

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: P676091

Luminaire Tested: **CCW-SA-1F-722-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676091
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T1 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

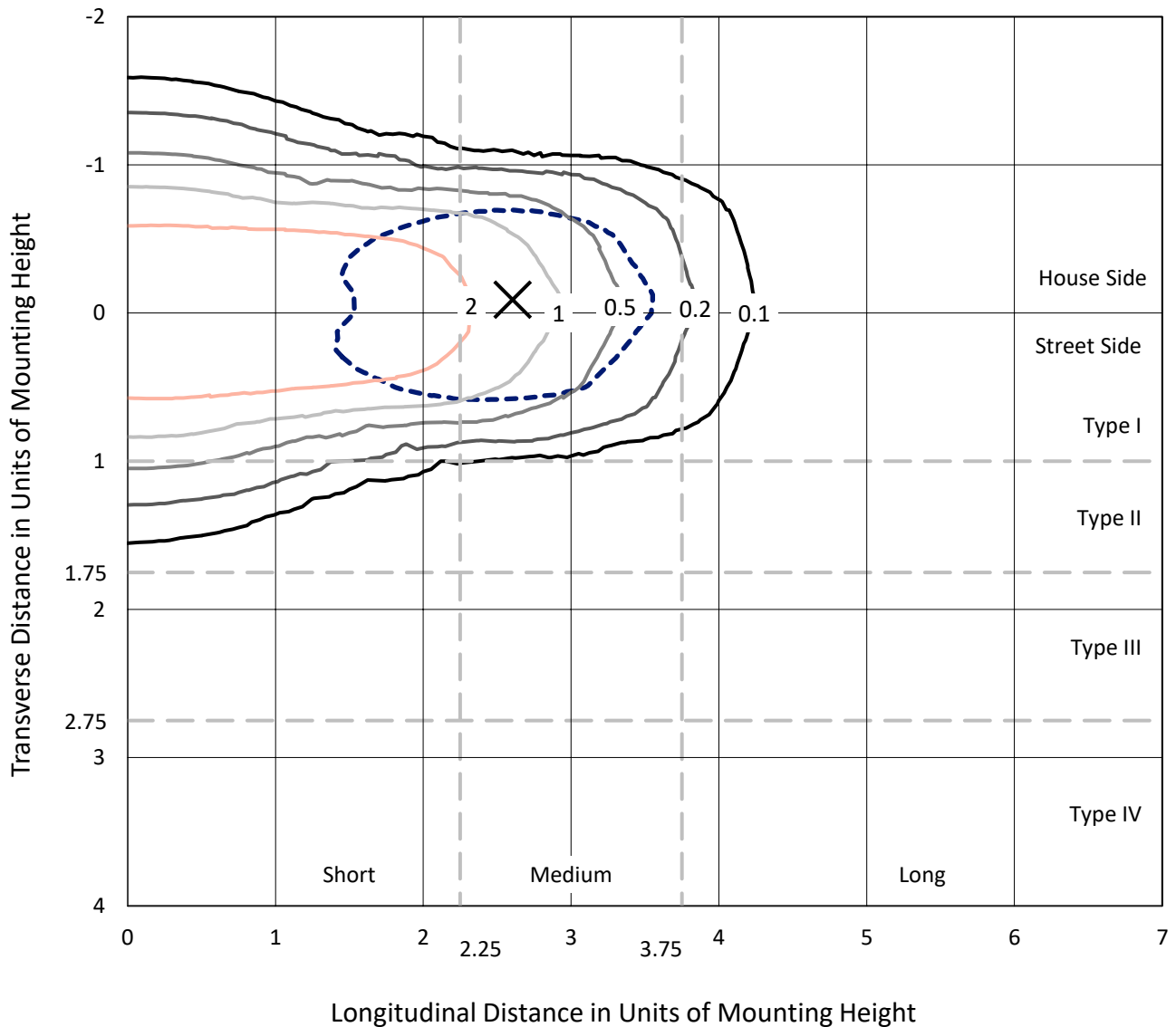
Lumens per Lamp: N/A
Luminaire Lumens: 5378 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
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

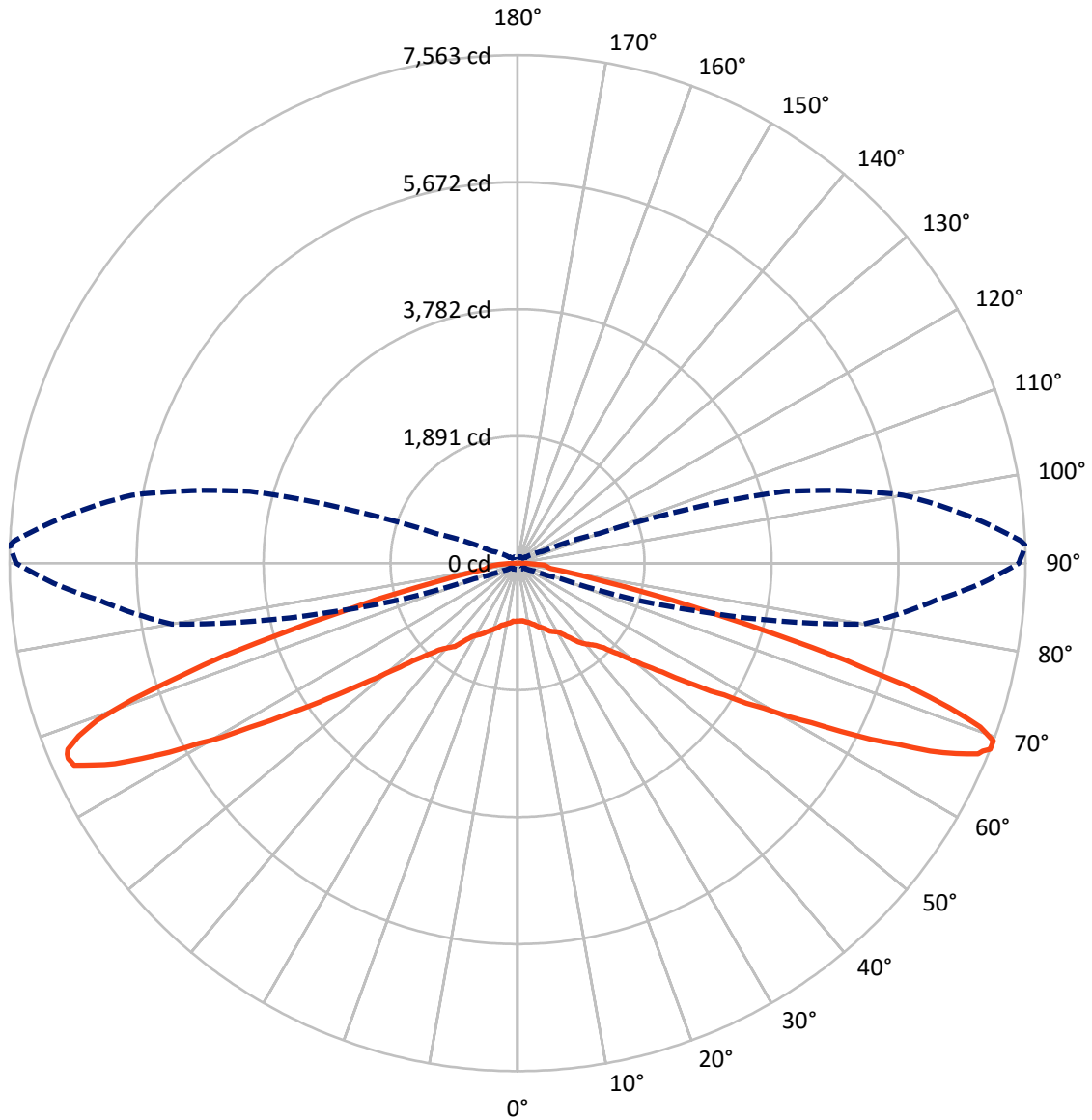
× Max cd
 - - - 1/2 Max cd



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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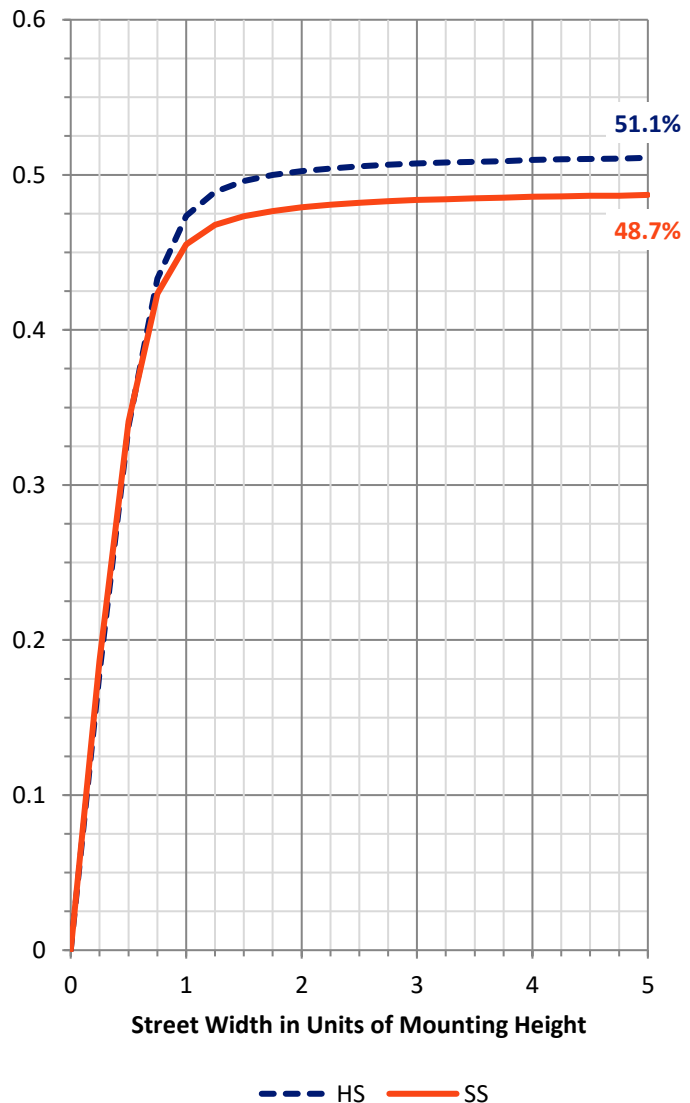
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2769.6	0.0	2769.6
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2608.4	0.0	2608.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	5378.0	0.0	5378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	1.6
10°-20°	279.0	5.2
20°-30°	476.1	8.9
30°-40°	664.8	12.4
40°-50°	845.6	15.7
50°-60°	1069.2	19.9
60°-70°	1318.6	24.5
70°-80°	576.0	10.7
80°-90°	62.5	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°	5378.0	100.0
0°-180°	5378.0	100.0



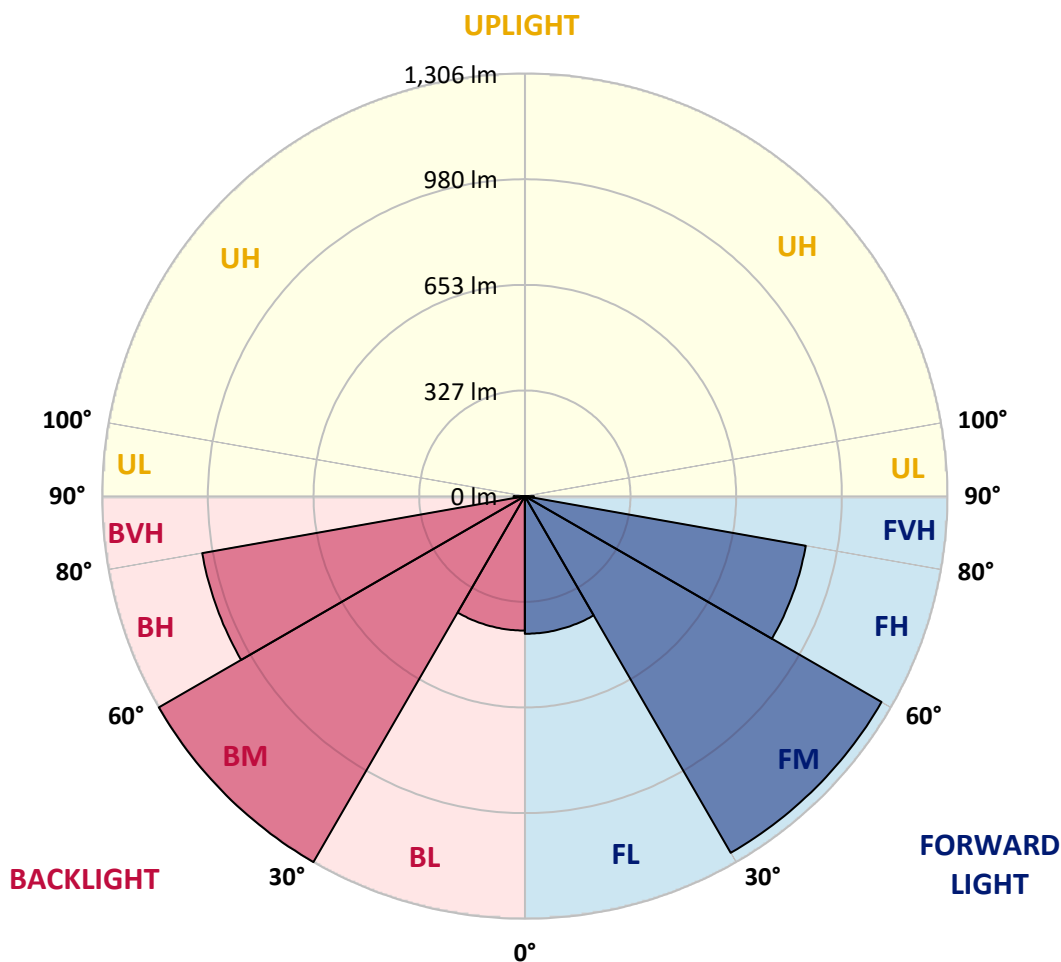
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.6	7.9			
FM (30°-60°)	1273.2	23.7			
FH (60°-80°)	881.9	16.4			G1/1800
FVH (80°-90°)	27.7	0.5			G1/100
BL (0°-30°)	415.6	7.7	B1/500		
