

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: P676112

Luminaire Tested: **CCW-SA-1E-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676112
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

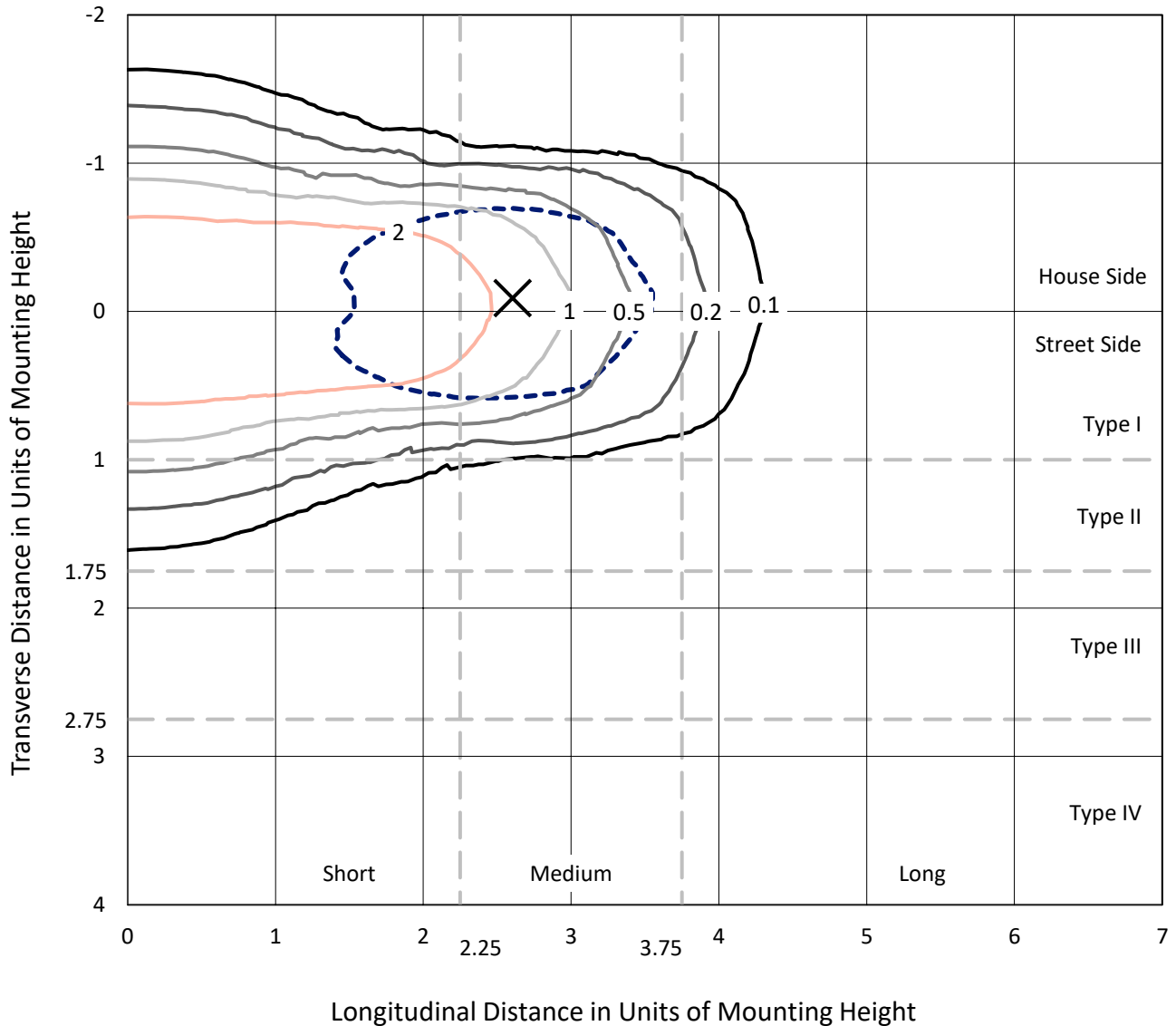
Lumens per Lamp: N/A
Luminaire Lumens: 6062.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 56.1
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

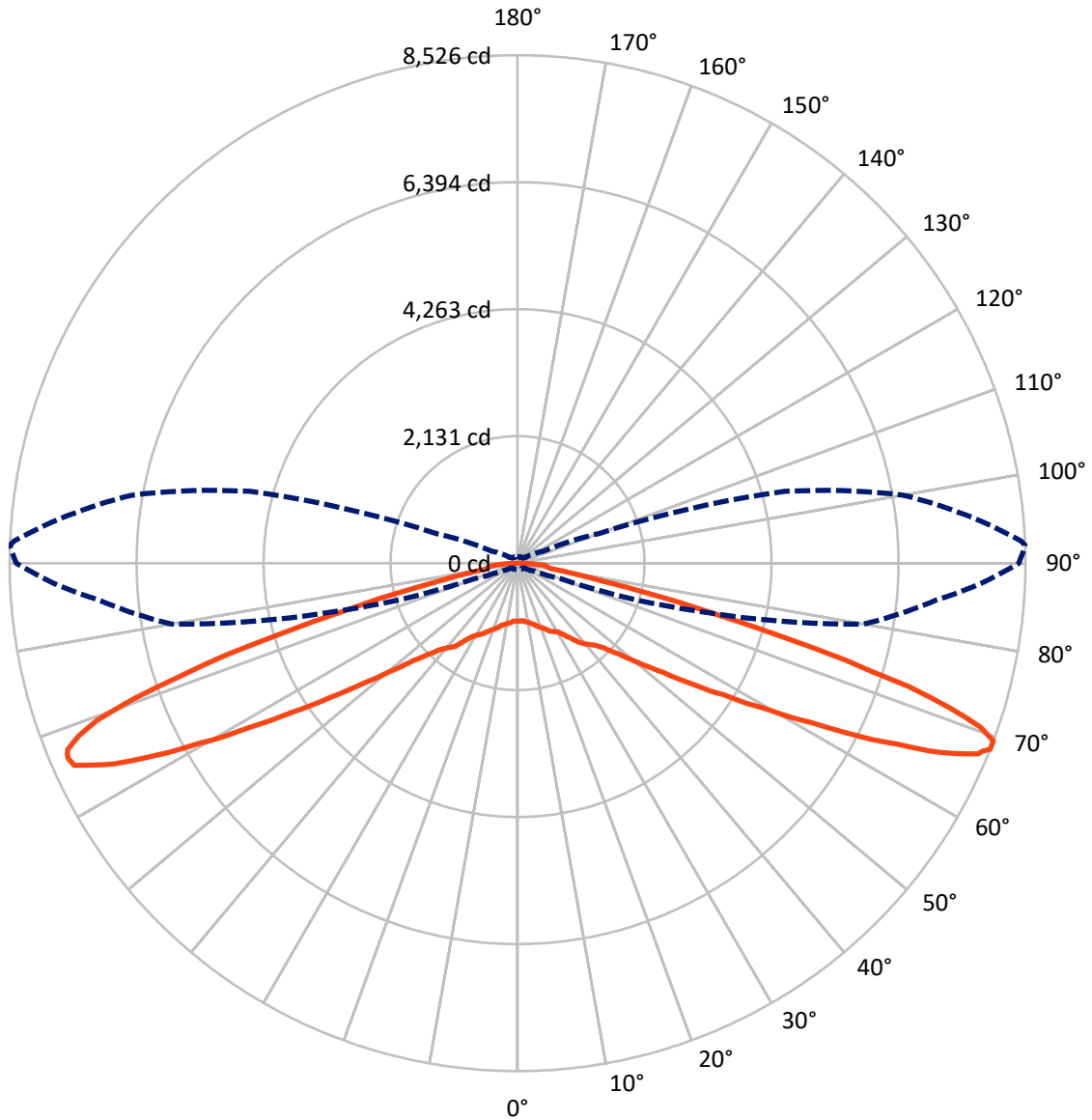
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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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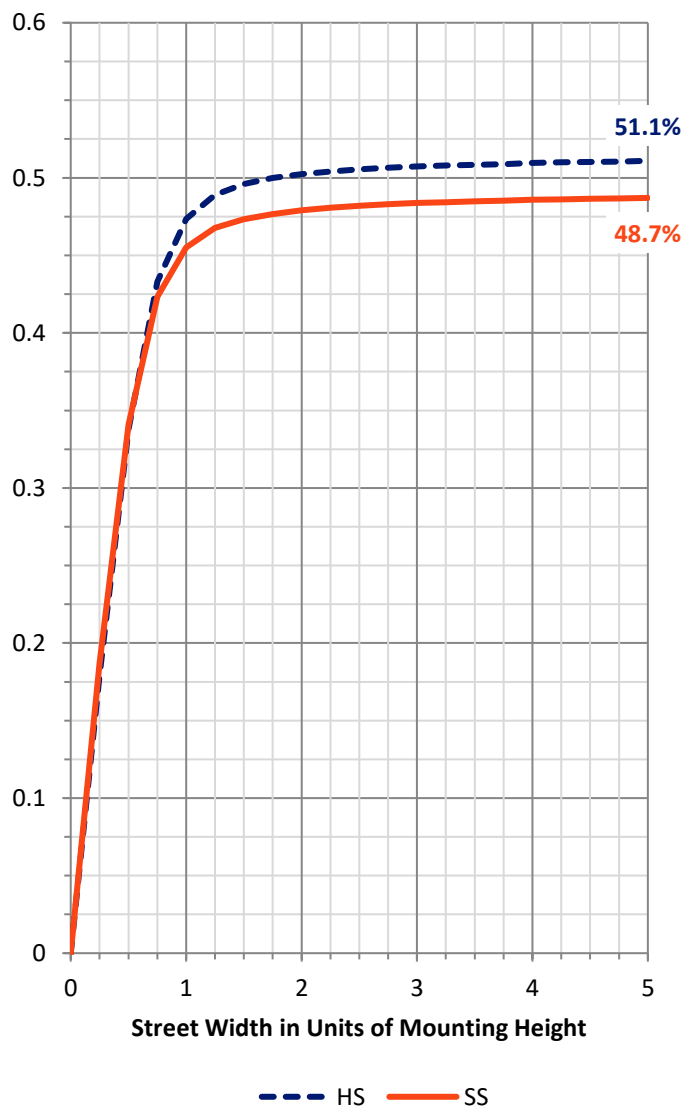
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3122.1	0.0	3122.1
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2940.4	0.0	2940.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	6062.6	0.0	6062.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.6
10°-20°	314.5	5.2
20°-30°	536.7	8.9
30°-40°	749.4	12.4
40°-50°	953.3	15.7
50°-60°	1205.3	19.9
60°-70°	1486.5	24.5
70°-80°	649.3	10.7
80°-90°	70.4	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°	6062.6	100.0
0°-180°	6062.6	100.0



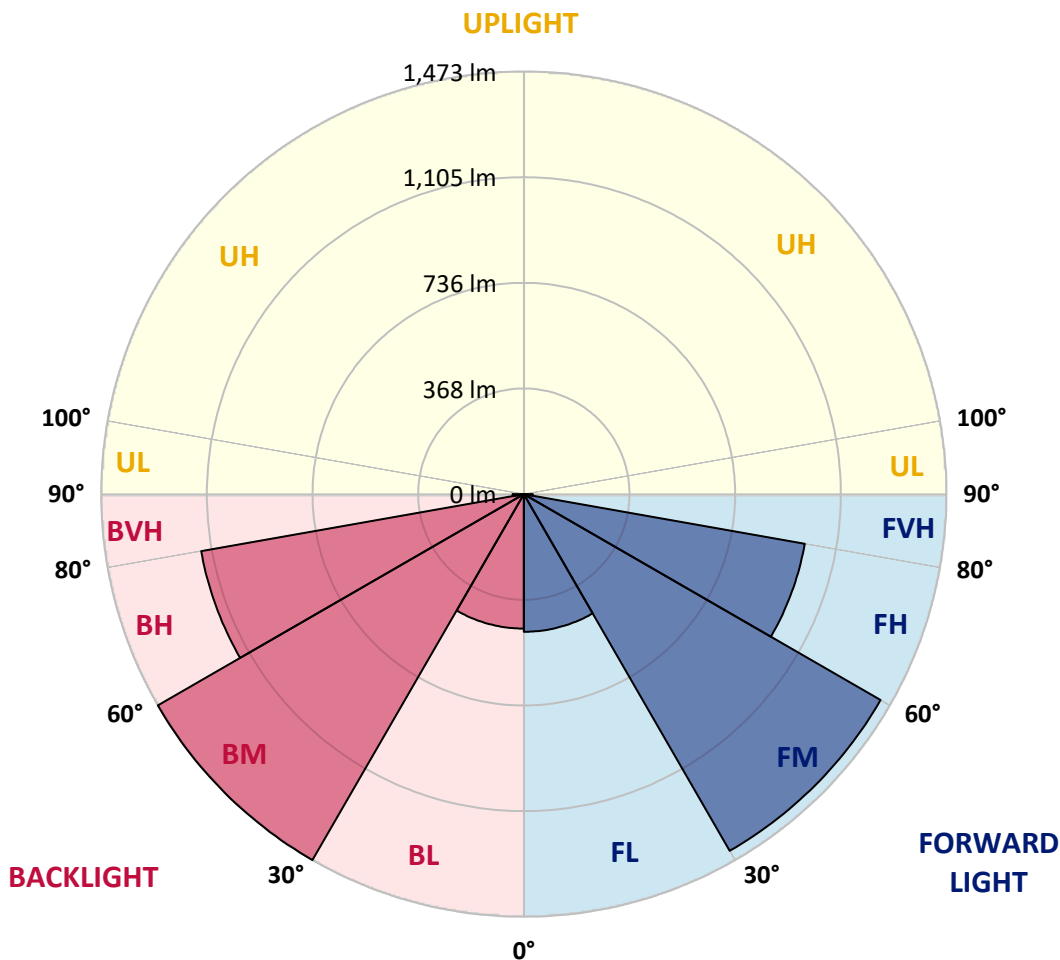
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.8	7.9			
FM (30°-60°)	1435.3	23.7			
FH (60°-80°)	994.1	16.4			G1/1800
FVH (80°-90°)	31.2	0.5			G1/100
BL (0°-30°)	468.5	7.7	B1/500		
BM (30°-60°)	1472.7	24.3	B2/2500		
