

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: P676892

Luminaire Tested: **CCW-SA-2D-827-U-SL2-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676892
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

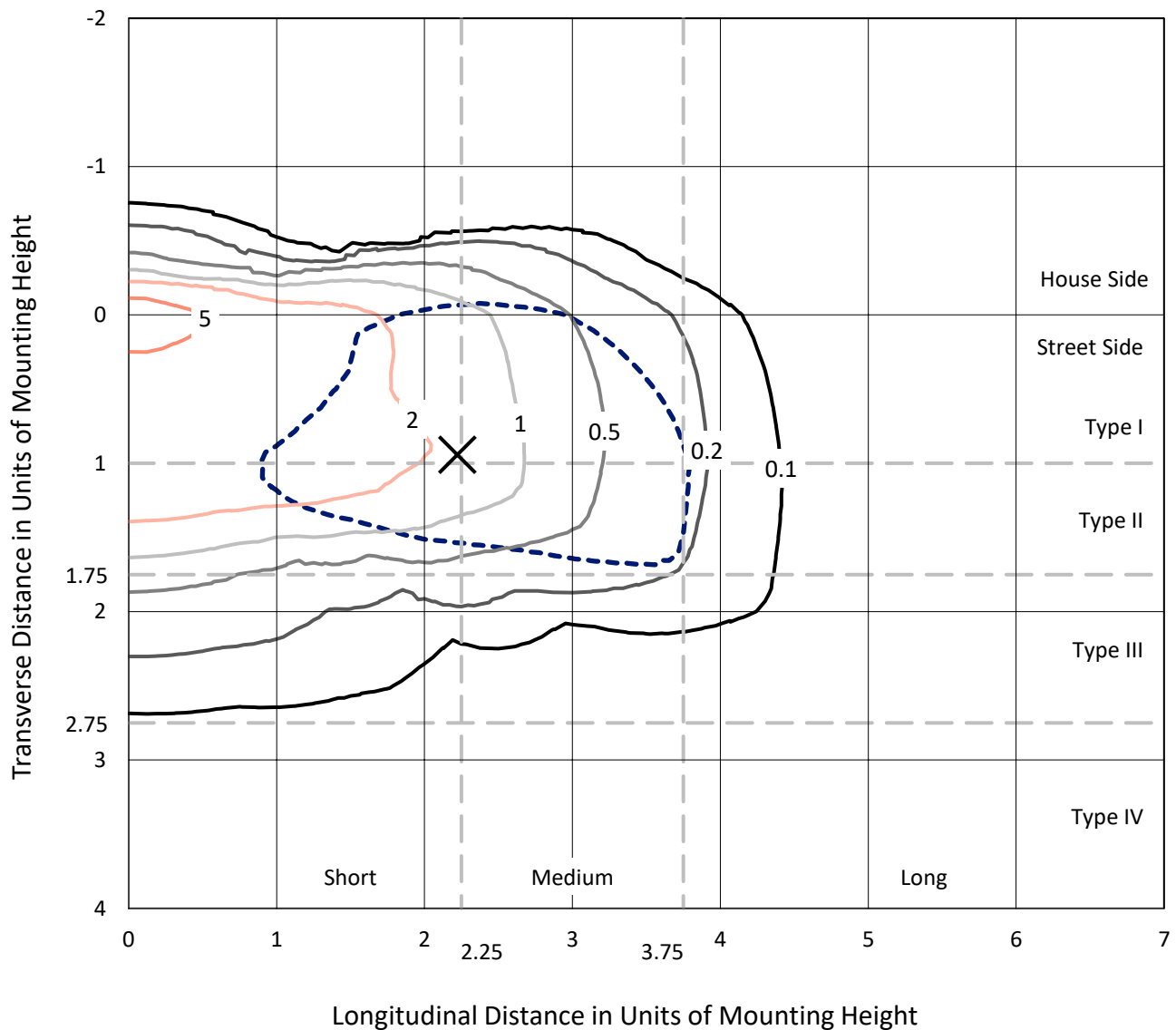
Lumens per Lamp: N/A
Luminaire Lumens: 6592.8 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

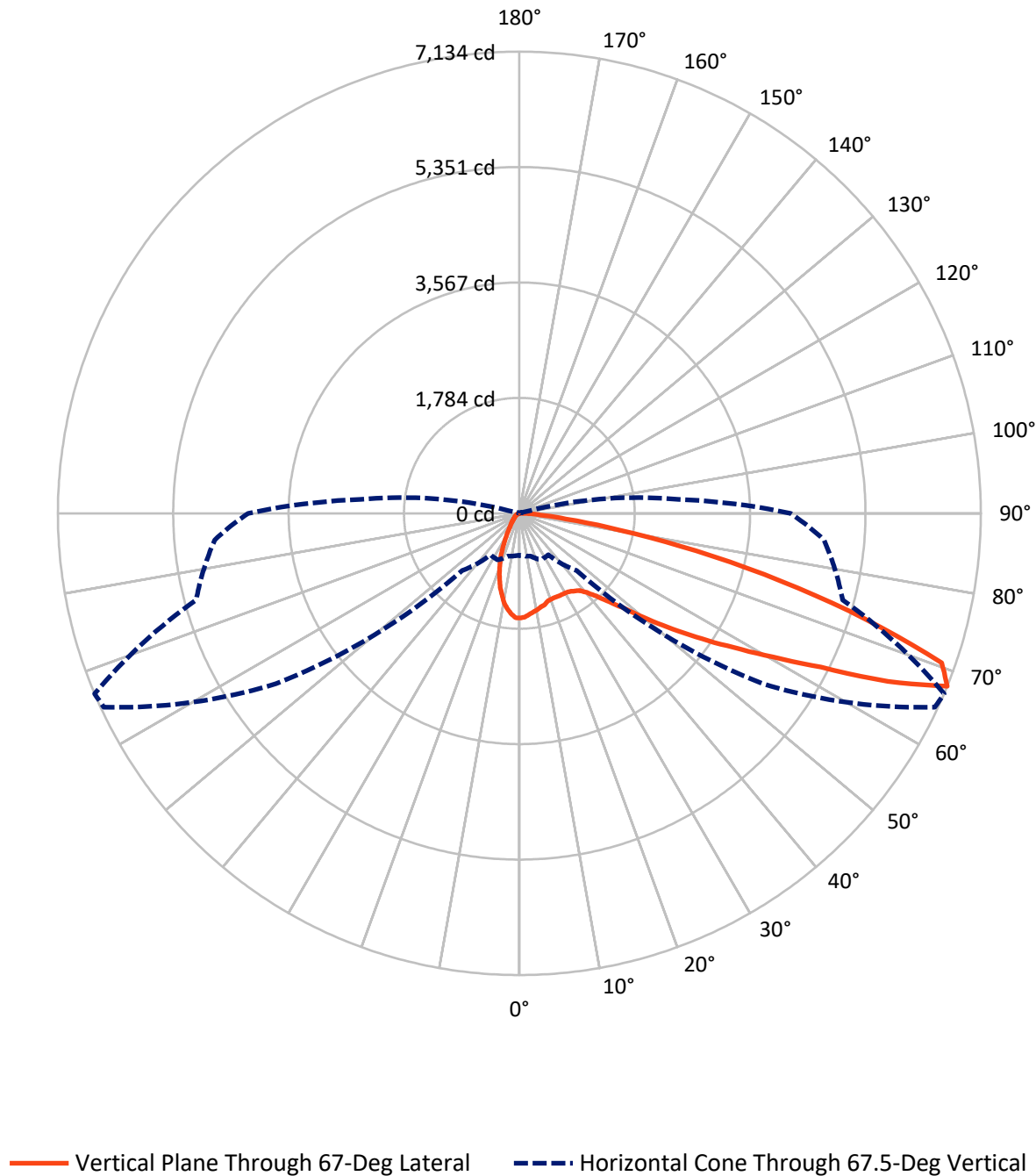
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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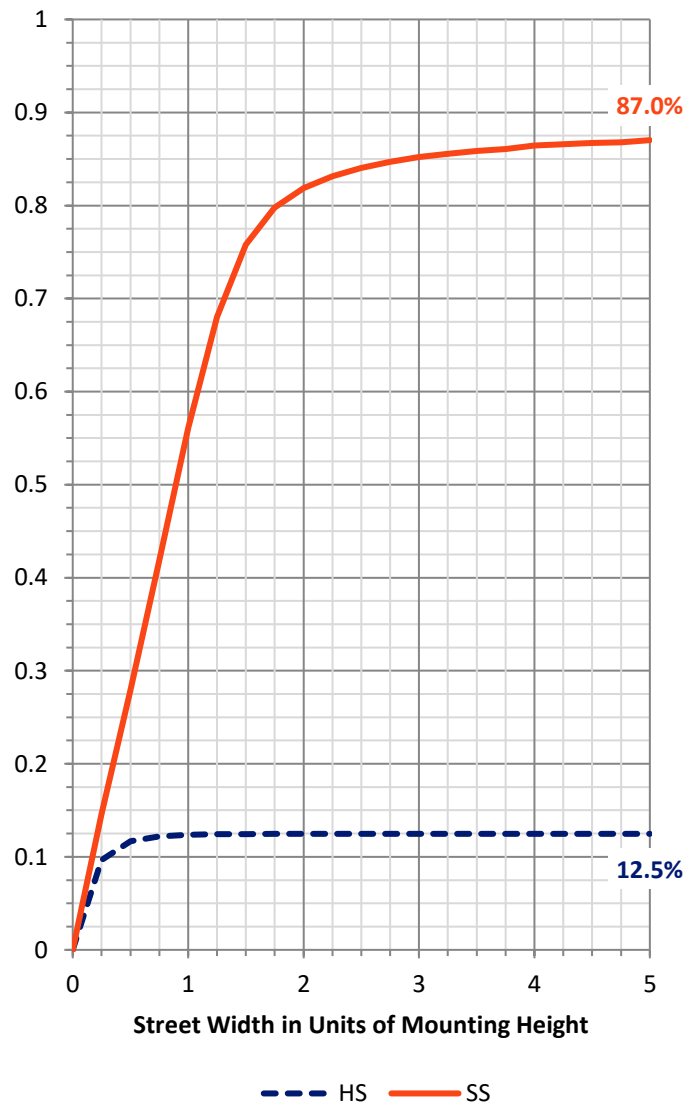
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.7	0.0	829.7
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	5763.1	0.0	5763.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	6592.8	0.0	6592.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	2.1
10°-20°	302.7	4.6
20°-30°	430.4	6.5
30°-40°	626.7	9.5
40°-50°	969.9	14.7
50°-60°	1488.6	22.6
60°-70°	1613.6	24.5
70°-80°	910.3	13.8
80°-90°	114.4	1.7
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°	6592.8	100.0
0°-180°	6592.8	100.0

Coefficient of Utilization



