

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: P677043

Luminaire Tested: **CCW-SA-1F-830-U-SL3-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P677043
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

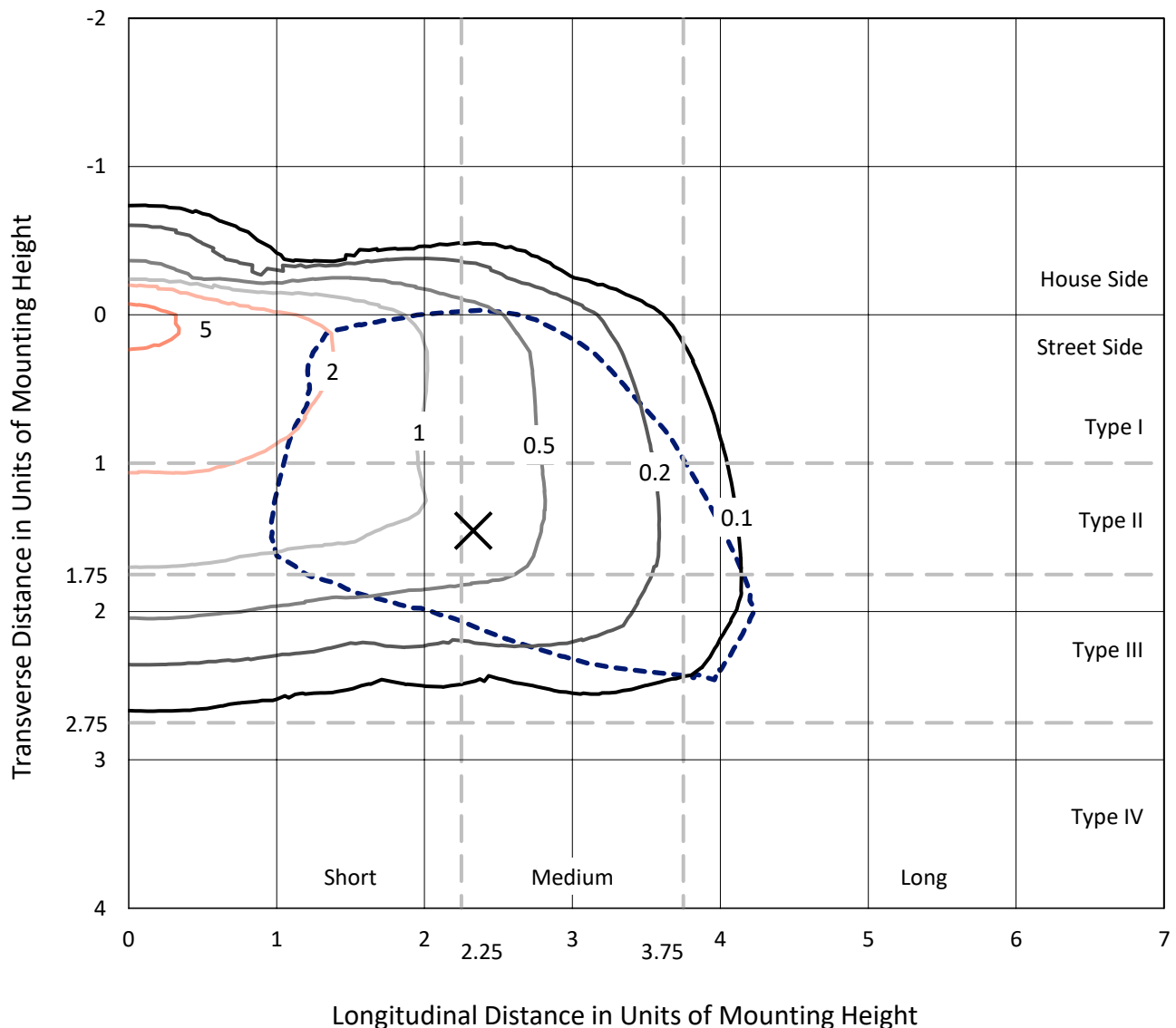
Lumens per Lamp: N/A
Luminaire Lumens: 4923.1 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

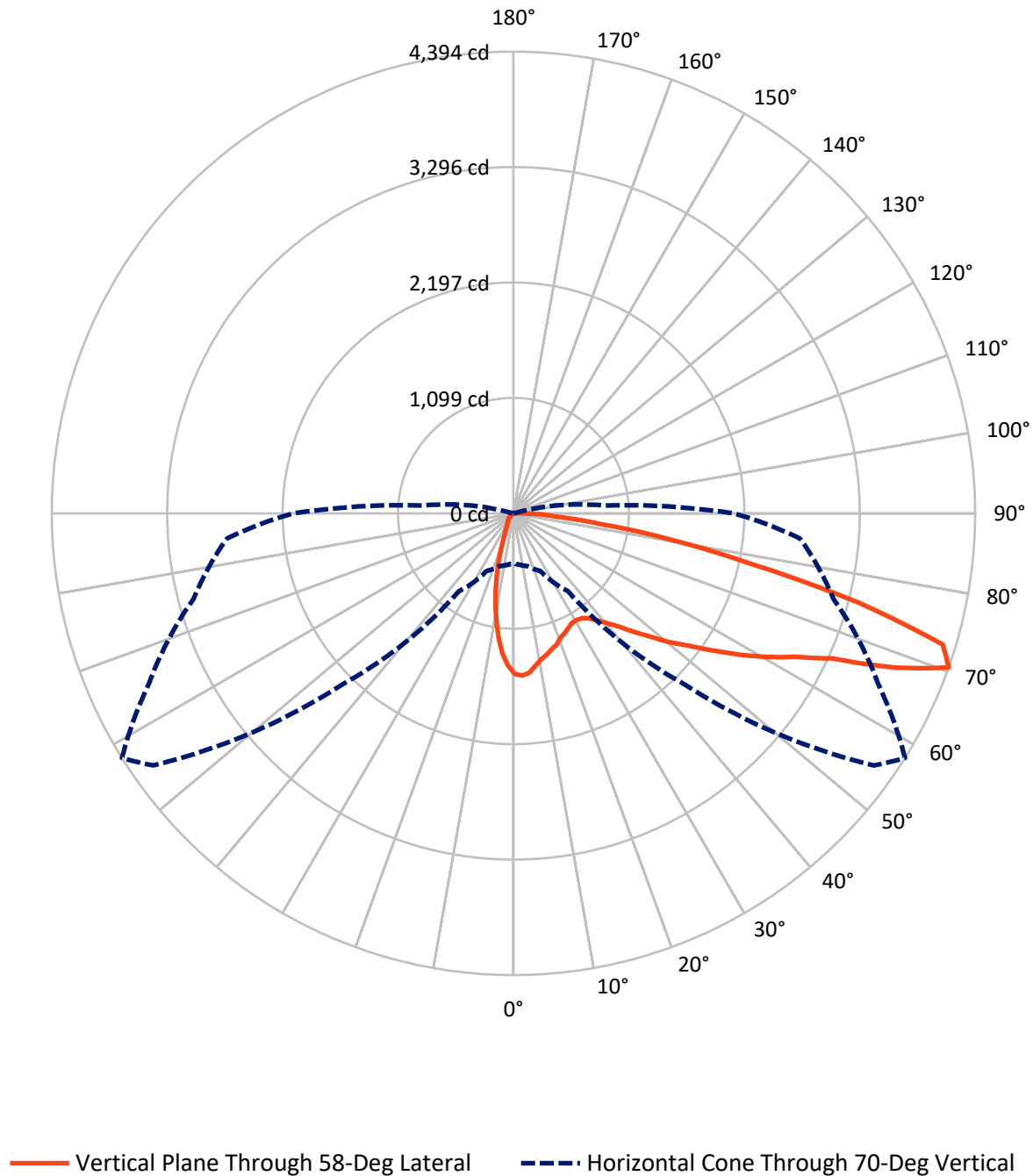
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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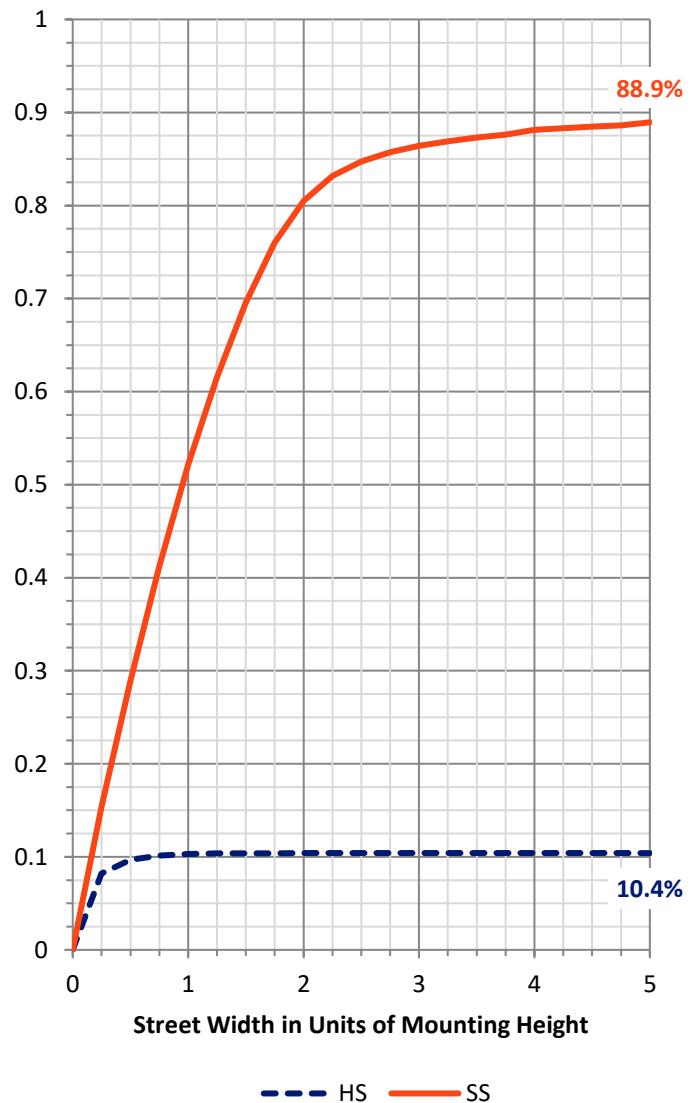
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.5	0.0	515.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4407.6	0.0	4407.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	4923.1	0.0	4923.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	2.5
10°-20°	259.6	5.3
20°-30°	347.6	7.1
30°-40°	469.9	9.5
40°-50°	674.4	13.7
50°-60°	993.8	20.2
60°-70°	1212.2	24.6
70°-80°	740.3	15.0
80°-90°	100.6	2.0
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°	4923.1	100.0
0°-180°	4923.1	100.0