BH (60°-80°)	1141.7	18.8	B3/2500		G3/2500
BVH (80°-90°)	39.2	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°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	989.9	988.8	992.2	994.5	984.2	987.7	985.4	983.1	975.1	971.7	964.9
5°	1017.2	1020.7	1032.0	1021.8	1026.3	1020.7	1002.4	1008.1	997.9	995.6	988.8
7.5°	1065.0	1058.2	1074.1	1062.8	1066.2	1054.8	1046.8	1036.6	1034.3	1018.4	1019.5
10°	1075.3	1088.9	1095.8	1093.5	1095.8	1101.4	1086.7	1070.7	1049.1	1044.6	1028.6
12.5°	1068.4	1081.0	1099.2	1114.0	1124.2	1126.5	1120.8	1117.4	1108.3	1082.1	1081.0
15°	1061.6	1052.5	1063.9	1115.1	1149.2	1172.0	1180.0	1160.6	1162.9	1128.8	1115.1
17.5°	1016.1	1002.4	1046.8	1096.9	1139.0	1189.1	1227.7	1222.1	1222.1	1194.7	1175.4
20°	955.8	978.6	1001.3	1065.0	1142.4	1217.5	1291.5	1288.1	1274.4	1266.4	1224.3
22.5°	904.6	914.8	956.9	1024.1	1120.8	1225.5	1313.1	1375.7	1343.8	1311.9	1286.9
25°	869.3	860.2	913.7	983.1	1100.3	1211.8	1354.0	1418.9	1436.0	1412.1	1364.3
27.5°	819.3	819.3	861.4	927.4	1034.3	1205.0	1393.9	1492.9	1517.9	1482.6	1413.2
30°	762.4	769.2	805.6	880.7	985.4	1154.9	1409.8	1578.2	1598.7	1568.0	1496.3
32.5°	718.0	718.0	758.9	838.6	951.2	1132.2	1399.6	1662.4	1701.1	1678.3	1604.4
35°	670.2	666.8	696.4	784.0	896.6	1087.8	1396.1	1729.5	1816.0	1817.2	1739.8
37.5°	601.9	615.6	653.1	722.5	853.4	1044.6	1385.9	1810.3	1965.1	1991.2	1937.8
40°	556.4	562.1	596.2	672.5	786.3	993.3	1371.1	1876.3	2064.1	2154.0	2080.0
