

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: P676169

Luminaire Tested: **CCW-SA-2A-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676169
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

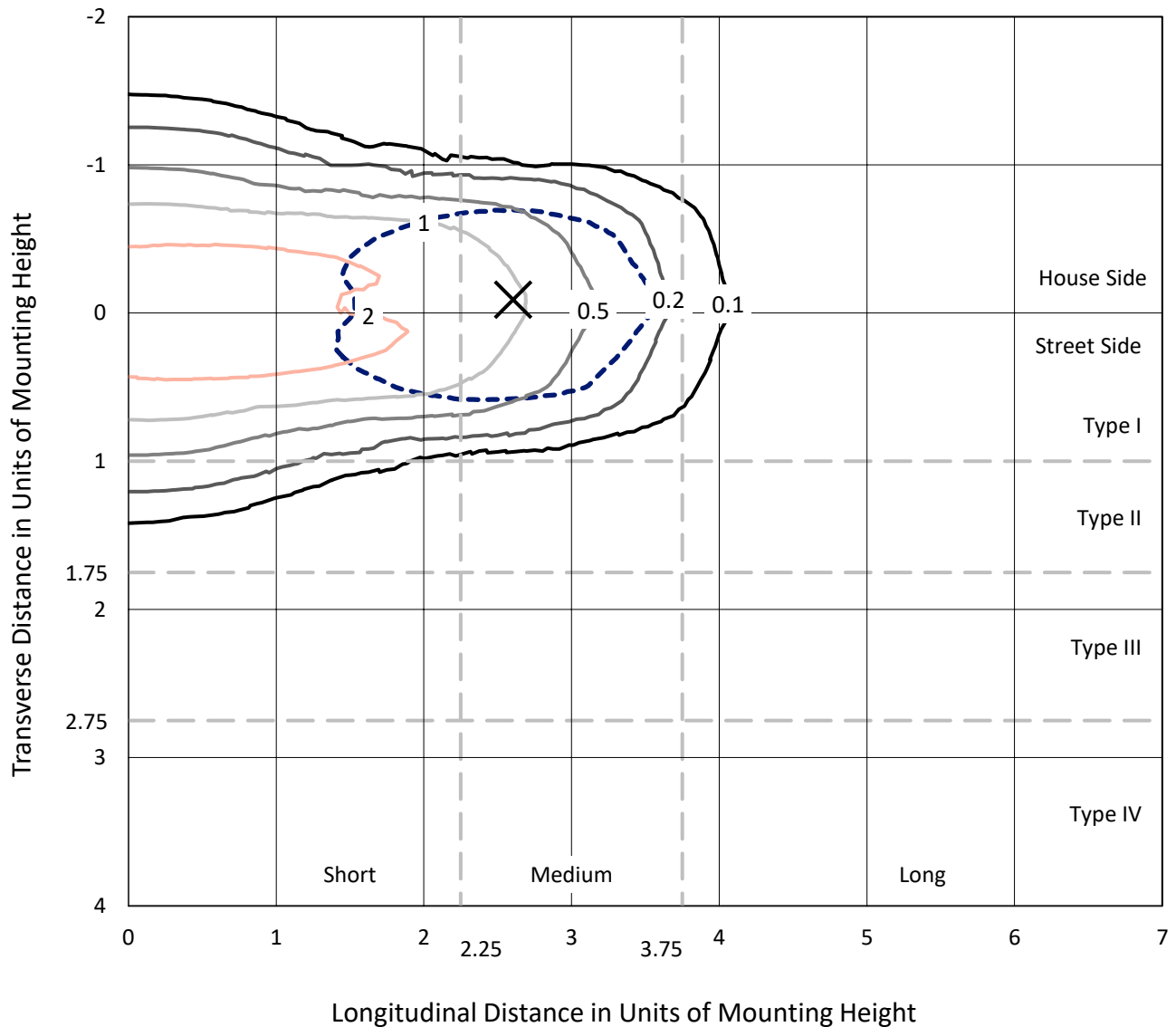
Lumens per Lamp: N/A
Luminaire Lumens: 3916.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

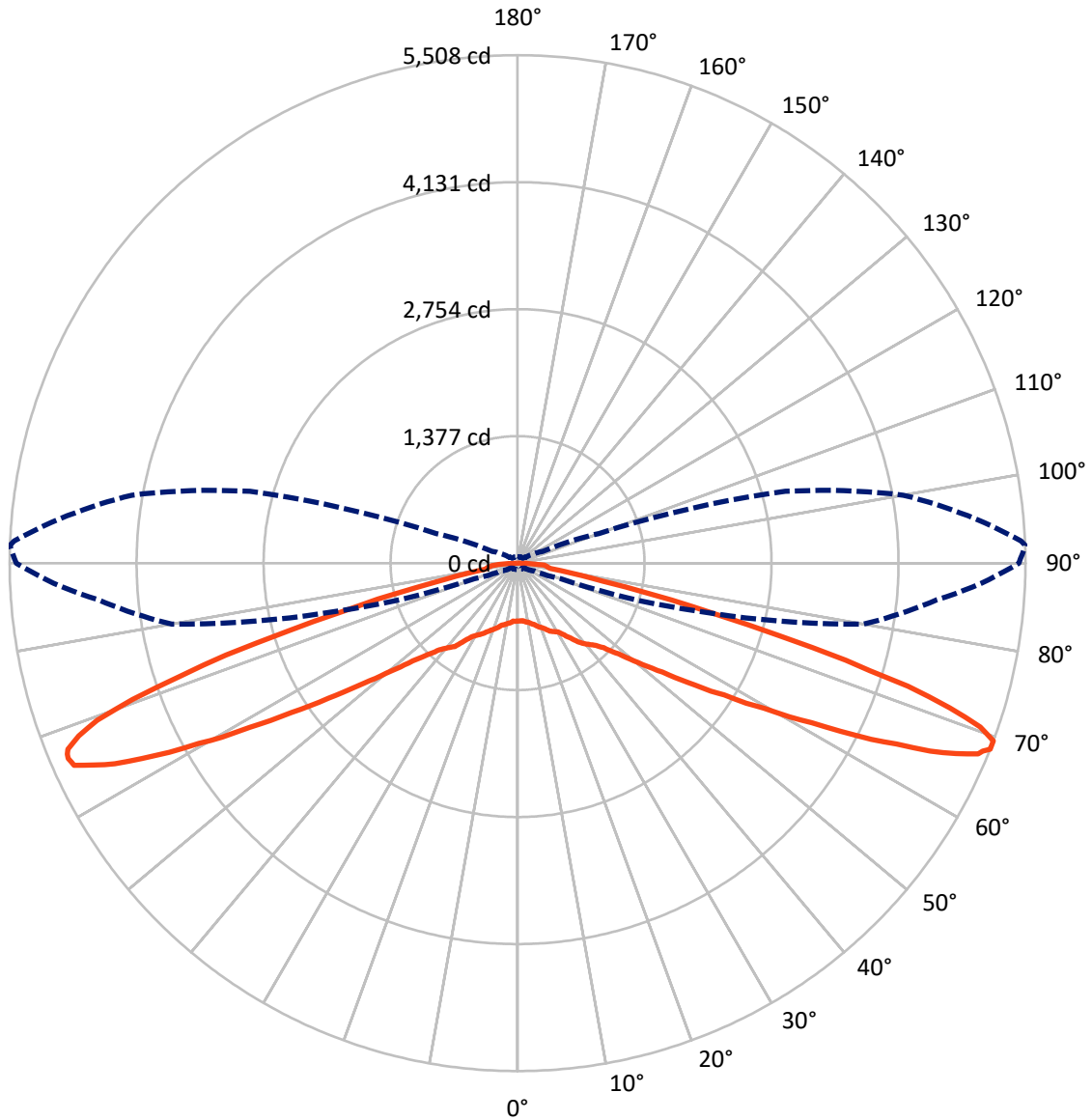
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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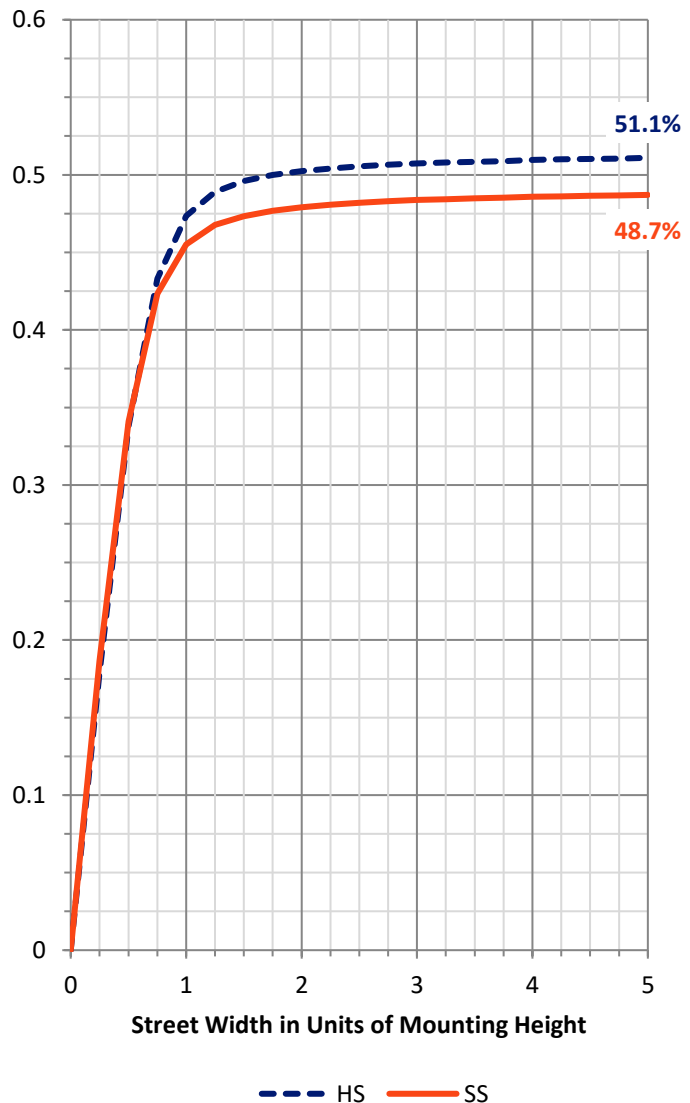
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2017.0	0.0	2017.0
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1899.7	0.0	1899.7
	% Fixture	48.5	0.0	48.5
Total	Lumens	3916.7	0.0	3916.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.6
10°-20°	203.2	5.2
20°-30°	346.7	8.9
30°-40°	484.2	12.4
40°-50°	615.9	15.7
50°-60°	778.7	19.9
60°-70°	960.3	24.5
70°-80°	419.5	10.7
80°-90°	45.5	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°	3916.7	100.0
0°-180°	3916.7	100.0



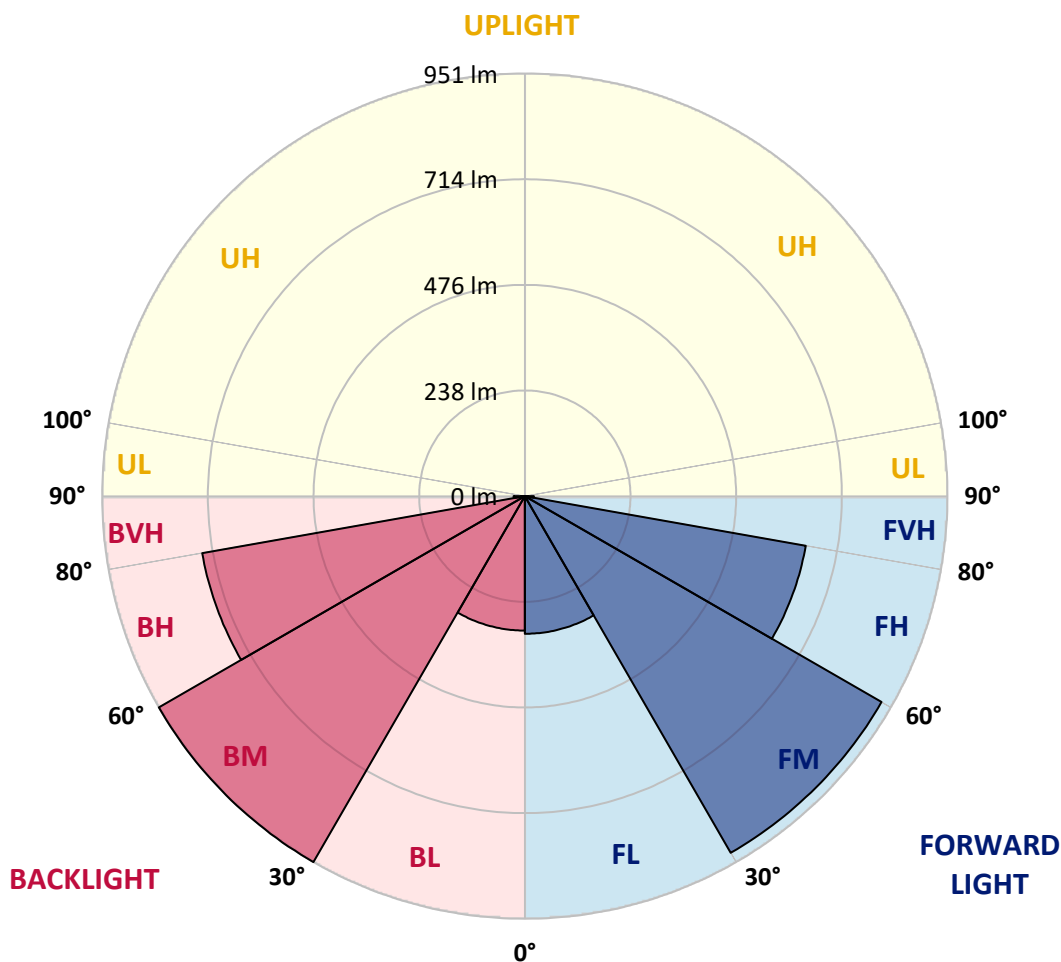
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.0	7.9			
FM (30°-60°)	927.3	23.7			
FH (60°-80°)	642.3	16.4			G0/660
FVH (80°-90°)	20.2	0.5			G1/100
BL (0°-30°)	302.7	7.7	B1/500		
BM (30°-60°)	951.5	24.3	B1/1000		
BH (60°-80°)	737.6	18.8	B2/1000		G2/1000