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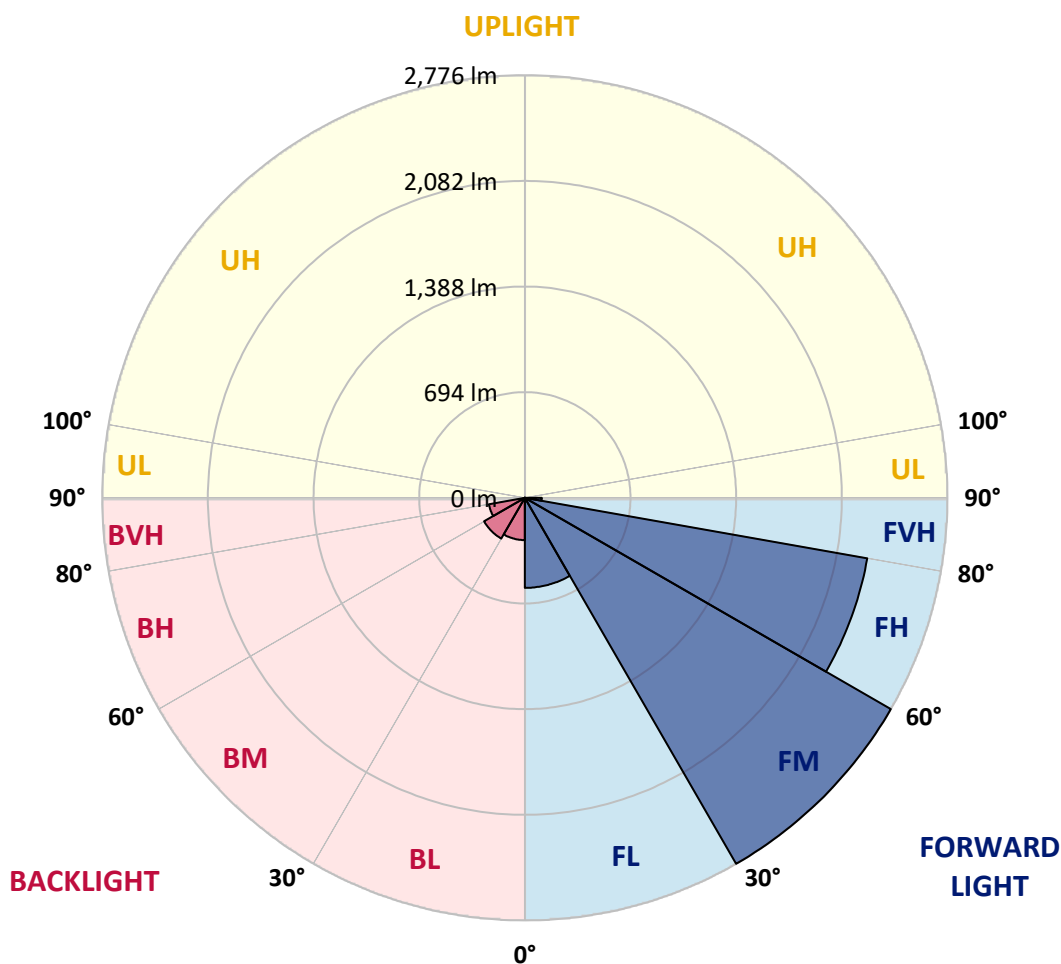
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.6	9.0			
FM	(30°-60°)	2776.1	42.1			
FH	(60°-80°)	2284.3	34.6			G2/5000
FVH	(80°-90°)	111.1	1.7			G2/225
BL	(0°-30°)	277.7	4.2	B1/500		
BM	(30°-60°)	309.0	4.7	B1/1000		
BH	(60°-80°)	239.7	3.6	B1/500		G1/500
BVH	(80°-90°)	3.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1547.2	1555.1	1566.3	1582.1	1593.3	1586.9	1591.7	1618.7	1604.4	1617.1	1610.7
5°	1461.4	1469.4	1485.2	1483.7	1496.4	1520.2	1552.0	1586.9	1571.0	1609.2	1623.4
7.5°	1372.5	1369.3	1369.3	1402.6	1429.7	1463.0	1480.5	1537.7	1539.3	1572.6	1607.6
10°	1291.5	1301.0	1316.9	1329.6	1355.0	1402.6	1453.5	1498.0	1515.4	1582.1	1591.7
12.5°	1242.2	1247.0	1266.0	1277.2	1310.5	1356.6	1410.6	1467.8	1482.1	1550.4	1596.4
15°	1221.6	1232.7	1239.0	1259.7	1277.2	1320.0	1359.8	1424.9	1466.2	1520.2	1577.4
17.5°	1237.4	1232.7	1235.9	1242.2	1262.9	1301.0	1343.9	1409.0	1423.3	1513.8	1599.6
20°	1258.1	1259.7	1250.1	1247.0	1242.2	1278.7	1313.7	1397.9	1413.8	1513.8	1613.9
22.5°	1313.7	1296.2	1313.7	1288.3	1262.9	1278.7	1312.1	1399.5	1410.6	1512.3	1628.2
