.4	145.3	244.2	490.0	1756.1	4662.9
74°	109.4	107.9	107.9	113.9	115.4	122.9	136.4	215.8	410.6	1323.1	3742.9
75°	101.9	101.9	103.4	106.4	107.9	113.9	125.9	191.8	346.1	1026.4	2927.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	83.9	85.4	86.9	89.9	89.9	94.4	103.4	133.4	211.3	519.9	1344.0
80°	61.4	64.4	68.9	73.4	71.9	71.9	80.9	95.9	125.9	233.7	515.4
82.5°	49.4	52.4	47.9	53.9	53.9	50.9	58.4	70.4	85.4	115.4	184.3
85°	33.0	34.5	28.5	33.0	31.5	31.5	39.0	42.0	52.4	64.4	91.4
87.5°	15.0	15.0	12.0	13.5	13.5	13.5	19.5	15.0	22.5	31.5	53.9
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°	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6
2.5°	1279.6	1285.6	1285.6	1279.6	1275.1	1279.6	1276.6	1269.1	1276.6	1279.6	1281.1
5°	1297.6	1285.6	1291.6	1278.1	1287.1	1285.6	1282.6	1290.1	1291.6	1291.6	1302.1
7.5°	1317.1	1332.1	1312.6	1314.1	1318.6	1300.6	1306.6	1309.6	1303.6	1315.6	1324.6
10°	1351.5	1357.5	1351.5	1329.1	1344.0	1332.1	1327.6	1341.0	1338.1	1341.0	1354.5
12.5°	1383.0	1393.5	1377.0	1375.5	1368.0	1357.5	1363.5	1362.0	1383.0	1386.0	1402.5
15°	1447.4	1420.5	1414.5	1413.0	1410.0	1405.5	1408.5	1410.0	1436.9	1441.4	1480.4
17.5°	1502.9	1498.4	1465.4	1477.4	1477.4	1459.4	1451.9	1477.4	1498.4	1520.9	1547.8
20°	1559.8	1555.3	1519.4	1520.9	1507.4	1523.8	1514.9	1538.8	1574.8	1582.3	1606.3
22.5°	1627.2	1607.8	1582.3	1585.3	1589.8	1577.8	1571.8	1604.8	1640.7	1661.7	1663.2
25°	1733.6	1684.2	1663.2	1666.2	1660.2	1651.2	1655.7	1697.7	1715.6	1760.6	1751.6
27.5°	1790.6	1762.1	1747.1	1712.6	1714.1	1700.7	1718.6	1781.6	1817.5	1852.0	1783.1
30°	1859.5	1841.5	1775.6	1763.6	1762.1	1756.1	1789.1	1870.0	1923.9	1943.4	1844.5
32.5°	1994.3	1922.4	1905.9	1895.4	1871.5	1879.0	1895.4	2001.8	2087.2	2082.7	1901.4
35°	2148.7	2099.2	2052.8	2043.8	2040.8	2019.8	2048.3	2172.6	2238.6	2219.1	1922.4
37.5°	2395.9	2321.0	2258.1	2223.6	2217.6	2202.6	2270.0	2368.9	2454.3	2377.9	1938.9
40°	2517.3	2433.4	2374.9	2353.9	2358.4	2379.4	2445.4	2596.7	2634.1	2493.3	1952.4
42.5°	2691.1	2599.7	2484.3	2473.8	2460.3	2470.8	2598.2	2802.0	2833.4	2649.1	1901.4
45°	2999.8	2861.9	2728.5	2668.6	2671.6	2700.1	2897.9	3121.1	3062.7	2757.0	1820.5
47.5°	3389.3	3187.0	3079.2	2998.3	3037.2	3005.7	3320.4	3498.7	3299.4	2893.4	1721.6
50°	3975.2	3692.0	3545.2	3447.8	3464.2	3491.2	3810.4	3961.7	3561.6	2959.3	1570.3
