

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: P675724

Luminaire Tested: **CCW-SA-1E-760-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675724
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-760-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

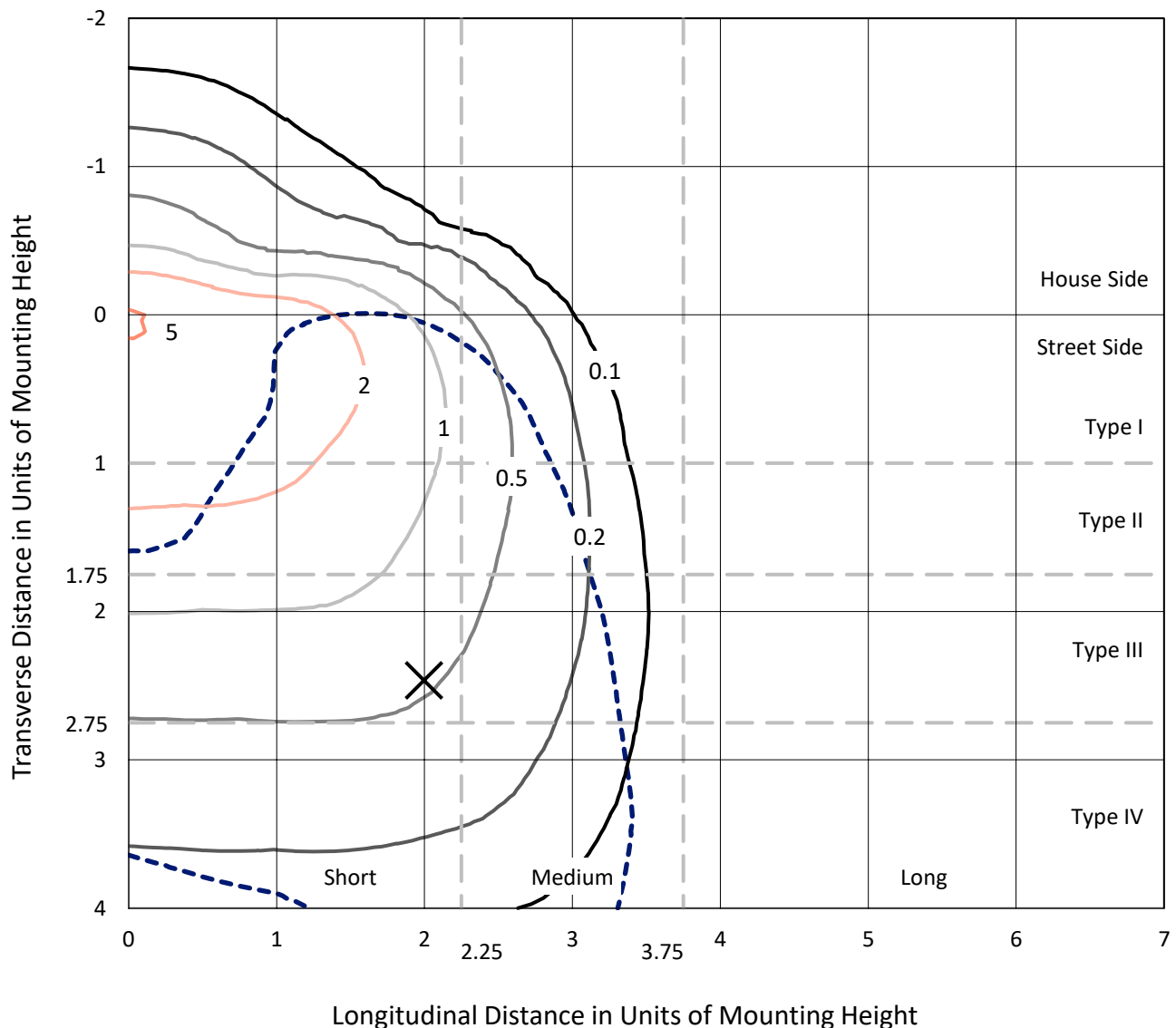
Lumens per Lamp: N/A
Luminaire Lumens: 6853.2 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

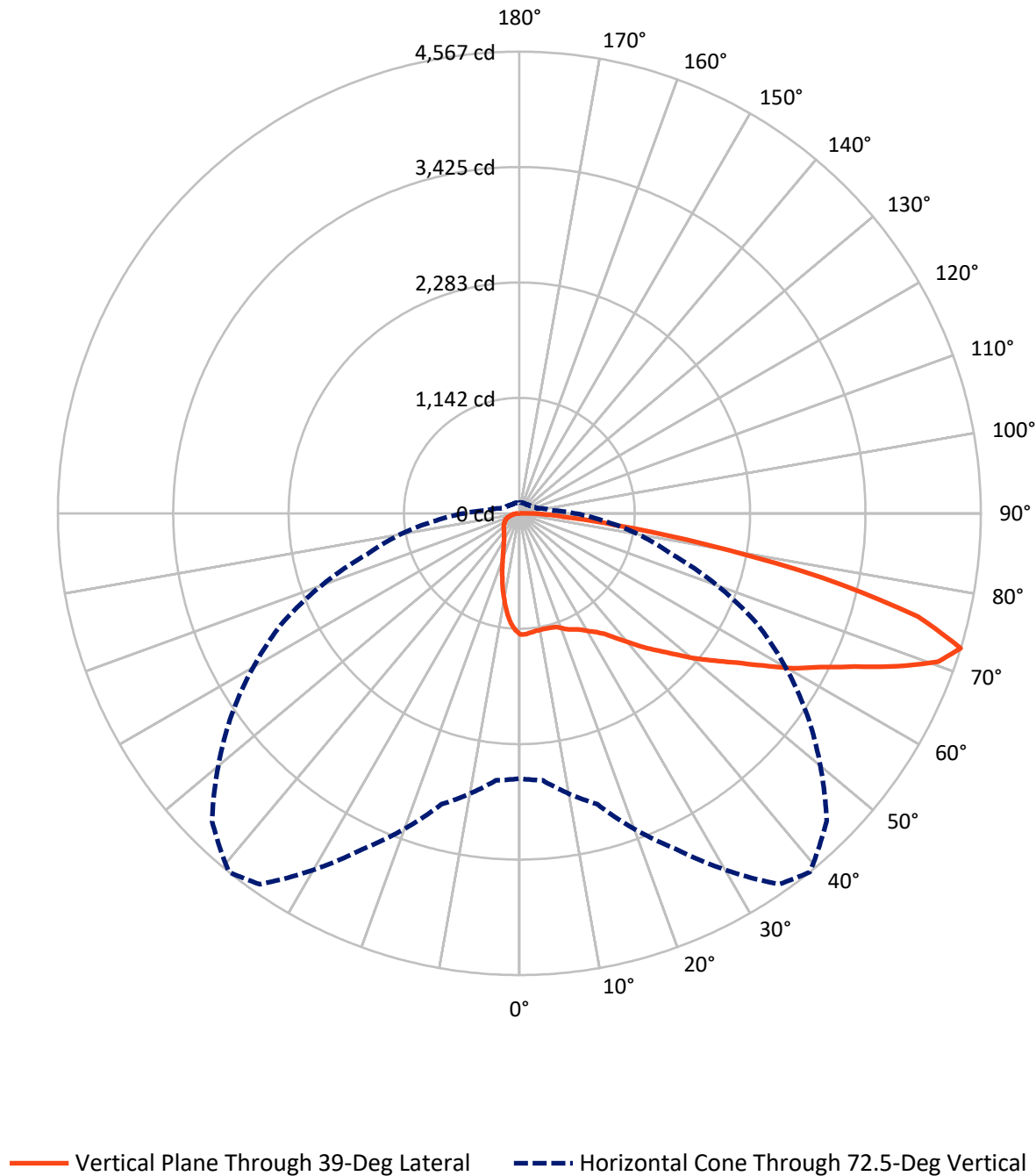
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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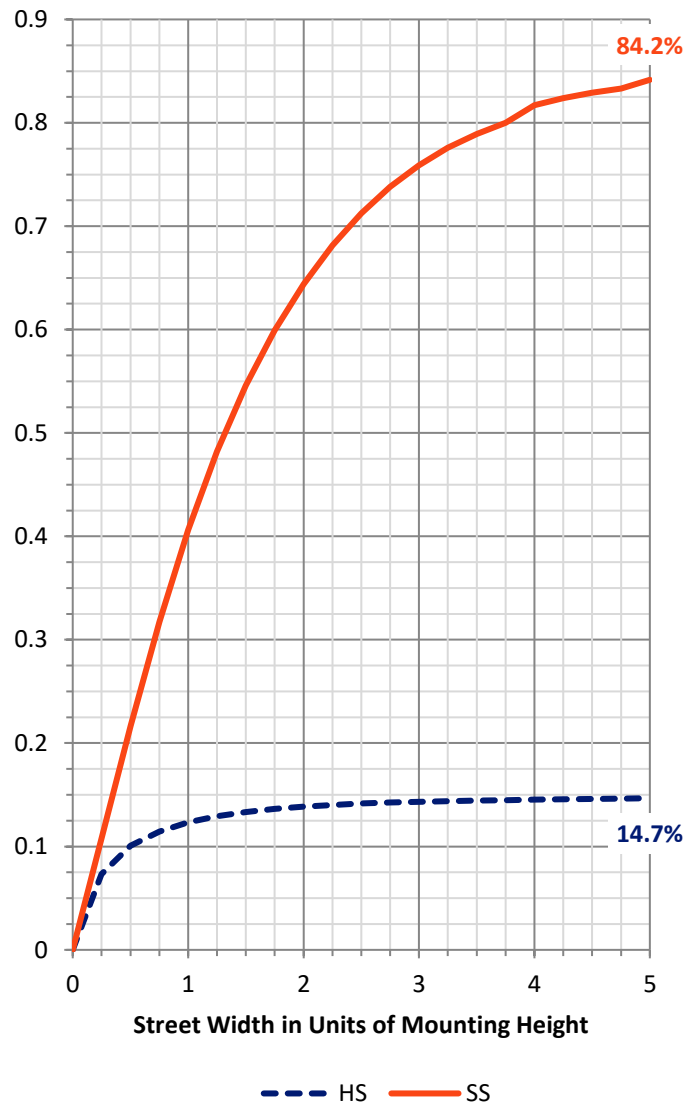
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.5	0.0	1018.5
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5834.7	0.0	5834.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	6853.2	0.0	6853.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.5
10°-20°	270.5	3.9
20°-30°	412.2	6.0
30°-40°	602.9	8.8
40°-50°	923.1	13.5
50°-60°	1353.8	19.8
60°-70°	1726.6	25.2
70°-80°	1247.5	18.2
80°-90°	210.4	3.1
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°	6853.2	100.0
0°-180°	6853.2	100.0

Coefficient of Utilization