25°	1382.0	1385.2	1389.9	1335.9	1299.4	1288.3	1323.2	1404.2	1413.8	1525.0	1634.6
27.5°	1478.9	1493.2	1469.4	1442.4	1369.3	1313.7	1321.6	1401.1	1418.5	1518.6	1650.5
30°	1609.2	1598.0	1601.2	1539.3	1467.8	1380.4	1358.2	1409.0	1421.7	1526.5	1680.6
32.5°	1721.9	1709.2	1731.5	1709.2	1596.4	1475.7	1401.1	1424.9	1439.2	1545.6	1706.0
35°	1791.8	1807.7	1842.7	1866.5	1771.2	1599.6	1472.5	1467.8	1474.1	1555.1	1725.1
37.5°	1899.8	1928.4	1957.0	2017.4	1934.8	1752.1	1585.3	1523.4	1512.3	1601.2	1734.6
40°	2017.4	2009.5	2093.6	2165.1	2161.9	1966.6	1742.6	1621.9	1606.0	1674.3	1798.2
42.5°	2115.9	2107.9	2201.7	2319.2	2331.9	2173.1	1922.1	1761.6	1747.4	1787.1	1876.0
45°	2244.6	2250.9	2362.1	2501.9	2548.0	2446.3	2165.1	1961.8	1953.9	1941.1	2023.7
47.5°	2358.9	2393.9	2489.2	2654.4	2821.2	2729.0	2451.1	2254.1	2198.5	2169.9	2252.5
50°	2438.3	2470.1	2586.1	2762.4	3067.4	3126.2	2771.9	2565.4	2567.0	2497.1	2541.6
52.5°	2438.3	2436.8	2530.5	2762.4	3239.0	3540.8	3200.8	2957.8	2970.5	2897.4	2900.6
55°	2203.2	2198.5	2312.9	2559.1	3219.9	3939.5	3850.5	3455.0	3423.2	3281.8	3296.1
57.5°	1774.4	1785.5	1872.8	2168.3	2972.1	4125.3	4624.1	4014.1	3906.1	3613.8	3613.8
