

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: P676121

Luminaire Tested: **CCW-SA-1C-735-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676121
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-735-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

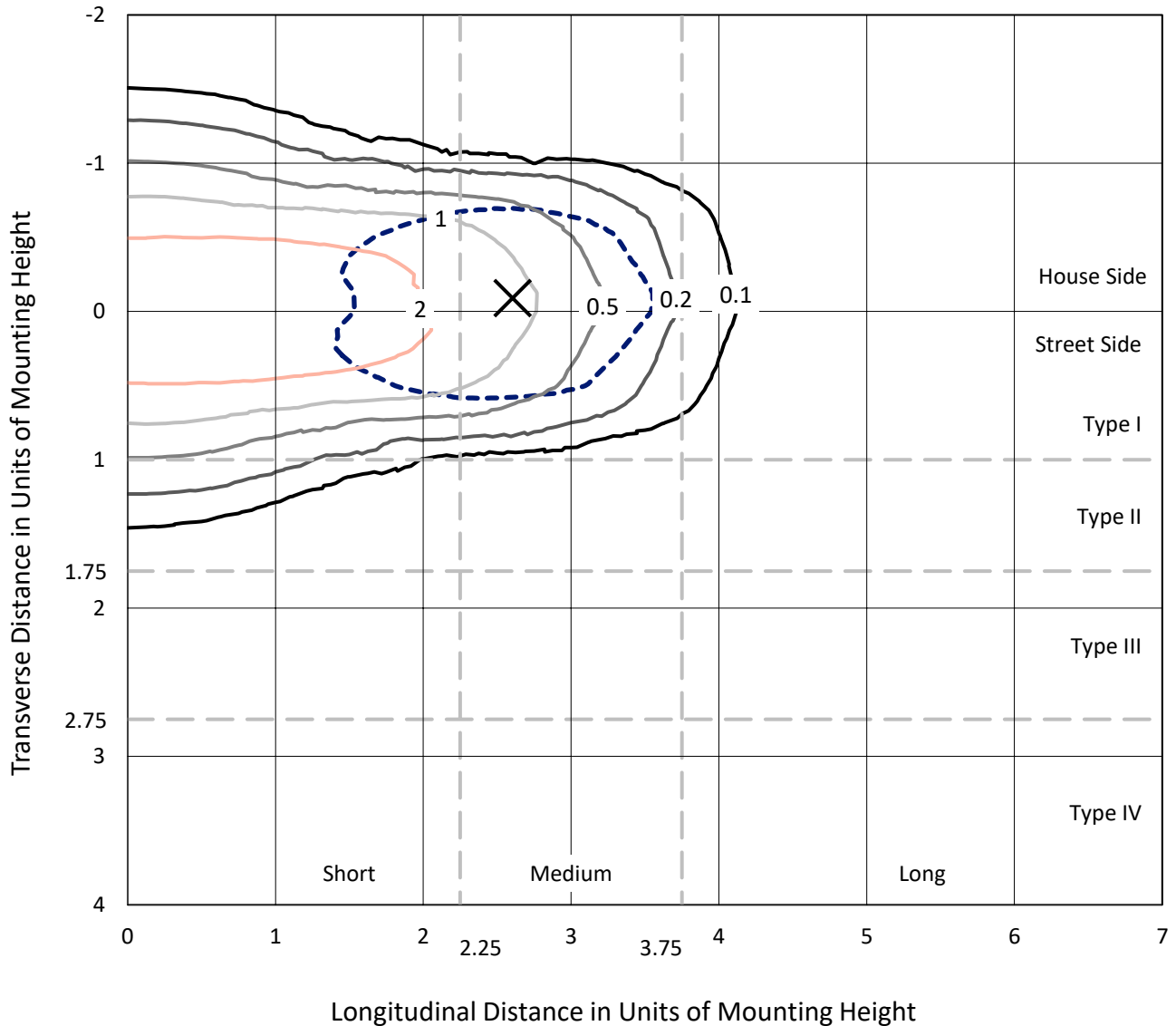
Lumens per Lamp: N/A
Luminaire Lumens: 4342.4 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 32
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

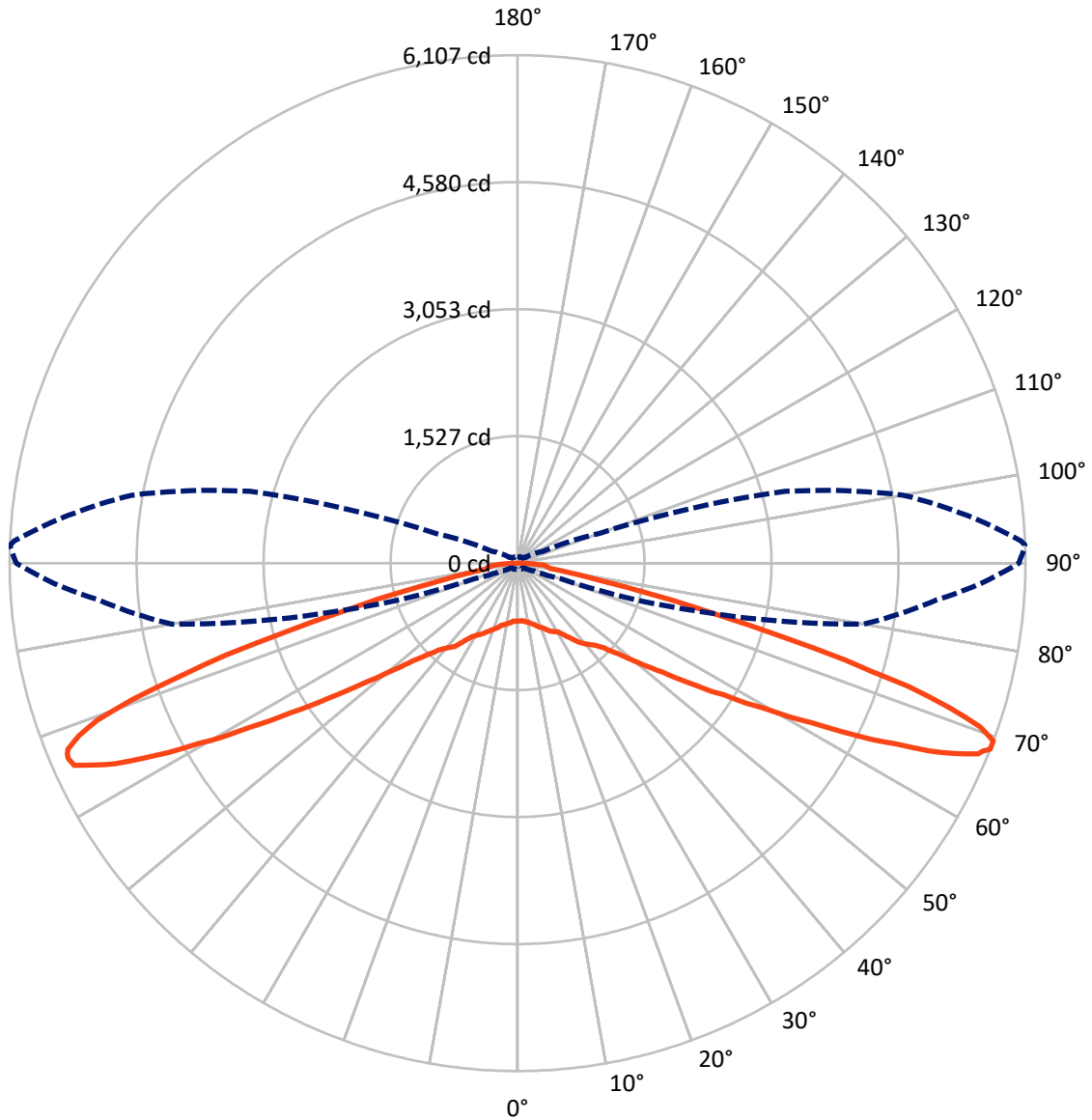
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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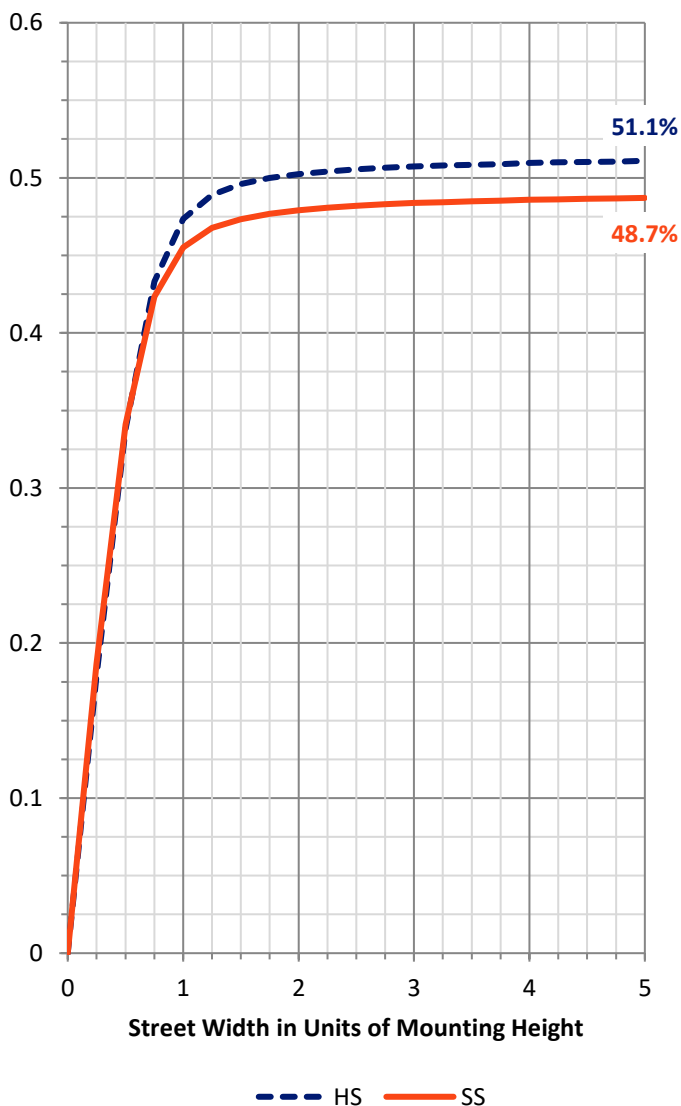
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.3	0.0	2236.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2106.1	0.0	2106.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	4342.4	0.0	4342.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.6
10°-20°	225.3	5.2
20°-30°	384.4	8.9
30°-40°	536.8	12.4
40°-50°	682.8	15.7
50°-60°	863.3	19.9
60°-70°	1064.7	24.5
70°-80°	465.1	10.7
80°-90°	50.4	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°	4342.4	100.0
0°-180°	4342.4	100.0



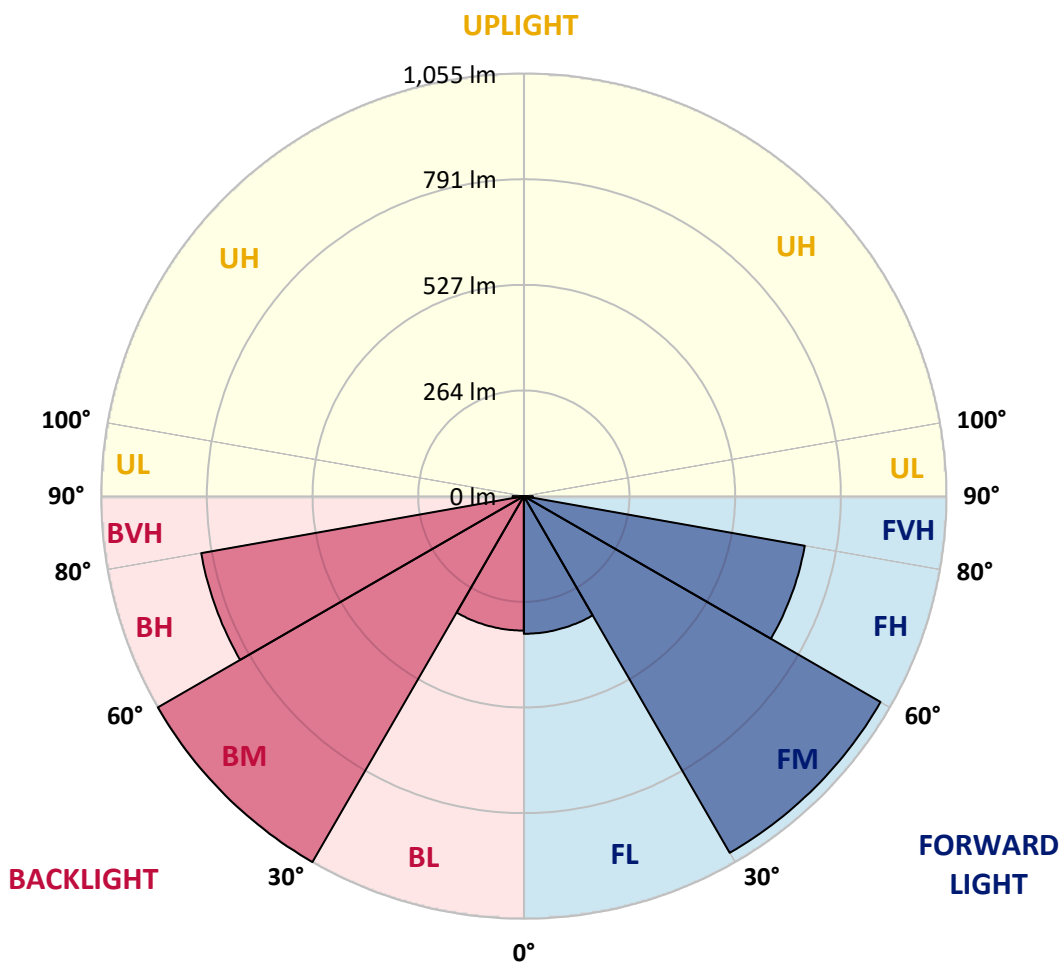
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.7	7.9			
FM (30°-60°)	1028.0	23.7			
FH (60°-80°)	712.1	16.4			G1/1800
FVH (80°-90°)	22.4	0.5			G1/100
BL (0°-30°)	335.6	7.7	B1/500		