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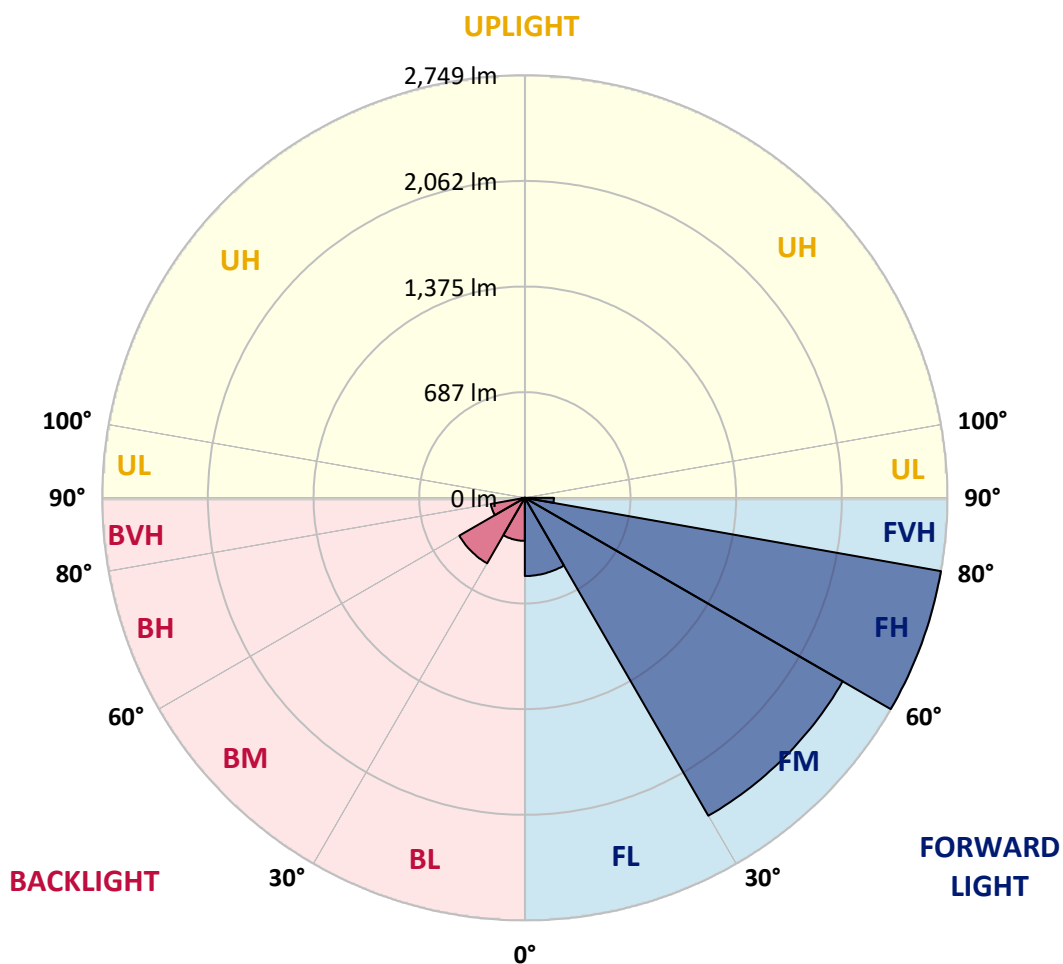
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.6	7.4			
FM	(30°-60°)	2387.8	34.8			
FH	(60°-80°)	2749.1	40.1			G2/5000
FVH	(80°-90°)	189.1	2.8			G2/225
BL	(0°-30°)	280.1	4.1	B1/500		
BM	(30°-60°)	492.0	7.2	B1/1000		
BH	(60°-80°)	225.1	3.3	B1/500		G1/500
BVH	(80°-90°)	21.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1217.6	1220.2	1215.1	1209.9	1207.3	1197.0	1207.3	1202.2	1197.0	1197.0	1197.0
5°	1202.2	1204.8	1204.8	1199.6	1202.2	1184.2	1181.6	1184.2	1176.4	1171.3	1168.7
7.5°	1179.0	1184.2	1194.5	1191.9	1181.6	1173.9	1176.4	1173.9	1161.0	1153.3	1132.7
10°	1161.0	1166.1	1171.3	1176.4	1173.9	1171.3	1168.7	1158.4	1155.8	1137.8	1117.2
12.5°	1143.0	1143.0	1145.5	1166.1	1168.7	1168.7	1153.3	1153.3	1145.5	1143.0	1112.1
15°	1125.0	1132.7	1153.3	1158.4	1168.7	1173.9	1166.1	1166.1	1153.3	1135.3	1112.1
17.5°	1130.1	1143.0	1163.6	1176.4	1181.6	1181.6	1191.9	1184.2	1166.1	1155.8	1132.7
20°	1155.8	1158.4	1184.2	1207.3	1212.5	1212.5	1202.2	1194.5	1181.6	1163.6	1132.7
22.5°	1171.3	1189.3	1220.2	1233.1	1248.5	1248.5	1235.6	1217.6	1199.6	1181.6	1148.1
25°	1238.2	1240.8	1253.7	1274.3	1282.0	1271.7	1258.8	1238.2	1215.1	1197.0	1166.1