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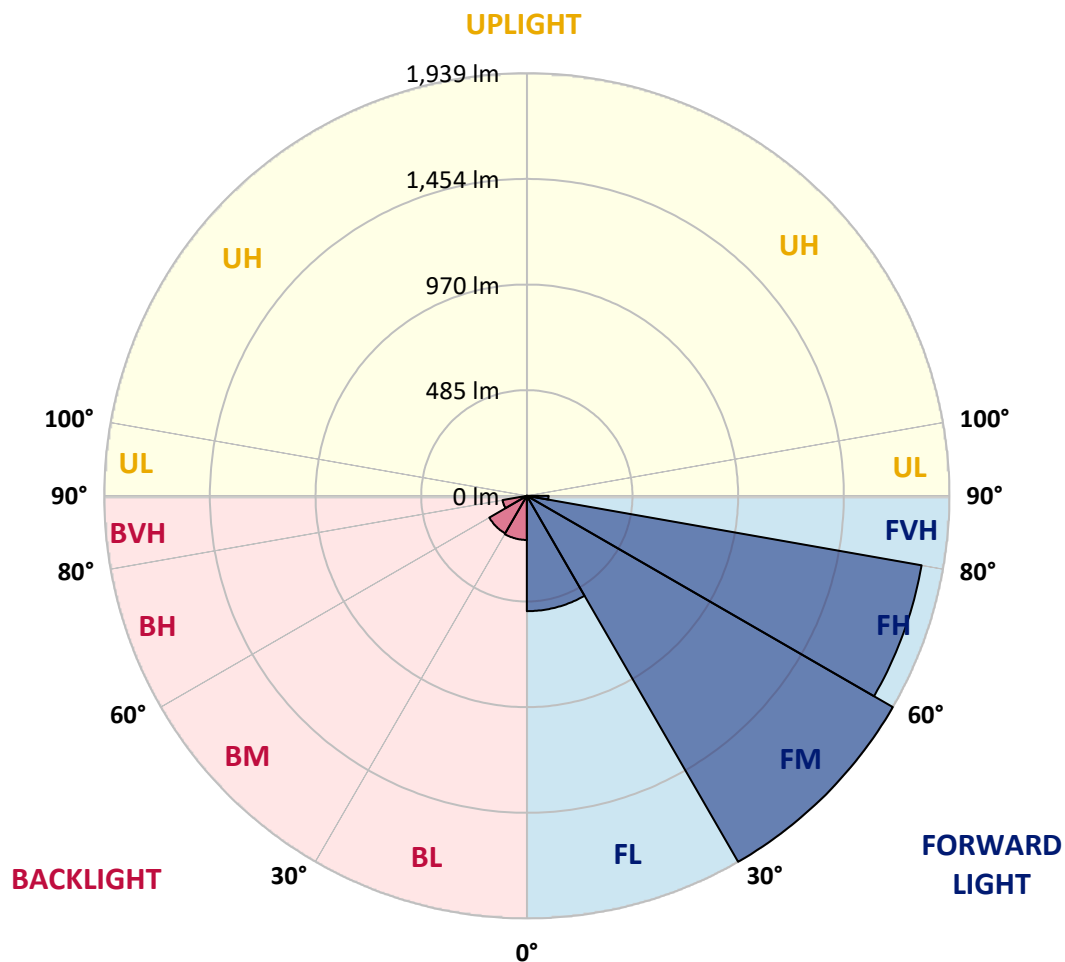
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.3	10.8			
FM	(30°-60°)	1939.2	39.4			
FH	(60°-80°)	1839.5	37.4			G2/5000
FVH	(80°-90°)	99.6	2.0			G1/100
BL	(0°-30°)	202.6	4.1	B1/500		
BM	(30°-60°)	199.0	4.0	B0/220		
BH	(60°-80°)	113.0	2.3	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1556.0	1561.7	1547.9	1564.1	1549.1	1556.0	1547.9	1545.6	1546.7	1547.9	1538.7
5°	1483.3	1497.1	1502.9	1493.6	1515.6	1512.1	1526.0	1527.1	1521.3	1515.6	1516.7
7.5°	1387.5	1401.3	1407.1	1412.8	1434.8	1463.6	1482.1	1470.6	1479.8	1500.6	1469.4
10°	1318.2	1314.7	1313.6	1325.1	1366.7	1390.9	1422.1	1418.6	1441.7	1461.3	1435.9
12.5°	1232.8	1225.9	1246.6	1255.9	1292.8	1335.5	1359.7	1385.1	1408.2	1429.0	1400.1
15°	1169.3	1175.1	1183.1	1202.8	1229.3	1285.9	1321.7	1345.9	1387.5	1397.8	1386.3
17.5°	1118.5	1123.1	1134.7	1145.1	1178.5	1232.8	1289.3	1318.2	1362.1	1389.8	1354.0
20°	1119.7	1105.8	1105.8	1116.2	1134.7	1199.3	1259.3	1268.6	1328.6	1375.9	1351.7
22.5°	1120.8	1116.2	1105.8	1104.7	1112.7	1158.9	1220.1	1240.9	1305.5	1360.9	1332.0