60°	1294.6	1285.1	1350.2	1556.7	2381.2	4055.4	5259.5	4673.4	4503.4	3888.6	3847.3
62.5°	984.9	983.3	1000.8	1070.6	1510.7	3536.0	5532.7	5512.1	5235.7	4158.7	4099.9
65°	795.8	799.0	822.8	872.1	922.9	2411.3	5388.2	6512.9	6260.3	4560.6	4368.4
67.5°	649.7	657.6	686.2	792.7	781.5	1248.6	4589.2	7086.3	7134.0	5173.7	4729.0
70°	500.4	513.1	546.4	697.4	752.9	830.8	3181.8	6800.4	6927.4	5555.0	4511.3
72.5°	339.9	338.4	409.8	565.5	760.9	760.9	1771.2	5477.1	5597.9	5121.3	3918.8
75°	184.3	195.4	271.6	427.3	697.4	735.5	1008.7	4007.8	4177.8	3982.4	3030.9
77.5°	100.1	101.7	150.9	279.6	579.8	702.1	673.5	2725.9	2792.6	2401.8	1660.0
80°	52.4	54.0	79.4	182.7	400.3	651.3	560.7	1625.0	1561.5	921.3	548.0
82.5°	23.8	25.4	39.7	114.4	255.7	513.1	484.5	784.7	724.4	257.3	166.8
85°	9.5	9.5	17.5	68.3	149.3	252.6	414.6	393.9	328.8	77.8	82.6
87.5°	3.2	3.2	4.8	27.0	60.4	150.9	220.8	208.1	143.0	28.6	44.5
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°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1604.4	1621.9	1617.1	1613.9	1583.7	1580.6	1577.4	1548.8	1558.3	1534.5	1550.4
5°	1613.9	1623.4	1598.0	1550.4	1507.5	1459.8	1423.3	1397.9	1351.8	1334.3	1331.2