BVH (80°-90°)	25.3	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°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	639.5	638.8	641.0	642.5	635.9	638.1	636.6	635.1	630.0	627.8	623.4
5°	657.2	659.4	666.7	660.1	663.1	659.4	647.6	651.3	644.7	643.2	638.8
7.5°	688.1	683.7	693.9	686.6	688.8	681.5	676.3	669.7	668.2	657.9	658.7
10°	694.7	703.5	707.9	706.4	707.9	711.6	702.0	691.7	677.8	674.8	664.5
12.5°	690.3	698.4	710.1	719.7	726.3	727.8	724.1	721.9	716.0	699.1	698.4
15°	685.9	680.0	687.3	720.4	742.5	757.2	762.3	749.8	751.3	729.2	720.4
17.5°	656.5	647.6	676.3	708.6	735.8	768.2	793.2	789.5	789.5	771.9	759.4
20°	617.5	632.2	646.9	688.1	738.1	786.6	834.4	832.1	823.3	818.2	791.0
22.5°	584.4	591.0	618.2	661.6	724.1	791.7	848.3	888.8	868.2	847.6	831.4
25°	561.6	555.7	590.3	635.1	710.9	782.9	874.8	916.7	927.7	912.3	881.4
27.5°	529.3	529.3	556.5	599.1	668.2	778.5	900.5	964.5	980.6	957.9	913.0
30°	492.5	496.9	520.5	569.0	636.6	746.1	910.8	1019.6	1032.8	1013.0	966.7
32.5°	463.9	463.9	490.3	541.8	614.6	731.4	904.2	1074.0	1099.0	1084.3	1036.5
35°	433.0	430.8	449.9	506.5	579.3	702.8	902.0	1117.4	1173.2	1174.0	1124.0
37.5°	388.9	397.7	422.0	466.8	551.3	674.8	895.4	1169.6	1269.5	1286.4	1251.9
40°	359.5	363.1	385.2	434.5	508.0	641.8	885.8	1212.2	1333.5	1391.6	1343.8
42.5°	316.8	322.0	338.9	399.9	466.1	594.7	843.9	1242.3	1424.7	1490.8	1450.4
