

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: P675492

Luminaire Tested: **CCW-SA-1F-850-U-SL2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675492
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

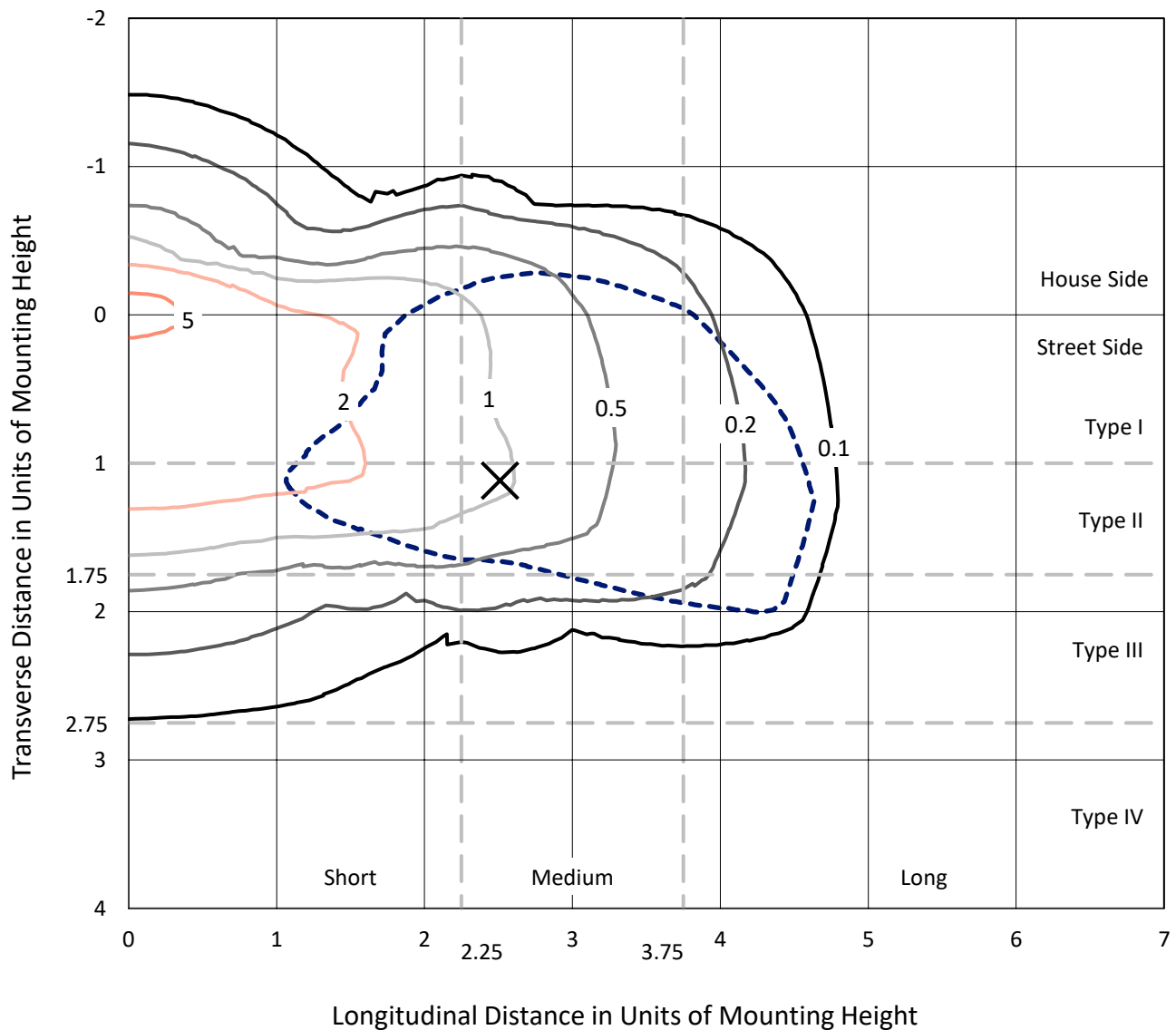
Lumens per Lamp: N/A
Luminaire Lumens: 6475 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

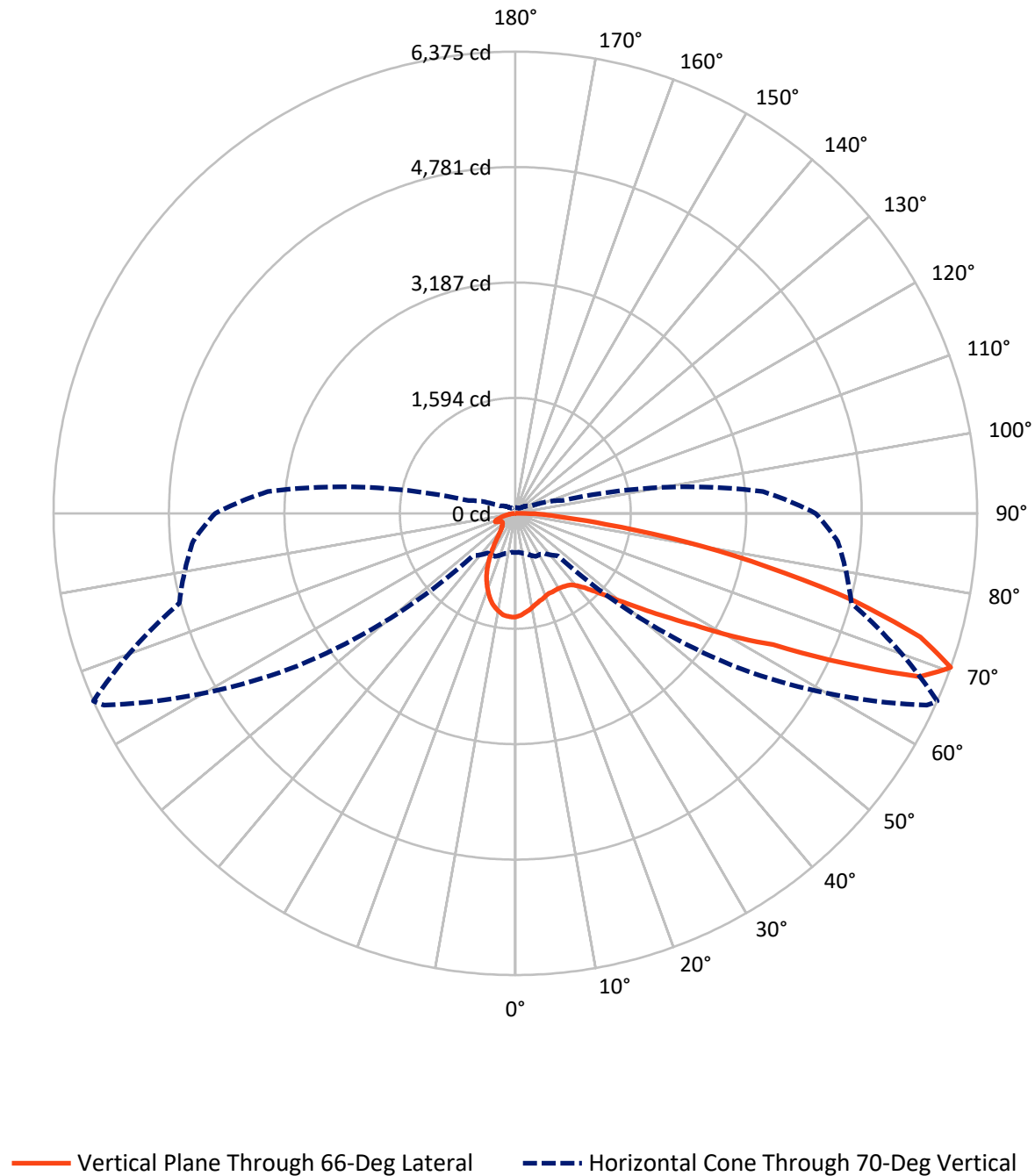
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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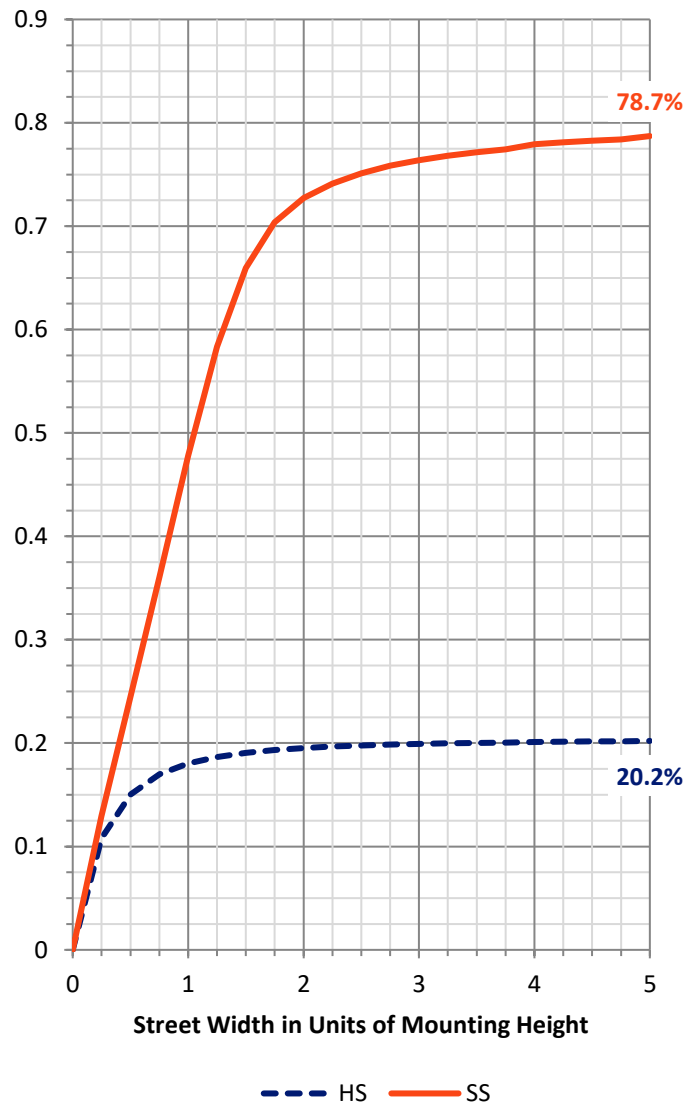
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1325.3	0.0	1325.3
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	5149.7	0.0	5149.7
	% Fixture	79.5	0.0	79.5
Total	Lumens	6475.0	0.0	6475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.0
10°-20°	311.4	4.8
20°-30°	427.6	6.6
30°-40°	573.4	8.9
40°-50°	831.9	12.8
50°-60°	1264.5	19.5
60°-70°	1561.7	24.1
70°-80°	1161.4	17.9
80°-90°	216.6	3.3
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°	6475.0	100.0
0°-180°	6475.0	100.0

Coefficient of Utilization



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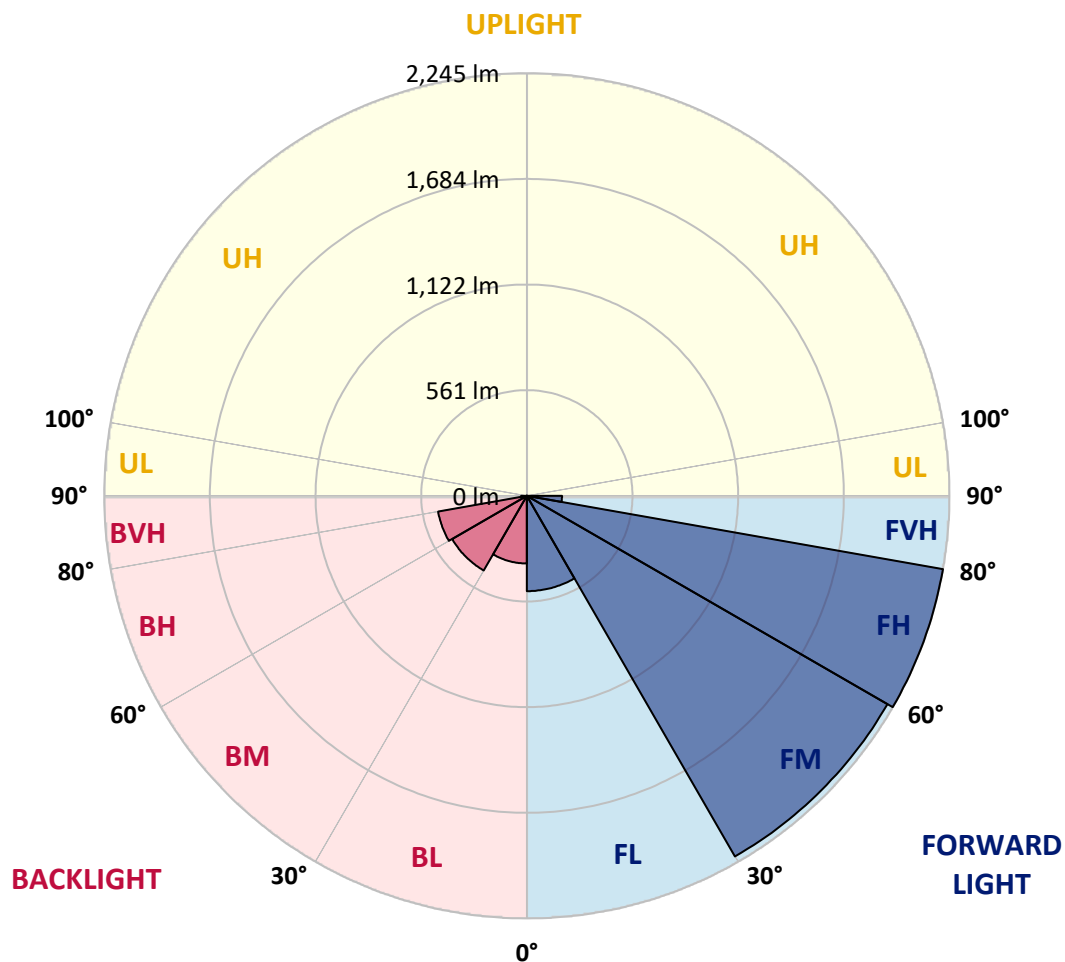