BM (30°-60°)	1054.9	24.3	B2/2500		
BH (60°-80°)	817.7	18.8	B2/1000		G2/1000
BVH (80°-90°)	28.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4
2.5°	709.1	708.2	710.7	712.3	705.0	707.4	705.8	704.2	698.5	696.0	691.1
5°	728.6	731.1	739.2	731.9	735.1	731.1	718.0	722.1	714.8	713.1	708.2
7.5°	762.8	758.0	769.4	761.2	763.7	755.5	749.8	742.5	740.8	729.4	730.2
10°	770.2	780.0	784.8	783.2	784.8	788.9	778.3	766.9	751.4	748.2	736.8
12.5°	765.3	774.3	787.3	797.9	805.2	806.9	802.8	800.3	793.8	775.1	774.3
15°	760.4	753.9	762.0	798.7	823.2	839.5	845.2	831.3	832.9	808.5	798.7
17.5°	727.8	718.0	749.8	785.7	815.8	851.7	879.4	875.3	875.3	855.8	841.9
20°	684.6	700.9	717.2	762.8	818.3	872.1	925.0	922.6	912.8	907.1	876.9
22.5°	647.9	655.3	685.4	733.5	802.8	877.8	940.5	985.3	962.5	939.7	921.8
25°	622.7	616.1	654.4	704.2	788.1	868.0	969.9	1016.3	1028.5	1011.4	977.2
27.5°	586.8	586.8	617.0	664.2	740.8	863.1	998.4	1069.3	1087.2	1062.0	1012.2
30°	546.1	550.9	577.0	630.8	705.8	827.2	1009.8	1130.4	1145.1	1123.1	1071.7
32.5°	514.3	514.3	543.6	600.7	681.3	810.9	1002.5	1190.7	1218.4	1202.1	1149.2
35°	480.0	477.6	498.8	561.5	642.2	779.1	1000.0	1238.8	1300.7	1301.6	1246.1
37.5°	431.1	440.9	467.8	517.5	611.3	748.2	992.7	1296.7	1407.5	1426.3	1388.0
40°	398.5	402.6	427.1	481.7	563.2	711.5	982.1	1343.9	1478.4	1542.8	1489.8
42.5°	351.3	357.0	375.7	443.4	516.7	659.3	935.6	1377.4	1579.5	1652.8	1608.0
