

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: P676147

Luminaire Tested: **CCW-SA-2A-750-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676147
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-750-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

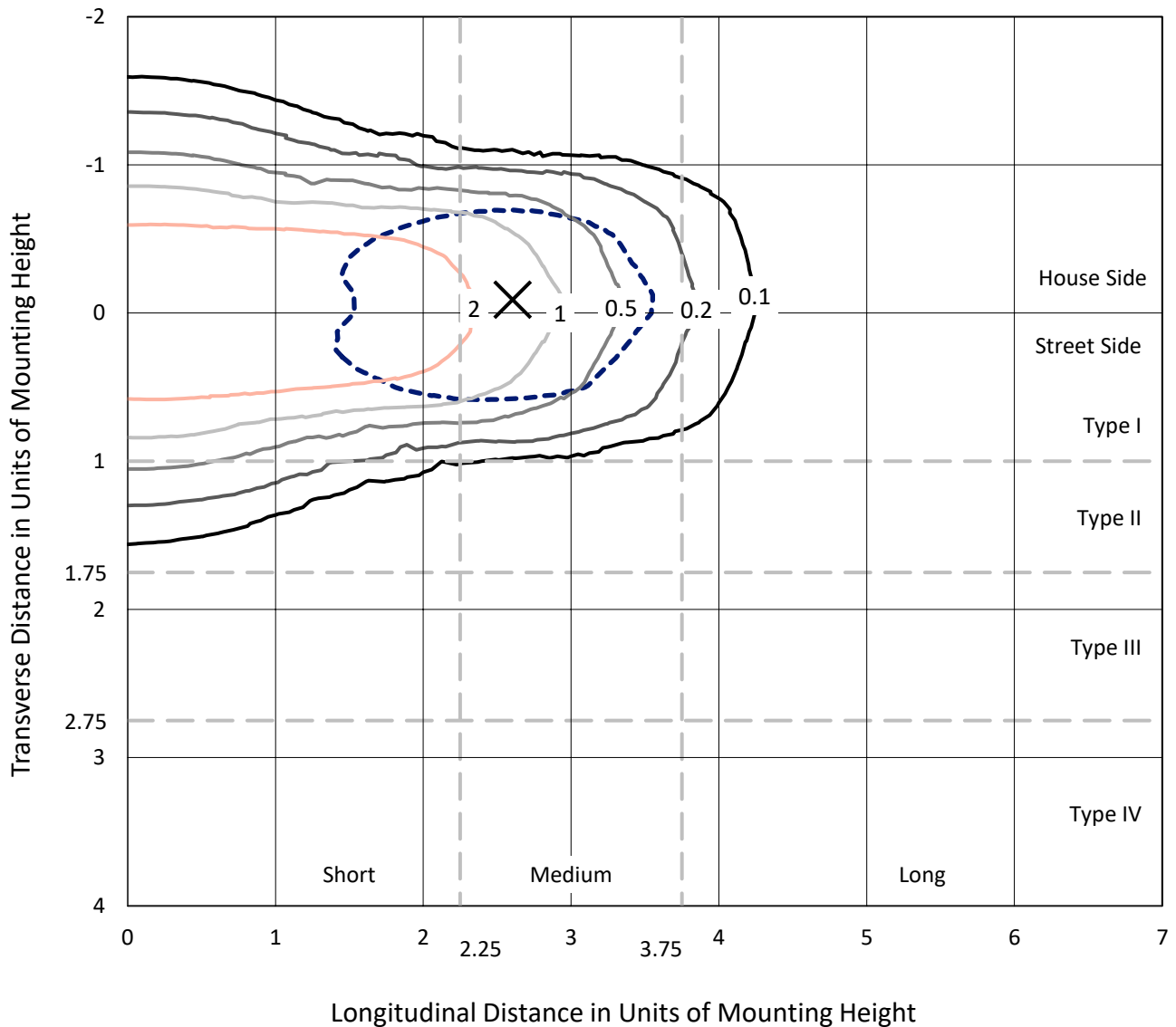
Lumens per Lamp: N/A
Luminaire Lumens: 5450.2 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 36.2
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

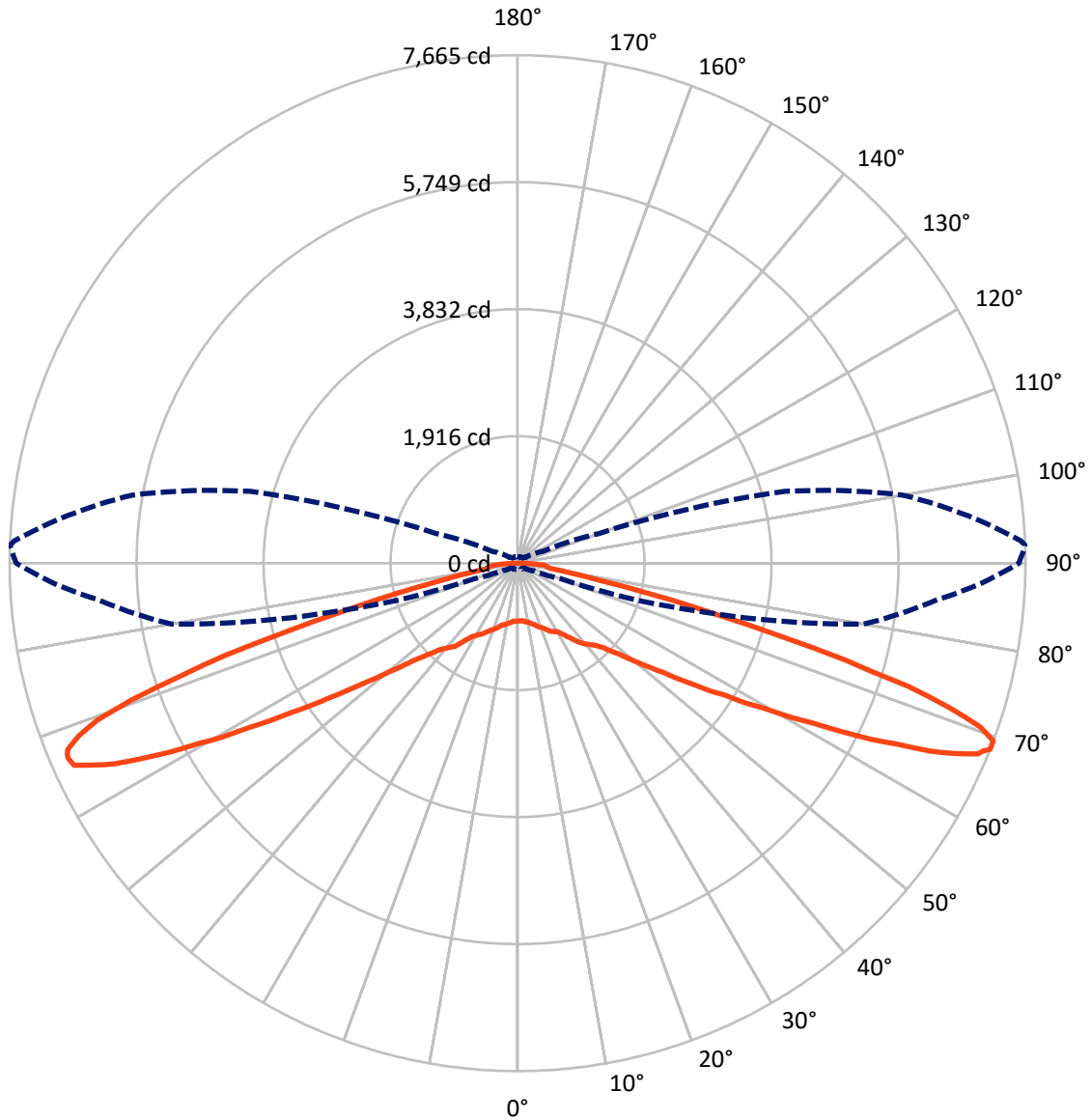
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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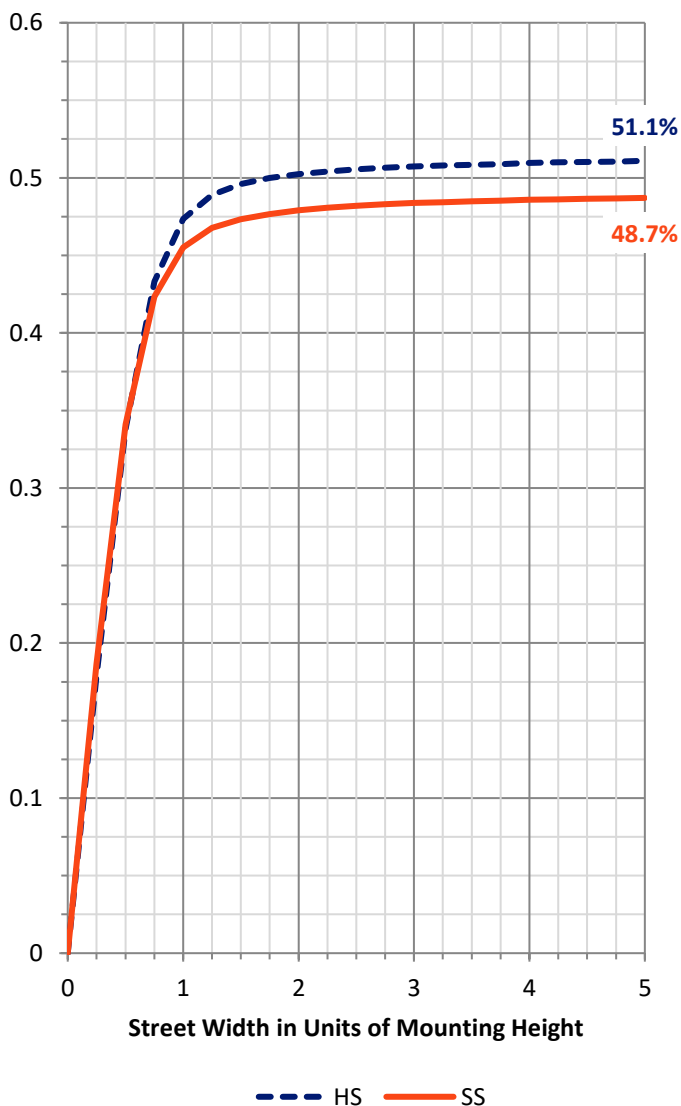
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.8	0.0	2806.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2643.4	0.0	2643.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	5450.2	0.0	5450.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	1.6
10°-20°	282.7	5.2
20°-30°	482.5	8.9
30°-40°	673.7	12.4
40°-50°	857.0	15.7
50°-60°	1083.6	19.9
60°-70°	1336.3	24.5
70°-80°	583.7	10.7
80°-90°	63.3	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°	5450.2	100.0
0°-180°	5450.2	100.0



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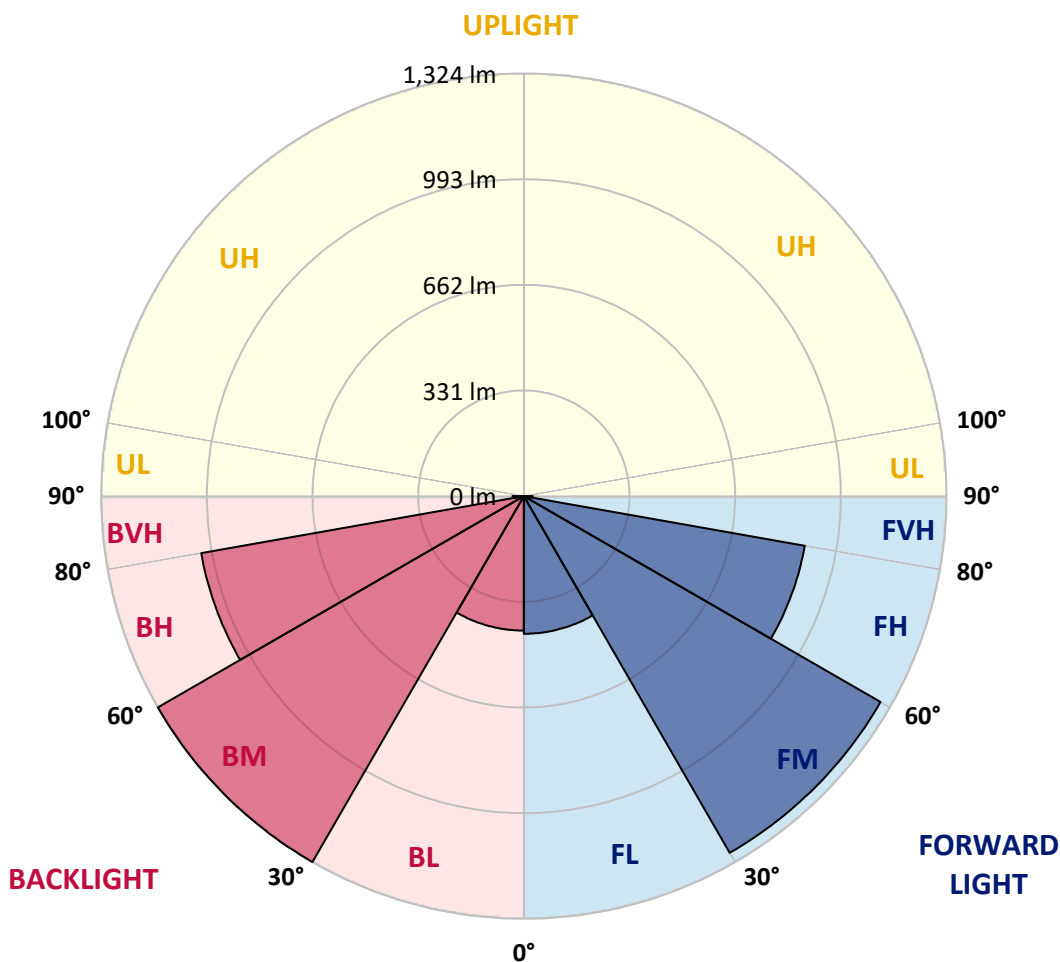
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.3	7.9			
FM (30°-60°)	1290.3	23.7			
FH (60°-80°)	893.7	16.4			G1/1800
FVH (80°-90°)	28.1	0.5			G1/100