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	7.8			
FM	(30°-60°)	2212.0	34.2			
FH	(60°-80°)	2244.7	34.7			G2/5000
FVH	(80°-90°)	186.7	2.9			G2/225
BL	(0°-30°)	359.2	5.5	B1/500		
BM	(30°-60°)	457.8	7.1	B1/1000		
BH	(60°-80°)	478.4	7.4	B1/500		G1/500
BVH	(80°-90°)	29.9	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	1360.7	1367.9	1370.3	1375.1	1387.2	1396.8	1411.3	1418.5	1411.3	1420.9	1420.9
5°	1266.8	1257.1	1281.2	1290.8	1305.3	1324.6	1358.3	1384.8	1377.5	1406.4	1430.5
7.5°	1187.3	1187.3	1194.5	1216.2	1233.1	1262.0	1298.1	1339.0	1351.1	1389.6	1425.7
10°	1115.0	1124.7	1124.7	1158.4	1168.0	1201.7	1262.0	1312.5	1314.9	1380.0	1430.5
12.5°	1076.5	1071.7	1095.8	1105.4	1134.3	1168.0	1216.2	1278.8	1281.2	1351.1	1420.9
15°	1045.2	1050.0	1062.1	1086.1	1112.6	1139.1	1184.9	1242.7	1254.7	1336.6	1416.1
17.5°	1047.6	1050.0	1050.0	1066.9	1088.6	1119.9	1163.2	1230.6	1237.9	1317.3	1408.9
20°	1062.1	1052.4	1059.7	1066.9	1081.3	1110.2	1146.4	1204.2	1211.4	1314.9	1425.7
22.5°	1093.4	1086.1	1083.7	1081.3	1078.9	1095.8	1141.5	1189.7	1196.9	1302.9	1432.9
25°	1143.9	1141.5	1124.7	1107.8	1095.8	1095.8	1131.9	1201.7	1199.3	1302.9	1437.8