45°	301.6	304.8	332.5	387.9	467.0	597.4	885.9	1431.1	1677.3	1827.2	1801.2
47.5°	242.1	243.7	267.3	325.2	407.5	535.5	809.3	1428.7	1756.3	2001.7	2075.0
50°	189.1	193.2	211.1	258.4	335.8	459.7	720.5	1409.1	1855.8	2200.5	2344.8
52.5°	150.8	151.6	163.0	200.5	259.2	383.9	625.1	1347.2	1949.5	2395.3	2675.7
55°	124.7	124.7	131.2	154.0	198.9	291.8	513.5	1244.5	1960.9	2610.5	3036.7
56°	119.8	118.2	123.9	143.4	179.3	263.2	461.3	1175.2	1977.2	2709.9	3217.6
57°	113.3	114.1	117.4	131.2	161.4	233.1	403.4	1107.6	1965.8	2791.4	3351.3
58°	110.0	108.4	114.9	123.9	142.6	207.0	363.5	1027.7	1947.9	2858.2	3546.1
59°	105.1	104.3	108.4	116.5	132.8	184.2	314.6	941.3	1912.8	2944.6	3691.2
60°	103.5	102.7	104.3	110.8	122.3	161.4	277.1	840.3	1819.1	3033.4	3871.3
61°	98.6	99.4	102.7	106.8	115.7	145.1	249.4	736.8	1758.0	3108.4	4070.1
62°	99.4	97.8	99.4	102.7	109.2	133.7	218.4	634.9	1648.8	3193.2	4219.3
63°	94.5	93.7	96.2	100.2	103.5	120.6	190.7	548.5	1524.9	3212.7	4345.6
64°	92.9	92.1	92.9	98.6	99.4	113.3	168.7	468.6	1345.6	3246.2	4507.8
65°	88.8	88.8	90.5	92.9	96.2	106.8	150.8	406.7	1167.1	3158.1	4557.5
66°	85.6	86.4	86.4	90.5	92.9	99.4	138.6	345.6	995.9	3018.0	4605.6
67°	83.1	83.1	83.9	87.2	89.7	93.7	124.7	299.1	840.3	2850.9	4531.4
67.5°	81.5	82.3	82.3	85.6	88.0	93.7	119.0	283.6	751.4	2667.5	4476.0
68°	79.1	79.9	79.9	83.1	85.6	90.5	114.9	259.2	692.8	2548.5	4373.3
69°	77.4	76.6	76.6	79.9	83.1	86.4	106.8	226.6	550.9	2216.0	4223.4