42.5°	490.4	498.4	524.6	619.0	721.4	920.5	1306.3	1923.0	2205.2	2307.6	2245.0
45°	421.0	425.6	464.2	541.6	652.0	834.0	1236.8	1998.1	2341.7	2551.1	2514.7
47.5°	337.9	340.2	373.2	454.0	568.9	747.6	1129.9	1994.7	2452.1	2794.6	2897.0
50°	264.0	269.7	294.7	360.7	468.8	641.7	1005.9	1967.3	2590.9	3072.2	3273.6
52.5°	210.5	211.6	227.6	279.9	361.8	535.9	872.7	1880.9	2721.7	3344.2	3735.6
55°	174.1	174.1	183.2	215.1	277.6	407.4	716.8	1737.5	2737.7	3644.5	4239.6
56°	167.3	165.0	173.0	200.3	250.3	367.5	644.0	1640.8	2760.4	3783.4	4492.2
57°	158.2	159.3	163.9	183.2	225.3	325.4	563.2	1546.3	2744.5	3897.2	4678.9
58°	153.6	151.3	160.4	173.0	199.1	289.0	507.5	1434.8	2719.5	3990.5	4950.8
59°	146.8	145.6	151.3	162.7	185.5	257.2	439.2	1314.2	2670.5	4111.1	5153.3
60°	144.5	143.4	145.6	154.7	170.7	225.3	386.9	1173.1	2539.7	4235.1	5404.8
61°	137.7	138.8	143.4	149.1	161.6	202.5	348.2	1028.6	2454.4	4339.8	5682.4
62°	138.8	136.5	138.8	143.4	152.5	186.6	304.9	886.4	2301.9	4458.1	5890.7
63°	132.0	130.9	134.3	140.0	144.5	168.4	266.3	765.8	2128.9	4485.4	6067.0
64°	129.7	128.6	129.7	137.7	138.8	158.2	235.5	654.3	1878.6	4532.1	6293.5
65°	124.0	124.0	126.3	129.7	134.3	149.1	210.5	567.8	1629.4	4409.2	6362.9
66°	119.5	120.6	120.6	126.3	129.7	138.8	193.4	482.5	1390.5	4213.5	6430.0
67°	116.1	116.1	117.2	121.8	125.2	130.9	174.1	417.6	1173.1	3980.2	6326.5
67.5°	113.8	114.9	114.9	119.5	122.9	130.9	166.1	396.0	1049.1	3724.2	6249.1
68°	110.4	111.5	111.5	116.1	119.5	126.3	160.4	361.8	967.2	3558.1	6105.7
