

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: P676116

Luminaire Tested: **CCW-SA-2C-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676116
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

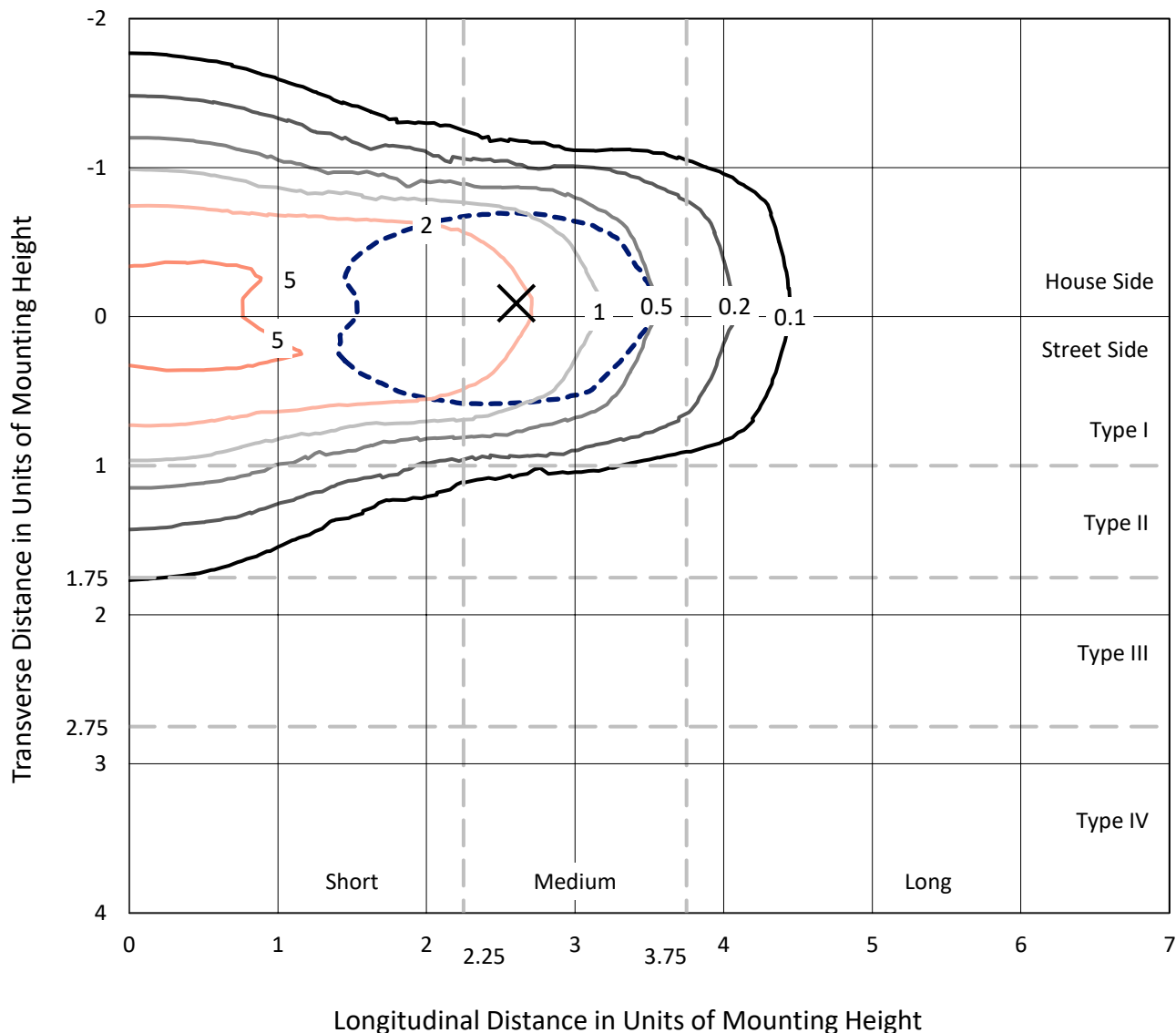
Lumens per Lamp: N/A
Luminaire Lumens: 8017.3 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 62.1
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

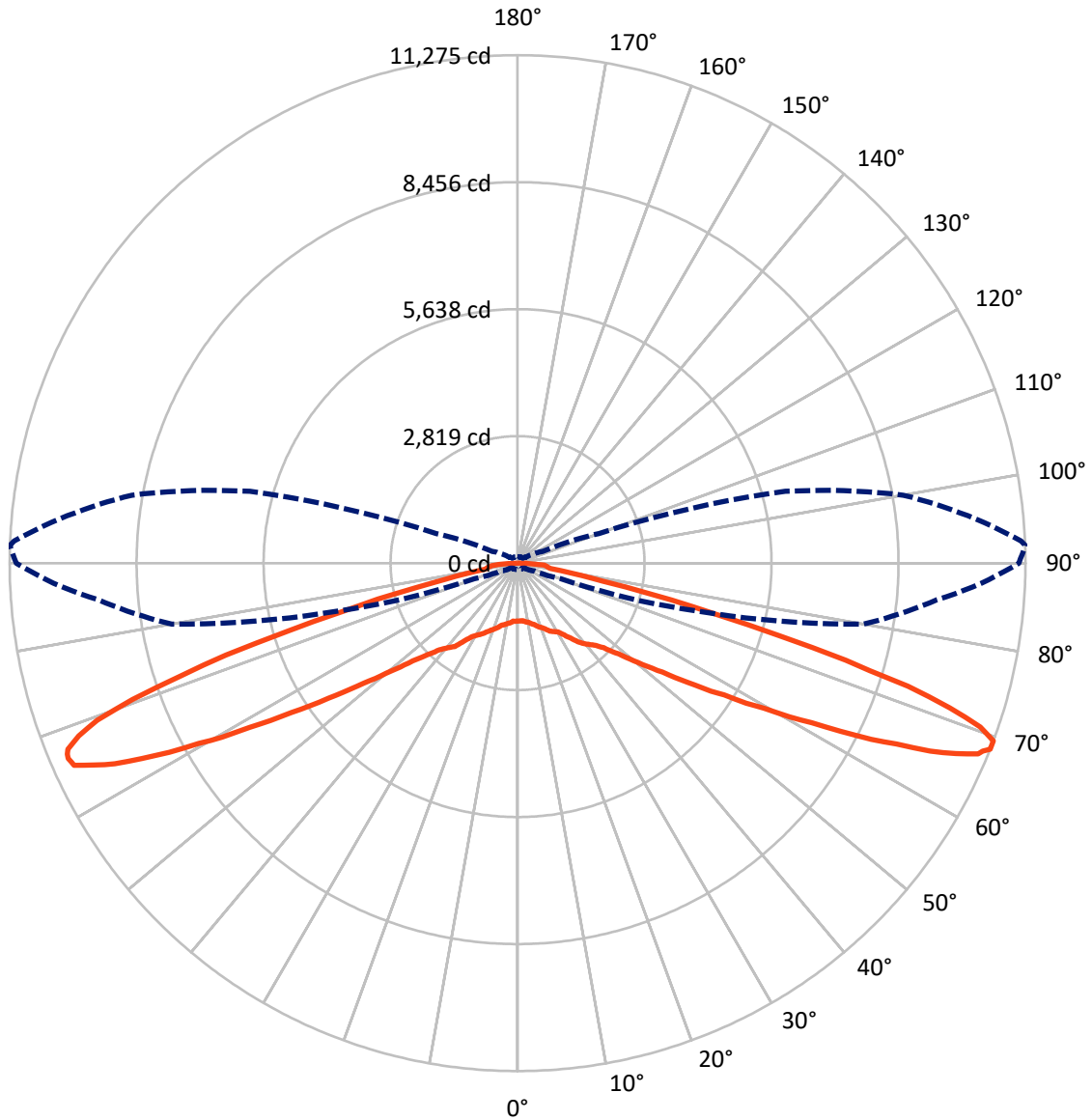
× Max cd
 - - - 1/2 Max cd



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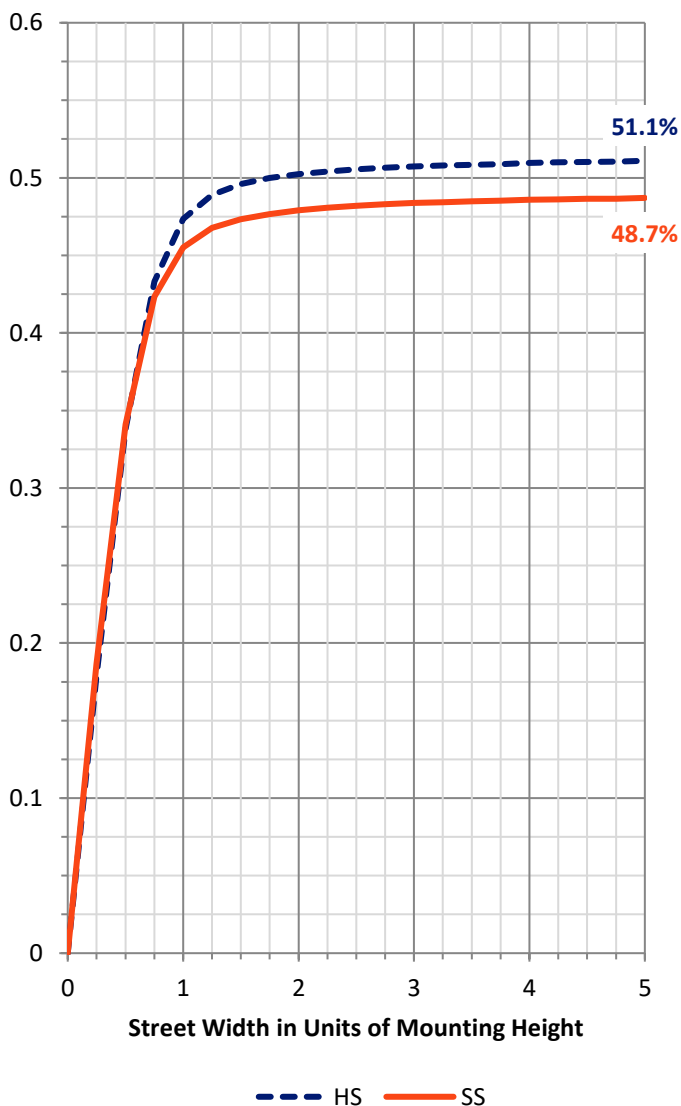
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4128.8	0.0	4128.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3888.5	0.0	3888.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	8017.3	0.0	8017.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.6
10°-20°	415.9	5.2
20°-30°	709.8	8.9
30°-40°	991.0	12.4
40°-50°	1260.6	15.7
50°-60°	1593.9	19.9
60°-70°	1965.8	24.5
70°-80°	858.7	10.7
80°-90°	93.1	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°	8017.3	100.0
0°-180°	8017.3	100.0



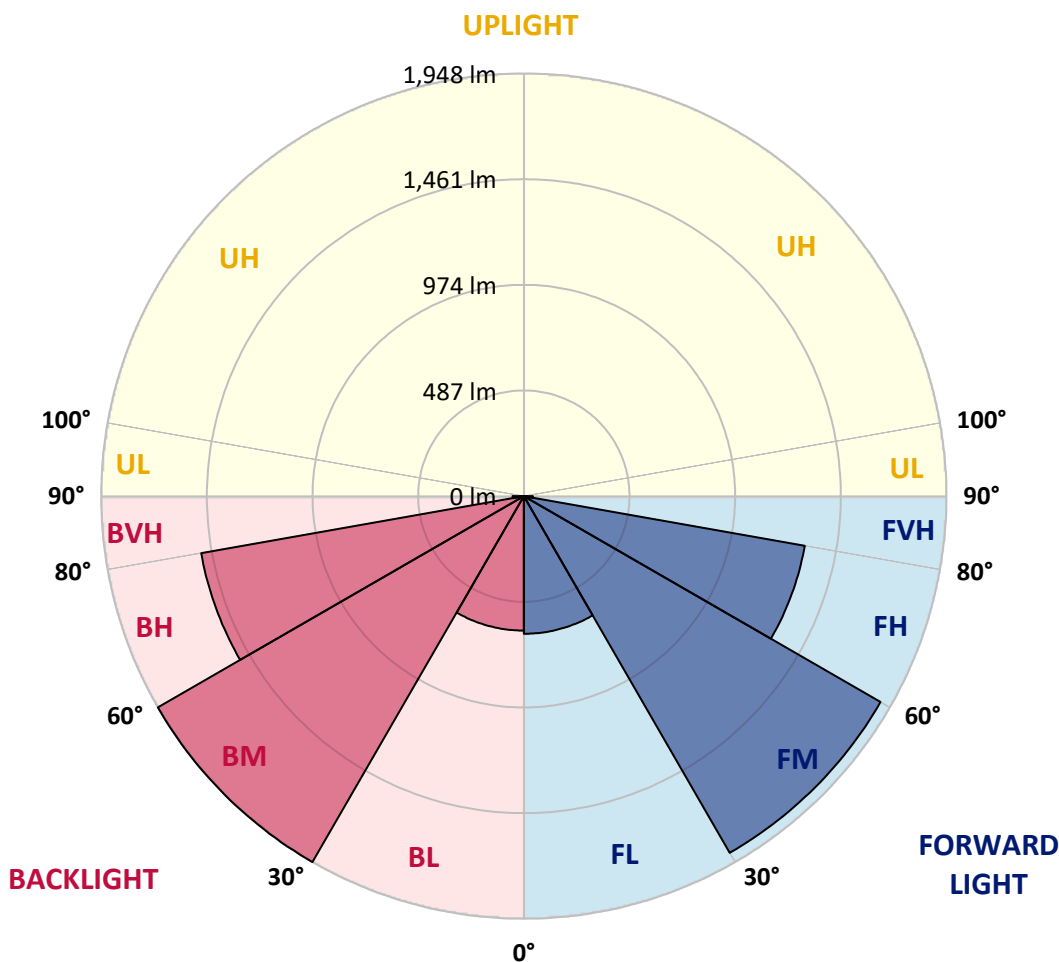
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.5	7.9			
FM	(30°-60°)	1898.0	23.7			
FH	(60°-80°)	1314.7	16.4			G1/1800
FVH	(80°-90°)	41.3	0.5			G1/100
BL	(0°-30°)	619.6	7.7	B2/1000		
BM	(30°-60°)	1947.6	24.3	B2/2500		
BH	(60°-80°)	1509.8	18.8	B3/2500		G3/2500