25°	1137.0	1119.7	1120.8	1104.7	1108.1	1131.2	1179.7	1210.8	1284.7	1369.0	1321.7
27.5°	1150.8	1158.9	1142.7	1135.8	1116.2	1115.0	1155.4	1182.0	1274.3	1387.5	1328.6
30°	1182.0	1187.8	1187.8	1183.1	1164.7	1138.1	1147.4	1180.8	1253.6	1384.0	1317.0
32.5°	1233.9	1223.5	1237.4	1230.5	1206.2	1164.7	1172.8	1190.1	1266.3	1427.9	1335.5
35°	1251.2	1259.3	1277.8	1262.8	1254.7	1230.5	1214.3	1227.0	1284.7	1471.7	1363.2
37.5°	1304.3	1292.8	1305.5	1339.0	1347.1	1303.2	1272.0	1290.5	1354.0	1523.7	1388.6
40°	1309.0	1318.2	1341.3	1407.1	1415.2	1396.7	1371.3	1375.9	1423.2	1590.6	1452.1
42.5°	1332.0	1342.4	1389.8	1445.2	1489.0	1492.5	1474.0	1474.0	1514.4	1698.0	1522.5
45°	1377.1	1359.7	1420.9	1514.4	1577.9	1590.6	1614.8	1609.1	1641.4	1811.1	1654.1
47.5°	1394.4	1400.1	1467.1	1580.2	1652.9	1711.8	1752.2	1753.4	1769.5	1955.4	1824.9
50°	1450.9	1449.8	1530.6	1635.6	1743.0	1850.3	1928.8	1928.8	1927.7	2096.2	1971.5
52.5°	1526.0	1523.7	1586.0	1710.7	1850.3	1985.4	2089.3	2092.7	2119.3	2269.3	2140.0
55°	1648.3	1637.9	1698.0	1790.3	1957.7	2121.6	2301.6	2302.8	2282.0	2392.8	2261.2
