

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: P675694

Luminaire Tested: **CCW-SA-2B-735-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675694
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

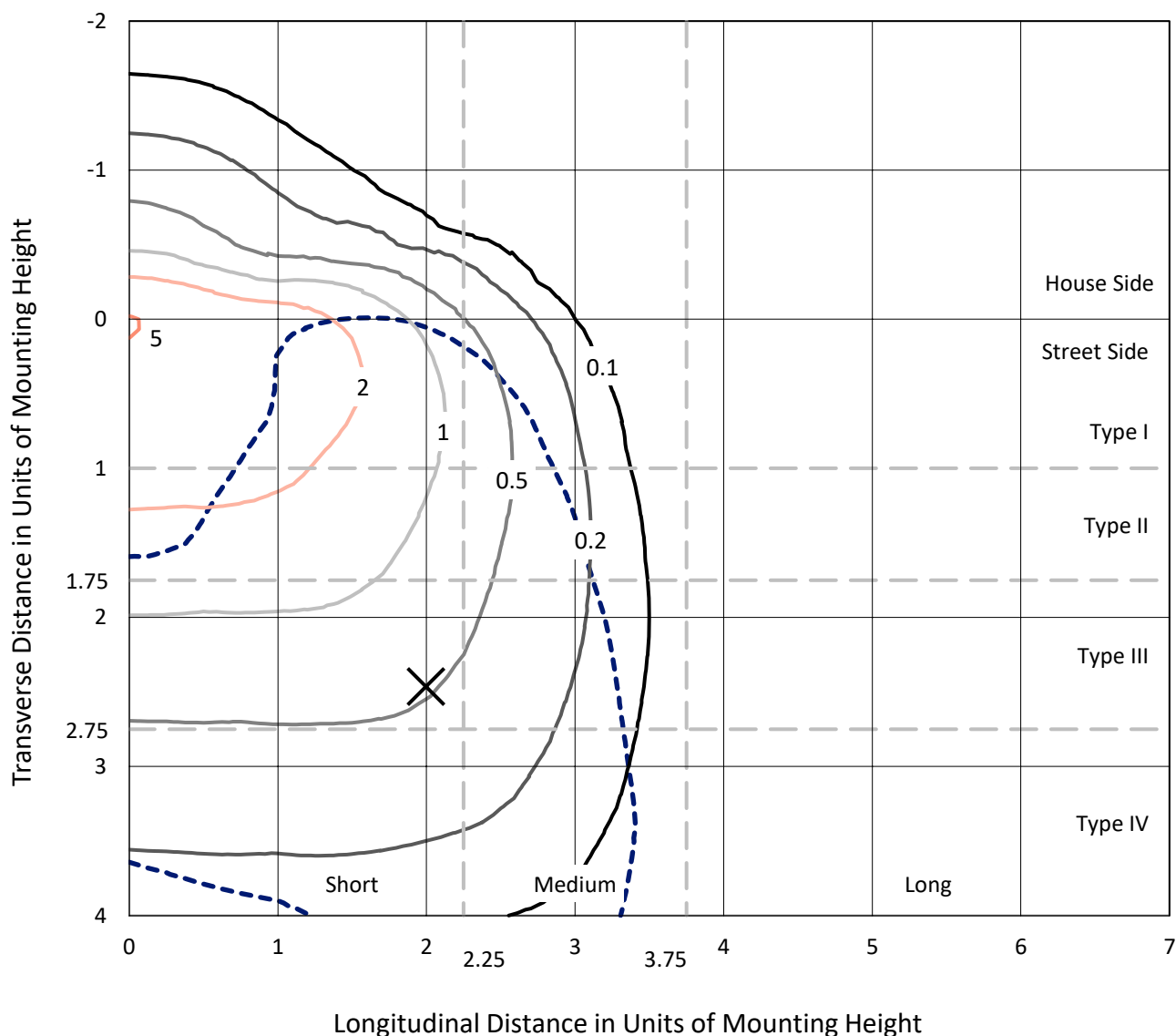
Lumens per Lamp: N/A
Luminaire Lumens: 6674.8 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

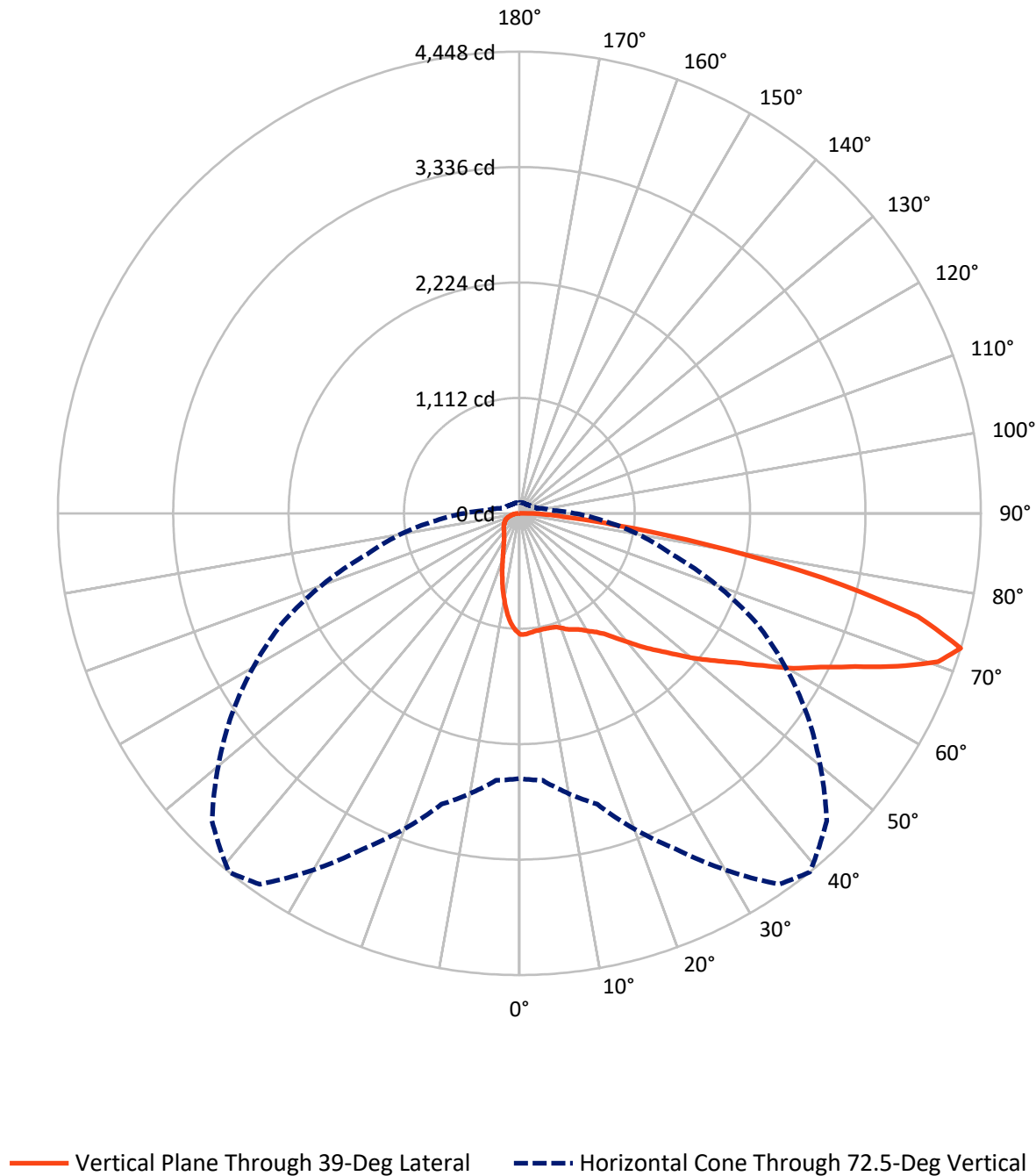
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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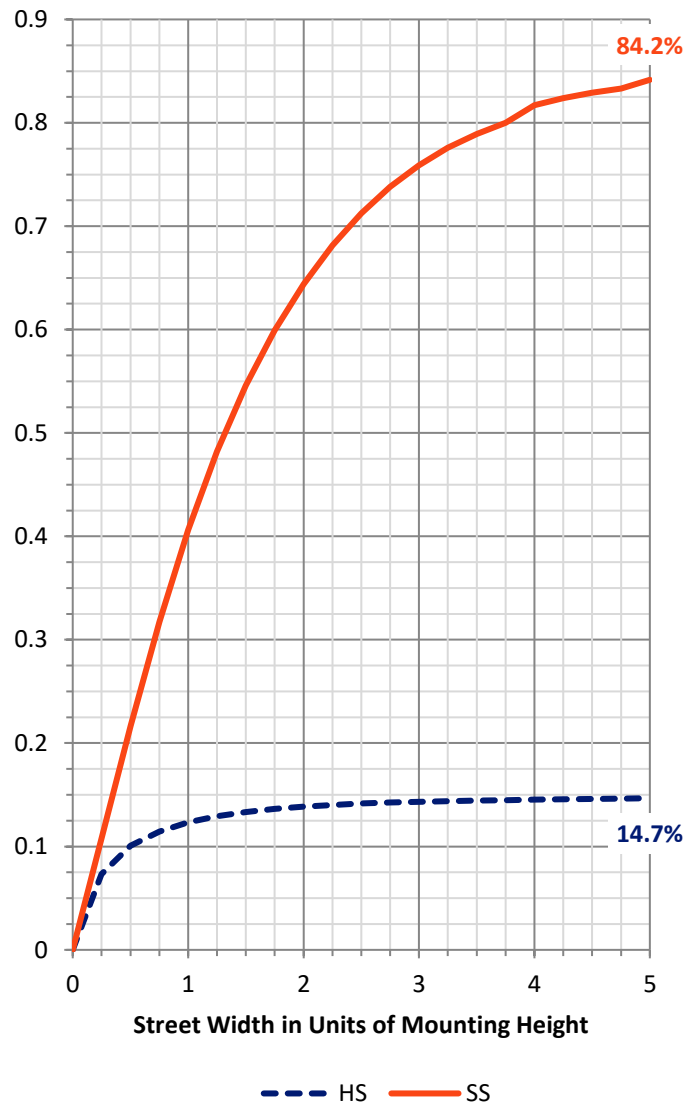
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.0	0.0	992.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5682.8	0.0	5682.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	6674.8	0.0	6674.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.5
10°-20°	263.5	3.9
20°-30°	401.5	6.0
30°-40°	587.2	8.8
40°-50°	899.1	13.5
50°-60°	1318.6	19.8
60°-70°	1681.7	25.2
70°-80°	1215.1	18.2
80°-90°	205.0	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°	6674.8	100.0
0°-180°	6674.8	100.0

Coefficient of Utilization



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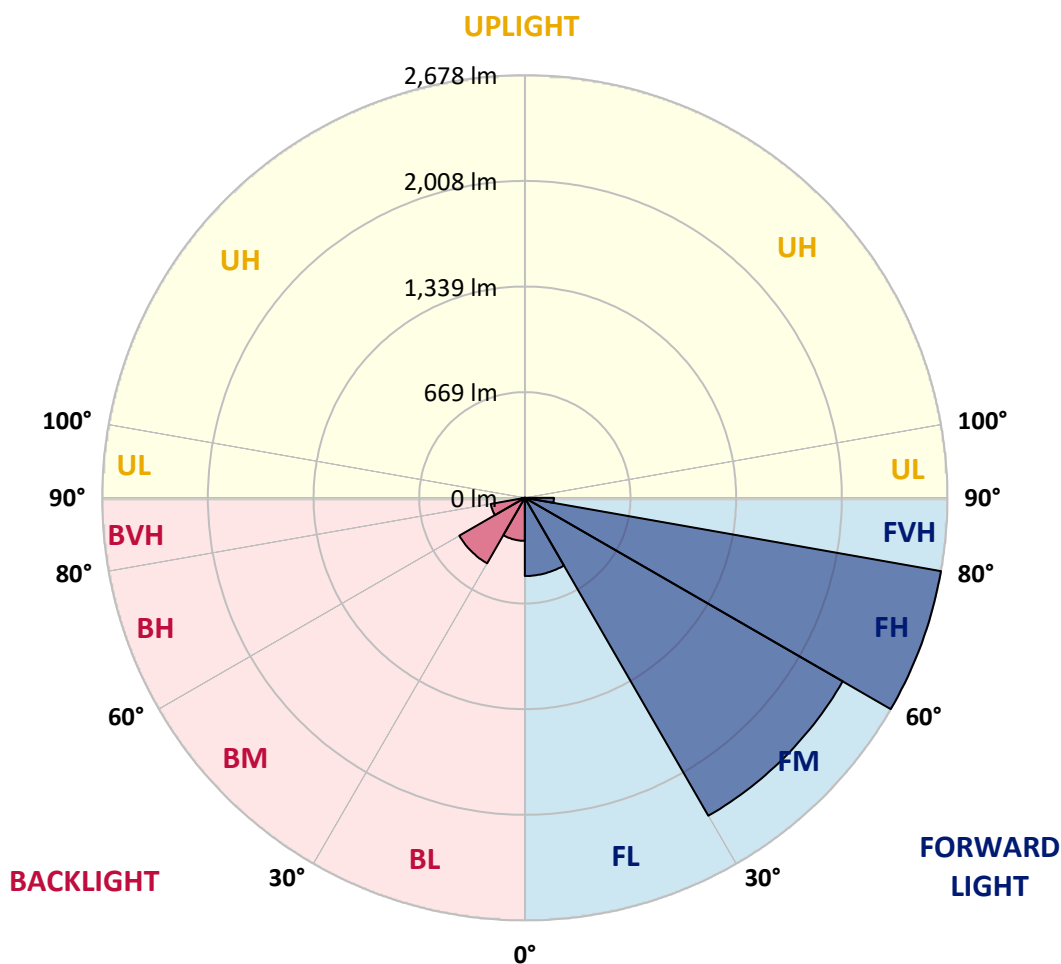