BL (0°-30°)	421.2	7.7	B1/500		
BM (30°-60°)	1324.0	24.3	B2/2500		
BH (60°-80°)	1026.4	18.8	B3/2500		G3/2500
BVH (80°-90°)	35.2	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°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
2.5°	889.9	888.9	892.0	894.0	884.8	887.9	885.8	883.8	876.6	873.6	867.4
5°	914.5	917.6	927.8	918.6	922.7	917.6	901.2	906.3	897.1	895.1	888.9
7.5°	957.5	951.3	965.6	955.4	958.5	948.2	941.1	931.9	929.8	915.5	916.5
10°	966.7	978.9	985.1	983.0	985.1	990.2	976.9	962.6	943.1	939.0	924.7
12.5°	960.5	971.8	988.1	1001.4	1010.6	1012.7	1007.6	1004.5	996.3	972.8	971.8
15°	954.4	946.2	956.4	1002.5	1033.1	1053.6	1060.8	1043.4	1045.4	1014.7	1002.5
17.5°	913.5	901.2	941.1	986.1	1023.9	1069.0	1103.7	1098.6	1098.6	1074.1	1056.7
20°	859.3	879.7	900.2	957.5	1027.0	1094.5	1161.0	1157.9	1145.7	1138.5	1100.7
22.5°	813.2	822.4	860.3	920.6	1007.6	1101.7	1180.4	1236.7	1208.1	1179.4	1156.9
25°	781.5	773.3	821.4	883.8	989.2	1089.4	1217.3	1275.6	1290.9	1269.4	1226.5
27.5°	736.5	736.5	774.3	833.7	929.8	1083.3	1253.1	1342.1	1364.6	1332.9	1270.5
30°	685.4	691.5	724.2	791.7	885.8	1038.3	1267.4	1418.8	1437.2	1409.6	1345.1
32.5°	645.5	645.5	682.3	753.9	855.2	1017.8	1258.2	1494.5	1529.3	1508.8	1442.3
35°	602.5	599.4	626.0	704.8	806.1	977.9	1255.1	1554.8	1632.6	1633.6	1564.0
37.5°	541.1	553.4	587.2	649.6	767.2	939.0	1245.9	1627.5	1766.6	1790.1	1742.0
40°	500.2	505.3	536.0	604.5	706.8	893.0	1232.6	1686.8	1855.6	1936.4	1869.9
