

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: P676111

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676111
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

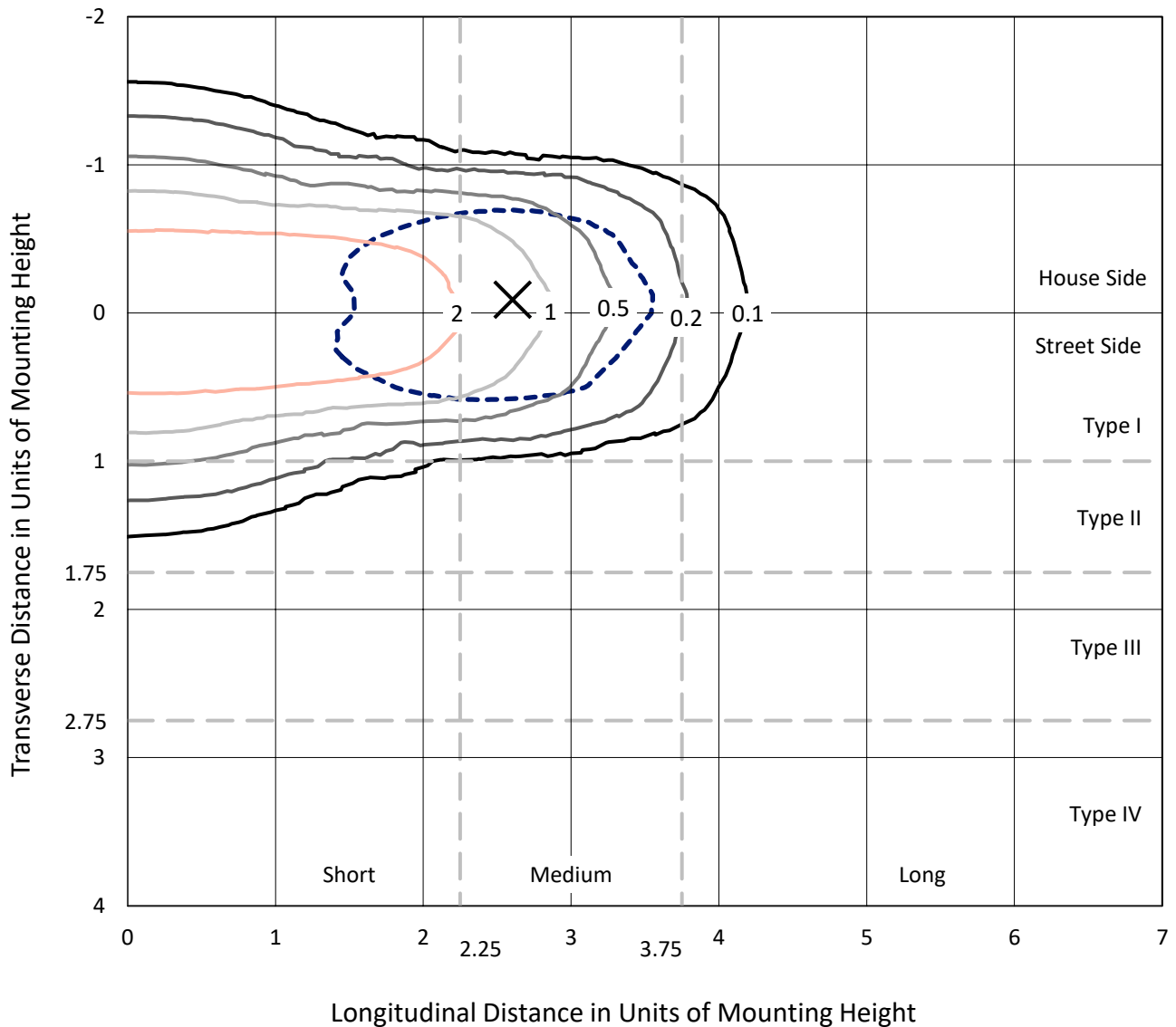
Lumens per Lamp: N/A
Luminaire Lumens: 4945.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
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

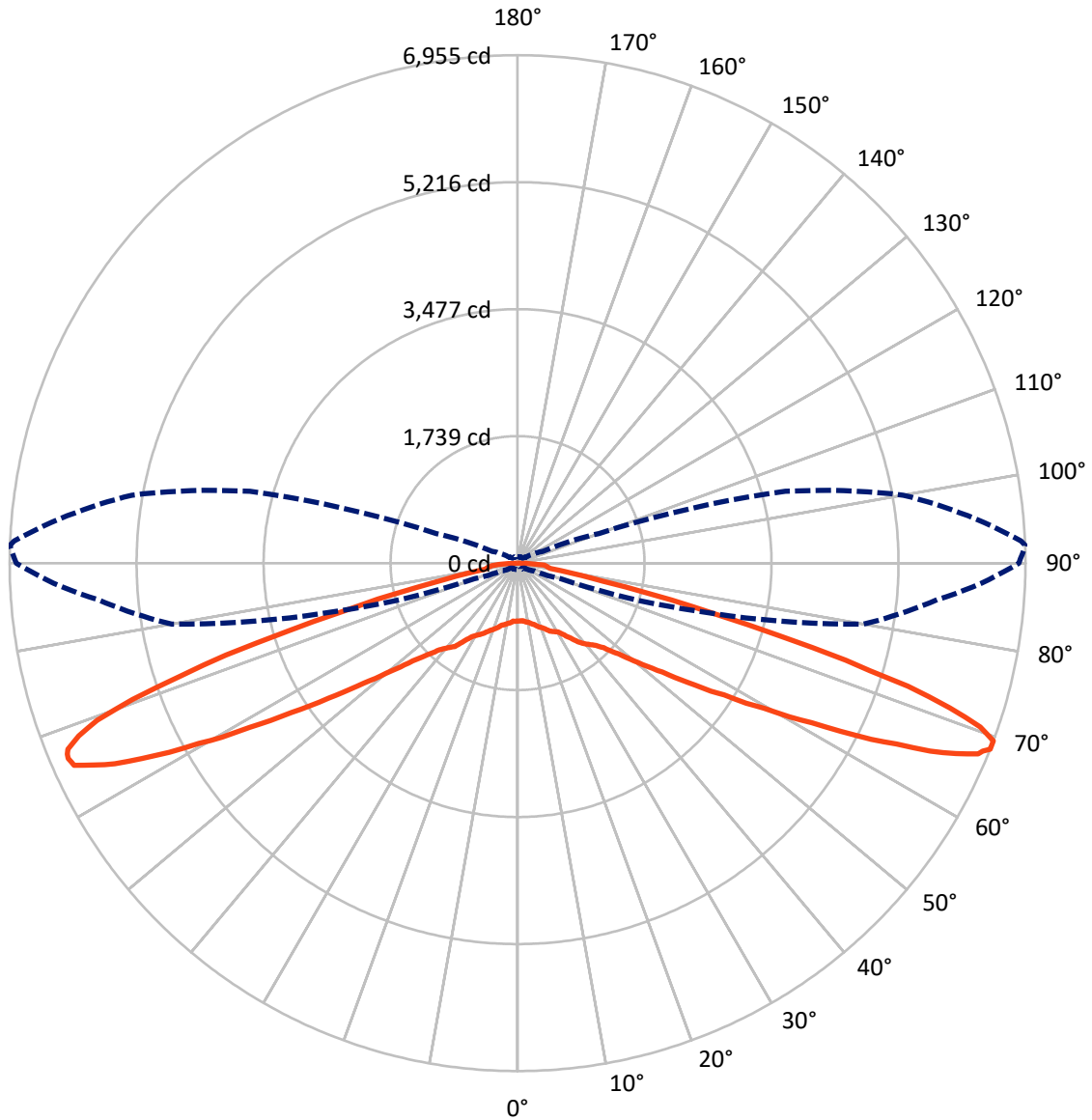
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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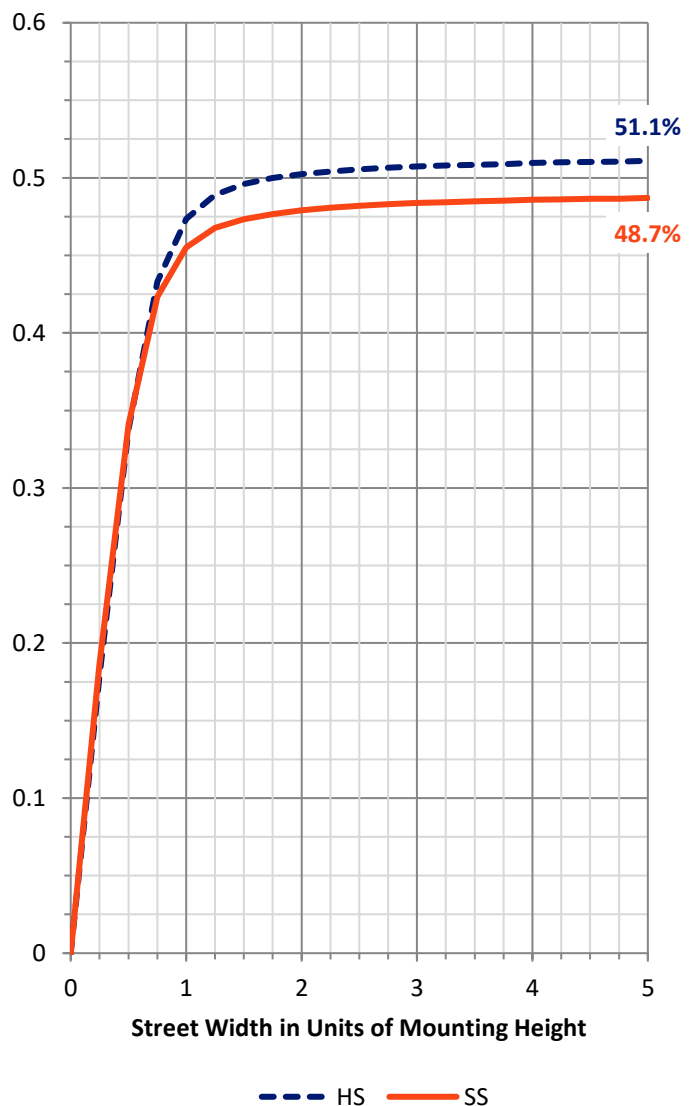
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.7	0.0	2546.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2398.5	0.0	2398.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	4945.2	0.0	4945.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.6
10°-20°	256.5	5.2
20°-30°	437.8	8.9
30°-40°	611.3	12.4
40°-50°	777.6	15.7
50°-60°	983.2	19.9
60°-70°	1212.5	24.5
70°-80°	529.7	10.7
80°-90°	57.5	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°	4945.2	100.0
0°-180°	4945.2	100.0



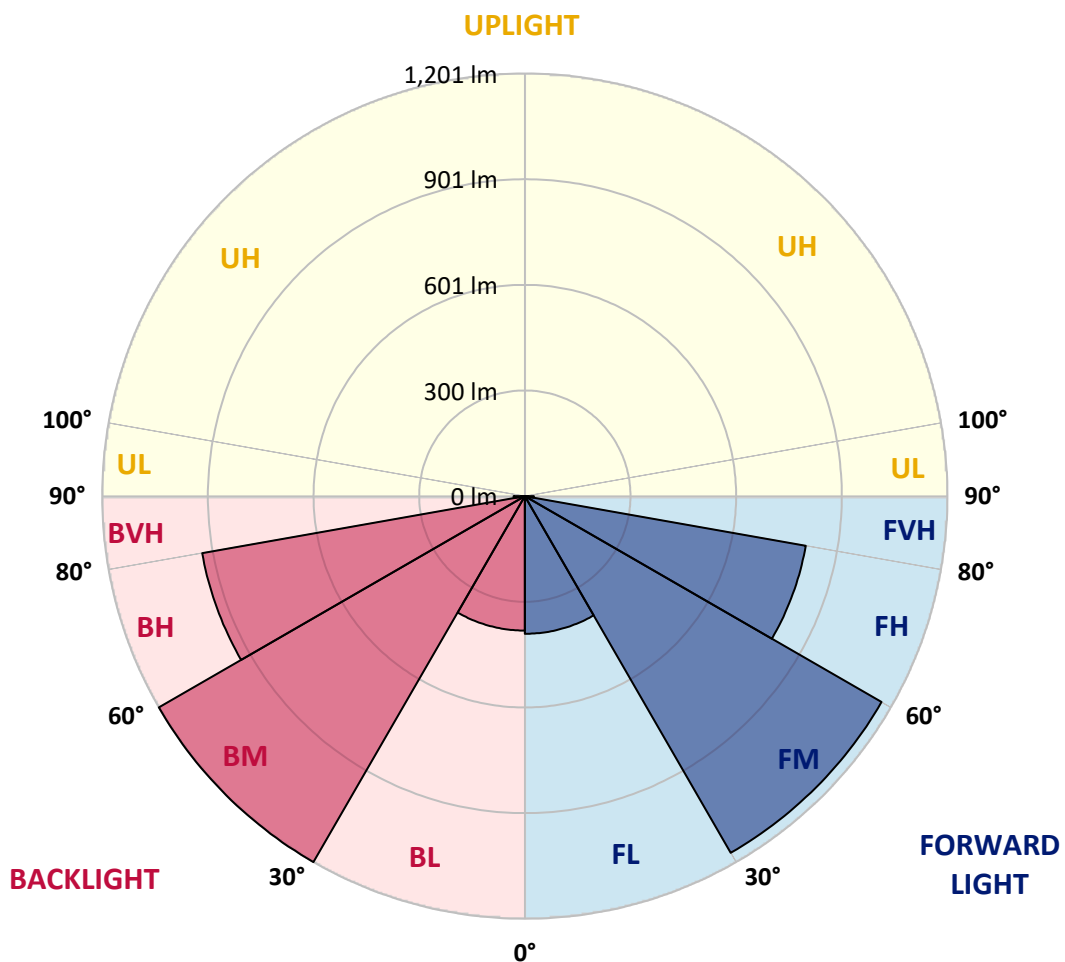
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.4	7.9			
FM (30°-60°)	1170.7	23.7			
FH (60°-80°)	810.9	16.4			G1/1800
FVH (80°-90°)	25.5	0.5			G1/100
BL (0°-30°)	382.2	7.7	B1/500		
BM (30°-60°)	1201.3	24.3	B2/2500		