27.5°	1204.2	1204.2	1201.7	1170.4	1134.3	1115.0	1139.1	1196.9	1194.5	1302.9	1449.8
30°	1286.0	1286.0	1278.8	1249.9	1184.9	1129.5	1143.9	1192.1	1199.3	1293.3	1440.2
32.5°	1375.1	1372.7	1380.0	1353.5	1286.0	1196.9	1172.8	1201.7	1209.0	1302.9	1442.6
35°	1440.2	1454.6	1478.7	1454.6	1387.2	1266.8	1213.8	1221.0	1225.8	1305.3	1452.2
37.5°	1514.8	1531.7	1565.4	1584.7	1512.4	1372.7	1278.8	1252.3	1252.3	1336.6	1454.6
40°	1623.2	1606.3	1664.1	1697.9	1669.0	1502.8	1380.0	1310.1	1312.5	1377.5	1485.9
42.5°	1702.7	1719.5	1779.7	1839.9	1803.8	1661.7	1490.7	1404.0	1404.0	1437.8	1534.1
45°	1791.8	1811.0	1895.3	1967.6	1994.1	1852.0	1642.5	1538.9	1534.1	1555.8	1620.8
47.5°	1890.5	1917.0	2013.3	2097.6	2167.5	2049.5	1837.5	1702.7	1700.3	1717.1	1765.3
50°	2003.7	2013.3	2092.8	2246.9	2386.6	2312.0	2076.0	1933.9	1921.8	1929.0	1994.1
52.5°	2037.4	2030.2	2121.7	2287.9	2543.2	2632.3	2401.1	2196.4	2191.6	2174.7	2259.0
55°	1914.6	1938.7	2027.8	2239.7	2670.8	3010.4	2757.5	2555.2	2511.9	2466.1	2567.2
57.5°	1669.0	1671.4	1772.5	2023.0	2572.1	3323.5	3362.0	2906.8	2909.2	2786.4	2902.0
60°	1298.1	1290.8	1370.3	1596.7	2290.3	3419.8	4021.9	3468.0	3443.9	3106.7	3212.7