45°	272.0	274.9	299.9	349.9	421.2	538.8	799.1	1290.9	1512.9	1648.1	1624.6
47.5°	218.3	219.8	241.1	293.3	367.6	483.0	730.0	1288.7	1584.2	1805.4	1871.6
50°	170.5	174.2	190.4	233.0	302.9	414.6	649.8	1271.0	1673.9	1984.8	2114.9
52.5°	136.0	136.7	147.0	180.8	233.8	346.2	563.8	1215.1	1758.4	2160.5	2413.4
55°	112.5	112.5	118.4	138.9	179.4	263.2	463.1	1122.5	1768.7	2354.6	2739.0
56°	108.1	106.6	111.7	129.4	161.7	237.4	416.1	1060.0	1783.4	2444.3	2902.2
57°	102.2	102.9	105.9	118.4	145.6	210.2	363.9	999.0	1773.1	2517.8	3022.8
58°	99.2	97.8	103.7	111.7	128.6	186.7	327.9	927.0	1756.9	2578.0	3198.5
59°	94.8	94.1	97.8	105.1	119.8	166.1	283.8	849.1	1725.3	2656.0	3329.3
60°	93.4	92.6	94.1	100.0	110.3	145.6	249.9	757.9	1640.8	2736.1	3491.8
61°	88.9	89.7	92.6	96.3	104.4	130.9	224.9	664.5	1585.6	2803.7	3671.2
62°	89.7	88.2	89.7	92.6	98.5	120.6	197.0	572.7	1487.1	2880.2	3805.7
63°	85.3	84.5	86.7	90.4	93.4	108.8	172.0	494.7	1375.4	2897.8	3919.6
64°	83.8	83.1	83.8	88.9	89.7	102.2	152.2	422.7	1213.7	2928.0	4065.9
65°	80.1	80.1	81.6	83.8	86.7	96.3	136.0	366.8	1052.7	2848.6	4110.8
66°	77.2	77.9	77.9	81.6	83.8	89.7	125.0	311.7	898.3	2722.1	4154.1
67°	75.0	75.0	75.7	78.7	80.9	84.5	112.5	269.8	757.9	2571.4	4087.2
67.5°	73.5	74.2	74.2	77.2	79.4	84.5	107.3	255.8	677.8	2406.0	4037.2
68°	71.3	72.0	72.0	75.0	77.2	81.6	103.7	233.8	624.8	2298.7	3944.6
69°	69.8	69.1	69.1	72.0	75.0	77.9	96.3	204.4	496.9	1998.8	3809.4