27.5°	1284.6	1297.4	1312.9	1323.2	1310.3	1302.6	1292.3	1269.1	1251.1	1235.6	1191.9
30°	1369.5	1354.1	1364.4	1369.5	1346.3	1351.5	1323.2	1302.6	1282.0	1282.0	1233.1
32.5°	1421.0	1433.9	1423.6	1421.0	1403.0	1400.4	1382.4	1359.2	1346.3	1361.8	1294.9
35°	1511.1	1503.4	1503.4	1500.8	1480.2	1467.3	1467.3	1426.1	1439.0	1472.5	1390.1
37.5°	1557.4	1554.9	1570.3	1583.2	1562.6	1570.3	1562.6	1544.6	1549.7	1608.9	1508.5
40°	1603.8	1621.8	1652.7	1657.8	1670.7	1681.0	1675.8	1673.3	1693.9	1789.1	1668.1
42.5°	1647.5	1663.0	1709.3	1750.5	1781.4	1814.9	1817.4	1817.4	1884.4	2020.8	1861.2
45°	1704.2	1717.0	1781.4	1863.8	1915.3	1938.4	1959.0	1982.2	2072.3	2234.5	2067.1
47.5°	1781.4	1791.7	1868.9	1971.9	2072.3	2085.2	2126.3	2152.1	2288.5	2453.3	2278.2
50°	1892.1	1884.4	1946.1	2095.5	2193.3	2255.1	2314.3	2360.6	2494.5	2674.7	2443.0
52.5°	1982.2	1982.2	2028.5	2226.7	2360.6	2419.8	2481.6	2546.0	2700.4	2896.1	2576.8
55°	2136.6	2121.2	2149.5	2355.5	2548.5	2605.2	2723.6	2777.6	2926.9	3060.8	2690.1
57.5°	2242.2	2249.9	2283.4	2525.4	2769.9	2839.4	2957.8	2996.4	3127.7	3233.3	2772.5
60°	2381.2	2355.5	2427.5	2713.3	3014.5	3112.3	3210.1	3233.3	3331.1	3344.0	2811.1
