

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: P674920

Luminaire Tested: **CCW-SA-2D-850-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674920
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T2 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9707.6 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

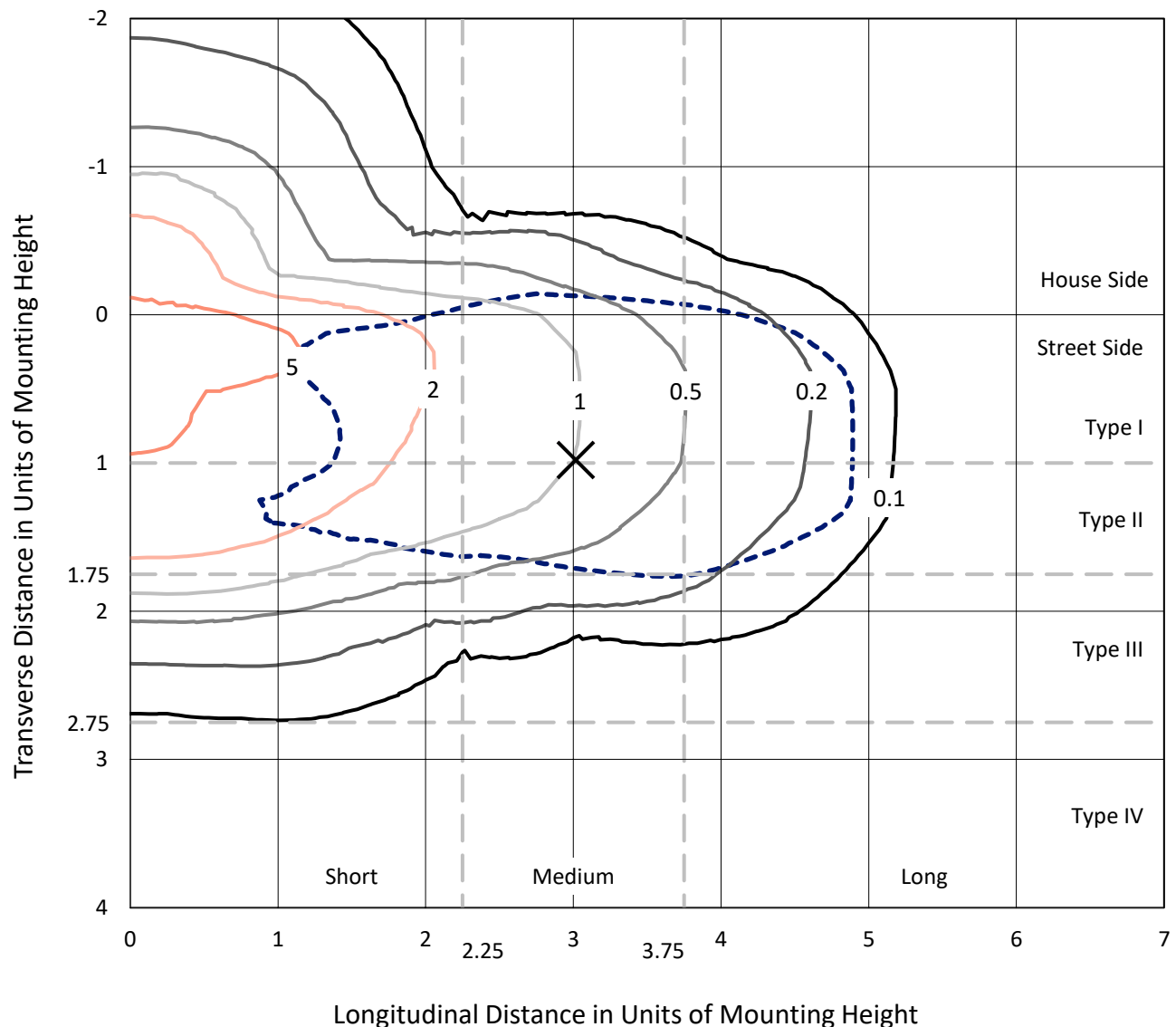
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

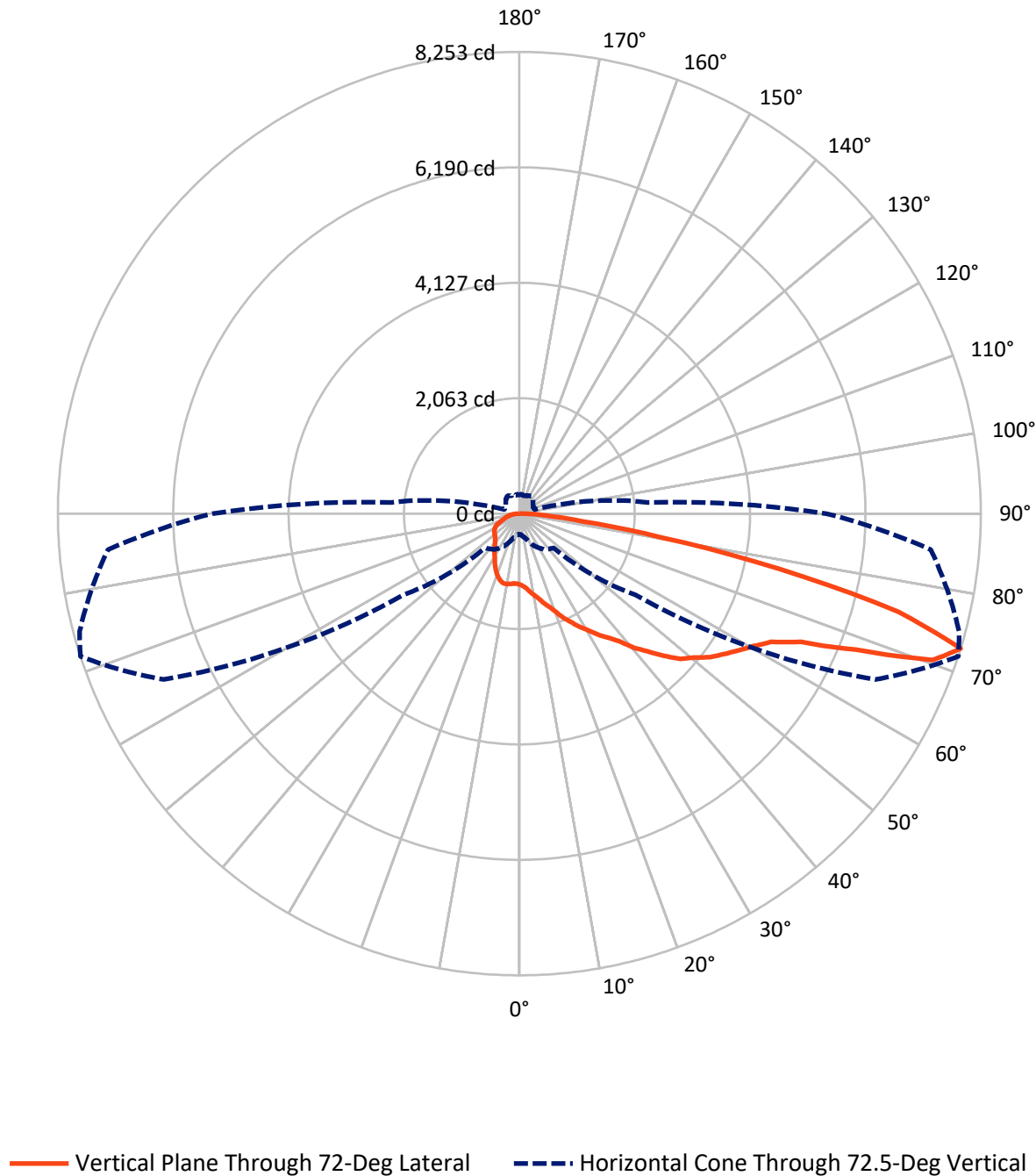
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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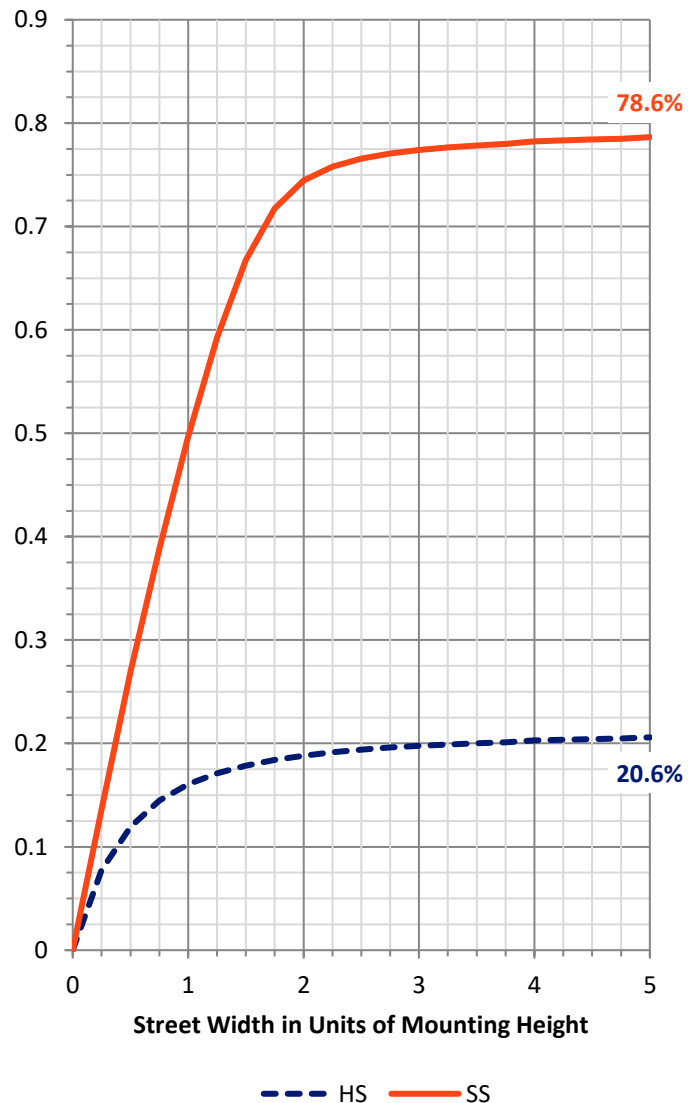
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.0	0.0	2043.0
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	7664.6	0.0	7664.6
	% Fixture	79.0	0.0	79.0
Total	Lumens	9707.6	0.0	9707.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.3
10°-20°	389.6	4.0
20°-30°	674.1	6.9
30°-40°	995.7	10.3
40°-50°	1480.7	15.3
50°-60°	2030.0	20.9
60°-70°	2201.9	22.7
70°-80°	1552.4	16.0
80°-90°	257.9	2.7
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°	9707.6	100.0
0°-180°	9707.6	100.0

Coefficient of Utilization