52.5°	4713.9	4349.8	4134.0	4003.7	4015.6	4074.1	4486.1	4439.7	3861.3	3014.7	1368.0
55°	5597.9	5223.3	4805.3	4751.4	4737.9	4877.2	5331.2	4940.1	4131.0	2926.3	1158.2
56°	6065.4	5666.9	5232.3	5121.5	5088.5	5185.9	5719.3	5190.4	4223.9	2827.4	1057.9
57°	6462.5	6081.9	5605.4	5416.6	5458.6	5641.4	6104.4	5425.6	4309.3	2725.5	963.5
58°	7007.9	6573.4	6069.9	5926.1	5888.6	6034.0	6519.4	5662.4	4337.8	2620.7	876.6
59°	7551.8	7030.4	6576.4	6314.2	6324.6	6589.9	6928.5	5944.1	4381.3	2487.3	765.7
60°	7965.4	7703.2	7096.3	6900.0	6873.1	7256.6	7336.1	6132.9	4427.7	2307.5	687.8
61°	8551.2	8209.6	7644.7	7391.5	7464.9	7772.1	7776.6	6369.6	4358.8	2079.7	591.9
62°	8972.3	8882.4	8289.0	8047.8	8025.3	8432.9	8235.1	6577.9	4298.8	1864.0	522.9
63°	9465.2	9465.2	8924.3	8735.5	8746.0	9068.2	8434.4	6786.1	4229.9	1625.7	460.0
64°	9721.5	10043.6	9544.7	9279.4	9348.4	9627.1	8789.5	6922.5	4017.1	1384.5	404.6
65°	9943.2	10427.2	10150.0	10027.1	9922.3	10087.1	9096.6	7049.9	3692.0	1177.7	359.6
66°	10130.5	10788.3	10696.9	10565.1	10554.6	10517.1	9156.6	7045.4	3356.4	994.9	314.7
67°	10036.1	10795.8	10962.1	11017.6	11001.1	10605.5	9051.7	6885.0	2926.3	840.6	280.2
67.5°	9950.7	10734.4	11121.0	11089.5	11158.4	10680.4	9069.7	6688.8	2620.7	761.2	263.7
68°	9875.8	10652.0	11185.4	11225.8	11191.4	10689.4	8970.8	6532.9	2412.4	714.7	248.7
69°	9307.9	10260.9	11082.0	11227.3	11138.9	10346.3	8656.1	6126.9	1916.4	609.8	229.3
70°	8738.5	9754.4	10580.0	10846.7	10737.4	9682.5	8259.1	5481.1	1580.8	521.4	206.8
71°	7950.4	8813.5	9911.8	10072.1	9940.2	8927.3	7437.9	4799.3	1230.2	442.0	184.3
72°	6880.5	7613.3	8662.1	9050.2	8855.4	7841.0	6607.8	3966.2	996.4	371.6	167.8
72.5°	6350.1	7100.8	8112.2	8143.7	8181.1	7369.0	6255.7	3483.7	869.1	344.6	163.3
73°	5846.7	6582.4	7457.4	7568.3	7409.5	6573.4	5729.8	3115.1	794.1	314.7	157.3
74°	4737.9	5157.4	5882.6	5990.5	5851.2	5359.7	4682.4	2388.4	632.3	271.2	143.8
75°	3728.0	3958.7	4615.0	4549.1	4340.8	4168.5	3630.6	1825.0	512.4	238.2	133.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1675.2	1814.5	1923.9	1923.9	1935.9	1847.5	1673.7	837.6	316.2	172.3	109.4
80°	638.3	714.7	738.7	740.2	750.7	777.7	723.7	412.1	187.3	122.9	88.4
82.5°	463.0	647.3	696.7	660.8	663.8	599.4	277.2	182.8	118.4	85.4	64.4
85°	419.5	563.4	596.4	591.9	593.4	554.4	163.3	89.9	68.9	53.9	45.0
87.5°	203.8	199.3	211.3	238.2	232.2	301.2	137.9	45.0	30.0	22.5	22.5
