

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: P676126

Luminaire Tested: **CCW-SA-2B-735-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676126
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

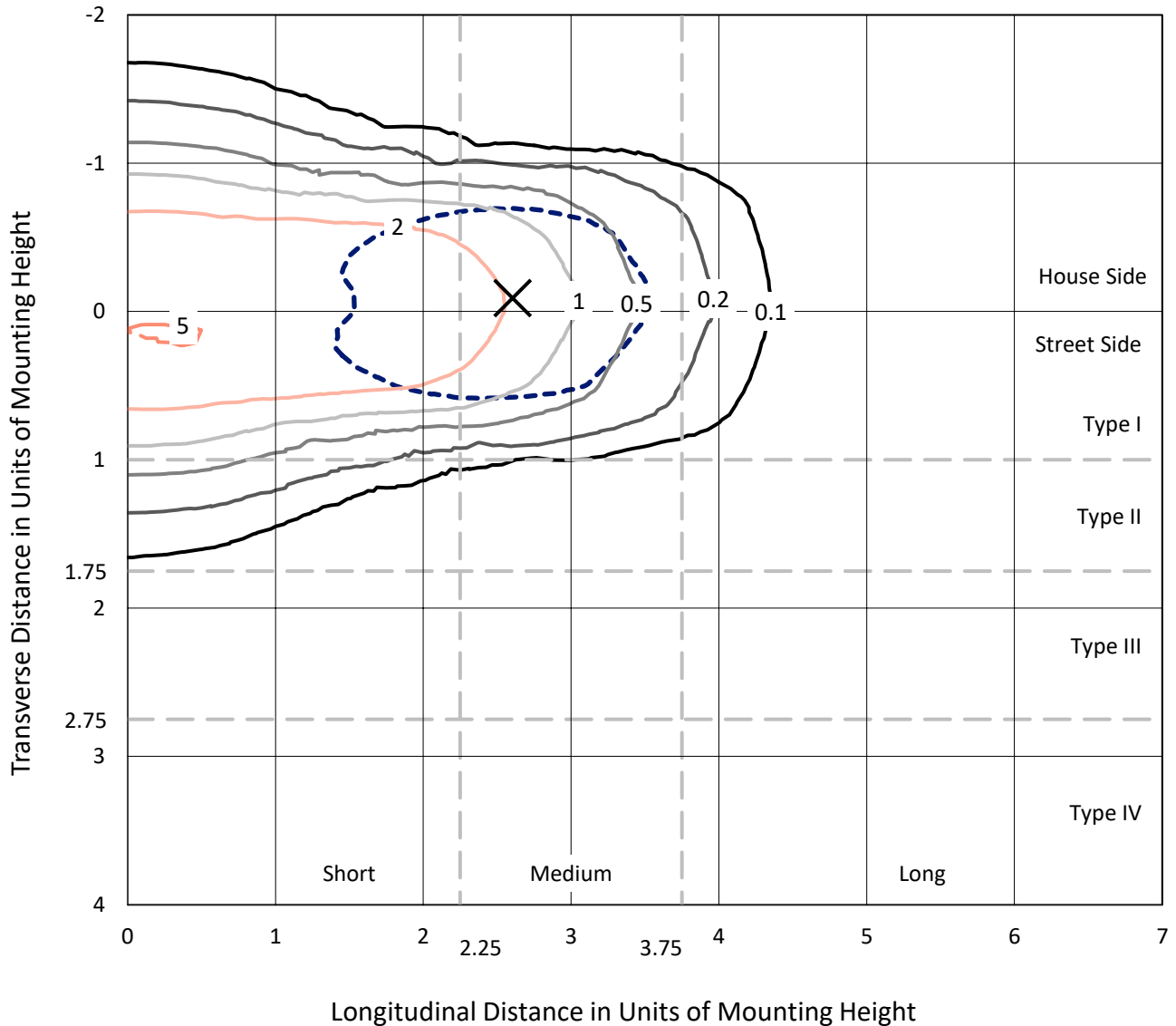
Lumens per Lamp: N/A
Luminaire Lumens: 6633 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 46
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

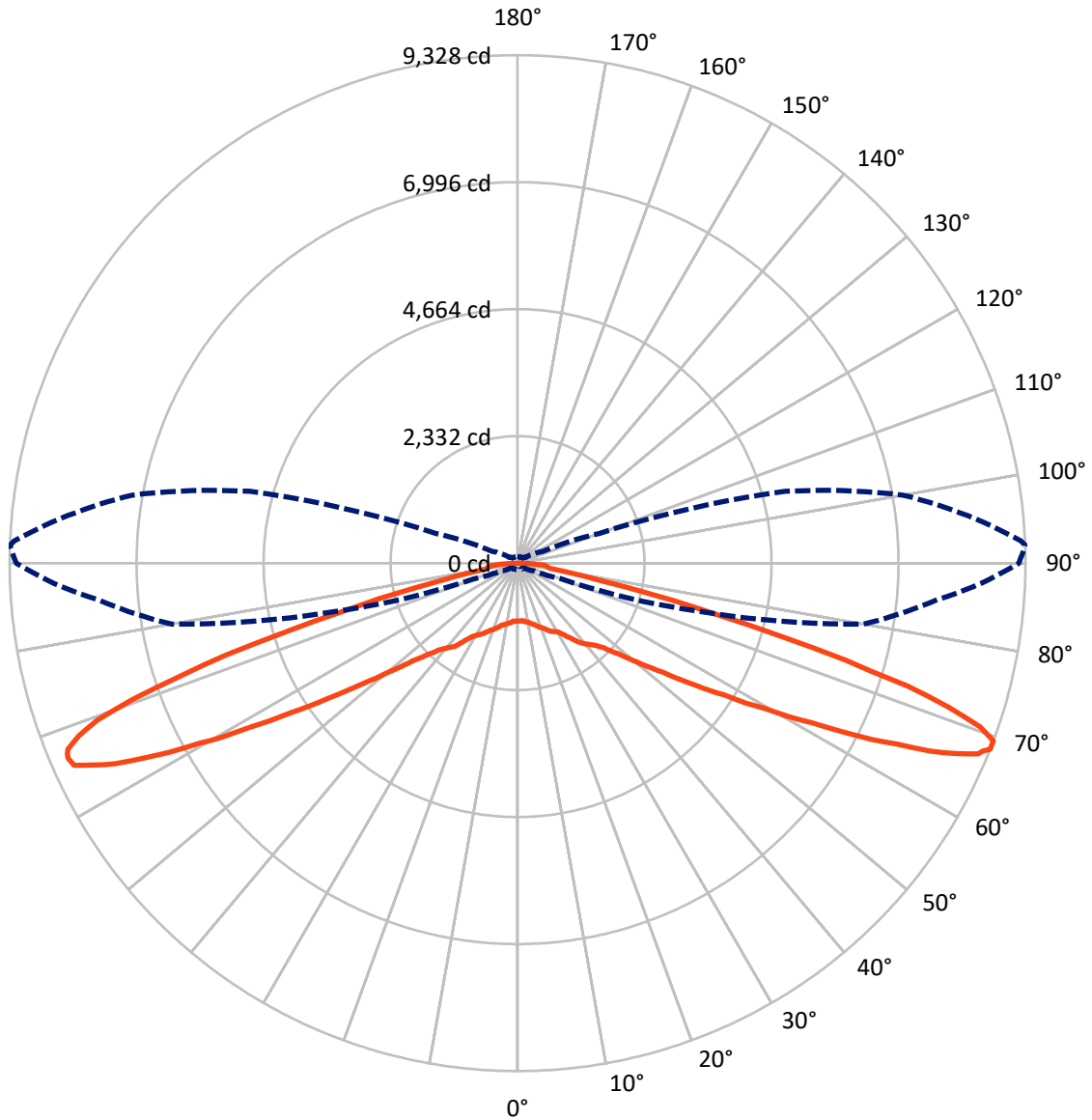
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 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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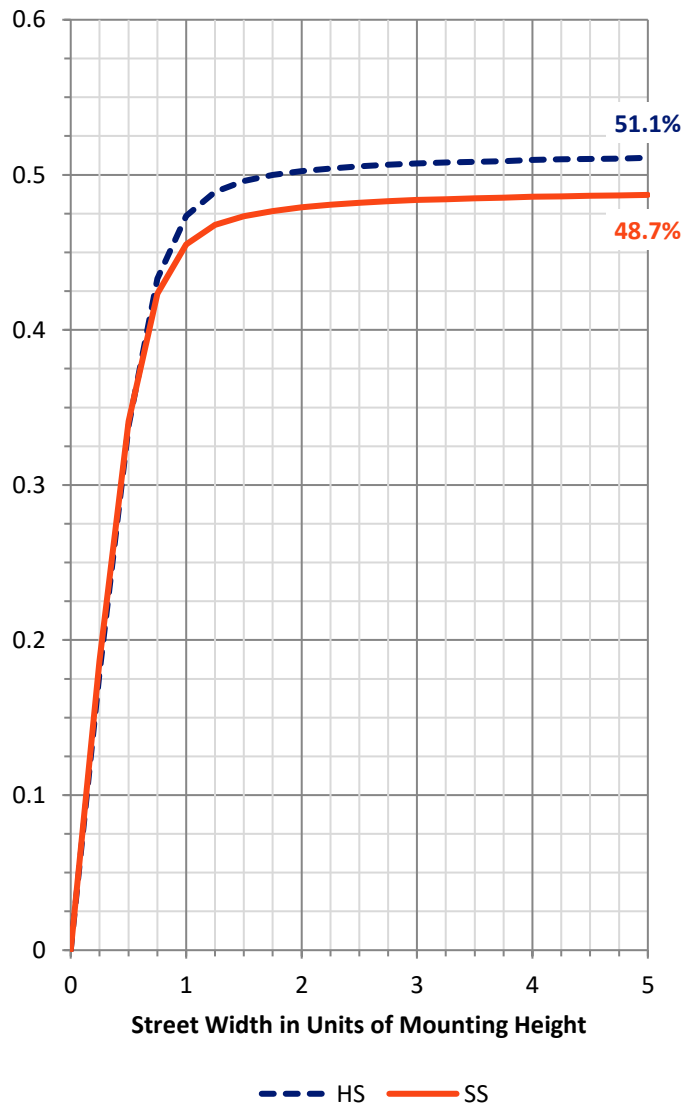
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3415.9	0.0	3415.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3217.1	0.0	3217.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	6633.0	0.0	6633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.6
10°-20°	344.1	5.2
20°-30°	587.2	8.9
30°-40°	819.9	12.4
40°-50°	1043.0	15.7
50°-60°	1318.7	19.9
60°-70°	1626.3	24.5
70°-80°	710.4	10.7
80°-90°	77.1	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°	6633.0	100.0
0°-180°	6633.0	100.0



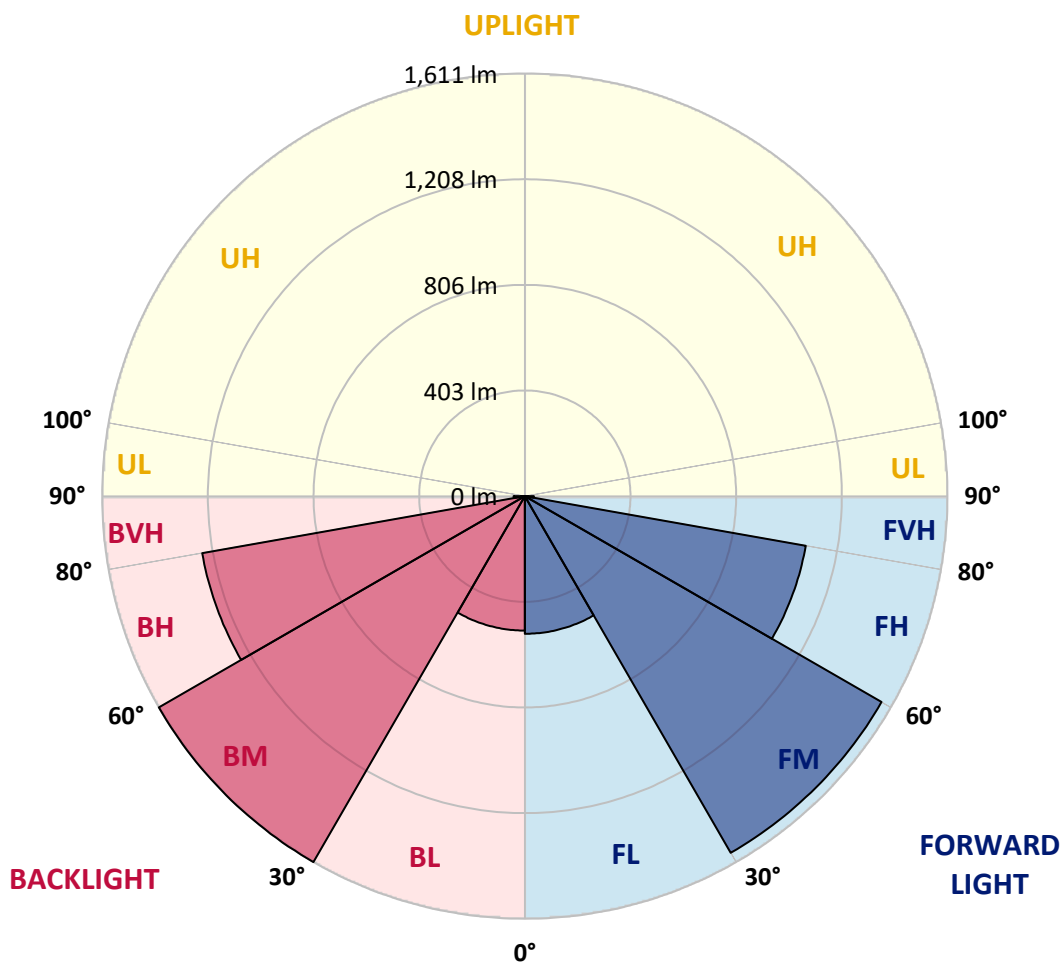
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.9	7.9			
FM (30°-60°)	1570.3	23.7			
FH (60°-80°)	1087.7	16.4			G1/1800
FVH (80°-90°)	34.2	0.5			G1/100
BL (0°-30°)	512.6	7.7	B2/1000		
BM (30°-60°)	1611.3	24.3	B2/2500		