62.5°	2515.1	2509.9	2571.7	2901.2	3277.0	3346.5	3446.9	3472.7	3513.9	3431.5	2757.0
65°	2597.4	2630.9	2746.7	3107.1	3575.7	3652.9	3753.3	3701.8	3655.5	3354.3	2491.9
67.5°	2710.7	2726.1	2903.8	3331.1	3920.6	4036.5	4124.0	3920.6	3575.7	3037.6	2098.0
70°	2736.4	2777.6	3009.3	3565.4	4275.9	4394.3	4399.4	3846.0	3284.8	2471.3	1521.4
72.5°	2623.2	2651.5	2978.4	3663.2	4479.2	4566.8	4301.6	3477.8	2602.6	1557.4	828.9
75°	2206.1	2285.9	2592.3	3362.0	4106.0	4072.5	3645.2	2654.1	1562.6	689.9	350.1
77.5°	1536.8	1539.4	1858.6	2445.6	3073.7	3066.0	2600.0	1539.4	669.3	278.0	205.9
80°	682.2	731.1	924.2	1318.0	1866.3	1866.3	1516.2	764.6	334.7	180.2	141.6
82.5°	401.6	417.0	494.3	615.2	908.7	957.6	725.9	509.7	229.1	113.3	87.5
85°	296.0	321.8	368.1	370.7	429.9	437.6	401.6	442.8	157.0	61.8	72.1
87.5°	221.4	236.8	293.5	244.6	229.1	216.2	247.1	453.1	59.2	30.9	23.2
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°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1186.7	1186.7	1181.6	1171.3	1171.3	1150.7	1155.8	1161.0	1148.1	1148.1	1150.7
5°	1168.7	1158.4	1145.5	1130.1	1119.8	1091.5	1086.3	1068.3	1065.7	1060.6	1052.9
7.5°	1132.7	1117.2	1094.1	1070.9	1037.4	1011.7	980.8	955.1	944.8	937.0	934.5