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.4	7.4			
FM	(30°-60°)	2325.7	34.8			
FH	(60°-80°)	2677.6	40.1			G2/5000
FVH	(80°-90°)	184.2	2.8			G2/225
BL	(0°-30°)	272.8	4.1	B1/500		
BM	(30°-60°)	479.2	7.2	B1/1000		
BH	(60°-80°)	219.2	3.3	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4
2.5°	1185.9	1188.4	1183.4	1178.4	1175.9	1165.9	1175.9	1170.9	1165.9	1165.9	1165.9
5°	1170.9	1173.4	1173.4	1168.4	1170.9	1153.3	1150.8	1153.3	1145.8	1140.8	1138.3
7.5°	1148.3	1153.3	1163.4	1160.9	1150.8	1143.3	1145.8	1143.3	1130.8	1123.3	1103.2
10°	1130.8	1135.8	1140.8	1145.8	1143.3	1140.8	1138.3	1128.3	1125.8	1108.2	1088.2
12.5°	1113.2	1113.2	1115.7	1135.8	1138.3	1138.3	1123.3	1123.3	1115.7	1113.2	1083.1
15°	1095.7	1103.2	1123.3	1128.3	1138.3	1143.3	1135.8	1135.8	1123.3	1105.7	1083.1
17.5°	1100.7	1113.2	1133.3	1145.8	1150.8	1150.8	1160.9	1153.3	1135.8	1125.8	1103.2
20°	1125.8	1128.3	1153.3	1175.9	1180.9	1180.9	1170.9	1163.4	1150.8	1133.3	1103.2
22.5°	1140.8	1158.4	1188.4	1201.0	1216.0	1216.0	1203.5	1185.9	1168.4	1150.8	1118.2
25°	1206.0	1208.5	1221.0	1241.1	1248.6	1238.6	1226.1	1206.0	1183.4	1165.9	1135.8