42.5°	440.9	448.0	471.6	556.5	648.5	827.5	1174.3	1728.7	1982.4	2074.5	2018.2
45°	378.5	382.6	417.4	486.9	586.1	749.8	1111.9	1796.2	2105.2	2293.4	2260.7
47.5°	303.8	305.9	335.5	408.1	511.5	672.1	1015.8	1793.2	2204.4	2512.3	2604.4
50°	237.3	242.4	264.9	324.3	421.4	576.9	904.3	1768.6	2329.2	2761.9	2942.9
52.5°	189.2	190.3	204.6	251.6	325.3	481.8	784.6	1690.9	2446.8	3006.4	3358.2
55°	156.5	156.5	164.7	193.3	249.6	366.2	644.4	1562.0	2461.1	3276.4	3811.4
56°	150.4	148.3	155.5	180.0	225.0	330.4	579.0	1475.0	2481.6	3401.2	4038.5
57°	142.2	143.2	147.3	164.7	202.5	292.6	506.3	1390.1	2467.3	3503.5	4206.2
58°	138.1	136.0	144.2	155.5	179.0	259.8	456.2	1289.9	2444.8	3587.4	4450.7
59°	132.0	130.9	136.0	146.3	166.7	231.2	394.8	1181.5	2400.8	3695.8	4632.8
60°	129.9	128.9	130.9	139.1	153.4	202.5	347.8	1054.6	2283.2	3807.3	4858.9
61°	123.8	124.8	128.9	134.0	145.3	182.1	313.0	924.7	2206.4	3901.4	5108.5
62°	124.8	122.8	124.8	128.9	137.1	167.8	274.1	796.9	2069.4	4007.8	5295.7
63°	118.7	117.6	120.7	125.8	129.9	151.4	239.4	688.4	1913.9	4032.3	5454.2
64°	116.6	115.6	116.6	123.8	124.8	142.2	211.7	588.2	1688.8	4074.3	5657.8
65°	111.5	111.5	113.5	116.6	120.7	134.0	189.2	510.4	1464.8	3963.8	5720.2
66°	107.4	108.4	108.4	113.5	116.6	124.8	173.9	433.7	1250.0	3787.9	5780.5
67°	104.3	104.3	105.4	109.5	112.5	117.6	156.5	375.4	1054.6	3578.2	5687.4
67.5°	102.3	103.3	103.3	107.4	110.5	117.6	149.3	356.0	943.1	3348.0	5617.9