BM (30°-60°)	1306.4	24.3	B2/2500		
BH (60°-80°)	1012.8	18.8	B3/2500		G3/2500
BVH (80°-90°)	34.8	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°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	878.2	877.1	880.2	882.2	873.1	876.1	874.1	872.1	865.0	862.0	855.9
5°	902.4	905.4	915.5	906.4	910.5	905.4	889.3	894.3	885.2	883.2	877.1
7.5°	944.8	938.7	952.8	942.8	945.8	935.7	928.6	919.5	917.5	903.4	904.4
10°	953.9	966.0	972.0	970.0	972.0	977.1	963.9	949.8	930.6	926.6	912.5
12.5°	947.8	958.9	975.1	988.2	997.3	999.3	994.2	991.2	983.1	959.9	958.9
15°	941.7	933.7	943.8	989.2	1019.5	1039.6	1046.7	1029.6	1031.6	1001.3	989.2
17.5°	901.4	889.3	928.6	973.0	1010.4	1054.8	1089.1	1084.1	1084.1	1059.8	1042.7
20°	847.9	868.1	888.2	944.8	1013.4	1080.0	1145.6	1142.6	1130.5	1123.4	1086.1
22.5°	802.4	811.5	848.9	908.4	994.2	1087.1	1164.8	1220.3	1192.1	1163.8	1141.6
25°	771.2	763.1	810.5	872.1	976.1	1075.0	1201.1	1258.7	1273.8	1252.6	1210.2
27.5°	726.7	726.7	764.1	822.6	917.5	1068.9	1236.5	1324.3	1346.5	1315.2	1253.6
30°	676.3	682.3	714.6	781.3	874.1	1024.5	1250.6	1400.0	1418.2	1390.9	1327.3
32.5°	636.9	636.9	673.2	743.9	843.8	1004.3	1241.5	1474.7	1509.0	1488.8	1423.2
35°	594.5	591.5	617.7	695.5	795.4	965.0	1238.5	1534.2	1611.0	1612.0	1543.3
37.5°	534.0	546.1	579.4	640.9	757.0	926.6	1229.4	1605.9	1743.2	1766.4	1719.0
40°	493.6	498.6	528.9	596.5	697.5	881.2	1216.3	1664.4	1831.0	1910.7	1845.1