69°	108.1	107.0	107.0	111.5	116.1	120.6	149.1	316.3	769.2	3093.8	5896.4
70°	101.3	101.3	103.5	107.0	110.4	114.9	137.7	278.8	650.9	2561.3	5357.0
71°	97.9	96.7	97.9	101.3	104.7	110.4	126.3	246.9	532.5	2126.6	4826.8
72°	91.0	93.3	93.3	96.7	100.1	103.5	118.3	215.1	447.2	1700.0	4243.1
72.5°	89.9	89.9	91.0	94.4	96.7	102.4	113.8	206.0	408.5	1498.6	3998.4
73°	86.5	86.5	87.6	91.0	93.3	99.0	110.4	185.5	372.1	1333.6	3541.0
74°	83.1	81.9	81.9	86.5	87.6	93.3	103.5	163.9	311.8	1004.7	2842.4
75°	77.4	77.4	78.5	80.8	81.9	86.5	95.6	145.6	262.8	779.4	2223.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	63.7	64.9	66.0	68.3	68.3	71.7	78.5	101.3	160.4	394.8	1020.7
80°	46.7	48.9	52.3	55.8	54.6	54.6	61.4	72.8	95.6	177.5	391.4
82.5°	37.5	39.8	36.4	41.0	41.0	38.7	44.4	53.5	64.9	87.6	140.0
85°	25.0	26.2	21.6	25.0	23.9	23.9	29.6	31.9	39.8	48.9	69.4
87.5°	11.4	11.4	9.1	10.2	10.2	10.2	14.8	11.4	17.1	23.9	41.0
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°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	971.7	976.3	976.3	971.7	968.3	971.7	969.5	963.8	969.5	971.7	972.9
5°	985.4	976.3	980.8	970.6	977.4	976.3	974.0	979.7	980.8	980.8	988.8
7.5°	1000.2	1011.6	996.8	997.9	1001.3	987.7	992.2	994.5	989.9	999.0	1005.9
10°	1026.3	1030.9	1026.3	1009.3	1020.7	1011.6	1008.1	1018.4	1016.1	1018.4	1028.6
12.5°	1050.2	1058.2	1045.7	1044.6	1038.9	1030.9	1035.4	1034.3	1050.2	1052.5	1065.0