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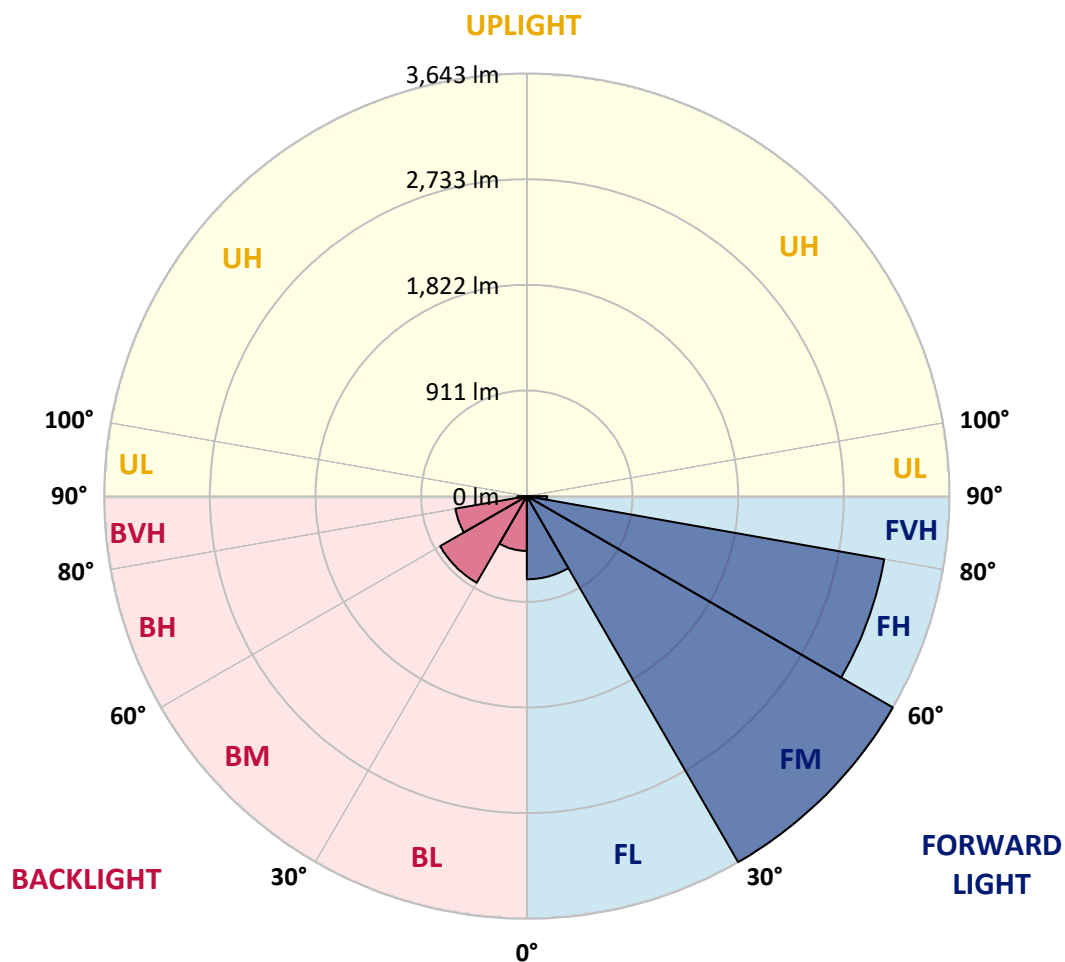
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	716.8	7.4			
FM	(30°-60°)	3643.5	37.5			
FH	(60°-80°)	3128.5	32.2			G2/5000
FVH	(80°-90°)	175.9	1.8			G2/225
BL	(0°-30°)	472.2	4.9	B1/500		
BM	(30°-60°)	862.9	8.9	B1/1000		
BH	(60°-80°)	625.8	6.4	B2/1000		G2/1000
BVH	(80°-90°)	82.1	0.8			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1368.4	1368.4	1357.6	1354.1	1354.1	1325.4	1329.0	1311.1	1296.7	1296.7	1282.4
5°	1440.0	1432.9	1432.9	1432.9	1415.0	1404.2	1400.6	1368.4	1343.3	1346.9	1303.9
7.5°	1457.9	1461.5	1465.1	1483.0	1472.3	1479.4	1472.3	1436.4	1418.5	1400.6	1361.2
10°	1468.7	1475.9	1475.9	1500.9	1500.9	1518.8	1529.6	1515.3	1483.0	1465.1	1400.6
12.5°	1493.8	1483.0	1497.3	1515.3	1533.2	1565.4	1597.6	1583.3	1561.8	1540.3	1468.7
15°	1493.8	1497.3	1508.1	1536.8	1565.4	1597.6	1655.0	1676.5	1665.7	1626.3	1551.1
17.5°	1450.8	1440.0	1490.2	1543.9	1597.6	1637.1	1712.3	1762.4	1755.3	1740.9	1626.3
20°	1454.4	1465.1	1483.0	1529.6	1615.6	1687.2	1780.3	1862.7	1880.6	1873.5	1726.6
22.5°	1518.8	1522.4	1540.3	1561.8	1629.9	1723.0	1862.7	1995.3	2027.5	2009.6	1837.7
25°	1583.3	1612.0	1612.0	1626.3	1651.4	1748.1	1916.5	2102.7	2149.3	2152.9	1952.3