10°	1099.2	1096.6	1058.0	1011.7	960.2	911.3	865.0	831.5	810.9	798.0	795.4
12.5°	1099.2	1078.6	1024.6	960.2	885.5	813.5	754.3	707.9	679.6	659.0	651.3
15°	1094.1	1073.5	1001.4	903.6	818.6	720.8	638.4	589.5	548.3	527.7	530.3
17.5°	1099.2	1068.3	967.9	862.4	744.0	638.4	540.6	481.4	440.2	424.8	422.2
20°	1101.8	1063.2	942.2	805.7	666.7	548.3	455.6	399.0	368.1	357.8	357.8
22.5°	1096.6	1047.7	903.6	738.8	599.8	473.7	396.4	347.5	326.9	314.1	319.2
25°	1119.8	1045.2	867.5	682.2	522.6	411.9	352.7	316.6	303.8	296.0	298.6
27.5°	1125.0	1045.2	839.2	617.8	455.6	365.5	319.2	296.0	285.7	280.6	278.0
30°	1145.5	1050.3	805.7	553.5	401.6	329.5	293.5	280.6	272.9	270.3	270.3
32.5°	1202.2	1065.7	769.7	499.4	355.2	298.6	275.4	265.1	260.0	257.4	260.0
35°	1269.1	1106.9	731.1	442.8	321.8	278.0	260.0	252.3	249.7	249.7	249.7
37.5°	1372.1	1168.7	697.6	396.4	293.5	257.4	244.6	242.0	239.4	242.0	242.0
40°	1490.5	1235.6	666.7	360.4	272.9	244.6	231.7	231.7	229.1	231.7	234.3
42.5°	1626.9	1318.0	635.8	324.4	254.9	234.3	224.0	221.4	218.8	224.0	226.5
45°	1814.9	1431.3	615.2	303.8	242.0	224.0	213.7	213.7	211.1	211.1	216.2
47.5°	1971.9	1539.4	615.2	283.2	234.3	216.2	205.9	205.9	200.8	203.4	203.4