15°	1099.2	1078.7	1074.1	1073.0	1070.7	1067.3	1069.6	1070.7	1091.2	1094.6	1124.2
17.5°	1141.3	1137.9	1112.8	1121.9	1121.9	1108.3	1102.6	1121.9	1137.9	1154.9	1175.4
20°	1184.5	1181.1	1153.8	1154.9	1144.7	1157.2	1150.4	1168.6	1195.9	1201.6	1219.8
22.5°	1235.7	1220.9	1201.6	1203.8	1207.3	1198.2	1193.6	1218.6	1246.0	1261.9	1263.0
25°	1316.5	1278.9	1263.0	1265.3	1260.7	1253.9	1257.3	1289.2	1302.8	1337.0	1330.2
27.5°	1359.7	1338.1	1326.7	1300.6	1301.7	1291.5	1305.1	1352.9	1380.2	1406.4	1354.0
30°	1412.1	1398.4	1348.4	1339.3	1338.1	1333.6	1358.6	1420.0	1461.0	1475.8	1400.7
32.5°	1514.5	1459.9	1447.4	1439.4	1421.2	1426.9	1439.4	1520.2	1585.0	1581.6	1443.9
35°	1631.7	1594.1	1558.9	1552.0	1549.8	1533.8	1555.4	1649.9	1700.0	1685.2	1459.9
37.5°	1819.4	1762.5	1714.7	1688.6	1684.0	1672.6	1723.8	1798.9	1863.8	1805.8	1472.4
40°	1911.6	1847.9	1803.5	1787.6	1791.0	1806.9	1857.0	1971.9	2000.3	1893.4	1482.6
42.5°	2043.6	1974.2	1886.6	1878.6	1868.4	1876.3	1973.0	2127.8	2151.7	2011.7	1443.9
45°	2278.0	2173.3	2072.0	2026.5	2028.8	2050.4	2200.6	2370.2	2325.8	2093.7	1382.5
47.5°	2573.8	2420.2	2338.3	2276.8	2306.4	2282.5	2521.5	2656.9	2505.6	2197.2	1307.4
50°	3018.7	2803.7	2692.2	2618.2	2630.7	2651.2	2893.6	3008.5	2704.7	2247.3	1192.5
52.5°	3579.7	3303.2	3139.3	3040.3	3049.4	3093.8	3406.7	3371.5	2932.3	2289.4	1038.9
55°	4251.0	3966.6	3649.1	3608.1	3597.9	3703.7	4048.5	3751.5	3137.1	2222.2	879.6
56°	4606.0	4303.4	3973.4	3889.2	3864.2	3938.1	4343.2	3941.5	3207.6	2147.1	803.3