27.5°	1687.2	1694.4	1715.9	1723.0	1744.5	1801.8	1977.4	2181.5	2289.0	2274.7	2056.2
30°	1809.0	1812.6	1826.9	1819.7	1823.3	1895.0	2034.7	2271.1	2418.0	2421.5	2167.2
32.5°	1952.3	1980.9	1988.1	1941.5	1948.7	1966.6	2124.2	2378.6	2579.2	2554.1	2263.9
35°	2163.6	2174.4	2152.9	2131.4	2077.7	2066.9	2217.4	2486.0	2718.9	2747.5	2407.2
37.5°	2425.1	2453.8	2425.1	2310.5	2253.2	2210.2	2332.0	2604.2	2887.2	2983.9	2550.5
40°	2668.7	2665.1	2636.5	2532.6	2432.3	2400.1	2496.8	2769.0	3148.7	3241.9	2758.3
42.5°	2865.7	2855.0	2837.1	2758.3	2665.1	2611.4	2686.6	2941.0	3367.2	3546.3	2998.3
45°	3037.7	3023.3	3026.9	2937.4	2847.8	2876.5	2876.5	3138.0	3625.2	3847.2	3274.1
47.5°	3198.9	3206.0	3195.3	3127.2	3059.2	3134.4	3095.0	3363.7	3879.5	4126.7	3506.9
50°	3385.1	3399.5	3363.7	3320.7	3259.8	3335.0	3284.8	3575.0	4044.3	4381.0	3786.4
52.5°	3560.7	3575.0	3607.2	3553.5	3492.6	3553.5	3438.9	3772.0	4262.8	4628.2	4001.3
55°	3603.7	3596.5	3775.6	3832.9	3865.2	3682.5	3575.0	3940.4	4434.7	4785.8	4244.9
57.5°	3406.6	3424.6	3668.1	3832.9	4176.8	4019.2	3729.0	4137.4	4613.8	4993.5	4470.5
60°	2915.9	2926.6	3231.1	3621.6	4123.1	4334.4	4144.6	4391.7	4810.9	5169.1	4724.9