BVH	(80°-90°)	51.8	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°	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0
2.5°	1309.1	1307.6	1312.1	1315.1	1301.6	1306.1	1303.1	1300.1	1289.6	1285.0	1276.0
5°	1345.2	1349.7	1364.8	1351.3	1357.3	1349.7	1325.7	1333.2	1319.7	1316.6	1307.6
7.5°	1408.4	1399.4	1420.5	1405.4	1409.9	1394.9	1384.4	1370.8	1367.8	1346.7	1348.2
10°	1422.0	1440.0	1449.1	1446.1	1449.1	1456.6	1437.0	1416.0	1387.4	1381.3	1360.3
12.5°	1412.9	1429.5	1453.6	1473.1	1486.7	1489.7	1482.2	1477.7	1465.6	1431.0	1429.5
15°	1403.9	1391.9	1406.9	1474.6	1519.8	1549.9	1560.4	1534.8	1537.8	1492.7	1474.6
17.5°	1343.7	1325.7	1384.4	1450.6	1506.2	1572.5	1623.6	1616.1	1616.1	1580.0	1554.4
20°	1264.0	1294.1	1324.2	1408.4	1510.8	1610.1	1707.9	1703.4	1685.3	1674.8	1619.1
22.5°	1196.3	1209.8	1265.5	1354.3	1482.2	1620.6	1736.5	1819.2	1777.1	1735.0	1701.9
25°	1149.6	1137.6	1208.3	1300.1	1455.1	1602.5	1790.6	1876.4	1899.0	1867.4	1804.2
27.5°	1083.4	1083.4	1139.1	1226.4	1367.8	1593.5	1843.3	1974.2	2007.3	1960.7	1868.9
30°	1008.2	1017.2	1065.4	1164.7	1303.1	1527.3	1864.4	2087.1	2114.2	2073.5	1978.7
32.5°	949.5	949.5	1003.7	1109.0	1258.0	1497.2	1850.8	2198.4	2249.6	2219.5	2121.7
35°	886.3	881.8	920.9	1036.8	1185.7	1438.5	1846.3	2287.2	2401.6	2403.1	2300.7
37.5°	796.0	814.1	863.7	955.5	1128.6	1381.3	1832.8	2394.0	2598.7	2633.3	2562.6
40°	735.8	743.3	788.5	889.3	1039.8	1313.6	1813.2	2481.3	2729.6	2848.5	2750.7
42.5°	648.5	659.1	693.7	818.6	954.0	1217.3	1727.4	2543.0	2916.2	3051.6	2968.8