BH (60°-80°)	931.3	18.8	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	807.5	806.5	809.3	811.2	802.8	805.6	803.8	801.9	795.4	792.6	787.1
5°	829.8	832.5	841.8	833.5	837.2	832.5	817.7	822.3	814.0	812.1	806.5
7.5°	868.7	863.2	876.2	866.9	869.7	860.4	853.9	845.5	843.7	830.7	831.6
10°	877.1	888.2	893.8	891.9	893.8	898.4	886.4	873.4	855.7	852.0	839.0
12.5°	871.5	881.7	896.6	908.6	917.0	918.9	914.2	911.4	904.0	882.7	881.7
15°	866.0	858.5	867.8	909.6	937.4	956.0	962.5	946.7	948.6	920.7	909.6
17.5°	828.8	817.7	853.9	894.7	929.1	969.9	1001.5	996.8	996.8	974.5	958.8
20°	779.6	798.2	816.8	868.7	931.8	993.1	1053.4	1050.6	1039.5	1033.0	998.7
22.5°	737.9	746.2	780.6	835.3	914.2	999.6	1071.1	1122.1	1096.1	1070.1	1049.7
25°	709.1	701.7	745.3	801.9	897.5	988.5	1104.5	1157.4	1171.3	1151.8	1112.8
27.5°	668.3	668.3	702.6	756.4	843.7	982.9	1137.0	1217.7	1238.1	1209.4	1152.7
30°	621.9	627.4	657.1	718.4	803.8	942.1	1150.0	1287.3	1304.0	1279.0	1220.5
32.5°	585.7	585.7	619.1	684.0	775.9	923.5	1141.6	1356.0	1387.6	1369.0	1308.7
35°	546.7	543.9	568.0	639.5	731.4	887.3	1138.8	1410.8	1481.3	1482.2	1419.1
37.5°	491.0	502.1	532.7	589.4	696.1	852.0	1130.5	1476.7	1602.9	1624.2	1580.6
40°	453.9	458.5	486.3	548.5	641.3	810.3	1118.4	1530.5	1683.6	1757.0	1696.6
42.5°	400.0	406.5	427.9	504.9	588.4	750.9	1065.5	1568.5	1798.7	1882.3	1831.2
45°	343.4	347.1	378.7	441.8	531.8	680.3	1008.9	1629.8	1910.1	2080.9	2051.2
