

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: P676209

Luminaire Tested: **CCW-SA-1C-850-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676209
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-850-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

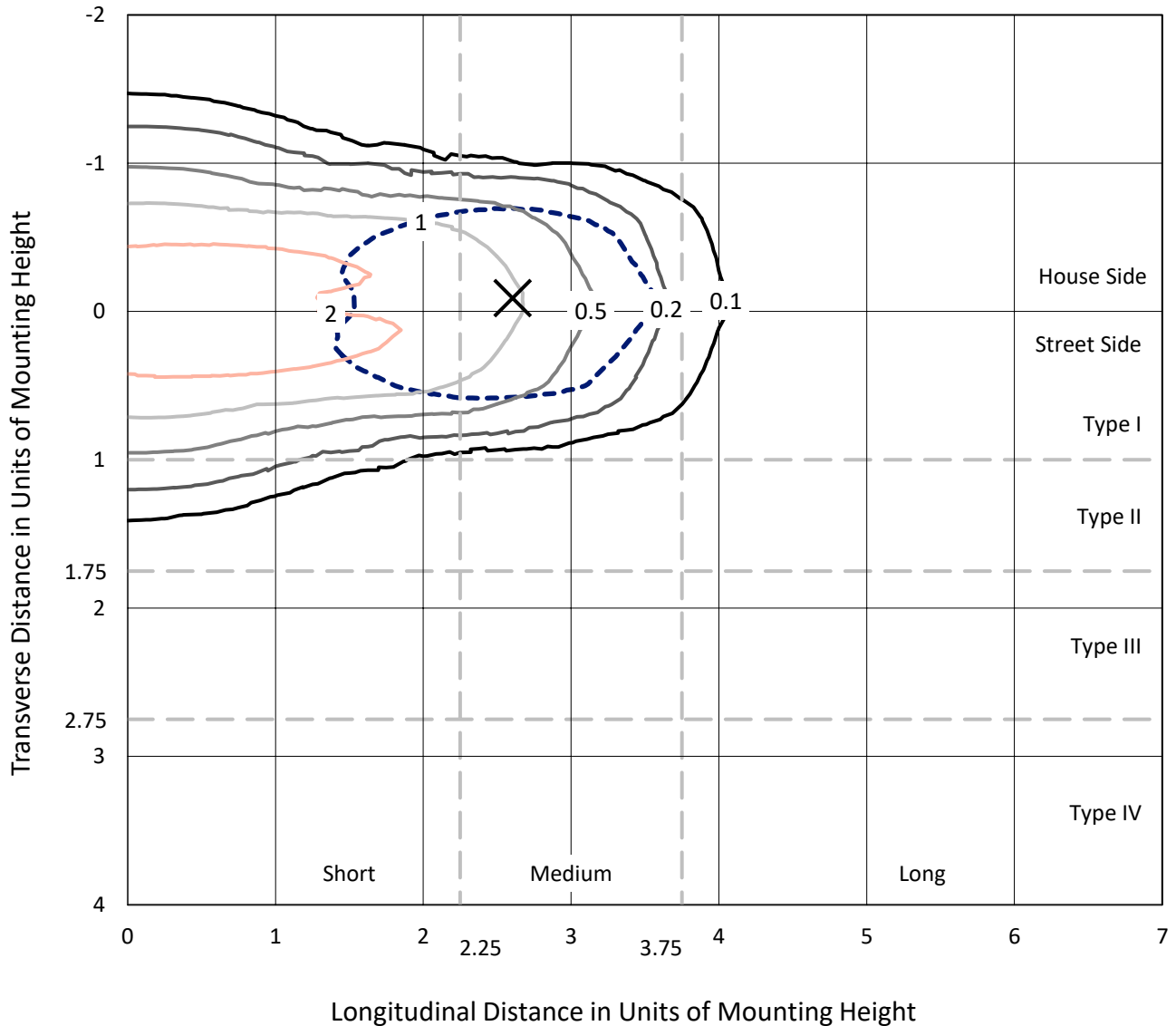
Lumens per Lamp: N/A
Luminaire Lumens: 3841.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

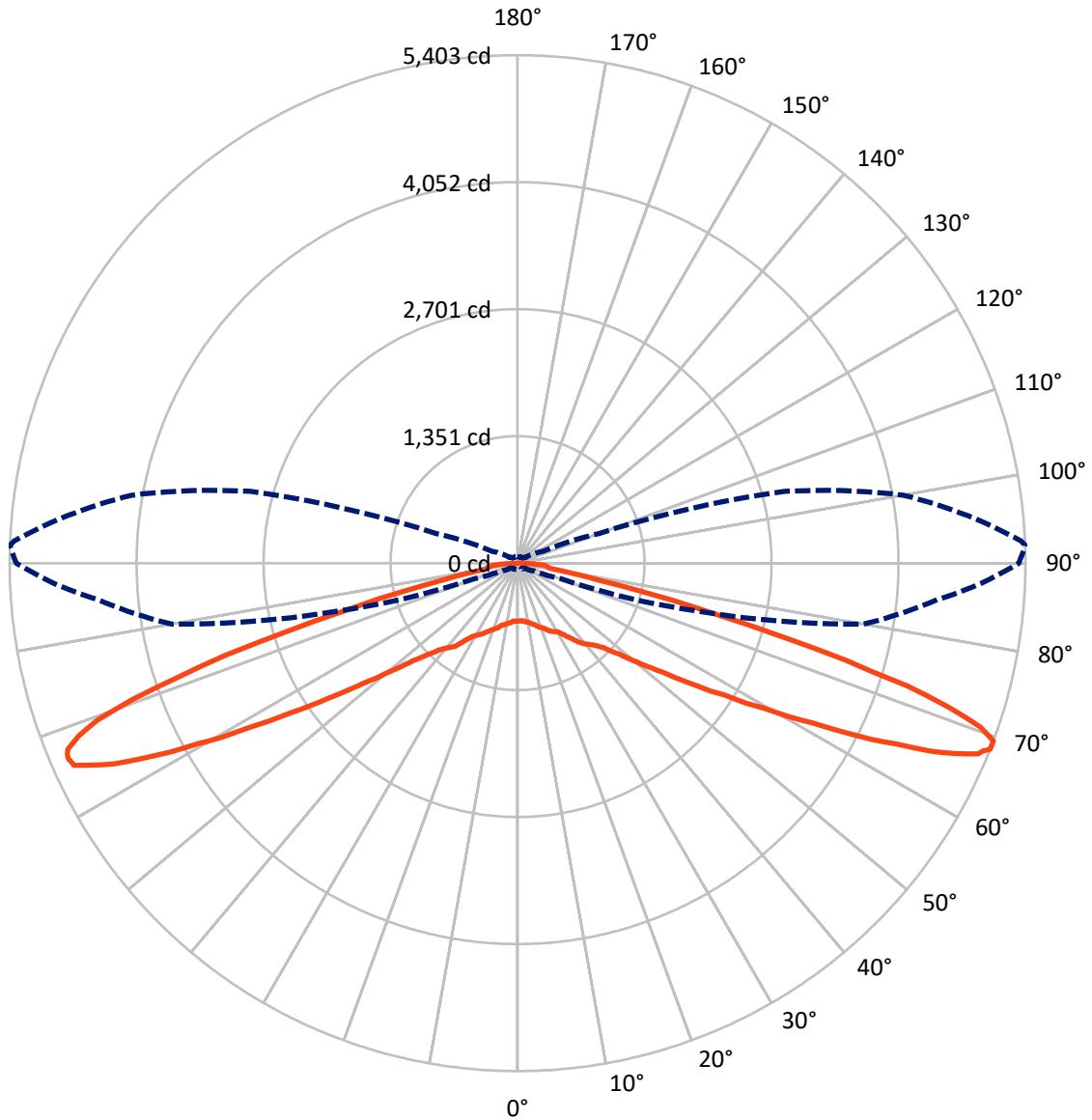
× Max cd
 - - - 1/2 Max cd



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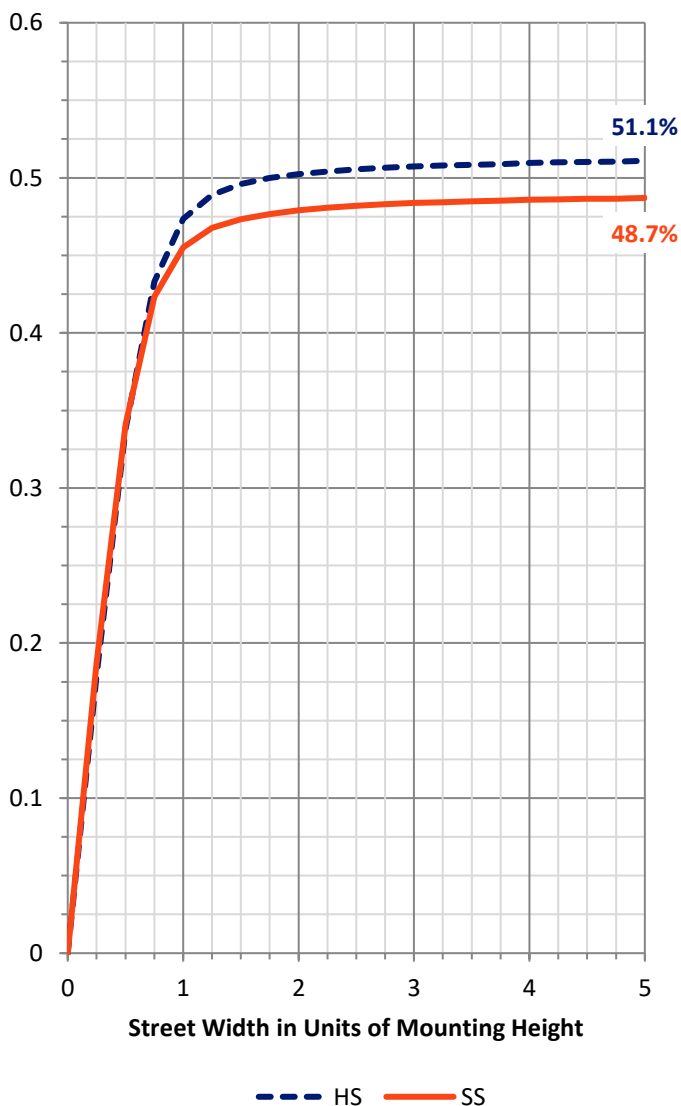
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.5	0.0	1978.5
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1863.3	0.0	1863.3
	% Fixture	48.5	0.0	48.5
Total	Lumens	3841.8	0.0	3841.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	1.6
10°-20°	199.3	5.2
20°-30°	340.1	8.9
30°-40°	474.9	12.4
40°-50°	604.1	15.7
50°-60°	763.8	19.9
60°-70°	942.0	24.5
70°-80°	411.5	10.7
80°-90°	44.6	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°	3841.8	100.0
0°-180°	3841.8	100.0

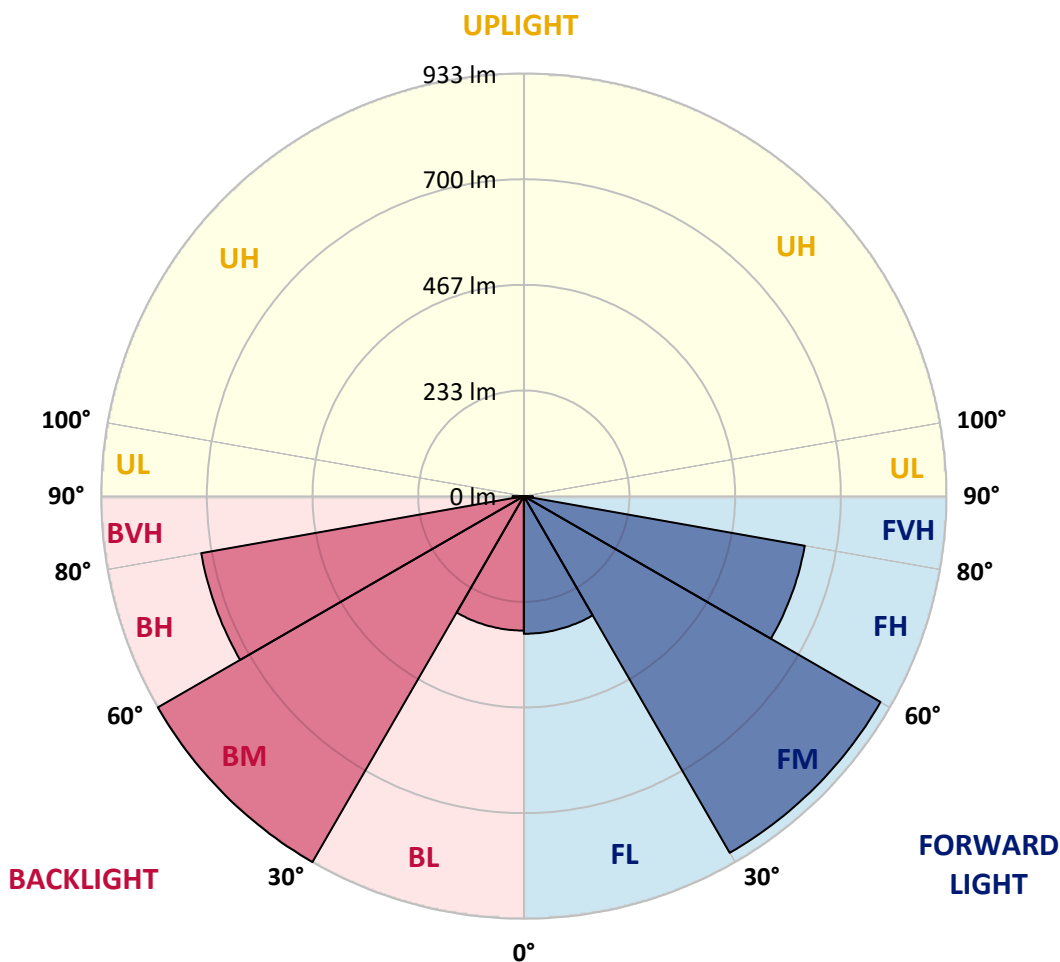


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.0	7.9			
FM (30°-60°)	909.5	23.7			
FH (60°-80°)	630.0	16.4			G0/660
FVH (80°-90°)	19.8	0.5			G1/100
BL (0°-30°)	296.9	7.7	B1/500		
BM (30°-60°)	933.3	24.3	B1/1000		