50°	2103.2	1632.1	628.1	278.0	224.0	208.5	200.8	195.6	193.1	193.1	193.1
52.5°	2190.7	1688.7	638.4	272.9	218.8	198.2	193.1	190.5	185.3	182.8	185.3
55°	2278.2	1727.3	641.0	272.9	211.1	187.9	182.8	182.8	177.6	175.1	175.1
57.5°	2311.7	1711.9	605.0	267.7	205.9	180.2	175.1	172.5	169.9	167.3	167.3
60°	2296.2	1655.3	525.2	254.9	200.8	175.1	164.8	164.8	164.8	159.6	162.2
62.5°	2190.7	1462.2	422.2	234.3	193.1	164.8	154.5	159.6	159.6	157.0	157.0
65°	1912.7	1207.3	342.4	216.2	182.8	157.0	146.7	154.5	157.0	154.5	151.9
67.5°	1529.1	929.3	283.2	195.6	169.9	144.2	136.4	144.2	146.7	144.2	144.2
70°	1050.3	599.8	229.1	175.1	151.9	131.3	123.6	128.7	128.7	131.3	131.3
72.5°	543.2	324.4	187.9	149.3	131.3	118.4	110.7	110.7	108.1	108.1	108.1
75°	270.3	221.4	157.0	126.1	110.7	100.4	95.2	90.1	90.1	90.1	90.1
77.5°	187.9	169.9	128.7	100.4	90.1	82.4	82.4	74.7	74.7	74.7	74.7
80°	141.6	133.9	97.8	77.2	69.5	64.4	64.4	61.8	61.8	59.2	59.2
82.5°	100.4	108.1	74.7	56.6	51.5	48.9	48.9	46.3	46.3	41.2	41.2
85°	79.8	90.1	56.6	41.2	38.6	33.5	33.5	30.9	30.9	28.3	25.7
87.5°	23.2	48.9	23.2	15.4	15.4	15.4	15.4	12.9	12.9	10.3	10.3
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)