42.5°	435.0	442.1	465.3	549.1	639.9	816.6	1158.8	1705.8	1956.2	2047.0	1991.5
45°	373.5	377.5	411.8	480.5	578.4	739.9	1097.2	1772.5	2077.3	2263.0	2230.7
47.5°	299.8	301.8	331.1	402.7	504.7	663.2	1002.3	1769.4	2175.2	2479.0	2569.9
50°	234.2	239.2	261.4	320.0	415.9	569.3	892.3	1745.2	2298.3	2725.3	2904.0
52.5°	186.7	187.7	201.9	248.3	321.0	475.4	774.2	1668.5	2414.4	2966.5	3313.8
55°	154.4	154.4	162.5	190.8	246.3	361.4	635.9	1541.3	2428.5	3233.0	3760.9
56°	148.4	146.4	153.4	177.6	222.1	326.0	571.3	1455.5	2448.7	3356.2	3985.0
57°	140.3	141.3	145.3	162.5	199.9	288.7	499.6	1371.7	2434.6	3457.1	4150.5
58°	136.3	134.2	142.3	153.4	176.6	256.4	450.2	1272.8	2412.4	3539.9	4391.8
59°	130.2	129.2	134.2	144.3	164.5	228.1	389.6	1165.8	2369.0	3646.8	4571.4
60°	128.2	127.2	129.2	137.3	151.4	199.9	343.2	1040.7	2252.9	3756.9	4794.5
61°	122.1	123.1	127.2	132.2	143.3	179.7	308.9	912.5	2177.2	3849.7	5040.8
62°	123.1	121.1	123.1	127.2	135.3	165.5	270.5	786.3	2042.0	3954.7	5225.5
63°	117.1	116.1	119.1	124.2	128.2	149.4	236.2	679.3	1888.5	3978.9	5382.0
64°	115.1	114.1	115.1	122.1	123.1	140.3	208.9	580.4	1666.5	4020.3	5582.8
65°	110.0	110.0	112.0	115.1	119.1	132.2	186.7	503.7	1445.4	3911.3	5644.4
66°	106.0	107.0	107.0	112.0	115.1	123.1	171.6	428.0	1233.4	3737.7	5703.9
67°	103.0	103.0	104.0	108.0	111.0	116.1	154.4	370.4	1040.7	3530.8	5612.1
67.5°	100.9	101.9	101.9	106.0	109.0	116.1	147.4	351.3	930.6	3303.7	5543.5
68°	97.9	98.9	98.9	103.0	106.0	112.0	142.3	321.0	858.0	3156.3	5416.3