BH (60°-80°)	723.5	18.8	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	627.3	626.6	628.8	630.2	623.7	625.9	624.4	623.0	617.9	615.8	611.5
5°	644.6	646.8	654.0	647.5	650.4	646.8	635.2	638.9	632.4	630.9	626.6
7.5°	674.9	670.6	680.7	673.5	675.6	668.4	663.4	656.9	655.4	645.3	646.1
10°	681.4	690.0	694.4	692.9	694.4	698.0	688.6	678.5	664.8	661.9	651.8
12.5°	677.1	685.0	696.5	705.9	712.4	713.8	710.2	708.1	702.3	685.7	685.0
15°	672.7	667.0	674.2	706.6	728.3	742.7	747.7	735.5	736.9	715.3	706.6
17.5°	643.9	635.2	663.4	695.1	721.8	753.5	778.0	774.4	774.4	757.1	744.8
20°	605.7	620.1	634.5	674.9	723.9	771.5	818.4	816.2	807.6	802.5	775.9
22.5°	573.2	579.7	606.4	648.9	710.2	776.6	832.1	871.8	851.6	831.4	815.5
25°	550.9	545.1	579.0	623.0	697.3	767.9	858.1	899.2	910.0	894.8	864.5
27.5°	519.2	519.2	545.8	587.7	655.4	763.6	883.3	946.0	961.9	939.5	895.5
30°	483.1	487.4	510.5	558.1	624.4	731.9	893.4	1000.1	1013.1	993.6	948.2
32.5°	455.0	455.0	480.9	531.4	602.8	717.4	886.9	1053.5	1078.0	1063.6	1016.7
35°	424.7	422.5	441.3	496.8	568.2	689.3	884.7	1096.0	1150.8	1151.5	1102.5
37.5°	381.4	390.1	413.9	457.9	540.8	661.9	878.2	1147.2	1245.3	1261.8	1228.0
40°	352.6	356.2	377.8	426.1	498.2	629.5	868.9	1189.0	1308.0	1365.0	1318.1
42.5°	310.8	315.8	332.4	392.3	457.1	583.3	827.8	1218.6	1397.4	1462.3	1422.6
45°	266.8	269.7	294.2	343.2	413.2	528.5	783.8	1266.2	1483.9	1616.6	1593.5