45°	556.8	562.8	613.9	716.3	862.2	1103.0	1635.6	2642.3	3096.7	3373.6	3325.5
47.5°	446.9	449.9	493.6	600.4	752.4	988.6	1494.2	2637.8	3242.7	3695.6	3831.1
50°	349.1	356.6	389.7	477.0	620.0	848.7	1330.2	2601.7	3426.3	4062.8	4329.1
52.5°	278.4	279.9	300.9	370.2	478.5	708.7	1154.1	2487.3	3599.3	4422.4	4940.1
55°	230.2	230.2	242.3	284.4	367.2	538.7	948.0	2297.7	3620.4	4819.7	5606.7
56°	221.2	218.2	228.7	264.8	331.0	486.0	851.7	2169.8	3650.5	5003.3	5940.7
57°	209.2	210.7	216.7	242.3	297.9	430.4	744.8	2044.9	3629.4	5153.7	6187.5
58°	203.1	200.1	212.2	228.7	263.3	382.2	671.1	1897.5	3596.3	5277.1	6547.1
59°	194.1	192.6	200.1	215.2	245.3	340.1	580.8	1738.0	3531.6	5436.6	6815.0
60°	191.1	189.6	192.6	204.6	225.7	297.9	511.6	1551.4	3358.6	5600.6	7147.5
61°	182.1	183.6	189.6	197.1	213.7	267.8	460.4	1360.3	3245.7	5739.1	7514.7
62°	183.6	180.6	183.6	189.6	201.6	246.8	403.3	1172.2	3044.1	5895.6	7790.0
63°	174.5	173.0	177.6	185.1	191.1	222.7	352.1	1012.7	2815.4	5931.7	8023.3
64°	171.5	170.0	171.5	182.1	183.6	209.2	311.5	865.2	2484.3	5993.4	8322.7
65°	164.0	164.0	167.0	171.5	177.6	197.1	278.4	750.9	2154.8	5830.9	8414.5
66°	158.0	159.5	159.5	167.0	171.5	183.6	255.8	638.0	1838.8	5572.0	8503.3
67°	153.5	153.5	155.0	161.0	165.5	173.0	230.2	552.2	1551.4	5263.6	8366.3
67.5°	150.5	152.0	152.0	158.0	162.5	173.0	219.7	523.6	1387.4	4925.0	8264.0
68°	146.0	147.5	147.5	153.5	158.0	167.0	212.2	478.5	1279.0	4705.3	8074.4