BH (60°-80°)	1249.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	42.9	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°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
2.5°	1083.1	1081.8	1085.6	1088.1	1076.9	1080.6	1078.1	1075.6	1066.9	1063.2	1055.7
5°	1113.0	1116.7	1129.1	1117.9	1122.9	1116.7	1096.8	1103.0	1091.8	1089.3	1081.8
7.5°	1165.2	1157.8	1175.2	1162.8	1166.5	1154.0	1145.3	1134.1	1131.6	1114.2	1115.4
10°	1176.4	1191.4	1198.9	1196.4	1198.9	1205.1	1188.9	1171.5	1147.8	1142.8	1125.4
12.5°	1169.0	1182.7	1202.6	1218.8	1230.0	1232.5	1226.2	1222.5	1212.5	1183.9	1182.7
15°	1161.5	1151.5	1164.0	1220.0	1257.4	1282.3	1291.0	1269.8	1272.3	1235.0	1220.0
17.5°	1111.7	1096.8	1145.3	1200.1	1246.2	1300.9	1343.3	1337.0	1337.0	1307.2	1286.0
20°	1045.7	1070.6	1095.5	1165.2	1249.9	1332.1	1413.0	1409.2	1394.3	1385.6	1339.5
22.5°	989.7	1000.9	1047.0	1120.4	1226.2	1340.8	1436.6	1505.1	1470.2	1435.4	1408.0
25°	951.1	941.2	999.7	1075.6	1203.8	1325.8	1481.4	1552.4	1571.1	1544.9	1492.7
27.5°	896.3	896.3	942.4	1014.6	1131.6	1318.4	1525.0	1633.3	1660.7	1622.1	1546.2
30°	834.1	841.6	881.4	963.6	1078.1	1263.6	1542.5	1726.7	1749.1	1715.5	1637.1
32.5°	785.5	785.5	830.4	917.5	1040.7	1238.7	1531.2	1818.8	1861.1	1836.3	1755.3
35°	733.3	729.5	761.9	857.7	981.0	1190.1	1527.5	1892.3	1986.9	1988.1	1903.5
37.5°	658.6	673.5	714.6	790.5	933.7	1142.8	1516.3	1980.7	2150.0	2178.6	2120.1
40°	608.8	615.0	652.3	735.7	860.2	1086.8	1500.1	2052.9	2258.3	2356.6	2275.7