7.5°	1604.4	1604.4	1552.0	1475.7	1391.5	1313.7	1215.2	1145.3	1092.9	1053.2	1067.5
10°	1591.7	1572.6	1518.6	1383.6	1231.1	1113.5	972.2	868.9	791.1	765.7	749.8
12.5°	1591.7	1558.3	1437.6	1253.3	1056.4	878.4	710.1	575.0	500.4	455.9	449.5
15°	1577.4	1528.1	1378.8	1131.0	886.4	644.9	452.7	336.8	273.2	255.7	249.4
17.5°	1580.6	1521.8	1291.5	986.5	687.8	428.9	276.4	212.9	197.0	189.0	190.6
20°	1586.9	1521.8	1213.6	845.1	495.6	266.9	190.6	179.5	171.6	168.4	170.0
22.5°	1607.6	1491.6	1134.2	700.5	335.2	192.2	168.4	157.3	150.9	146.1	144.6
25°	1610.7	1486.8	1057.9	557.6	230.3	162.0	147.7	135.0	127.1	120.7	119.1
27.5°	1606.0	1466.2	951.5	414.6	173.1	144.6	125.5	112.8	101.7	96.9	95.3
30°	1623.4	1428.1	861.0	298.6	146.1	125.5	106.4	92.1	82.6	76.2	76.2
32.5°	1625.0	1394.7	760.9	212.9	133.4	111.2	90.5	74.7	65.1	62.0	62.0
35°	1626.6	1364.5	649.7	162.0	119.1	95.3	74.7	62.0	55.6	50.8	50.8
37.5°	1631.4	1342.3	548.0	136.6	106.4	81.0	62.0	50.8	44.5	42.9	42.9
40°	1640.9	1312.1	441.6	120.7	92.1	68.3	52.4	42.9	36.5	34.9	33.4
42.5°	1666.3	1304.2	352.6	108.0	82.6	57.2	42.9	34.9	30.2	27.0	25.4