69°	95.9	94.9	94.9	98.9	103.0	107.0	132.2	280.6	682.3	2744.5	5230.5
70°	89.8	89.8	91.9	94.9	97.9	101.9	122.1	247.3	577.4	2272.1	4752.1
71°	86.8	85.8	86.8	89.8	92.9	97.9	112.0	219.0	472.4	1886.5	4281.7
72°	80.7	82.8	82.8	85.8	88.8	91.9	105.0	190.8	396.7	1508.0	3763.9
72.5°	79.7	79.7	80.7	83.8	85.8	90.8	100.9	182.7	362.4	1329.3	3546.9
73°	76.7	76.7	77.7	80.7	82.8	87.8	97.9	164.5	330.1	1183.0	3141.2
74°	73.7	72.7	72.7	76.7	77.7	82.8	91.9	145.3	276.6	891.3	2521.4
75°	68.6	68.6	69.6	71.7	72.7	76.7	84.8	129.2	233.2	691.4	1972.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	56.5	57.5	58.5	60.6	60.6	63.6	69.6	89.8	142.3	350.3	905.4
80°	41.4	43.4	46.4	49.5	48.4	48.4	54.5	64.6	84.8	157.5	347.2
82.5°	33.3	35.3	32.3	36.3	36.3	34.3	39.4	47.4	57.5	77.7	124.2
85°	22.2	23.2	19.2	22.2	21.2	21.2	26.2	28.3	35.3	43.4	61.6
87.5°	10.1	10.1	8.1	9.1	9.1	9.1	13.1	10.1	15.1	21.2	36.3
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°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	862.0	866.0	866.0	862.0	859.0	862.0	860.0	854.9	860.0	862.0	863.0
5°	874.1	866.0	870.1	861.0	867.0	866.0	864.0	869.1	870.1	870.1	877.1
7.5°	887.2	897.3	884.2	885.2	888.2	876.1	880.2	882.2	878.2	886.2	892.3
10°	910.5	914.5	910.5	895.3	905.4	897.3	894.3	903.4	901.4	903.4	912.5
12.5°	931.6	938.7	927.6	926.6	921.6	914.5	918.5	917.5	931.6	933.7	944.8
15°	975.1	956.9	952.8	951.8	949.8	946.8	948.8	949.8	968.0	971.0	997.3