42.5°	536.6	545.3	573.9	677.2	789.3	1007.1	1429.2	2103.9	2412.6	2524.7	2456.2
45°	460.6	465.6	507.9	592.6	713.3	912.5	1353.2	2186.1	2562.0	2791.1	2751.3
47.5°	369.7	372.2	408.3	496.7	622.5	817.9	1236.2	2182.3	2682.8	3057.5	3169.6
50°	288.8	295.0	322.4	394.6	512.9	702.1	1100.5	2152.5	2834.7	3361.3	3581.6
52.5°	230.3	231.6	249.0	306.2	395.9	586.4	954.9	2057.8	2977.8	3658.8	4087.1
55°	190.5	190.5	200.4	235.3	303.8	445.7	784.3	1901.0	2995.3	3987.5	4638.6
56°	183.0	180.5	189.2	219.1	273.9	402.1	704.6	1795.2	3020.2	4139.3	4914.9
57°	173.0	174.3	179.3	200.4	246.5	356.0	616.2	1691.8	3002.7	4263.8	5119.1
58°	168.1	165.6	175.5	189.2	217.9	316.2	555.2	1569.8	2975.3	4365.9	5416.6
59°	160.6	159.3	165.6	178.0	202.9	281.4	480.5	1437.9	2921.8	4497.9	5638.2
60°	158.1	156.9	159.3	169.3	186.7	246.5	423.3	1283.5	2778.7	4633.6	5913.3
61°	150.6	151.9	156.9	163.1	176.8	221.6	380.9	1125.4	2685.3	4748.1	6217.1
62°	151.9	149.4	151.9	156.9	166.8	204.2	333.6	969.8	2518.5	4877.6	6444.9
63°	144.4	143.2	146.9	153.1	158.1	184.2	291.3	837.8	2329.2	4907.5	6637.9
64°	141.9	140.7	141.9	150.6	151.9	173.0	257.7	715.8	2055.4	4958.5	6885.6
65°	135.7	135.7	138.2	141.9	146.9	163.1	230.3	621.2	1782.7	4824.0	6961.6
66°	130.7	132.0	132.0	138.2	141.9	151.9	211.6	527.8	1521.3	4609.9	7035.0
67°	127.0	127.0	128.2	133.2	136.9	143.2	190.5	456.9	1283.5	4354.7	6921.7
67.5°	124.5	125.7	125.7	130.7	134.5	143.2	181.8	433.2	1147.8	4074.6	6837.1
68°	120.8	122.0	122.0	127.0	130.7	138.2	175.5	395.9	1058.2	3892.9	6680.2