68°	99.2	100.2	100.2	104.3	107.4	113.5	144.2	325.3	869.5	3198.7	5489.0
69°	97.2	96.2	96.2	100.2	104.3	108.4	134.0	284.4	691.5	2781.3	5300.8
70°	91.0	91.0	93.1	96.2	99.2	103.3	123.8	250.6	585.1	2302.6	4815.9
71°	88.0	86.9	88.0	91.0	94.1	99.2	113.5	222.0	478.7	1911.8	4339.2
72°	81.8	83.9	83.9	86.9	90.0	93.1	106.4	193.3	402.0	1528.2	3814.5
72.5°	80.8	80.8	81.8	84.9	86.9	92.1	102.3	185.1	367.2	1347.2	3594.5
73°	77.7	77.7	78.8	81.8	83.9	89.0	99.2	166.7	334.5	1198.9	3183.3
74°	74.7	73.7	73.7	77.7	78.8	83.9	93.1	147.3	280.3	903.2	2555.3
75°	69.6	69.6	70.6	72.6	73.7	77.7	85.9	130.9	236.3	700.7	1998.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	57.3	58.3	59.3	61.4	61.4	64.4	70.6	91.0	144.2	355.0	917.6
80°	41.9	44.0	47.1	50.1	49.1	49.1	55.2	65.5	85.9	159.6	351.9
82.5°	33.8	35.8	32.7	36.8	36.8	34.8	39.9	48.1	58.3	78.8	125.8
85°	22.5	23.5	19.4	22.5	21.5	21.5	26.6	28.6	35.8	44.0	62.4
87.5°	10.2	10.2	8.2	9.2	9.2	9.2	13.3	10.2	15.3	21.5	36.8
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°	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5	871.5
2.5°	873.6	877.7	877.7	873.6	870.5	873.6	871.5	866.4	871.5	873.6	874.6
5°	885.8	877.7	881.8	872.6	878.7	877.7	875.6	880.7	881.8	881.8	888.9
7.5°	899.1	909.4	896.1	897.1	900.2	887.9	892.0	894.0	889.9	898.1	904.3
10°	922.7	926.8	922.7	907.3	917.6	909.4	906.3	915.5	913.5	915.5	924.7
12.5°	944.2	951.3	940.1	939.0	933.9	926.8	930.9	929.8	944.2	946.2	957.5