69°	143.0	141.4	141.4	147.5	153.5	159.5	197.1	418.3	1017.2	4091.4	7797.5
70°	133.9	133.9	136.9	141.4	146.0	152.0	182.1	368.7	860.7	3387.2	7084.3
71°	129.4	127.9	129.4	133.9	138.4	146.0	167.0	326.5	704.2	2812.4	6383.1
72°	120.4	123.4	123.4	127.9	132.4	136.9	156.5	284.4	591.4	2248.1	5611.2
72.5°	118.9	118.9	120.4	124.9	127.9	135.4	150.5	272.4	540.2	1981.7	5287.6
73°	114.4	114.4	115.9	120.4	123.4	130.9	146.0	245.3	492.0	1763.6	4682.7
74°	109.8	108.3	108.3	114.4	115.9	123.4	136.9	216.7	412.3	1328.7	3758.8
75°	102.3	102.3	103.8	106.8	108.3	114.4	126.4	192.6	347.6	1030.7	2940.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	84.3	85.8	87.3	90.3	90.3	94.8	103.8	133.9	212.2	522.1	1349.7
80°	61.7	64.7	69.2	73.7	72.2	72.2	81.3	96.3	126.4	234.7	517.6
82.5°	49.7	52.7	48.2	54.2	54.2	51.2	58.7	70.7	85.8	115.9	185.1
85°	33.1	34.6	28.6	33.1	31.6	31.6	39.1	42.1	52.7	64.7	91.8
87.5°	15.0	15.0	12.0	13.5	13.5	13.5	19.6	15.0	22.6	31.6	54.2
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0
2.5°	1285.0	1291.1	1291.1	1285.0	1280.5	1285.0	1282.0	1274.5	1282.0	1285.0	1286.6
5°	1303.1	1291.1	1297.1	1283.5	1292.6	1291.1	1288.1	1295.6	1297.1	1297.1	1307.6
7.5°	1322.7	1337.7	1318.1	1319.7	1324.2	1306.1	1312.1	1315.1	1309.1	1321.2	1330.2
10°	1357.3	1363.3	1357.3	1334.7	1349.7	1337.7	1333.2	1346.7	1343.7	1346.7	1360.3
12.5°	1388.9	1399.4	1382.9	1381.3	1373.8	1363.3	1369.3	1367.8	1388.9	1391.9	1408.4
15°	1453.6	1426.5	1420.5	1419.0	1416.0	1411.4	1414.5	1416.0	1443.0	1447.6	1486.7