27.5°	1251.1	1263.7	1278.7	1288.7	1276.2	1268.7	1258.7	1236.1	1218.5	1203.5	1160.9
30°	1333.9	1318.8	1328.9	1333.9	1311.3	1316.3	1288.7	1268.7	1248.6	1248.6	1201.0
32.5°	1384.0	1396.6	1386.5	1384.0	1366.5	1364.0	1346.4	1323.8	1311.3	1326.3	1261.2
35°	1471.8	1464.2	1464.2	1461.7	1441.7	1429.1	1429.1	1389.0	1401.6	1434.2	1353.9
37.5°	1516.9	1514.4	1529.4	1542.0	1521.9	1529.4	1521.9	1504.4	1509.4	1567.0	1469.3
40°	1562.0	1579.6	1609.7	1614.7	1627.2	1637.2	1632.2	1629.7	1649.8	1742.6	1624.7
42.5°	1604.7	1619.7	1664.8	1704.9	1735.0	1767.6	1770.1	1770.1	1835.3	1968.2	1812.8
45°	1659.8	1672.3	1735.0	1815.3	1865.4	1888.0	1908.0	1930.6	2018.4	2176.3	2013.3
47.5°	1735.0	1745.1	1820.3	1920.6	2018.4	2030.9	2071.0	2096.1	2229.0	2389.4	2218.9
50°	1842.8	1835.3	1895.5	2040.9	2136.2	2196.4	2254.0	2299.2	2429.5	2605.1	2379.4
52.5°	1930.6	1930.6	1975.7	2168.8	2299.2	2356.8	2417.0	2479.7	2630.1	2820.7	2509.8
55°	2081.0	2066.0	2093.6	2294.2	2482.2	2537.4	2652.7	2705.3	2850.8	2981.1	2620.1
57.5°	2183.8	2191.4	2223.9	2459.6	2697.8	2765.5	2880.9	2918.5	3046.3	3149.1	2700.3
60°	2319.2	2294.2	2364.4	2642.7	2936.0	3031.3	3126.6	3149.1	3244.4	3256.9	2737.9
62.5°	2449.6	2444.6	2504.8	2825.7	3191.8	3259.5	3357.2	3382.3	3422.4	3342.2	2685.3