15°	988.1	969.7	965.6	964.6	962.6	959.5	961.5	962.6	981.0	984.0	1010.6
17.5°	1026.0	1022.9	1000.4	1008.6	1008.6	996.3	991.2	1008.6	1022.9	1038.3	1056.7
20°	1064.9	1061.8	1037.2	1038.3	1029.1	1040.3	1034.2	1050.5	1075.1	1080.2	1096.6
22.5°	1110.9	1097.6	1080.2	1082.2	1085.3	1077.1	1073.0	1095.5	1120.1	1134.4	1135.4
25°	1183.5	1149.8	1135.4	1137.5	1133.4	1127.3	1130.3	1159.0	1171.2	1201.9	1195.8
27.5°	1222.4	1203.0	1192.7	1169.2	1170.2	1161.0	1173.3	1216.3	1240.8	1264.3	1217.3
30°	1269.4	1257.2	1212.2	1204.0	1203.0	1198.9	1221.4	1276.6	1313.4	1326.7	1259.2
32.5°	1361.5	1312.4	1301.2	1294.0	1277.6	1282.7	1294.0	1366.6	1424.9	1421.9	1298.1
35°	1466.9	1433.1	1401.4	1395.3	1393.2	1378.9	1398.3	1483.2	1528.2	1514.9	1312.4
37.5°	1635.6	1584.5	1541.5	1518.0	1513.9	1503.7	1549.7	1617.2	1675.5	1623.4	1323.7
40°	1718.5	1661.2	1621.3	1607.0	1610.1	1624.4	1669.4	1772.7	1798.3	1702.1	1332.9
42.5°	1837.2	1774.8	1696.0	1688.8	1679.6	1686.8	1773.7	1912.9	1934.3	1808.5	1298.1
45°	2047.9	1953.8	1862.7	1821.8	1823.9	1843.3	1978.3	2130.7	2090.8	1882.2	1242.8
47.5°	2313.8	2175.7	2102.1	2046.9	2073.5	2052.0	2266.8	2388.5	2252.5	1975.3	1175.3
50°	2713.8	2520.5	2420.2	2353.7	2365.0	2383.4	2601.3	2704.6	2431.5	2020.3	1072.0
52.5°	3218.1	2969.5	2822.2	2733.2	2741.4	2781.3	3062.6	3030.9	2636.1	2058.1	933.9
55°	3821.6	3565.9	3280.5	3243.7	3234.5	3329.6	3639.5	3372.6	2820.2	1997.8	790.7
56°	4140.8	3868.7	3572.0	3496.3	3473.8	3540.3	3904.5	3543.4	2883.6	1930.2	722.2