70°	72.5	72.5	74.2	76.6	79.1	82.3	98.6	199.7	466.2	1834.6	3837.0
71°	70.1	69.3	70.1	72.5	75.0	79.1	90.5	176.9	381.4	1523.2	3457.3
72°	65.2	66.8	66.8	69.3	71.7	74.2	84.8	154.0	320.3	1217.6	3039.2
72.5°	64.4	64.4	65.2	67.6	69.3	73.4	81.5	147.5	292.6	1073.4	2863.9
73°	61.9	61.9	62.8	65.2	66.8	70.9	79.1	132.8	266.5	955.2	2536.3
74°	59.5	58.7	58.7	61.9	62.8	66.8	74.2	117.4	223.3	719.6	2035.9
75°	55.4	55.4	56.2	57.9	58.7	61.9	68.5	104.3	188.3	558.3	1592.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	45.6	46.5	47.3	48.9	48.9	51.3	56.2	72.5	114.9	282.8	731.1
80°	33.4	35.0	37.5	39.9	39.1	39.1	44.0	52.2	68.5	127.1	280.4
82.5°	26.9	28.5	26.1	29.3	29.3	27.7	31.8	38.3	46.5	62.8	100.2
85°	17.9	18.7	15.5	17.9	17.1	17.1	21.2	22.8	28.5	35.0	49.7
87.5°	8.2	8.2	6.5	7.3	7.3	7.3	10.6	8.2	12.2	17.1	29.3
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°	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4	694.4
2.5°	696.0	699.3	699.3	696.0	693.6	696.0	694.4	690.3	694.4	696.0	696.8
5°	705.8	699.3	702.5	695.2	700.1	699.3	697.6	701.7	702.5	702.5	708.2
7.5°	716.4	724.5	713.9	714.8	717.2	707.4	710.7	712.3	709.1	715.6	720.5
10°	735.1	738.4	735.1	722.9	731.1	724.5	722.1	729.4	727.8	729.4	736.8
12.5°	752.2	758.0	749.0	748.2	744.1	738.4	741.7	740.8	752.2	753.9	762.8
15°	787.3	772.6	769.4	768.5	766.9	764.5	766.1	766.9	781.6	784.0	805.2