57.5°	1751.1	1749.9	1799.5	1888.4	2077.7	2297.0	2506.0	2537.1	2471.3	2519.8	2358.2
60°	1724.5	1739.5	1842.2	1973.8	2204.7	2516.3	2726.4	2774.9	2669.9	2606.4	2430.9
62.5°	1559.4	1594.1	1706.0	1916.1	2312.0	2834.9	3030.0	3008.1	2773.7	2680.3	2519.8
65°	1122.0	1156.6	1295.1	1610.2	2187.4	3060.0	3429.4	3330.1	2958.4	2789.9	2638.7
67.5°	660.3	674.1	760.7	1027.3	1635.6	2937.7	3914.2	3922.3	3322.0	2958.4	2844.2
70°	476.7	487.1	520.6	606.0	906.1	2302.8	4184.3	4394.4	3826.5	3152.4	2735.7
72.5°	365.9	365.9	422.5	504.4	577.1	1379.4	3850.7	4272.0	3936.1	2966.5	2204.7
75°	263.2	270.1	331.3	434.0	532.1	692.6	2837.2	3390.1	3335.9	2404.4	1539.8
77.5°	151.2	154.7	233.2	363.6	499.8	475.6	1753.4	2298.2	2362.8	1505.2	667.2
80°	77.3	79.6	130.4	287.4	452.5	414.4	1045.8	1513.3	1283.6	437.5	154.7
82.5°	38.1	38.1	58.9	183.5	384.4	367.1	615.2	835.7	454.8	100.4	64.6
85°	12.7	13.9	26.5	103.9	278.2	221.6	376.3	397.1	152.4	38.1	35.8
87.5°	3.5	4.6	6.9	38.1	121.2	145.4	223.9	253.9	62.3	15.0	17.3
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°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1504.0	1496.0	1486.7	1463.6	1445.2	1420.9	1404.8	1392.1	1367.8	1372.4	1362.1