62.5°	1948.7	2031.1	2410.8	3023.3	3743.4	4420.4	4807.3	4821.6	5050.9	5391.2	5072.3
65°	1028.1	1067.5	1364.8	1859.1	2837.1	4123.1	5430.6	5674.2	5530.9	5799.5	5573.9
67.5°	673.4	687.8	849.0	1128.4	1637.1	3009.0	5502.2	7153.6	6494.5	6576.9	6376.3
70°	501.5	508.7	626.9	834.6	1013.8	1608.4	4509.9	7844.9	7841.4	7622.9	7329.1
72.5°	369.0	379.7	462.1	637.6	780.9	866.9	2536.2	7017.5	8253.3	8142.3	7386.4
75°	290.2	297.3	340.3	494.3	630.5	569.6	1286.0	5197.7	6999.6	7533.3	6759.6
77.5°	236.4	243.6	268.7	358.2	505.1	440.6	616.1	3352.9	4746.4	5423.4	5172.7
80°	197.0	197.0	214.9	254.3	390.5	333.1	365.4	1884.2	2557.7	2822.7	2346.3
82.5°	168.4	164.8	179.1	186.3	290.2	240.0	236.4	852.6	1124.8	1192.9	881.2
85°	107.5	111.0	168.4	161.2	189.9	164.8	132.5	404.8	530.2	540.9	329.6
87.5°	43.0	43.0	71.6	89.6	107.5	100.3	64.5	182.7	232.8	232.8	93.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1278.8	1264.5	1253.8	1246.6	1228.7	1210.8	1214.4	1210.8	1196.4	1189.3	1189.3
5°	1293.2	1278.8	1260.9	1232.3	1214.4	1192.9	1200.0	1185.7	1171.4	1182.1	1164.2
7.5°	1329.0	1303.9	1278.8	1235.8	1207.2	1175.0	1160.6	1153.5	1142.7	1135.5	1135.5
10°	1379.1	1343.3	1296.7	1232.3	1185.7	1135.5	1128.4	1114.1	1103.3	1103.3	1099.7