47.5°	275.7	277.5	304.4	370.3	464.1	609.8	921.6	1627.0	2000.1	2279.5	2363.0
50°	215.3	220.0	240.4	294.2	382.4	523.5	820.5	1604.7	2113.4	2506.0	2670.2
52.5°	171.7	172.6	185.6	228.3	295.1	437.2	711.9	1534.2	2220.1	2727.8	3047.1
55°	142.0	142.0	149.4	175.4	226.5	332.3	584.7	1417.3	2233.1	2972.8	3458.2
56°	136.4	134.6	141.1	163.4	204.2	299.8	525.3	1338.4	2251.7	3086.0	3664.3
57°	129.0	129.9	133.7	149.4	183.8	265.4	459.4	1261.3	2238.7	3178.9	3816.5
58°	125.3	123.4	130.9	141.1	162.4	235.7	413.9	1170.4	2218.2	3255.0	4038.3
59°	119.7	118.8	123.4	132.7	151.3	209.8	358.3	1072.0	2178.3	3353.4	4203.5
60°	117.9	116.9	118.8	126.2	139.2	183.8	315.6	956.9	2071.6	3454.5	4408.6
61°	112.3	113.2	116.9	121.6	131.8	165.2	284.0	839.0	2002.0	3539.9	4635.1
62°	113.2	111.4	113.2	116.9	124.4	152.2	248.7	723.0	1877.6	3636.4	4805.0
63°	107.7	106.7	109.5	114.2	117.9	137.4	217.2	624.6	1736.5	3658.7	4948.8
64°	105.8	104.9	105.8	112.3	113.2	129.0	192.1	533.7	1532.4	3696.8	5133.5
65°	101.2	101.2	103.0	105.8	109.5	121.6	171.7	463.1	1329.1	3596.5	5190.1
66°	97.5	98.4	98.4	103.0	105.8	113.2	157.8	393.5	1134.2	3436.9	5244.9
67°	94.7	94.7	95.6	99.3	102.1	106.7	142.0	340.6	956.9	3246.6	5160.4
67.5°	92.8	93.7	93.7	97.5	100.2	106.7	135.5	323.0	855.7	3037.8	5097.3
68°	90.0	91.0	91.0	94.7	97.5	103.0	130.9	295.1	788.9	2902.3	4980.4
69°	88.2	87.2	87.2	91.0	94.7	98.4	121.6	258.0	627.4	2523.6	4809.6