17.5°	817.4	815.0	797.1	803.6	803.6	793.8	789.7	803.6	815.0	827.2	841.9
20°	848.4	846.0	826.4	827.2	819.9	828.9	824.0	837.0	856.6	860.6	873.7
22.5°	885.1	874.5	860.6	862.3	864.7	858.2	854.9	872.9	892.4	903.8	904.7
25°	943.0	916.1	904.7	906.3	903.0	898.1	900.6	923.4	933.2	957.6	952.7
27.5°	973.9	958.4	950.3	931.6	932.4	925.0	934.8	969.0	988.6	1007.3	969.9
30°	1011.4	1001.6	965.8	959.3	958.4	955.2	973.1	1017.1	1046.5	1057.1	1003.3
32.5°	1084.8	1045.7	1036.7	1031.0	1017.9	1022.0	1031.0	1088.8	1135.3	1132.9	1034.2
35°	1168.7	1141.8	1116.6	1111.7	1110.0	1098.6	1114.1	1181.8	1217.6	1207.0	1045.7
37.5°	1303.2	1262.4	1228.2	1209.5	1206.2	1198.1	1234.7	1288.5	1335.0	1293.4	1054.6
40°	1369.2	1323.6	1291.8	1280.4	1282.8	1294.2	1330.1	1412.4	1432.8	1356.2	1062.0
42.5°	1463.7	1414.0	1351.3	1345.6	1338.2	1343.9	1413.2	1524.1	1541.2	1440.9	1034.2
45°	1631.6	1556.7	1484.1	1451.5	1453.2	1468.6	1576.2	1697.7	1665.9	1499.6	990.2
47.5°	1843.5	1733.5	1674.8	1630.8	1652.0	1634.9	1806.1	1903.0	1794.6	1573.8	936.4
50°	2162.2	2008.2	1928.3	1875.3	1884.3	1899.0	2072.6	2154.9	1937.3	1609.6	854.1
52.5°	2564.0	2366.0	2248.6	2177.7	2184.2	2216.0	2440.1	2414.9	2100.3	1639.8	744.1
55°	3044.9	2841.1	2613.7	2584.4	2577.0	2652.8	2899.8	2687.1	2247.0	1591.7	630.0
56°	3299.1	3082.3	2846.0	2785.7	2767.8	2820.7	3110.9	2823.2	2297.5	1537.9	575.4
57°	3515.1	3308.1	3048.9	2946.2	2969.1	3068.5	3320.3	2951.1	2344.0	1482.5	524.0