65°	2529.8	2562.4	2675.3	3026.3	3482.6	3557.8	3655.6	3605.5	3560.3	3267.0	2427.0
67.5°	2640.2	2655.2	2828.2	3244.4	3818.6	3931.4	4016.6	3818.6	3482.6	2958.6	2043.4
70°	2665.2	2705.3	2931.0	3472.6	4164.6	4279.9	4284.9	3745.9	3199.3	2407.0	1481.8
72.5°	2554.9	2582.5	2900.9	3567.8	4362.7	4447.9	4189.7	3387.3	2534.9	1516.9	807.3
75°	2148.7	2226.5	2524.8	3274.5	3999.1	3966.5	3550.3	2585.0	1521.9	671.9	341.0
77.5°	1496.8	1499.3	1810.2	2381.9	2993.7	2986.2	2532.3	1499.3	651.9	270.8	200.6
80°	664.4	712.1	900.1	1283.7	1817.8	1817.8	1476.8	744.7	325.9	175.5	137.9
82.5°	391.1	406.2	481.4	599.2	885.1	932.7	707.1	496.4	223.1	110.3	85.2
85°	288.3	313.4	358.5	361.0	418.7	426.2	391.1	431.3	152.9	60.2	70.2
87.5°	215.6	230.7	285.8	238.2	223.1	210.6	240.7	441.3	57.7	30.1	22.6
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°	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4
2.5°	1155.9	1155.9	1150.8	1140.8	1140.8	1120.8	1125.8	1130.8	1118.2	1118.2	1120.8
5°	1138.3	1128.3	1115.7	1100.7	1090.7	1063.1	1058.1	1040.5	1038.0	1033.0	1025.5
7.5°	1103.2	1088.2	1065.6	1043.0	1010.4	985.4	955.3	930.2	920.2	912.6	910.1