47.5°	214.2	215.6	236.5	287.7	360.5	473.7	716.0	1264.0	1553.9	1770.9	1835.8
50°	167.3	170.9	186.8	228.6	297.1	406.7	637.4	1246.7	1641.8	1946.8	2074.5
52.5°	133.4	134.1	144.2	177.4	229.3	339.6	553.0	1191.9	1724.8	2119.2	2367.2
55°	110.3	110.3	116.1	136.3	175.9	258.1	454.3	1101.0	1734.9	2309.5	2686.6
56°	106.0	104.6	109.6	126.9	158.6	232.9	408.1	1039.8	1749.3	2397.5	2846.7
57°	100.2	100.9	103.8	116.1	142.8	206.2	356.9	979.9	1739.2	2469.6	2965.0
58°	97.3	95.9	101.7	109.6	126.2	183.1	321.6	909.2	1723.3	2528.7	3137.3
59°	93.0	92.3	95.9	103.1	117.5	163.0	278.3	832.8	1692.3	2605.2	3265.6
60°	91.6	90.9	92.3	98.1	108.2	142.8	245.2	743.4	1609.4	2683.8	3425.0
61°	87.2	88.0	90.9	94.5	102.4	128.3	220.6	651.8	1555.3	2750.1	3600.9
62°	88.0	86.5	88.0	90.9	96.6	118.3	193.2	561.7	1458.7	2825.1	3732.9
63°	83.6	82.9	85.1	88.7	91.6	106.7	168.7	485.3	1349.1	2842.4	3844.6
64°	82.2	81.5	82.2	87.2	88.0	100.2	149.3	414.6	1190.5	2871.9	3988.1
65°	78.6	78.6	80.0	82.2	85.1	94.5	133.4	359.8	1032.5	2794.1	4032.1
66°	75.7	76.4	76.4	80.0	82.2	88.0	122.6	305.7	881.1	2670.1	4074.7
67°	73.5	73.5	74.3	77.2	79.3	82.9	110.3	264.6	743.4	2522.2	4009.0
67.5°	72.1	72.8	72.8	75.7	77.9	82.9	105.3	250.9	664.8	2360.0	3960.0
68°	69.9	70.7	70.7	73.5	75.7	80.0	101.7	229.3	612.9	2254.7	3869.2
69°	68.5	67.8	67.8	70.7	73.5	76.4	94.5	200.5	487.4	1960.5	3736.5