57°	4907.6	4618.6	4256.7	4113.3	4145.2	4284.0	4635.6	4120.2	3272.5	2069.8	731.6
58°	5321.7	4991.8	4609.4	4500.2	4471.8	4582.1	4950.8	4300.0	3294.1	1990.1	665.6
59°	5734.8	5338.8	4994.0	4794.9	4802.9	5004.3	5261.4	4513.9	3327.1	1888.8	581.4
60°	6048.8	5849.7	5388.9	5239.8	5219.3	5510.6	5570.9	4657.2	3362.4	1752.3	522.3
61°	6493.7	6234.3	5805.3	5613.0	5668.8	5902.0	5905.5	4837.0	3310.0	1579.3	449.5
62°	6813.5	6745.2	6294.6	6111.4	6094.3	6403.8	6253.6	4995.2	3264.5	1415.5	397.1
63°	7187.8	7187.8	6777.1	6633.7	6641.7	6886.3	6405.0	5153.3	3212.2	1234.6	349.3
64°	7382.4	7627.0	7248.1	7046.7	7099.1	7310.7	6674.7	5256.9	3050.6	1051.4	307.2
65°	7550.8	7918.3	7707.8	7614.5	7534.9	7660.0	6907.9	5353.6	2803.7	894.4	273.1
66°	7693.0	8192.6	8123.1	8023.0	8015.0	7986.6	6953.4	5350.2	2548.8	755.5	238.9
67°	7621.3	8198.2	8324.5	8366.6	8354.1	8053.7	6873.8	5228.4	2222.2	638.3	212.8
67.5°	7556.5	8151.6	8445.2	8421.3	8473.6	8110.6	6887.4	5079.4	1990.1	578.0	200.3
68°	7499.6	8089.0	8494.1	8524.8	8498.6	8117.5	6812.3	4961.0	1831.9	542.8	188.9
69°	7068.4	7792.0	8415.6	8525.9	8458.8	7856.9	6573.4	4652.7	1455.3	463.1	174.1
70°	6636.0	7407.4	8034.4	8236.9	8153.9	7352.8	6271.9	4162.3	1200.4	396.0	157.0
71°	6037.5	6692.9	7526.9	7648.7	7548.5	6779.3	5648.3	3644.5	934.2	335.7	140.0
72°	5225.0	5781.4	6577.9	6872.6	6724.7	5954.4	5017.9	3011.9	756.7	282.2	127.4
72.5°	4822.2	5392.3	6160.3	6184.2	6212.7	5596.0	4750.5	2645.5	660.0	261.7	124.0