10°	1070.6	1068.1	1030.5	985.4	935.2	887.6	842.4	809.8	789.8	777.3	774.7
12.5°	1070.6	1050.5	997.9	935.2	862.5	792.3	734.6	689.5	661.9	641.9	634.3
15°	1065.6	1045.5	975.3	880.1	797.3	702.0	621.8	574.2	534.0	514.0	516.5
17.5°	1070.6	1040.5	942.7	839.9	724.6	621.8	526.5	468.9	428.7	413.7	411.2
20°	1073.1	1035.5	917.7	784.8	649.4	534.0	443.8	388.6	358.5	348.5	348.5
22.5°	1068.1	1020.5	880.1	719.6	584.2	461.3	386.1	338.5	318.4	305.9	310.9
25°	1090.7	1018.0	845.0	664.4	509.0	401.2	343.5	308.4	295.9	288.3	290.8
27.5°	1095.7	1018.0	817.4	601.7	443.8	356.0	310.9	288.3	278.3	273.3	270.8
30°	1115.7	1023.0	784.8	539.1	391.1	320.9	285.8	273.3	265.8	263.3	263.3
32.5°	1170.9	1038.0	749.7	486.4	346.0	290.8	268.3	258.2	253.2	250.7	253.2
35°	1236.1	1078.1	712.1	431.3	313.4	270.8	253.2	245.7	243.2	243.2	243.2
37.5°	1336.4	1138.3	679.5	386.1	285.8	250.7	238.2	235.7	233.2	235.7	235.7
40°	1451.7	1203.5	649.4	351.0	265.8	238.2	225.7	225.7	223.1	225.7	228.2
42.5°	1584.6	1283.7	619.3	315.9	248.2	228.2	218.1	215.6	213.1	218.1	220.6
45°	1767.6	1394.0	599.2	295.9	235.7	218.1	208.1	208.1	205.6	205.6	210.6
47.5°	1920.6	1499.3	599.2	275.8	228.2	210.6	200.6	200.6	195.6	198.1	198.1