70°	65.4	65.4	66.9	69.1	71.3	74.2	88.9	180.1	420.5	1654.7	3460.9
71°	63.2	62.5	63.2	65.4	67.6	71.3	81.6	159.5	344.0	1373.9	3118.4
72°	58.8	60.3	60.3	62.5	64.7	66.9	76.5	138.9	288.9	1098.3	2741.2
72.5°	58.1	58.1	58.8	61.0	62.5	66.2	73.5	133.1	263.9	968.1	2583.2
73°	55.9	55.9	56.6	58.8	60.3	64.0	71.3	119.8	240.4	861.6	2287.7
74°	53.7	52.9	52.9	55.9	56.6	60.3	66.9	105.9	201.4	649.1	1836.3
75°	50.0	50.0	50.7	52.2	52.9	55.9	61.7	94.1	169.8	503.6	1436.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	41.2	41.9	42.6	44.1	44.1	46.3	50.7	65.4	103.7	255.1	659.4
80°	30.1	31.6	33.8	36.0	35.3	35.3	39.7	47.0	61.7	114.7	252.9
82.5°	24.3	25.7	23.5	26.5	26.5	25.0	28.7	34.6	41.9	56.6	90.4
85°	16.2	16.9	14.0	16.2	15.4	15.4	19.1	20.6	25.7	31.6	44.8
87.5°	7.4	7.4	5.9	6.6	6.6	6.6	9.6	7.4	11.0	15.4	26.5
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°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	627.8	630.7	630.7	627.8	625.6	627.8	626.3	622.6	626.3	627.8	628.5
5°	636.6	630.7	633.7	627.1	631.5	630.7	629.3	632.9	633.7	633.7	638.8
7.5°	646.2	653.5	644.0	644.7	646.9	638.1	641.0	642.5	639.5	645.4	649.8
10°	663.1	666.0	663.1	652.0	659.4	653.5	651.3	657.9	656.5	657.9	664.5
12.5°	678.5	683.7	675.6	674.8	671.2	666.0	669.0	668.2	678.5	680.0	688.1
15°	710.1	696.9	693.9	693.2	691.7	689.5	691.0	691.7	705.0	707.2	726.3