58°	3811.8	3575.4	3301.6	3223.3	3203.0	3282.0	3546.1	3079.9	2359.4	1425.4	476.8
59°	4107.6	3824.0	3577.1	3434.4	3440.1	3584.4	3768.6	3233.1	2383.1	1352.9	416.5
60°	4332.6	4189.9	3859.9	3753.1	3738.4	3947.1	3990.3	3335.8	2408.3	1255.1	374.1
61°	4651.2	4465.4	4158.2	4020.4	4060.4	4227.4	4229.9	3464.6	2370.8	1131.2	321.9
62°	4880.2	4831.3	4508.6	4377.4	4365.2	4586.8	4479.3	3577.9	2338.2	1013.9	284.4
63°	5148.4	5148.4	4854.2	4751.5	4757.2	4932.4	4587.7	3691.2	2300.8	884.3	250.2
64°	5287.8	5463.0	5191.6	5047.3	5084.8	5236.4	4780.8	3765.3	2185.0	753.1	220.1
65°	5408.4	5671.6	5520.8	5454.0	5397.0	5486.6	4947.9	3834.6	2008.2	640.6	195.6
66°	5510.2	5868.0	5818.3	5746.6	5740.9	5720.5	4980.5	3832.2	1825.6	541.2	171.2
67°	5458.9	5872.1	5962.6	5992.7	5983.8	5768.6	4923.4	3744.9	1591.7	457.2	152.4
67.5°	5412.4	5838.7	6049.0	6031.9	6069.3	5809.4	4933.2	3638.2	1425.4	414.0	143.4
68°	5371.7	5793.9	6084.0	6106.0	6087.3	5814.2	4879.4	3553.4	1312.2	388.8	135.3
69°	5062.8	5581.2	6027.8	6106.8	6058.7	5627.6	4708.3	3332.6	1042.4	331.7	124.7
70°	4753.1	5305.7	5754.7	5899.8	5840.3	5266.6	4492.3	2981.3	859.8	283.6	112.5
71°	4324.4	4793.9	5391.3	5478.5	5406.7	4855.8	4045.7	2610.5	669.1	240.4	100.2
72°	3742.5	4141.0	4711.5	4922.6	4816.7	4264.9	3594.2	2157.3	542.0	202.1	91.3
72.5°	3454.0	3862.3	4412.4	4429.6	4449.9	4008.2	3402.6	1894.9	472.7	187.5	88.8
73°	3180.1	3580.3	4056.3	4116.6	4030.2	3575.4	3116.6	1694.4	432.0	171.2	85.6