70°	82.6	82.6	84.5	87.2	90.0	93.7	112.3	227.4	530.9	2089.2	4369.7
71°	79.8	78.9	79.8	82.6	85.4	90.0	103.0	201.4	434.4	1734.7	3937.1
72°	74.3	76.1	76.1	78.9	81.7	84.5	96.5	175.4	364.8	1386.6	3461.0
72.5°	73.3	73.3	74.3	77.0	78.9	83.5	92.8	168.0	333.2	1222.4	3261.5
73°	70.5	70.5	71.5	74.3	76.1	80.7	90.0	151.3	303.5	1087.8	2888.4
74°	67.8	66.8	66.8	70.5	71.5	76.1	84.5	133.7	254.3	819.5	2318.5
75°	63.1	63.1	64.0	65.9	66.8	70.5	78.0	118.8	214.4	635.8	1813.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	52.0	52.9	53.8	55.7	55.7	58.5	64.0	82.6	130.9	322.1	832.5
80°	38.1	39.9	42.7	45.5	44.6	44.6	50.1	59.4	78.0	144.8	319.3
82.5°	30.6	32.5	29.7	33.4	33.4	31.6	36.2	43.6	52.9	71.5	114.2
85°	20.4	21.3	17.6	20.4	19.5	19.5	24.1	26.0	32.5	39.9	56.6
87.5°	9.3	9.3	7.4	8.4	8.4	8.4	12.1	9.3	13.9	19.5	33.4
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°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	792.6	796.3	796.3	792.6	789.8	792.6	790.8	786.1	790.8	792.6	793.6
5°	803.8	796.3	800.1	791.7	797.3	796.3	794.5	799.1	800.1	800.1	806.5
7.5°	815.8	825.1	813.0	814.0	816.8	805.6	809.3	811.2	807.5	814.9	820.5
10°	837.2	840.9	837.2	823.3	832.5	825.1	822.3	830.7	828.8	830.7	839.0
12.5°	856.7	863.2	853.0	852.0	847.4	840.9	844.6	843.7	856.7	858.5	868.7
15°	896.6	879.9	876.2	875.2	873.4	870.6	872.4	873.4	890.1	892.9	917.0
17.5°	930.9	928.1	907.7	915.1	915.1	904.0	899.4	915.1	928.1	942.1	958.8