17.5°	1509.3	1504.7	1471.6	1483.7	1483.7	1465.6	1458.1	1483.7	1504.7	1527.3	1554.4
20°	1566.4	1561.9	1525.8	1527.3	1513.8	1530.3	1521.3	1545.4	1581.5	1589.0	1613.1
22.5°	1634.1	1614.6	1589.0	1592.0	1596.5	1584.5	1578.5	1611.6	1647.7	1668.8	1670.3
25°	1741.0	1691.3	1670.3	1673.3	1667.2	1658.2	1662.7	1704.9	1722.9	1768.1	1759.0
27.5°	1798.2	1769.6	1754.5	1719.9	1721.4	1707.9	1725.9	1789.1	1825.2	1859.9	1790.6
30°	1867.4	1849.3	1783.1	1771.1	1769.6	1763.6	1796.7	1877.9	1932.1	1951.6	1852.3
32.5°	2002.8	1930.6	1914.0	1903.5	1879.4	1886.9	1903.5	2010.3	2096.1	2091.6	1909.5
35°	2157.8	2108.1	2061.5	2052.5	2049.5	2028.4	2057.0	2181.9	2248.1	2228.5	1930.6
37.5°	2406.1	2330.8	2267.6	2233.0	2227.0	2212.0	2279.7	2379.0	2464.8	2388.0	1947.1
40°	2528.0	2443.7	2385.0	2363.9	2368.5	2389.5	2455.7	2607.7	2645.3	2503.9	1960.7
42.5°	2702.5	2610.7	2494.9	2484.3	2470.8	2481.3	2609.2	2813.9	2845.5	2660.4	1909.5
45°	3012.5	2874.0	2740.1	2679.9	2682.9	2711.5	2910.2	3134.4	3075.7	2768.7	1828.3
47.5°	3403.7	3200.6	3092.2	3011.0	3050.1	3018.5	3334.5	3513.6	3313.4	2905.6	1728.9
50°	3992.1	3707.7	3560.2	3462.4	3479.0	3506.0	3826.5	3978.5	3576.8	2971.9	1577.0
52.5°	4733.9	4368.3	4151.6	4020.7	4032.7	4091.4	4505.2	4458.5	3877.7	3027.5	1373.8
55°	5621.7	5245.5	4825.7	4771.5	4758.0	4897.9	5353.9	4961.1	4148.6	2938.8	1163.2
56°	6091.2	5690.9	5254.5	5143.2	5110.1	5207.9	5743.6	5212.4	4241.9	2839.4	1062.3
57°	6489.9	6107.7	5629.2	5439.6	5481.8	5665.3	6130.3	5448.7	4327.6	2737.1	967.5