69°	118.3	117.0	117.0	122.0	127.0	132.0	163.1	346.1	841.6	3384.9	6451.2
70°	110.8	110.8	113.3	117.0	120.8	125.7	150.6	305.0	712.1	2802.3	5861.1
71°	107.1	105.8	107.1	110.8	114.5	120.8	138.2	270.1	582.6	2326.7	5280.9
72°	99.6	102.1	102.1	105.8	109.6	113.3	129.5	235.3	489.3	1859.9	4642.3
72.5°	98.3	98.3	99.6	103.3	105.8	112.0	124.5	225.3	446.9	1639.6	4374.6
73°	94.6	94.6	95.9	99.6	102.1	108.3	120.8	202.9	407.1	1459.0	3874.2
74°	90.9	89.6	89.6	94.6	95.9	102.1	113.3	179.3	341.1	1099.3	3109.8
75°	84.7	84.7	85.9	88.4	89.6	94.6	104.6	159.3	287.6	852.8	2432.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	69.7	71.0	72.2	74.7	74.7	78.4	85.9	110.8	175.5	432.0	1116.7
80°	51.0	53.5	57.3	61.0	59.8	59.8	67.2	79.7	104.6	194.2	428.3
82.5°	41.1	43.6	39.8	44.8	44.8	42.3	48.6	58.5	71.0	95.9	153.1
85°	27.4	28.6	23.7	27.4	26.1	26.1	32.4	34.9	43.6	53.5	75.9
87.5°	12.4	12.4	10.0	11.2	11.2	11.2	16.2	12.4	18.7	26.1	44.8
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°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
2.5°	1063.2	1068.1	1068.1	1063.2	1059.4	1063.2	1060.7	1054.4	1060.7	1063.2	1064.4
5°	1078.1	1068.1	1073.1	1061.9	1069.4	1068.1	1065.6	1071.9	1073.1	1073.1	1081.8
7.5°	1094.3	1106.7	1090.5	1091.8	1095.5	1080.6	1085.6	1088.1	1083.1	1093.0	1100.5
10°	1122.9	1127.9	1122.9	1104.2	1116.7	1106.7	1103.0	1114.2	1111.7	1114.2	1125.4
12.5°	1149.1	1157.8	1144.1	1142.8	1136.6	1127.9	1132.9	1131.6	1149.1	1151.5	1165.2