45°	1771.2	1324.8	273.2	100.1	69.9	47.7	36.5	28.6	22.2	20.7	19.1
47.5°	1942.7	1393.1	216.0	89.0	58.8	39.7	30.2	22.2	17.5	15.9	14.3
50°	2203.2	1548.8	176.3	79.4	49.2	33.4	23.8	17.5	12.7	11.1	11.1
52.5°	2544.8	1758.5	152.5	69.9	39.7	28.6	19.1	12.7	9.5	7.9	7.9
55°	2894.2	2006.3	143.0	60.4	33.4	23.8	14.3	9.5	6.4	4.8	4.8
57.5°	3215.1	2166.7	138.2	49.2	28.6	17.5	11.1	6.4	3.2	1.6	1.6
60°	3415.3	2284.3	123.9	39.7	22.2	14.3	7.9	3.2	1.6	0.0	0.0
62.5°	3679.0	2403.4	101.7	30.2	15.9	9.5	4.8	1.6	0.0	0.0	0.0
65°	4026.8	2536.8	79.4	23.8	12.7	6.4	3.2	1.6	0.0	0.0	0.0
67.5°	4193.6	2466.9	54.0	17.5	7.9	3.2	1.6	0.0	0.0	0.0	0.0
70°	3860.1	2077.8	38.1	12.7	4.8	1.6	1.6	0.0	0.0	0.0	0.0
72.5°	3245.3	1628.2	28.6	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	2392.3	1018.2	22.2	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1269.2	379.7	15.9	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	374.9	111.2	11.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	123.9	33.4	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.5	12.7	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.5	4.8	3.2	3.2	1.6	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)