58°	7037.7	6601.3	6095.7	5951.2	5913.6	6059.6	6547.1	5686.4	4356.2	2631.8	880.3
59°	7583.9	7060.2	6604.3	6341.0	6351.5	6617.8	6957.9	5969.3	4399.9	2497.9	768.9
60°	7999.2	7735.9	7126.4	6929.3	6902.2	7287.4	7367.2	6158.9	4446.5	2317.3	690.7
61°	8587.5	8244.5	7677.2	7422.9	7496.6	7805.1	7809.6	6396.6	4377.3	2088.6	594.4
62°	9010.4	8920.1	8324.2	8081.9	8059.4	8468.7	8270.0	6605.8	4317.1	1871.9	525.2
63°	9505.4	9505.4	8962.2	8772.6	8783.2	9106.7	8470.2	6815.0	4247.9	1632.6	462.0
64°	9762.7	10086.3	9585.2	9318.8	9388.1	9667.9	8826.8	6951.9	4034.2	1390.4	406.3
65°	9985.4	10471.5	10193.1	10069.7	9964.4	10129.9	9135.3	7079.8	3707.7	1182.7	361.1
66°	10173.5	10834.1	10742.3	10609.9	10599.4	10561.7	9195.4	7075.3	3370.6	999.1	316.0
67°	10078.7	10841.6	11008.7	11064.3	11047.8	10650.5	9090.1	6914.3	2938.8	844.2	281.4
67.5°	9993.0	10779.9	11168.2	11136.6	11205.8	10725.8	9108.2	6717.1	2631.8	764.4	264.8
68°	9917.7	10697.2	11232.9	11273.5	11238.9	10734.8	9008.9	6560.7	2422.6	717.8	249.8
69°	9347.4	10304.4	11129.0	11275.0	11186.2	10390.2	8692.9	6152.9	1924.6	612.4	230.2
70°	8775.6	9795.8	10624.9	10892.8	10782.9	9723.6	8294.1	5504.3	1587.5	523.6	207.7
71°	7984.1	8850.9	9953.8	10114.8	9982.4	8965.2	7469.5	4819.7	1235.4	443.9	185.1
72°	6909.8	7645.6	8698.9	9088.6	8893.0	7874.3	6635.9	3983.0	1000.7	373.2	168.5
72.5°	6377.1	7130.9	8146.6	8178.2	8215.9	7400.3	6282.3	3498.5	872.7	346.1	164.0