70°	64.2	64.2	65.6	67.8	69.9	72.8	87.2	176.7	412.4	1623.1	3394.7
71°	62.0	61.3	62.0	64.2	66.3	69.9	80.0	156.5	337.5	1347.6	3058.7
72°	57.7	59.1	59.1	61.3	63.5	65.6	75.0	136.3	283.4	1077.3	2688.8
72.5°	57.0	57.0	57.7	59.8	61.3	64.9	72.1	130.5	258.9	949.6	2533.8
73°	54.8	54.8	55.5	57.7	59.1	62.7	69.9	117.5	235.8	845.1	2243.9
74°	52.6	51.9	51.9	54.8	55.5	59.1	65.6	103.8	197.6	636.7	1801.2
75°	49.0	49.0	49.8	51.2	51.9	54.8	60.6	92.3	166.6	493.9	1408.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	40.4	41.1	41.8	43.3	43.3	45.4	49.8	64.2	101.7	250.2	646.8
80°	29.6	31.0	33.2	35.3	34.6	34.6	38.9	46.1	60.6	112.5	248.0
82.5°	23.8	25.2	23.1	26.0	26.0	24.5	28.1	33.9	41.1	55.5	88.7
85°	15.9	16.6	13.7	15.9	15.1	15.1	18.7	20.2	25.2	31.0	44.0
87.5°	7.2	7.2	5.8	6.5	6.5	6.5	9.4	7.2	10.8	15.1	26.0
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°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	615.8	618.7	618.7	615.8	613.6	615.8	614.3	610.7	614.3	615.8	616.5
5°	624.4	618.7	621.5	615.1	619.4	618.7	617.2	620.8	621.5	621.5	626.6
7.5°	633.8	641.0	631.6	632.4	634.5	625.9	628.8	630.2	627.3	633.1	637.4
10°	650.4	653.3	650.4	639.6	646.8	641.0	638.9	645.3	643.9	645.3	651.8
12.5°	665.5	670.6	662.6	661.9	658.3	653.3	656.2	655.4	665.5	667.0	674.9
15°	696.5	683.6	680.7	680.0	678.5	676.3	677.8	678.5	691.5	693.7	712.4
17.5°	723.2	721.1	705.2	711.0	711.0	702.3	698.7	711.0	721.1	731.9	744.8