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):

	135°	145°	155°	165°	175°	180°
0°	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6
2.5°	1269.1	1267.6	1288.6	1267.6	1279.6	1270.6
5°	1284.1	1290.1	1294.6	1303.6	1282.6	1303.6
7.5°	1329.1	1335.1	1336.6	1344.0	1335.1	1333.6
10°	1363.5	1378.5	1387.5	1357.5	1375.5	1374.0
12.5°	1430.9	1416.0	1414.5	1408.5	1392.0	1386.0
15°	1478.9	1456.4	1442.9	1419.0	1399.5	1392.0
17.5°	1546.3	1502.9	1447.4	1398.0	1363.5	1336.6
20°	1588.3	1510.4	1399.5	1341.0	1288.6	1300.6
22.5°	1615.3	1502.9	1356.0	1281.1	1228.7	1243.7
25°	1624.2	1465.4	1326.1	1233.2	1182.2	1171.7
27.5°	1598.8	1422.0	1267.6	1162.7	1117.8	1126.8
30°	1586.8	1359.0	1213.7	1110.3	1050.4	1059.4
32.5°	1555.3	1294.6	1141.8	1036.9	993.4	978.4
35°	1510.4	1240.7	1072.8	973.9	921.5	909.5
37.5°	1454.9	1173.2	1012.9	893.0	846.6	837.6
40°	1372.5	1092.3	926.0	822.6	768.7	767.2
42.5°	1300.6	1014.4	845.1	738.7	684.8	687.8
45°	1209.2	909.5	752.2	660.8	606.8	609.8
47.5°	1092.3	812.1	663.8	561.9	516.9	513.9
50°	954.5	701.2	555.9	469.0	431.5	424.0
52.5°	822.6	588.9	455.5	377.6	346.1	343.1
55°	656.3	458.5	355.1	296.7	272.7	274.2
56°	596.4	422.5	323.6	271.2	253.2	253.2
57°	539.4	374.6	293.7	250.2	233.7	233.7
58°	476.5	329.6	266.7	226.3	218.8	212.8
59°	433.0	299.7	241.2	214.3	202.3	200.8
60°	382.1	269.7	224.8	200.8	191.8	190.3
61°	338.6	242.7	206.8	187.3	184.3	184.3
62°	302.7	224.8	191.8	181.3	179.8	175.3
63°	271.2	206.8	184.3	172.3	167.8	172.3
64°	242.7	190.3	178.3	169.3	163.3	166.3
65°	220.3	182.8	170.8	164.8	158.8	160.3
66°	205.3	170.8	164.8	157.3	154.3	155.8
67°	185.8	164.8	158.8	151.3	149.8	151.3
67.5°	179.8	160.3	155.8	148.3	146.8	148.3
68°	175.3	157.3	154.3	146.8	145.3	143.8
69°	163.3	151.3	146.8	143.8	140.8	139.3
70°	152.8	145.3	142.3	137.9	134.9	133.4
71°	146.8	137.9	136.4	131.9	128.9	127.4
72°	139.3	133.4	130.4	124.4	122.9	124.4
72.5°	137.9	130.4	128.9	122.9	121.4	121.4
73°	133.4	124.4	125.9	119.9	116.9	119.9
74°	124.4	121.4	118.4	113.9	112.4	112.4
75°	116.9	113.9	110.9	107.9	107.9	107.9



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	98.9	97.4	98.9	92.9	91.4	89.9
80°	79.4	79.4	80.9	76.4	73.4	71.9
82.5°	59.9	61.4	64.4	59.9	56.9	53.9
85°	39.0	40.5	40.5	36.0	42.0	39.0
87.5°	19.5	21.0	19.5	18.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)