15°	1202.6	1180.2	1175.2	1174.0	1171.5	1167.7	1170.2	1171.5	1193.9	1197.6	1230.0
17.5°	1248.7	1244.9	1217.5	1227.5	1227.5	1212.5	1206.3	1227.5	1244.9	1263.6	1286.0
20°	1296.0	1292.2	1262.3	1263.6	1252.4	1266.1	1258.6	1278.5	1308.4	1314.6	1334.5
22.5°	1352.0	1335.8	1314.6	1317.1	1320.9	1310.9	1305.9	1333.3	1363.2	1380.6	1381.9
25°	1440.4	1399.3	1381.9	1384.3	1379.4	1371.9	1375.6	1410.5	1425.4	1462.8	1455.3
27.5°	1487.7	1464.0	1451.6	1422.9	1424.2	1413.0	1427.9	1480.2	1510.1	1538.7	1481.4
30°	1544.9	1530.0	1475.2	1465.3	1464.0	1459.0	1486.4	1553.7	1598.5	1614.7	1532.5
32.5°	1657.0	1597.2	1583.5	1574.8	1554.9	1561.1	1574.8	1663.2	1734.2	1730.4	1579.8
35°	1785.2	1744.1	1705.5	1698.1	1695.6	1678.1	1701.8	1805.1	1859.9	1843.7	1597.2
37.5°	1990.6	1928.4	1876.1	1847.5	1842.5	1830.0	1886.0	1968.2	2039.2	1975.7	1610.9
40°	2091.5	2021.7	1973.2	1955.8	1959.5	1976.9	2031.7	2157.4	2188.6	2071.5	1622.1
42.5°	2235.9	2159.9	2064.1	2055.4	2044.2	2052.9	2158.7	2328.0	2354.1	2201.0	1579.8
45°	2492.3	2377.8	2267.0	2217.2	2219.7	2243.3	2407.7	2593.2	2544.6	2290.6	1512.6
47.5°	2816.0	2647.9	2558.3	2491.1	2523.4	2497.3	2758.7	2906.9	2741.3	2403.9	1430.4
50°	3302.8	3067.5	2945.5	2864.6	2878.2	2900.7	3165.8	3291.6	2959.2	2458.7	1304.7
52.5°	3916.5	3614.0	3434.7	3326.4	3336.4	3384.9	3727.3	3688.7	3208.1	2504.8	1136.6
55°	4651.0	4339.8	3992.4	3947.6	3936.4	4052.2	4429.4	4104.5	3432.2	2431.3	962.3
56°	5039.4	4708.3	4347.2	4255.1	4227.7	4308.7	4751.8	4312.4	3509.4	2349.2	878.9