20°	750.6	748.5	731.1	731.9	725.4	733.3	729.0	740.5	757.8	761.4	773.0
22.5°	783.1	773.7	761.4	762.9	765.0	759.3	756.4	772.2	789.6	799.6	800.4
25°	834.3	810.5	800.4	801.8	798.9	794.6	796.8	817.0	825.6	847.2	842.9
27.5°	861.7	848.0	840.7	824.2	824.9	818.4	827.0	857.3	874.6	891.2	858.1
30°	894.8	886.2	854.4	848.7	848.0	845.1	860.9	899.9	925.8	935.2	887.6
32.5°	959.7	925.1	917.2	912.1	900.6	904.2	912.1	963.3	1004.4	1002.3	915.0
35°	1034.0	1010.2	987.8	983.5	982.1	972.0	985.7	1045.5	1077.3	1067.9	925.1
37.5°	1153.0	1116.9	1086.6	1070.0	1067.2	1059.9	1092.4	1140.0	1181.1	1144.3	933.0
40°	1211.4	1171.0	1142.9	1132.8	1134.9	1145.0	1176.8	1249.6	1267.6	1199.8	939.5
42.5°	1295.0	1251.0	1195.5	1190.5	1184.0	1189.0	1250.3	1348.4	1363.5	1274.8	915.0
45°	1443.5	1377.2	1313.0	1284.2	1285.6	1299.3	1394.5	1502.0	1473.8	1326.7	876.1
47.5°	1631.0	1533.7	1481.8	1442.8	1461.6	1446.4	1597.9	1683.7	1587.8	1392.4	828.5
50°	1912.9	1776.7	1706.0	1659.1	1667.1	1680.1	1833.6	1906.5	1713.9	1424.1	755.7
52.5°	2268.4	2093.2	1989.4	1926.6	1932.4	1960.5	2158.8	2136.5	1858.1	1450.8	658.3
55°	2693.8	2513.6	2312.4	2286.5	2280.0	2347.0	2565.5	2377.3	1987.9	1408.2	557.4
56°	2918.8	2727.0	2517.9	2464.6	2448.7	2495.6	2752.3	2497.7	2032.6	1360.6	509.1
57°	3109.9	2926.7	2697.5	2606.6	2626.8	2714.8	2937.6	2610.9	2073.7	1311.6	463.6