62.5°	936.8	922.4	939.2	1071.7	1712.3	3272.9	4669.7	4096.5	3995.4	3434.2	3516.1
65°	770.7	777.9	785.1	792.3	960.9	2699.7	4869.6	5122.5	4987.6	3817.2	3850.9
67.5°	638.2	643.0	674.3	717.7	712.9	1594.3	4638.4	6071.3	6020.8	4291.6	4139.9
70°	541.9	539.5	575.6	655.1	667.1	828.5	3672.7	6266.4	6374.8	4802.2	4467.4
72.5°	433.5	438.3	469.6	575.6	655.1	698.4	2114.5	5847.4	5844.9	5194.7	4291.6
75°	310.7	310.7	354.0	476.8	633.4	691.2	1170.4	4746.8	4835.9	4881.6	3723.2
77.5°	204.7	214.3	248.1	356.4	594.9	676.7	741.8	3451.1	3561.9	3651.0	2849.0
80°	139.7	144.5	166.2	248.1	503.3	681.5	606.9	2321.6	2365.0	2015.7	1156.0
82.5°	84.3	86.7	110.8	173.4	361.2	647.8	570.8	1281.2	1254.7	609.3	332.3
85°	45.8	48.2	69.8	115.6	238.4	566.0	561.1	628.6	585.2	224.0	139.7
87.5°	16.9	16.9	31.3	57.8	137.3	387.7	488.9	373.3	349.2	113.2	65.0
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°	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	1432.9	1432.9	1432.9	1432.9	1430.5	1420.9	1428.1	1425.7	1411.3	1413.7	1404.0
5°	1428.1	1440.2	1432.9	1423.3	1411.3	1382.4	1372.7	1365.5	1346.2	1339.0	1346.2
7.5°	1440.2	1430.5	1425.7	1408.9	1360.7	1334.2	1300.5	1259.5	1230.6	1223.4	1230.6