20°	966.2	963.4	941.1	942.1	933.7	943.9	938.3	953.2	975.5	980.1	995.0
22.5°	1008.0	995.9	980.1	982.0	984.8	977.3	973.6	994.0	1016.3	1029.3	1030.2
25°	1073.9	1043.2	1030.2	1032.1	1028.4	1022.8	1025.6	1051.6	1062.7	1090.6	1085.0
27.5°	1109.1	1091.5	1082.2	1060.9	1061.8	1053.4	1064.6	1103.6	1125.8	1147.2	1104.5
30°	1151.8	1140.7	1099.8	1092.4	1091.5	1087.8	1108.2	1158.3	1191.7	1203.8	1142.5
32.5°	1235.3	1190.8	1180.6	1174.1	1159.2	1163.9	1174.1	1240.0	1292.9	1290.1	1177.8
35°	1330.9	1300.3	1271.5	1266.0	1264.1	1251.1	1268.8	1345.8	1386.6	1374.6	1190.8
37.5°	1484.1	1437.7	1398.7	1377.4	1373.6	1364.4	1406.1	1467.4	1520.3	1473.0	1201.0
40°	1559.3	1507.3	1471.1	1458.1	1460.9	1473.9	1514.7	1608.5	1631.7	1544.4	1209.4
42.5°	1666.9	1610.3	1538.8	1532.4	1524.0	1530.5	1609.4	1735.6	1755.1	1640.9	1177.8
45°	1858.1	1772.7	1690.1	1653.0	1654.9	1672.5	1795.0	1933.3	1897.1	1707.8	1127.7
47.5°	2099.4	1974.1	1907.3	1857.2	1881.3	1861.8	2056.7	2167.2	2043.8	1792.2	1066.4
50°	2462.3	2286.9	2196.0	2135.6	2145.8	2162.6	2360.2	2454.0	2206.2	1833.1	972.7
52.5°	2919.9	2694.4	2560.7	2480.0	2487.4	2523.6	2778.8	2750.1	2391.8	1867.4	847.4
55°	3467.5	3235.5	2976.5	2943.1	2934.8	3021.1	3302.3	3060.1	2558.9	1812.6	717.4
56°	3757.1	3510.2	3241.0	3172.4	3151.9	3212.3	3542.7	3215.1	2616.4	1751.4	655.3
57°	4003.0	3767.3	3472.2	3355.2	3381.2	3494.4	3781.2	3360.8	2669.3	1688.3	596.8