58°	3372.4	3163.3	2921.0	2851.8	2833.7	2903.7	3137.3	2724.9	2087.4	1261.1	421.8
59°	3634.1	3383.2	3164.7	3038.5	3043.6	3171.2	3334.1	2860.4	2108.4	1196.9	368.5
60°	3833.1	3706.9	3414.9	3320.4	3307.5	3492.1	3530.3	2951.3	2130.7	1110.4	331.0
61°	4115.0	3950.6	3678.8	3556.9	3592.3	3740.1	3742.3	3065.2	2097.5	1000.8	284.8
62°	4317.7	4274.4	3988.9	3872.8	3862.0	4058.1	3962.9	3165.4	2068.7	897.0	251.6
63°	4554.9	4554.9	4294.6	4203.7	4208.8	4363.8	4058.8	3265.6	2035.5	782.3	221.4
64°	4678.2	4833.2	4593.1	4465.5	4498.6	4632.8	4229.7	3331.3	1933.1	666.3	194.7
65°	4784.9	5017.8	4884.4	4825.3	4774.8	4854.1	4377.5	3392.5	1776.7	566.7	173.1
66°	4875.0	5191.6	5147.6	5084.1	5079.1	5061.1	4406.3	3390.4	1615.2	478.8	151.4
67°	4829.6	5195.2	5275.2	5301.9	5294.0	5103.6	4355.9	3313.2	1408.2	404.5	134.8
67.5°	4788.5	5165.6	5351.6	5336.5	5369.7	5139.7	4364.5	3218.8	1261.1	366.3	126.9
68°	4752.5	5126.0	5382.7	5402.1	5385.5	5144.0	4316.9	3143.8	1160.9	343.9	119.7
69°	4479.2	4937.8	5332.9	5402.8	5360.3	4978.9	4165.5	2948.4	922.2	293.5	110.3
70°	4205.2	4694.0	5091.3	5219.7	5167.1	4659.4	3974.4	2637.6	760.7	250.9	99.5
71°	3825.9	4241.2	4769.8	4846.9	4783.5	4296.0	3579.3	2309.5	592.0	212.7	88.7
72°	3311.1	3663.7	4168.4	4355.2	4261.4	3773.3	3179.8	1908.6	479.5	178.8	80.8
72.5°	3055.8	3417.1	3903.8	3918.9	3936.9	3546.1	3010.4	1676.4	418.2	165.8	78.6