10°	1437.8	1437.8	1416.1	1367.9	1322.2	1245.1	1201.7	1129.5	1088.6	1076.5	1078.9
12.5°	1428.1	1435.3	1401.6	1324.6	1237.9	1143.9	1064.5	987.4	915.2	886.3	881.4
15°	1437.8	1430.5	1370.3	1271.6	1151.2	1021.1	905.5	792.3	724.9	681.5	671.9
17.5°	1423.3	1416.1	1329.4	1199.3	1038.0	871.8	727.3	604.5	537.1	520.2	520.2
20°	1440.2	1394.4	1281.2	1112.6	920.0	708.0	544.3	452.8	435.9	435.9	440.7
22.5°	1437.8	1389.6	1240.3	1028.3	777.9	534.6	404.6	378.1	380.5	399.8	397.4
25°	1423.3	1380.0	1182.5	934.4	628.6	402.2	334.8	327.5	344.4	366.1	363.7
27.5°	1420.9	1353.5	1129.5	823.6	479.3	317.9	291.4	291.4	308.3	327.5	325.1
30°	1406.4	1331.8	1064.5	698.4	361.2	277.0	267.3	267.3	274.5	284.2	284.2
32.5°	1404.0	1302.9	992.2	568.4	289.0	250.5	245.6	248.1	248.1	252.9	250.5
35°	1384.8	1264.4	917.6	440.7	250.5	236.0	231.2	228.8	228.8	226.4	226.4
37.5°	1377.5	1240.3	840.5	342.0	233.6	224.0	219.2	211.9	209.5	209.5	207.1
40°	1384.8	1216.2	765.8	277.0	219.2	214.3	207.1	197.5	195.1	195.1	195.1
42.5°	1411.3	1213.8	688.8	240.8	211.9	204.7	195.1	185.4	183.0	185.4	183.0
45°	1471.5	1233.1	614.1	224.0	202.3	195.1	183.0	175.8	173.4	175.8	175.8
47.5°	1570.2	1286.0	546.7	214.3	195.1	185.4	173.4	166.2	166.2	166.2	166.2