74°	2577.0	2805.2	3199.7	3258.4	3182.6	2915.3	2546.9	1299.1	343.9	147.5	78.2
75°	2027.7	2153.2	2510.2	2474.4	2361.1	2267.3	1974.8	992.7	278.7	129.6	72.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	911.2	987.0	1046.5	1046.5	1053.0	1004.9	910.4	455.6	172.0	93.7	59.5
80°	347.2	388.8	401.8	402.6	408.3	423.0	393.6	224.1	101.9	66.8	48.1
82.5°	251.8	352.1	379.0	359.4	361.0	326.0	150.8	99.4	64.4	46.5	35.0
85°	228.2	306.4	324.4	321.9	322.7	301.6	88.8	48.9	37.5	29.3	24.5
87.5°	110.8	108.4	114.9	129.6	126.3	163.8	75.0	24.5	16.3	12.2	12.2
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: P676121

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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	694.4	694.4	694.4	694.4	694.4	694.4
2.5°	690.3	689.5	700.9	689.5	696.0	691.1
5°	698.5	701.7	704.2	709.1	697.6	709.1
7.5°	722.9	726.2	727.0	731.1	726.2	725.4
10°	741.7	749.8	754.7	738.4	748.2	747.4
12.5°	778.3	770.2	769.4	766.1	757.1	753.9
15°	804.4	792.2	784.8	771.8	761.2	757.1
17.5°	841.1	817.4	787.3	760.4	741.7	727.0
20°	863.9	821.5	761.2	729.4	700.9	707.4
22.5°	878.6	817.4	737.6	696.8	668.3	676.5
25°	883.5	797.1	721.3	670.7	643.0	637.3
27.5°	869.6	773.4	689.5	632.4	608.0	612.9
30°	863.1	739.2	660.2	603.9	571.3	576.2
32.5°	846.0	704.2	621.0	564.0	540.3	532.2
35°	821.5	674.8	583.5	529.8	501.2	494.7
37.5°	791.4	638.1	550.9	485.7	460.5	455.6