73°	2813.5	3167.6	3588.7	3642.0	3565.6	3163.3	2757.3	1499.1	382.2	151.4	75.7
74°	2280.0	2481.9	2830.8	2882.8	2815.7	2579.2	2253.3	1149.4	304.3	130.5	69.2
75°	1794.0	1905.0	2220.8	2189.1	2088.9	2006.0	1747.1	878.2	246.6	114.6	64.2



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	806.1	873.2	925.8	925.8	931.6	889.1	805.4	403.1	152.1	82.9	52.6
80°	307.2	343.9	355.5	356.2	361.2	374.2	348.3	198.3	90.1	59.1	42.5
82.5°	222.8	311.5	335.3	318.0	319.4	288.4	133.4	88.0	57.0	41.1	31.0
85°	201.9	271.1	287.0	284.8	285.5	266.8	78.6	43.3	33.2	26.0	21.6
87.5°	98.1	95.9	101.7	114.6	111.8	144.9	66.3	21.6	14.4	10.8	10.8
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):

	135°	145°	155°	165°	175°	180°
0°	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	610.7	610.0	620.1	610.0	615.8	611.5
5°	617.9	620.8	623.0	627.3	617.2	627.3
7.5°	639.6	642.5	643.2	646.8	642.5	641.7
10°	656.2	663.4	667.7	653.3	661.9	661.2
12.5°	688.6	681.4	680.7	677.8	669.9	667.0
15°	711.7	700.9	694.4	682.8	673.5	669.9
17.5°	744.1	723.2	696.5	672.7	656.2	643.2
20°	764.3	726.8	673.5	645.3	620.1	625.9
22.5°	777.3	723.2	652.6	616.5	591.3	598.5
25°	781.6	705.2	638.1	593.4	568.9	563.9
27.5°	769.4	684.3	610.0	559.5	537.9	542.2
30°	763.6	654.0	584.1	534.3	505.5	509.8
32.5°	748.5	623.0	549.4	499.0	478.1	470.8
35°	726.8	597.0	516.3	468.7	443.4	437.7
37.5°	700.1	564.6	487.4	429.7	407.4	403.1