5°	1489.0	1474.0	1420.9	1370.1	1324.0	1253.6	1205.1	1173.9	1148.5	1123.1	1141.6
7.5°	1462.5	1426.7	1343.6	1248.9	1150.8	1058.5	966.1	910.7	870.3	833.4	832.2
10°	1417.5	1359.7	1229.3	1105.8	954.6	833.4	715.7	623.3	563.3	519.4	518.3
12.5°	1366.7	1306.7	1142.7	941.9	767.6	596.8	455.9	357.8	301.3	266.6	262.0
15°	1334.4	1246.6	1034.2	796.5	580.6	389.0	252.8	191.6	169.7	161.6	161.6
17.5°	1292.8	1192.4	926.9	645.2	402.8	225.1	163.9	147.7	146.6	144.3	142.0
20°	1275.5	1150.8	831.1	514.8	255.1	159.3	140.8	137.4	137.4	135.1	132.7
22.5°	1229.3	1090.8	729.5	377.5	169.7	139.7	132.7	128.1	125.8	123.5	125.8
25°	1208.5	1048.1	633.7	260.9	138.5	124.7	121.2	116.6	113.1	112.0	112.0
27.5°	1194.7	1005.4	540.2	181.2	122.4	114.3	107.3	103.9	99.3	94.7	94.7
30°	1184.3	971.9	450.2	133.9	109.7	101.6	95.8	87.7	82.0	77.3	77.3
32.5°	1170.4	932.7	360.1	114.3	99.3	91.2	80.8	73.9	65.8	62.3	62.3
35°	1175.1	906.1	282.8	101.6	88.9	78.5	69.3	60.0	51.9	48.5	47.3
37.5°	1184.3	886.5	214.7	91.2	79.6	68.1	57.7	47.3	42.7	38.1	38.1
40°	1223.5	880.7	158.1	84.3	72.7	60.0	48.5	39.2	34.6	31.2	30.0