17.5°	737.3	735.1	718.9	724.8	724.8	716.0	712.3	724.8	735.1	746.1	759.4
20°	765.3	763.0	745.4	746.1	739.5	747.6	743.2	755.0	772.6	776.3	788.0
22.5°	798.3	788.8	776.3	777.8	780.0	774.1	771.1	787.3	804.9	815.2	816.0
25°	850.5	826.3	816.0	817.4	814.5	810.1	812.3	832.9	841.7	863.8	859.3
27.5°	878.5	864.5	857.1	840.2	841.0	834.4	843.2	874.1	891.7	908.6	874.8
30°	912.3	903.5	871.1	865.2	864.5	861.6	877.7	917.4	943.9	953.4	904.9
32.5°	978.4	943.2	935.1	929.9	918.2	921.8	929.9	982.1	1024.0	1021.8	932.9
35°	1054.2	1029.9	1007.1	1002.7	1001.2	990.9	1004.9	1065.9	1098.3	1088.7	943.2
37.5°	1175.4	1138.7	1107.8	1090.9	1088.0	1080.6	1113.7	1162.2	1204.1	1166.6	951.2
40°	1235.0	1193.8	1165.2	1154.9	1157.1	1167.4	1199.7	1274.0	1292.3	1223.2	957.9
42.5°	1320.3	1275.4	1218.8	1213.7	1207.1	1212.2	1274.7	1374.7	1390.1	1299.7	932.9
45°	1471.7	1404.1	1338.6	1309.2	1310.7	1324.7	1421.7	1531.2	1502.6	1352.6	893.2
47.5°	1662.8	1563.6	1510.7	1471.0	1490.1	1474.6	1629.0	1716.5	1618.7	1419.5	844.6
50°	1950.3	1811.3	1739.3	1691.5	1699.6	1712.8	1869.4	1943.6	1747.4	1451.8	770.4
52.5°	2312.7	2134.0	2028.2	1964.2	1970.1	1998.8	2200.9	2178.1	1894.4	1479.0	671.2
55°	2746.4	2562.6	2357.5	2331.0	2324.4	2392.8	2615.5	2423.7	2026.7	1435.7	568.2
56°	2975.7	2780.2	2567.0	2512.6	2496.4	2544.2	2805.9	2546.4	2072.3	1387.2	519.0
57°	3170.5	2983.8	2750.1	2657.4	2678.0	2767.7	2994.9	2661.8	2114.2	1337.2	472.7