73°	4439.9	4998.6	5663.1	5747.3	5626.7	4991.8	4351.2	2365.6	603.1	238.9	119.5
74°	3597.9	3916.5	4467.2	4549.1	4443.3	4070.1	3555.8	1813.7	480.2	206.0	109.2
75°	2831.0	3006.2	3504.6	3454.5	3296.4	3165.5	2757.0	1385.9	389.1	180.9	101.3



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1272.1	1377.9	1461.0	1461.0	1470.1	1403.0	1271.0	636.1	240.1	130.9	83.1
80°	484.7	542.8	561.0	562.1	570.1	590.5	549.6	312.9	142.2	93.3	67.1
82.5°	351.6	491.6	529.1	501.8	504.1	455.1	210.5	138.8	89.9	64.9	48.9
85°	318.6	427.8	452.9	449.5	450.6	421.0	124.0	68.3	52.3	41.0	34.1
87.5°	154.7	151.3	160.4	180.9	176.4	228.7	104.7	34.1	22.8	17.1	17.1
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: P676112

CATALOG NUMBER: CCW-SA-1E-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	963.8	962.6	978.6	962.6	971.7	964.9
5°	975.1	979.7	983.1	989.9	974.0	989.9
7.5°	1009.3	1013.8	1015.0	1020.7	1013.8	1012.7
10°	1035.4	1046.8	1053.7	1030.9	1044.6	1043.4
12.5°	1086.7	1075.3	1074.1	1069.6	1057.1	1052.5
15°	1123.1	1106.0	1095.8	1077.5	1062.8	1057.1
17.5°	1174.3	1141.3	1099.2	1061.6	1035.4	1015.0
20°	1206.1	1147.0	1062.8	1018.4	978.6	987.7
22.5°	1226.6	1141.3	1029.8	972.9	933.0	944.4
25°	1233.4	1112.8	1007.0	936.5	897.8	889.8
27.5°	1214.1	1079.8	962.6	883.0	848.8	855.7
30°	1205.0	1032.0	921.7	843.1	797.6	804.5
32.5°	1181.1	983.1	867.0	787.4	754.4	743.0
35°	1147.0	942.1	814.7	739.6	699.8	690.7
37.5°	1104.9	890.9	769.2	678.2	642.9	636.1