17.5°	1012.4	1009.4	987.2	995.2	995.2	983.1	978.1	995.2	1009.4	1024.5	1042.7
20°	1050.8	1047.7	1023.5	1024.5	1015.4	1026.5	1020.5	1036.6	1060.8	1065.9	1082.0
22.5°	1096.2	1083.1	1065.9	1067.9	1070.9	1062.9	1058.8	1081.0	1105.3	1119.4	1120.4
25°	1167.8	1134.5	1120.4	1122.4	1118.4	1112.3	1115.4	1143.6	1155.7	1186.0	1180.0
27.5°	1206.2	1187.0	1176.9	1153.7	1154.7	1145.6	1157.7	1200.1	1224.4	1247.6	1201.1
30°	1252.6	1240.5	1196.1	1188.0	1187.0	1183.0	1205.2	1259.7	1296.0	1309.2	1242.5
32.5°	1343.5	1295.0	1283.9	1276.9	1260.7	1265.7	1276.9	1348.5	1406.1	1403.0	1280.9
35°	1447.4	1414.1	1382.8	1376.8	1374.8	1360.6	1379.8	1463.6	1508.0	1494.9	1295.0
37.5°	1614.0	1563.5	1521.1	1497.9	1493.9	1483.8	1529.2	1595.8	1653.3	1601.9	1306.1
40°	1695.7	1639.2	1599.8	1585.7	1588.7	1602.9	1647.3	1749.2	1774.5	1679.6	1315.2
42.5°	1812.8	1751.3	1673.5	1666.5	1657.4	1664.4	1750.2	1887.5	1908.7	1784.6	1280.9
45°	2020.8	1927.9	1838.1	1797.7	1799.7	1818.9	1952.1	2102.5	2063.1	1857.2	1226.4
47.5°	2283.2	2146.9	2074.3	2019.7	2046.0	2024.8	2236.8	2356.9	2222.6	1949.1	1159.8
50°	2677.9	2487.1	2388.2	2322.6	2333.7	2351.8	2566.8	2668.8	2399.3	1993.5	1057.8
52.5°	3175.5	2930.2	2784.8	2697.0	2705.1	2744.5	3022.0	2990.8	2601.1	2030.8	921.6
55°	3771.0	3518.7	3237.0	3200.7	3191.6	3285.5	3591.3	3327.9	2782.8	1971.3	780.2
56°	4085.9	3817.4	3524.7	3450.0	3427.8	3493.4	3852.8	3496.5	2845.4	1904.7	712.6
57°	4353.4	4097.0	3776.0	3648.9	3677.1	3800.3	4112.2	3654.9	2902.9	1836.0	649.0