58°	3438.1	3224.9	2977.9	2907.4	2889.0	2960.3	3198.5	2778.0	2128.2	1285.7	430.0
59°	3705.0	3449.2	3226.4	3097.8	3102.9	3233.0	3399.2	2916.2	2149.5	1220.3	375.6
60°	3907.9	3779.2	3481.5	3385.2	3372.0	3560.2	3599.1	3008.8	2172.3	1132.1	337.4
61°	4195.3	4027.7	3750.6	3626.3	3662.3	3813.0	3815.2	3125.0	2138.4	1020.3	290.4
62°	4401.9	4357.8	4066.6	3948.3	3937.3	4137.2	4040.2	3227.1	2109.0	914.5	256.6
63°	4643.7	4643.7	4378.3	4285.7	4290.9	4448.9	4138.0	3329.3	2075.2	797.6	225.7
64°	4769.4	4927.5	4682.7	4552.6	4586.4	4723.1	4312.2	3396.2	1970.8	679.2	198.5
65°	4878.2	5115.7	4979.7	4919.4	4867.9	4948.8	4462.9	3458.7	1811.3	577.8	176.4
66°	4970.1	5292.8	5248.0	5183.3	5178.1	5159.8	4492.3	3456.5	1646.7	488.1	154.4
67°	4923.8	5296.5	5378.1	5405.3	5397.2	5203.1	4440.8	3377.8	1435.7	412.4	137.5
67.5°	4881.9	5266.4	5456.0	5440.6	5474.4	5239.9	4449.6	3281.5	1285.7	373.4	129.4
68°	4845.1	5225.9	5487.6	5507.5	5490.6	5244.3	4401.1	3205.1	1183.5	350.6	122.0
69°	4566.5	5034.1	5436.9	5508.2	5464.8	5076.0	4246.8	3005.9	940.2	299.2	112.5
70°	4287.2	4785.6	5190.6	5321.5	5267.8	4750.3	4051.9	2689.0	775.5	255.8	101.4
71°	3900.5	4323.9	4862.8	4941.4	4876.7	4379.8	3649.1	2354.6	603.5	216.9	90.4
72°	3375.6	3735.1	4249.7	4440.1	4344.5	3846.9	3241.9	1945.8	488.9	182.3	82.3
72.5°	3115.4	3483.7	3979.9	3995.3	4013.7	3615.3	3069.1	1709.1	426.4	169.1	80.1