40°	1042.3	829.5	703.2	624.7	583.7	582.6
42.5°	987.7	770.3	641.7	561.0	520.0	522.3
45°	918.2	690.7	571.2	501.8	460.8	463.1
47.5°	829.5	616.7	504.1	426.7	392.6	390.3
50°	724.8	532.5	422.1	356.1	327.7	322.0
52.5°	624.7	447.2	345.9	286.7	262.8	260.6
55°	498.4	348.2	269.7	225.3	207.1	208.2
56°	452.9	320.9	245.8	206.0	192.3	192.3
57°	409.6	284.5	223.0	190.0	177.5	177.5
58°	361.8	250.3	202.5	171.8	166.1	161.6
59°	328.8	227.6	183.2	162.7	153.6	152.5
60°	290.2	204.8	170.7	152.5	145.6	144.5
61°	257.2	184.3	157.0	142.2	140.0	140.0
62°	229.8	170.7	145.6	137.7	136.5	133.1
63°	206.0	157.0	140.0	130.9	127.4	130.9
64°	184.3	144.5	135.4	128.6	124.0	126.3
65°	167.3	138.8	129.7	125.2	120.6	121.8
66°	155.9	129.7	125.2	119.5	117.2	118.3
67°	141.1	125.2	120.6	114.9	113.8	114.9
67.5°	136.5	121.8	118.3	112.6	111.5	112.6
68°	133.1	119.5	117.2	111.5	110.4	109.2
69°	124.0	114.9	111.5	109.2	107.0	105.8
70°	116.1	110.4	108.1	104.7	102.4	101.3
71°	111.5	104.7	103.5	100.1	97.9	96.7
72°	105.8	101.3	99.0	94.4	93.3	94.4
72.5°	104.7	99.0	97.9	93.3	92.2	92.2
73°	101.3	94.4	95.6	91.0	88.8	91.0
74°	94.4	92.2	89.9	86.5	85.3	85.3
75°	88.8	86.5	84.2	81.9	81.9	81.9



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	135°	145°	155°	165°	175°	180°
77.5°	75.1	74.0	75.1	70.5	69.4	68.3
80°	60.3	60.3	61.4	58.0	55.8	54.6
82.5°	45.5	46.7	48.9	45.5	43.2	41.0
85°	29.6	30.7	30.7	27.3	31.9	29.6
87.5°	14.8	15.9	14.8	13.7	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)