42.5°	1289.3	888.8	122.4	76.2	65.8	50.8	40.4	32.3	27.7	24.2	23.1
45°	1373.6	920.0	100.4	71.6	57.7	42.7	32.3	26.5	20.8	18.5	18.5
47.5°	1496.0	968.4	87.7	65.8	50.8	35.8	27.7	20.8	16.2	13.9	13.9
50°	1634.5	1023.9	77.3	58.9	43.9	30.0	21.9	16.2	11.5	10.4	10.4
52.5°	1773.0	1094.3	71.6	54.3	38.1	24.2	17.3	11.5	8.1	6.9	6.9
55°	1918.4	1156.6	64.6	50.8	31.2	19.6	12.7	6.9	4.6	3.5	3.5
57.5°	2020.0	1180.8	56.6	43.9	24.2	15.0	9.2	4.6	2.3	1.2	1.2
60°	2092.7	1184.3	48.5	35.8	18.5	11.5	5.8	2.3	1.2	0.0	0.0
62.5°	2153.9	1191.2	41.6	27.7	13.9	8.1	3.5	1.2	0.0	0.0	0.0
65°	2275.1	1185.5	33.5	21.9	9.2	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	2370.9	1127.7	26.5	15.0	5.8	2.3	1.2	0.0	0.0	0.0	0.0
70°	2097.3	859.9	20.8	10.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1647.2	573.7	13.9	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1080.4	285.1	10.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	420.2	75.0	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.6	25.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.9	9.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)