73°	2868.4	3229.4	3658.7	3713.1	3635.1	3224.9	2811.1	1528.3	389.6	154.4	77.2
74°	2324.4	2530.3	2886.1	2939.0	2870.6	2629.5	2297.2	1171.8	310.2	133.1	70.6
75°	1829.0	1942.2	2264.2	2231.8	2129.6	2045.1	1781.2	895.4	251.4	116.9	65.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	821.9	890.2	943.9	943.9	949.8	906.4	821.1	410.9	155.1	84.5	53.7
80°	313.2	350.6	362.4	363.1	368.3	381.5	355.1	202.2	91.9	60.3	43.4
82.5°	227.2	317.6	341.8	324.2	325.7	294.0	136.0	89.7	58.1	41.9	31.6
85°	205.8	276.4	292.6	290.4	291.1	272.0	80.1	44.1	33.8	26.5	22.1
87.5°	100.0	97.8	103.7	116.9	113.9	147.8	67.6	22.1	14.7	11.0	11.0
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):

	135°	145°	155°	165°	175°	180°
0°	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	622.6	621.9	632.2	621.9	627.8	623.4
5°	630.0	632.9	635.1	639.5	629.3	639.5
7.5°	652.0	655.0	655.7	659.4	655.0	654.3
10°	669.0	676.3	680.7	666.0	674.8	674.1
12.5°	702.0	694.7	693.9	691.0	682.9	680.0
15°	725.6	714.5	707.9	696.2	686.6	682.9
17.5°	758.6	737.3	710.1	685.9	669.0	655.7
20°	779.2	741.0	686.6	657.9	632.2	638.1
22.5°	792.5	737.3	665.3	628.5	602.8	610.1
25°	796.9	718.9	650.6	605.0	580.0	574.9
27.5°	784.4	697.6	621.9	570.4	548.4	552.8
30°	778.5	666.7	595.4	544.7	515.3	519.7
32.5°	763.0	635.1	560.2	508.7	487.4	480.0
35°	741.0	608.7	526.3	477.8	452.1	446.2
37.5°	713.8	575.6	496.9	438.1	415.3	410.9