58°	4340.9	4071.7	3759.9	3670.8	3647.6	3737.6	4038.3	3507.4	2687.0	1623.3	543.0
59°	4677.8	4354.8	4073.6	3911.2	3917.7	4081.9	4291.7	3681.9	2713.9	1540.7	474.3
60°	4934.0	4771.5	4395.6	4274.1	4257.4	4495.0	4544.2	3798.9	2742.6	1429.3	426.0
61°	5296.9	5085.3	4735.3	4578.5	4624.0	4814.2	4817.0	3945.5	2699.9	1288.3	366.6
62°	5557.7	5502.0	5134.4	4985.0	4971.1	5223.5	5101.0	4074.5	2662.8	1154.6	323.9
63°	5863.0	5863.0	5528.0	5411.0	5417.5	5617.1	5224.5	4203.5	2620.1	1007.0	284.9
64°	6021.7	6221.3	5912.2	5747.9	5790.6	5963.3	5444.4	4288.0	2488.3	857.6	250.6
65°	6159.1	6458.9	6287.2	6211.1	6146.1	6248.2	5634.7	4366.9	2286.9	729.5	222.8
66°	6275.1	6682.6	6626.0	6544.3	6537.8	6514.6	5671.8	4364.1	2079.0	616.3	194.9
67°	6216.7	6687.2	6790.2	6824.6	6814.4	6569.3	5606.9	4264.8	1812.6	520.7	173.6
67.5°	6163.7	6649.2	6888.6	6869.1	6911.8	6615.7	5618.0	4143.2	1623.3	471.5	163.4
68°	6117.3	6598.1	6928.5	6953.6	6932.2	6621.3	5556.7	4046.7	1494.3	442.7	154.1
69°	5765.6	6355.9	6864.5	6954.5	6899.8	6408.8	5361.8	3795.1	1187.1	377.8	142.0
70°	5412.9	6042.2	6553.6	6718.8	6651.0	5997.6	5115.9	3395.1	979.2	323.0	128.1
71°	4924.7	5459.3	6139.6	6238.9	6157.2	5529.8	4607.3	2972.8	762.0	273.8	114.2
72°	4262.0	4715.9	5365.6	5605.9	5485.3	4856.9	4093.1	2456.8	617.2	230.2	104.0
72.5°	3933.4	4398.4	5024.9	5044.4	5067.6	4564.6	3875.0	2157.9	538.3	213.5	101.2