40°	746.5	594.1	503.7	447.4	418.1	417.3
42.5°	707.4	551.8	459.7	401.8	372.5	374.1
45°	657.7	494.7	409.1	359.4	330.1	331.7
47.5°	594.1	441.7	361.0	305.6	281.2	279.5
50°	519.2	381.4	302.4	255.1	234.7	230.6
52.5°	447.4	320.3	247.8	205.4	188.3	186.6
55°	357.0	249.4	193.2	161.4	148.3	149.1
56°	324.4	229.8	176.0	147.5	137.7	137.7
57°	293.4	203.8	159.7	136.1	127.1	127.1
58°	259.2	179.3	145.1	123.1	119.0	115.7
59°	235.5	163.0	131.2	116.5	110.0	109.2
60°	207.8	146.7	122.3	109.2	104.3	103.5
61°	184.2	132.0	112.5	101.9	100.2	100.2
62°	164.6	122.3	104.3	98.6	97.8	95.4
63°	147.5	112.5	100.2	93.7	91.3	93.7
64°	132.0	103.5	97.0	92.1	88.8	90.5
65°	119.8	99.4	92.9	89.7	86.4	87.2
66°	111.7	92.9	89.7	85.6	83.9	84.8
67°	101.1	89.7	86.4	82.3	81.5	82.3
67.5°	97.8	87.2	84.8	80.7	79.9	80.7
68°	95.4	85.6	83.9	79.9	79.1	78.2
69°	88.8	82.3	79.9	78.2	76.6	75.8
70°	83.1	79.1	77.4	75.0	73.4	72.5
71°	79.9	75.0	74.2	71.7	70.1	69.3
72°	75.8	72.5	70.9	67.6	66.8	67.6
72.5°	75.0	70.9	70.1	66.8	66.0	66.0
73°	72.5	67.6	68.5	65.2	63.6	65.2
74°	67.6	66.0	64.4	61.9	61.1	61.1
75°	63.6	61.9	60.3	58.7	58.7	58.7



REPORT NUMBER: P676121
CATALOG NUMBER: CCW-SA-1C-735-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	53.8	53.0	53.8	50.5	49.7	48.9
80°	43.2	43.2	44.0	41.6	39.9	39.1
82.5°	32.6	33.4	35.0	32.6	31.0	29.3
85°	21.2	22.0	22.0	19.6	22.8	21.2
87.5°	10.6	11.4	10.6	9.8	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)