40°	673.4	535.9	454.3	403.6	377.1	376.4
42.5°	638.1	497.7	414.6	362.4	335.9	337.4
45°	593.2	446.2	369.0	324.2	297.7	299.2
47.5°	535.9	398.4	325.7	275.7	253.6	252.1
50°	468.3	344.0	272.7	230.1	211.7	208.0
52.5°	403.6	288.9	223.5	185.2	169.8	168.3
55°	322.0	224.9	174.2	145.6	133.8	134.5
56°	292.6	207.3	158.8	133.1	124.2	124.2
57°	264.6	183.8	144.1	122.8	114.7	114.7
58°	233.8	161.7	130.9	111.0	107.3	104.4
59°	212.4	147.0	118.4	105.1	99.2	98.5
60°	187.5	132.3	110.3	98.5	94.1	93.4
61°	166.1	119.1	101.4	91.9	90.4	90.4
62°	148.5	110.3	94.1	88.9	88.2	86.0
63°	133.1	101.4	90.4	84.5	82.3	84.5
64°	119.1	93.4	87.5	83.1	80.1	81.6
65°	108.1	89.7	83.8	80.9	77.9	78.7
66°	100.7	83.8	80.9	77.2	75.7	76.5
67°	91.2	80.9	77.9	74.2	73.5	74.2
67.5°	88.2	78.7	76.5	72.8	72.0	72.8
68°	86.0	77.2	75.7	72.0	71.3	70.6
69°	80.1	74.2	72.0	70.6	69.1	68.4
70°	75.0	71.3	69.8	67.6	66.2	65.4
71°	72.0	67.6	66.9	64.7	63.2	62.5
72°	68.4	65.4	64.0	61.0	60.3	61.0
72.5°	67.6	64.0	63.2	60.3	59.5	59.5
73°	65.4	61.0	61.7	58.8	57.3	58.8
74°	61.0	59.5	58.1	55.9	55.1	55.1
75°	57.3	55.9	54.4	52.9	52.9	52.9



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	48.5	47.8	48.5	45.6	44.8	44.1
80°	39.0	39.0	39.7	37.5	36.0	35.3
82.5°	29.4	30.1	31.6	29.4	27.9	26.5
85°	19.1	19.8	19.8	17.6	20.6	19.1
87.5°	9.6	10.3	9.6	8.8	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)