73°	5871.5	6610.3	7489.1	7600.4	7440.9	6601.3	5754.1	3128.3	797.5	316.0	158.0
74°	4758.0	5179.3	5907.6	6015.9	5876.0	5382.4	4702.3	2398.6	635.0	272.4	144.5
75°	3743.8	3975.5	4634.6	4568.4	4359.2	4186.2	3646.0	1832.8	514.6	239.3	133.9



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1682.3	1822.2	1932.1	1932.1	1944.1	1855.3	1680.8	841.1	317.5	173.0	109.8
80°	641.0	717.8	741.8	743.3	753.9	781.0	726.8	413.8	188.1	123.4	88.8
82.5°	465.0	650.0	699.7	663.6	666.6	601.9	278.4	183.6	118.9	85.8	64.7
85°	421.3	565.8	598.9	594.4	595.9	556.8	164.0	90.3	69.2	54.2	45.1
87.5°	204.6	200.1	212.2	239.3	233.2	302.5	138.4	45.1	30.1	22.6	22.6
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°	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0
2.5°	1274.5	1273.0	1294.1	1273.0	1285.0	1276.0
5°	1289.6	1295.6	1300.1	1309.1	1288.1	1309.1
7.5°	1334.7	1340.7	1342.2	1349.7	1340.7	1339.2
10°	1369.3	1384.4	1393.4	1363.3	1381.3	1379.8
12.5°	1437.0	1422.0	1420.5	1414.5	1397.9	1391.9
15°	1485.2	1462.6	1449.1	1425.0	1405.4	1397.9
17.5°	1552.9	1509.3	1453.6	1403.9	1369.3	1342.2
20°	1595.0	1516.8	1405.4	1346.7	1294.1	1306.1
22.5°	1622.1	1509.3	1361.8	1286.6	1233.9	1248.9
25°	1631.1	1471.6	1331.7	1238.4	1187.2	1176.7
27.5°	1605.6	1428.0	1273.0	1167.7	1122.5	1131.6
30°	1593.5	1364.8	1218.8	1115.0	1054.8	1063.8
32.5°	1561.9	1300.1	1146.6	1041.3	997.6	982.6
35°	1516.8	1245.9	1077.4	978.1	925.4	913.4
37.5°	1461.1	1178.2	1017.2	896.8	850.2	841.1
40°	1378.3	1097.0	929.9	826.1	771.9	770.4