50°	1734.0	1387.2	481.7	207.1	190.3	178.2	166.2	156.5	154.1	154.1	156.5
52.5°	1979.6	1560.6	428.7	202.3	183.0	168.6	156.5	149.3	144.5	142.1	144.5
55°	2275.8	1813.5	411.8	197.5	173.4	161.4	149.3	139.7	134.9	134.9	132.5
57.5°	2593.7	2092.8	440.7	192.7	166.2	151.7	139.7	130.0	125.2	122.8	122.8
60°	2938.1	2422.8	546.7	190.3	158.9	142.1	130.0	122.8	115.6	113.2	113.2
62.5°	3251.2	2721.4	736.9	187.8	154.1	132.5	120.4	110.8	106.0	103.6	103.6
65°	3607.6	3053.7	922.4	197.5	151.7	125.2	110.8	101.1	96.3	93.9	93.9
67.5°	3918.3	3342.7	1030.8	221.6	158.9	115.6	98.7	91.5	89.1	86.7	86.7
70°	4144.7	3431.8	691.2	243.2	171.0	108.4	89.1	84.3	79.5	79.5	79.5
72.5°	3841.2	3063.4	409.4	228.8	161.4	101.1	79.5	74.7	72.2	72.2	69.8
75°	3284.9	2608.2	315.5	185.4	130.0	86.7	69.8	65.0	62.6	62.6	60.2
77.5°	2425.2	1868.8	233.6	146.9	101.1	69.8	60.2	57.8	55.4	53.0	53.0
80°	948.9	818.8	158.9	108.4	74.7	55.4	50.6	48.2	45.8	43.3	43.3
82.5°	293.8	248.1	91.5	72.2	53.0	43.3	40.9	38.5	36.1	33.7	33.7
85°	127.6	122.8	60.2	45.8	36.1	28.9	28.9	26.5	24.1	21.7	21.7
87.5°	62.6	60.2	33.7	21.7	19.3	14.4	14.4	12.0	9.6	9.6	9.6
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)