12.5°	1429.3	1389.9	1311.1	1207.2	1128.4	1092.6	1089.0	1092.6	1099.7	1103.3	1106.9
15°	1493.8	1429.3	1307.5	1160.6	1081.8	1067.5	1085.4	1099.7	1114.1	1128.4	1124.8
17.5°	1554.7	1479.4	1275.3	1103.3	1042.4	1046.0	1078.2	1106.9	1135.5	1149.9	1153.5
20°	1637.1	1526.0	1228.7	1035.2	1003.0	1035.2	1078.2	1114.1	1146.3	1164.2	1167.8
22.5°	1730.2	1579.7	1167.8	974.3	970.8	1003.0	1046.0	1099.7	1135.5	1167.8	1164.2
25°	1812.6	1615.6	1089.0	924.2	931.4	952.9	1003.0	1060.3	1096.1	1132.0	1121.2
27.5°	1866.3	1622.7	1006.6	888.4	888.4	909.9	956.4	992.3	1024.5	1053.2	1056.7
30°	1927.2	1608.4	913.5	841.8	841.8	870.5	888.4	909.9	927.8	934.9	942.1
32.5°	1998.8	1576.2	856.1	806.0	806.0	827.5	838.2	831.1	827.5	809.6	820.3
35°	2066.9	1529.6	791.7	759.4	773.7	784.5	780.9	759.4	737.9	705.7	694.9
37.5°	2149.3	1483.0	734.3	709.3	734.3	737.9	737.9	712.9	684.2	644.8	644.8
40°	2274.7	1447.2	687.8	677.0	702.1	698.5	680.6	662.7	673.4	652.0	652.0
42.5°	2407.2	1432.9	644.8	648.4	659.1	662.7	644.8	623.3	666.3	641.2	644.8
45°	2572.0	1443.6	616.1	612.6	637.6	634.0	623.3	605.4	619.7	555.2	537.3
47.5°	2726.0	1465.1	601.8	587.5	616.1	623.3	609.0	569.6	548.1	508.7	501.5