50°	2048.4	1589.6	611.8	270.8	218.1	203.1	195.6	190.6	188.0	188.0	188.0
52.5°	2133.7	1644.8	621.8	265.8	213.1	193.1	188.0	185.5	180.5	178.0	180.5
55°	2218.9	1682.4	624.3	265.8	205.6	183.0	178.0	178.0	173.0	170.5	170.5
57.5°	2251.5	1667.3	589.2	260.8	200.6	175.5	170.5	168.0	165.5	163.0	163.0
60°	2236.5	1612.2	511.5	248.2	195.6	170.5	160.5	160.5	160.5	155.5	158.0
62.5°	2133.7	1424.1	411.2	228.2	188.0	160.5	150.4	155.5	155.5	152.9	152.9
65°	1862.9	1175.9	333.5	210.6	178.0	152.9	142.9	150.4	152.9	150.4	147.9
67.5°	1489.3	905.1	275.8	190.6	165.5	140.4	132.9	140.4	142.9	140.4	140.4
70°	1023.0	584.2	223.1	170.5	147.9	127.9	120.3	125.4	125.4	127.9	127.9
72.5°	529.0	315.9	183.0	145.4	127.9	115.3	107.8	107.8	105.3	105.3	105.3
75°	263.3	215.6	152.9	122.9	107.8	97.8	92.8	87.8	87.8	87.8	87.8
77.5°	183.0	165.5	125.4	97.8	87.8	80.2	80.2	72.7	72.7	72.7	72.7
80°	137.9	130.4	95.3	75.2	67.7	62.7	62.7	60.2	60.2	57.7	57.7
82.5°	97.8	105.3	72.7	55.2	50.1	47.6	47.6	45.1	45.1	40.1	40.1
85°	77.7	87.8	55.2	40.1	37.6	32.6	32.6	30.1	30.1	27.6	25.1
87.5°	22.6	47.6	22.6	15.0	15.0	15.0	15.0	12.5	12.5	10.0	10.0
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)