58°	4720.8	4428.1	4089.0	3992.1	3966.8	4064.7	4391.8	3814.4	2922.1	1765.4	590.5
59°	5087.2	4736.0	4430.1	4253.5	4260.5	4439.2	4667.3	4004.2	2951.4	1675.6	515.8
60°	5365.8	5189.2	4780.4	4648.1	4630.0	4888.4	4941.9	4131.3	2982.7	1554.4	463.3
61°	5760.5	5530.3	5149.8	4979.2	5028.7	5235.6	5238.6	4290.8	2936.3	1401.0	398.7
62°	6044.1	5983.5	5583.8	5421.3	5406.2	5680.7	5547.5	4431.1	2895.9	1255.7	352.3
63°	6376.2	6376.2	6011.8	5884.6	5891.7	6108.7	5681.7	4571.4	2849.4	1095.2	309.9
64°	6548.8	6765.8	6429.7	6251.0	6297.5	6485.2	5921.0	4663.3	2706.1	932.7	272.5
65°	6698.2	7024.2	6837.5	6754.7	6684.0	6795.1	6127.9	4749.1	2487.1	793.4	242.2
66°	6824.3	7267.5	7205.9	7117.1	7110.0	7084.8	6168.3	4746.1	2261.0	670.2	212.0
67°	6760.8	7272.5	7384.5	7421.9	7410.8	7144.3	6097.6	4638.0	1971.3	566.3	188.8
67.5°	6703.2	7231.1	7491.5	7470.3	7516.8	7194.8	6109.7	4505.8	1765.4	512.8	177.6
68°	6652.7	7175.6	7534.9	7562.2	7539.0	7200.8	6043.1	4400.8	1625.1	481.5	167.6
69°	6270.2	6912.2	7465.3	7563.2	7503.6	6969.7	5831.1	4127.3	1291.0	410.8	154.4
70°	5886.6	6571.0	7127.2	7306.8	7233.1	6522.5	5563.6	3692.3	1064.9	351.3	139.3
71°	5355.7	5937.1	6677.0	6785.0	6696.2	6013.8	5010.5	3233.0	828.7	297.8	124.2
72°	4635.0	5128.6	5835.2	6096.6	5965.4	5282.0	4451.3	2671.8	671.2	250.3	113.0
72.5°	4277.7	4783.4	5464.7	5485.9	5511.2	4964.1	4214.1	2346.8	585.4	232.2	110.0
73°	3938.6	4434.2	5023.6	5098.3	4991.3	4428.1	3859.8	2098.5	535.0	212.0	106.0