57°	4411.9	4152.0	3826.7	3697.9	3726.5	3851.3	4167.4	3704.0	2941.9	1860.7	657.7
58°	4784.2	4487.5	4143.8	4045.6	4020.1	4119.3	4450.7	3865.6	2961.4	1789.1	598.4
59°	5155.5	4799.5	4489.6	4310.6	4317.7	4498.8	4730.0	4057.9	2991.0	1698.0	522.7
60°	5437.8	5258.8	4844.5	4710.5	4692.1	4954.0	5008.2	4186.8	3022.7	1575.3	469.5
61°	5837.8	5604.6	5218.9	5046.1	5096.2	5305.9	5309.0	4348.4	2975.7	1419.8	404.1
62°	6125.2	6063.9	5658.8	5494.1	5478.8	5757.0	5622.0	4490.6	2934.8	1272.5	357.0
63°	6461.8	6461.8	6092.5	5963.6	5970.8	6190.7	5758.0	4632.8	2887.7	1109.9	314.0
64°	6636.7	6856.6	6516.0	6334.9	6382.0	6572.3	6000.4	4725.9	2742.4	945.2	276.2
65°	6788.1	7118.5	6929.3	6845.4	6773.8	6886.3	6210.1	4812.8	2520.5	804.0	245.5
66°	6916.0	7365.0	7302.6	7212.6	7205.4	7179.9	6251.1	4809.8	2291.3	679.2	214.8
67°	6851.5	7370.1	7483.7	7521.5	7510.3	7240.2	6179.5	4700.3	1997.8	573.9	191.3
67.5°	6793.2	7328.2	7592.1	7570.6	7617.7	7291.4	6191.7	4566.3	1789.1	519.6	180.0
68°	6742.1	7271.9	7636.1	7663.7	7640.2	7297.5	6124.2	4459.9	1646.9	487.9	169.8
69°	6354.4	7005.0	7565.5	7664.7	7604.4	7063.3	5909.4	4182.7	1308.3	416.3	156.5
70°	5965.7	6659.2	7222.8	7404.9	7330.2	6610.1	5638.3	3741.8	1079.2	356.0	141.2
71°	5427.6	6016.8	6766.6	6876.1	6786.0	6094.6	5077.8	3276.4	839.8	301.8	125.8
72°	4697.2	5197.5	5913.5	6178.4	6045.5	5352.9	4511.1	2707.7	680.2	253.7	114.6
72.5°	4335.1	4847.6	5538.1	5559.6	5585.1	5030.7	4270.7	2378.3	593.3	235.3	111.5