50°	2865.7	1511.7	587.5	558.8	587.5	601.8	576.7	533.7	508.7	483.6	483.6
52.5°	2998.3	1579.7	580.3	526.6	551.7	569.6	555.2	512.3	483.6	472.8	462.1
55°	3134.4	1640.6	569.6	505.1	512.3	548.1	544.5	487.2	458.5	458.5	454.9
57.5°	3327.8	1723.0	555.2	469.3	483.6	523.0	523.0	476.4	444.2	447.8	451.4
60°	3524.9	1819.7	540.9	433.4	444.2	497.9	505.1	462.1	433.4	437.0	433.4
62.5°	3840.1	1998.8	512.3	390.5	411.9	465.7	483.6	444.2	419.1	426.3	426.3
65°	4316.5	2306.9	451.4	354.6	379.7	437.0	462.1	426.3	397.6	419.1	411.9
67.5°	5083.1	2729.6	379.7	326.0	358.2	408.4	437.0	404.8	379.7	411.9	401.2
70°	5770.9	2937.4	326.0	300.9	326.0	376.1	408.4	383.3	358.2	390.5	376.1
72.5°	5491.5	2303.3	283.0	272.2	297.3	340.3	379.7	354.6	329.6	347.5	333.1
75°	4739.2	1834.1	247.2	243.6	265.1	308.1	347.5	329.6	304.5	311.6	304.5
77.5°	3592.9	1515.3	211.3	207.8	225.7	275.8	311.6	297.3	272.2	268.7	268.7
80°	1604.8	745.1	175.5	175.5	186.3	236.4	265.1	257.9	232.8	229.3	225.7
82.5°	526.6	283.0	143.3	136.1	150.5	197.0	236.4	229.3	204.2	197.0	189.9
85°	211.3	136.1	103.9	103.9	118.2	164.8	211.3	197.0	164.8	146.9	146.9
87.5°	71.6	57.3	53.7	53.7	75.2	111.0	157.6	132.5	118.2	103.9	107.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)