57°	5369.3	5053.1	4657.2	4500.4	4535.2	4687.1	5071.8	4507.8	3580.4	2264.5	800.5
58°	5822.5	5461.4	5043.2	4923.6	4892.5	5013.3	5416.6	4704.5	3604.0	2177.4	728.3
59°	6274.4	5841.1	5463.9	5246.1	5254.8	5475.1	5756.5	4938.6	3640.1	2066.6	636.2
60°	6618.0	6400.1	5895.9	5732.8	5710.4	6029.1	6095.1	5095.4	3678.7	1917.2	571.4
61°	7104.7	6820.9	6351.6	6141.2	6202.2	6457.4	6461.1	5292.1	3621.5	1727.9	491.7
62°	7454.6	7379.9	6886.9	6686.4	6667.8	7006.4	6842.1	5465.2	3571.7	1548.7	434.5
63°	7864.1	7864.1	7414.7	7257.9	7266.6	7534.2	7007.6	5638.2	3514.4	1350.7	382.2
64°	8077.0	8344.7	7930.1	7709.8	7767.0	7998.6	7302.7	5751.5	3337.6	1150.3	336.1
65°	8261.3	8663.4	8433.1	8331.0	8243.8	8380.8	7557.9	5857.3	3067.5	978.5	298.8
66°	8416.9	8963.4	8887.5	8777.9	8769.2	8738.1	7607.7	5853.6	2788.6	826.6	261.4
67°	8338.4	8969.6	9107.8	9153.9	9140.2	8811.5	7520.5	5720.4	2431.3	698.4	232.8
67.5°	8267.5	8918.6	9239.8	9213.6	9270.9	8873.8	7535.5	5557.3	2177.4	632.4	219.1
68°	8205.2	8850.1	9293.3	9326.9	9298.3	8881.2	7453.3	5427.8	2004.3	593.8	206.7
69°	7733.4	8525.2	9207.4	9328.2	9254.7	8596.1	7191.9	5090.5	1592.2	506.7	190.5
70°	7260.3	8104.4	8790.3	9011.9	8921.1	8044.6	6862.0	4553.9	1313.4	433.2	171.8
71°	6605.5	7322.6	8235.1	8368.3	8258.8	7417.2	6179.8	3987.5	1022.1	367.3	153.1
72°	5716.7	6325.4	7196.9	7519.3	7357.4	6514.6	5490.1	3295.3	827.9	308.7	139.4
72.5°	5276.0	5899.7	6740.0	6766.1	6797.2	6122.5	5197.5	2894.4	722.1	286.3	135.7