73°	3991.4	4493.7	5091.1	5166.8	5058.3	4487.5	3911.6	2126.6	542.1	214.8	107.4
74°	3234.5	3520.9	4016.0	4089.6	3994.5	3659.0	3196.6	1630.5	431.7	185.1	98.2
75°	2545.0	2702.6	3150.6	3105.6	2963.4	2845.8	2478.5	1245.9	349.8	162.6	91.0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1143.6	1238.8	1313.4	1313.4	1321.6	1261.3	1142.6	571.8	215.8	117.6	74.7
80°	435.8	487.9	504.3	505.3	512.5	530.9	494.1	281.3	127.9	83.9	60.4
82.5°	316.1	441.9	475.7	451.1	453.2	409.2	189.2	124.8	80.8	58.3	44.0
85°	286.4	384.6	407.1	404.1	405.1	378.5	111.5	61.4	47.1	36.8	30.7
87.5°	139.1	136.0	144.2	162.6	158.6	205.6	94.1	30.7	20.5	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676147

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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	871.5	871.5	871.5	871.5	871.5	871.5
2.5°	866.4	865.4	879.7	865.4	873.6	867.4
5°	876.6	880.7	883.8	889.9	875.6	889.9
7.5°	907.3	911.4	912.4	917.6	911.4	910.4
10°	930.9	941.1	947.2	926.8	939.0	938.0
12.5°	976.9	966.7	965.6	961.5	950.3	946.2
15°	1009.6	994.3	985.1	968.7	955.4	950.3
17.5°	1055.7	1026.0	988.1	954.4	930.9	912.4
20°	1084.3	1031.1	955.4	915.5	879.7	887.9
22.5°	1102.7	1026.0	925.7	874.6	838.8	849.0
25°	1108.8	1000.4	905.3	841.9	807.1	799.9
27.5°	1091.5	970.8	865.4	793.8	763.1	769.2
30°	1083.3	927.8	828.6	758.0	717.1	723.2
32.5°	1061.8	883.8	779.5	707.9	678.2	668.0
35°	1031.1	847.0	732.4	664.9	629.1	620.9