42.5°	1306.1	1018.7	848.7	741.8	687.7	690.7
45°	1214.3	913.4	755.4	663.6	609.4	612.4
47.5°	1097.0	815.6	666.6	564.3	519.1	516.1
50°	958.5	704.2	558.3	471.0	433.4	425.8
52.5°	826.1	591.4	457.4	379.2	347.6	344.6
55°	659.1	460.4	356.6	297.9	273.9	275.4
56°	598.9	424.3	325.0	272.4	254.3	254.3
57°	541.7	376.2	294.9	251.3	234.7	234.7
58°	478.5	331.0	267.8	227.2	219.7	213.7
59°	434.9	300.9	242.3	215.2	203.1	201.6
60°	383.7	270.9	225.7	201.6	192.6	191.1
61°	340.1	243.8	207.7	188.1	185.1	185.1
62°	304.0	225.7	192.6	182.1	180.6	176.1
63°	272.4	207.7	185.1	173.0	168.5	173.0
64°	243.8	191.1	179.1	170.0	164.0	167.0
65°	221.2	183.6	171.5	165.5	159.5	161.0
66°	206.1	171.5	165.5	158.0	155.0	156.5
67°	186.6	165.5	159.5	152.0	150.5	152.0
67.5°	180.6	161.0	156.5	149.0	147.5	149.0
68°	176.1	158.0	155.0	147.5	146.0	144.5
69°	164.0	152.0	147.5	144.5	141.4	139.9
70°	153.5	146.0	143.0	138.4	135.4	133.9
71°	147.5	138.4	136.9	132.4	129.4	127.9
72°	139.9	133.9	130.9	124.9	123.4	124.9
72.5°	138.4	130.9	129.4	123.4	121.9	121.9
73°	133.9	124.9	126.4	120.4	117.4	120.4
74°	124.9	121.9	118.9	114.4	112.9	112.9
75°	117.4	114.4	111.4	108.3	108.3	108.3



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	135°	145°	155°	165°	175°	180°
77.5°	99.3	97.8	99.3	93.3	91.8	90.3
80°	79.8	79.8	81.3	76.7	73.7	72.2
82.5°	60.2	61.7	64.7	60.2	57.2	54.2
85°	39.1	40.6	40.6	36.1	42.1	39.1
87.5°	19.6	21.1	19.6	18.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)