73°	4857.7	5468.9	6195.9	6288.1	6156.1	5461.4	4760.6	2588.2	659.8	261.4	130.7
74°	3936.4	4285.0	4887.5	4977.2	4861.4	4453.1	3890.4	1984.4	525.4	225.3	119.5
75°	3097.3	3289.1	3834.3	3779.6	3606.5	3463.4	3016.4	1516.3	425.8	197.9	110.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1391.8	1507.6	1598.5	1598.5	1608.4	1535.0	1390.6	695.9	262.7	143.2	90.9
80°	530.3	593.8	613.7	615.0	623.7	646.1	601.3	342.4	155.6	102.1	73.5
82.5°	384.7	537.8	578.9	549.0	551.5	498.0	230.3	151.9	98.3	71.0	53.5
85°	348.6	468.1	495.5	491.7	493.0	460.6	135.7	74.7	57.3	44.8	37.3
87.5°	169.3	165.6	175.5	197.9	193.0	250.2	114.5	37.3	24.9	18.7	18.7
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°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
2.5°	1054.4	1053.2	1070.6	1053.2	1063.2	1055.7
5°	1066.9	1071.9	1075.6	1083.1	1065.6	1083.1
7.5°	1104.2	1109.2	1110.5	1116.7	1109.2	1108.0
10°	1132.9	1145.3	1152.8	1127.9	1142.8	1141.6
12.5°	1188.9	1176.4	1175.2	1170.2	1156.5	1151.5
15°	1228.7	1210.1	1198.9	1178.9	1162.8	1156.5
17.5°	1284.8	1248.7	1202.6	1161.5	1132.9	1110.5
20°	1319.6	1254.9	1162.8	1114.2	1070.6	1080.6
22.5°	1342.0	1248.7	1126.6	1064.4	1020.8	1033.3
25°	1349.5	1217.5	1101.8	1024.6	982.2	973.5
27.5°	1328.3	1181.4	1053.2	966.1	928.7	936.2
30°	1318.4	1129.1	1008.4	922.5	872.7	880.2
32.5°	1292.2	1075.6	948.6	861.5	825.4	812.9
35°	1254.9	1030.8	891.4	809.2	765.6	755.7
37.5°	1208.8	974.8	841.6	742.0	703.4	695.9