40°	660.5	525.6	445.6	395.9	369.9	369.2
42.5°	625.9	488.2	406.7	355.5	329.5	331.0
45°	581.9	437.7	362.0	318.0	292.0	293.5
47.5°	525.6	390.8	319.4	270.4	248.8	247.3
50°	459.3	337.5	267.5	225.7	207.7	204.1
52.5°	395.9	283.4	219.2	181.7	166.6	165.1
55°	315.8	220.6	170.9	142.8	131.2	132.0
56°	287.0	203.3	155.7	130.5	121.9	121.9
57°	259.6	180.3	141.3	120.4	112.5	112.5
58°	229.3	158.6	128.3	108.9	105.3	102.4
59°	208.4	144.2	116.1	103.1	97.3	96.6
60°	183.9	129.8	108.2	96.6	92.3	91.6
61°	163.0	116.8	99.5	90.1	88.7	88.7
62°	145.7	108.2	92.3	87.2	86.5	84.4
63°	130.5	99.5	88.7	82.9	80.8	82.9
64°	116.8	91.6	85.8	81.5	78.6	80.0
65°	106.0	88.0	82.2	79.3	76.4	77.2
66°	98.8	82.2	79.3	75.7	74.3	75.0
67°	89.4	79.3	76.4	72.8	72.1	72.8
67.5°	86.5	77.2	75.0	71.4	70.7	71.4
68°	84.4	75.7	74.3	70.7	69.9	69.2
69°	78.6	72.8	70.7	69.2	67.8	67.1
70°	73.5	69.9	68.5	66.3	64.9	64.2
71°	70.7	66.3	65.6	63.5	62.0	61.3
72°	67.1	64.2	62.7	59.8	59.1	59.8
72.5°	66.3	62.7	62.0	59.1	58.4	58.4
73°	64.2	59.8	60.6	57.7	56.2	57.7
74°	59.8	58.4	57.0	54.8	54.1	54.1
75°	56.2	54.8	53.4	51.9	51.9	51.9



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	47.6	46.9	47.6	44.7	44.0	43.3
80°	38.2	38.2	38.9	36.8	35.3	34.6
82.5°	28.8	29.6	31.0	28.8	27.4	26.0
85°	18.7	19.5	19.5	17.3	20.2	18.7
87.5°	9.4	10.1	9.4	8.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)