73°	3621.6	4077.3	4619.3	4688.0	4589.6	4071.7	3549.2	1929.6	491.9	194.9	97.5
74°	2934.8	3194.6	3643.9	3710.7	3624.4	3319.9	2900.4	1479.4	391.7	168.0	89.1
75°	2309.2	2452.1	2858.7	2817.8	2688.8	2582.1	2248.9	1130.5	317.4	147.6	82.6



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1037.7	1124.0	1191.7	1191.7	1199.2	1144.4	1036.7	518.8	195.8	106.7	67.8
80°	395.4	442.7	457.6	458.5	465.0	481.7	448.3	255.2	116.0	76.1	54.8
82.5°	286.8	401.0	431.6	409.3	411.2	371.3	171.7	113.2	73.3	52.9	39.9
85°	259.9	349.0	369.4	366.6	367.5	343.4	101.2	55.7	42.7	33.4	27.8
87.5°	126.2	123.4	130.9	147.6	143.9	186.6	85.4	27.8	18.6	13.9	13.9
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°	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	786.1	785.2	798.2	785.2	792.6	787.1
5°	795.4	799.1	801.9	807.5	794.5	807.5
7.5°	823.3	827.0	827.9	832.5	827.0	826.0
10°	844.6	853.9	859.5	840.9	852.0	851.1
12.5°	886.4	877.1	876.2	872.4	862.2	858.5
15°	916.1	902.1	893.8	878.9	866.9	862.2
17.5°	957.8	930.9	896.6	866.0	844.6	827.9
20°	983.8	935.6	866.9	830.7	798.2	805.6
22.5°	1000.5	930.9	840.0	793.6	761.1	770.4
25°	1006.1	907.7	821.4	763.9	732.3	725.8
27.5°	990.3	880.8	785.2	720.2	692.4	698.0
30°	982.9	841.8	751.8	687.7	650.6	656.2
32.5°	963.4	801.9	707.2	642.3	615.4	606.1
35°	935.6	768.5	664.5	603.3	570.8	563.4
37.5°	901.2	726.7	627.4	553.2	524.4	518.8