40°	1140.3	907.5	769.4	683.5	638.6	637.4
42.5°	1080.6	842.8	702.1	613.7	568.9	571.4
45°	1004.6	755.7	624.9	549.0	504.2	506.7
47.5°	907.5	674.7	551.5	466.8	429.5	427.0
50°	793.0	582.6	461.9	389.7	358.5	352.3
52.5°	683.5	489.3	378.5	313.7	287.6	285.1
55°	545.3	380.9	295.0	246.5	226.6	227.8
56°	495.5	351.1	268.9	225.3	210.4	210.4
57°	448.2	311.2	244.0	207.9	194.2	194.2
58°	395.9	273.9	221.6	188.0	181.8	176.8
59°	359.8	249.0	200.4	178.0	168.1	166.8
60°	317.5	224.1	186.7	166.8	159.3	158.1
61°	281.4	201.7	171.8	155.6	153.1	153.1
62°	251.5	186.7	159.3	150.6	149.4	145.7
63°	225.3	171.8	153.1	143.2	139.4	143.2
64°	201.7	158.1	148.1	140.7	135.7	138.2
65°	183.0	151.9	141.9	136.9	132.0	133.2
66°	170.6	141.9	136.9	130.7	128.2	129.5
67°	154.4	136.9	132.0	125.7	124.5	125.7
67.5°	149.4	133.2	129.5	123.2	122.0	123.2
68°	145.7	130.7	128.2	122.0	120.8	119.5
69°	135.7	125.7	122.0	119.5	117.0	115.8
70°	127.0	120.8	118.3	114.5	112.0	110.8
71°	122.0	114.5	113.3	109.6	107.1	105.8
72°	115.8	110.8	108.3	103.3	102.1	103.3
72.5°	114.5	108.3	107.1	102.1	100.8	100.8
73°	110.8	103.3	104.6	99.6	97.1	99.6
74°	103.3	100.8	98.3	94.6	93.4	93.4
75°	97.1	94.6	92.1	89.6	89.6	89.6



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	135°	145°	155°	165°	175°	180°
77.5°	82.2	80.9	82.2	77.2	75.9	74.7
80°	66.0	66.0	67.2	63.5	61.0	59.8
82.5°	49.8	51.0	53.5	49.8	47.3	44.8
85°	32.4	33.6	33.6	29.9	34.9	32.4
87.5°	16.2	17.4	16.2	14.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)