74°	3191.6	3474.2	3962.8	4035.5	3941.6	3610.5	3154.3	1608.9	426.0	182.7	96.9
75°	2511.3	2666.8	3108.9	3064.4	2924.1	2808.1	2445.7	1229.4	345.2	160.5	89.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1128.5	1222.3	1296.0	1296.0	1304.1	1244.6	1127.5	564.2	213.0	116.1	73.7
80°	430.0	481.5	497.6	498.6	505.7	523.9	487.5	277.6	126.2	82.8	59.6
82.5°	311.9	436.0	469.4	445.1	447.2	403.7	186.7	123.1	79.7	57.5	43.4
85°	282.6	379.5	401.7	398.7	399.7	373.5	110.0	60.6	46.4	36.3	30.3
87.5°	137.3	134.2	142.3	160.5	156.5	202.9	92.9	30.3	20.2	15.1	15.1
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: P676091

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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	854.9	853.9	868.1	853.9	862.0	855.9
5°	865.0	869.1	872.1	878.2	864.0	878.2
7.5°	895.3	899.3	900.4	905.4	899.3	898.3
10°	918.5	928.6	934.7	914.5	926.6	925.6
12.5°	963.9	953.9	952.8	948.8	937.7	933.7
15°	996.2	981.1	972.0	955.9	942.8	937.7
17.5°	1041.7	1012.4	975.1	941.7	918.5	900.4
20°	1069.9	1017.4	942.8	903.4	868.1	876.1
22.5°	1088.1	1012.4	913.5	863.0	827.7	837.8
25°	1094.2	987.2	893.3	830.7	796.4	789.3
27.5°	1077.0	957.9	853.9	783.3	753.0	759.0
30°	1068.9	915.5	817.6	747.9	707.6	713.6
32.5°	1047.7	872.1	769.1	698.5	669.2	659.1
35°	1017.4	835.8	722.7	656.1	620.8	612.7
37.5°	980.1	790.3	682.3	601.6	570.3	564.2
40°	924.6	735.8	623.8	554.1	517.8	516.8