40°	850.2	676.6	573.6	509.5	476.1	475.2
42.5°	805.6	628.3	523.5	457.6	424.2	426.0
45°	749.0	563.4	465.9	409.3	375.9	377.8
47.5°	676.6	503.0	411.2	348.1	320.2	318.4
50°	591.2	434.4	344.3	290.5	267.3	262.7
52.5°	509.5	364.8	282.2	233.9	214.4	212.5
55°	406.5	284.0	220.0	183.8	168.9	169.8
56°	369.4	261.7	200.5	168.0	156.9	156.9
57°	334.1	232.0	181.9	155.0	144.8	144.8
58°	295.1	204.2	165.2	140.1	135.5	131.8
59°	268.2	185.6	149.4	132.7	125.3	124.4
60°	236.7	167.1	139.2	124.4	118.8	117.9
61°	209.8	150.4	128.1	116.0	114.2	114.2
62°	187.5	139.2	118.8	112.3	111.4	108.6
63°	168.0	128.1	114.2	106.7	104.0	106.7
64°	150.4	117.9	110.4	104.9	101.2	103.0
65°	136.4	113.2	105.8	102.1	98.4	99.3
66°	127.2	105.8	102.1	97.5	95.6	96.5
67°	115.1	102.1	98.4	93.7	92.8	93.7
67.5°	111.4	99.3	96.5	91.9	91.0	91.9
68°	108.6	97.5	95.6	91.0	90.0	89.1
69°	101.2	93.7	91.0	89.1	87.2	86.3
70°	94.7	90.0	88.2	85.4	83.5	82.6
71°	91.0	85.4	84.5	81.7	79.8	78.9
72°	86.3	82.6	80.7	77.0	76.1	77.0
72.5°	85.4	80.7	79.8	76.1	75.2	75.2
73°	82.6	77.0	78.0	74.3	72.4	74.3
74°	77.0	75.2	73.3	70.5	69.6	69.6
75°	72.4	70.5	68.7	66.8	66.8	66.8



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	61.3	60.3	61.3	57.5	56.6	55.7
80°	49.2	49.2	50.1	47.3	45.5	44.6
82.5°	37.1	38.1	39.9	37.1	35.3	33.4
85°	24.1	25.1	25.1	22.3	26.0	24.1
87.5°	12.1	13.0	12.1	11.1	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)