37.5°	993.3	800.9	691.5	609.7	577.9	571.8
40°	937.0	745.7	632.2	561.6	524.8	523.7
42.5°	887.9	692.5	576.9	504.3	467.5	469.5
45°	825.5	620.9	513.5	451.1	414.3	416.3
47.5°	745.7	554.4	453.2	383.6	352.9	350.9
50°	651.6	478.7	379.5	320.2	294.6	289.5
52.5°	561.6	402.0	311.0	257.8	236.3	234.2
55°	448.0	313.0	242.4	202.5	186.2	187.2
56°	407.1	288.5	221.0	185.1	172.9	172.9
57°	368.3	255.7	200.5	170.8	159.6	159.6
58°	325.3	225.0	182.1	154.5	149.3	145.3
59°	295.6	204.6	164.7	146.3	138.1	137.1
60°	260.8	184.1	153.4	137.1	130.9	129.9
61°	231.2	165.7	141.2	127.9	125.8	125.8
62°	206.6	153.4	130.9	123.8	122.8	119.7
63°	185.1	141.2	125.8	117.6	114.6	117.6
64°	165.7	129.9	121.7	115.6	111.5	113.5
65°	150.4	124.8	116.6	112.5	108.4	109.5
66°	140.1	116.6	112.5	107.4	105.4	106.4
67°	126.8	112.5	108.4	103.3	102.3	103.3
67.5°	122.8	109.5	106.4	101.3	100.2	101.3
68°	119.7	107.4	105.4	100.2	99.2	98.2
69°	111.5	103.3	100.2	98.2	96.2	95.1
70°	104.3	99.2	97.2	94.1	92.1	91.0
71°	100.2	94.1	93.1	90.0	88.0	86.9
72°	95.1	91.0	89.0	84.9	83.9	84.9
72.5°	94.1	89.0	88.0	83.9	82.9	82.9
73°	91.0	84.9	85.9	81.8	79.8	81.8
74°	84.9	82.9	80.8	77.7	76.7	76.7
75°	79.8	77.7	75.7	73.7	73.7	73.7



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	67.5	66.5	67.5	63.4	62.4	61.4
80°	54.2	54.2	55.2	52.2	50.1	49.1
82.5°	40.9	41.9	44.0	40.9	38.9	36.8
85°	26.6	27.6	27.6	24.6	28.6	26.6
87.5°	13.3	14.3	13.3	12.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)