42.5°	876.1	683.3	569.3	497.6	461.3	463.3
45°	814.6	612.7	506.7	445.1	408.8	410.8
47.5°	735.8	547.1	447.2	378.5	348.2	346.2
50°	643.0	472.4	374.5	315.9	290.7	285.7
52.5°	554.1	396.7	306.8	254.4	233.2	231.1
55°	442.1	308.9	239.2	199.9	183.7	184.7
56°	401.7	284.6	218.0	182.7	170.6	170.6
57°	363.4	252.3	197.8	168.6	157.5	157.5
58°	321.0	222.1	179.7	152.4	147.4	143.3
59°	291.7	201.9	162.5	144.3	136.3	135.3
60°	257.4	181.7	151.4	135.3	129.2	128.2
61°	228.1	163.5	139.3	126.2	124.2	124.2
62°	203.9	151.4	129.2	122.1	121.1	118.1
63°	182.7	139.3	124.2	116.1	113.0	116.1
64°	163.5	128.2	120.1	114.1	110.0	112.0
65°	148.4	123.1	115.1	111.0	107.0	108.0
66°	138.3	115.1	111.0	106.0	104.0	105.0
67°	125.2	111.0	107.0	101.9	100.9	101.9
67.5°	121.1	108.0	105.0	99.9	98.9	99.9
68°	118.1	106.0	104.0	98.9	97.9	96.9
69°	110.0	101.9	98.9	96.9	94.9	93.9
70°	103.0	97.9	95.9	92.9	90.8	89.8
71°	98.9	92.9	91.9	88.8	86.8	85.8
72°	93.9	89.8	87.8	83.8	82.8	83.8
72.5°	92.9	87.8	86.8	82.8	81.8	81.8
73°	89.8	83.8	84.8	80.7	78.7	80.7
74°	83.8	81.8	79.7	76.7	75.7	75.7
75°	78.7	76.7	74.7	72.7	72.7	72.7



REPORT NUMBER: P676091
CATALOG NUMBER: CCW-SA-1F-722-U-T1

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	135°	145°	155°	165°	175°	180°
77.5°	66.6	65.6	66.6	62.6	61.6	60.6
80°	53.5	53.5	54.5	51.5	49.5	48.4
82.5°	40.4	41.4	43.4	40.4	38.4	36.3
85°	26.2	27.3	27.3	24.2	28.3	26.2
87.5°	13.1	14.1	13.1	12.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)