

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: P675459

Luminaire Tested: **CCW-SA-1F-830-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675459
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-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

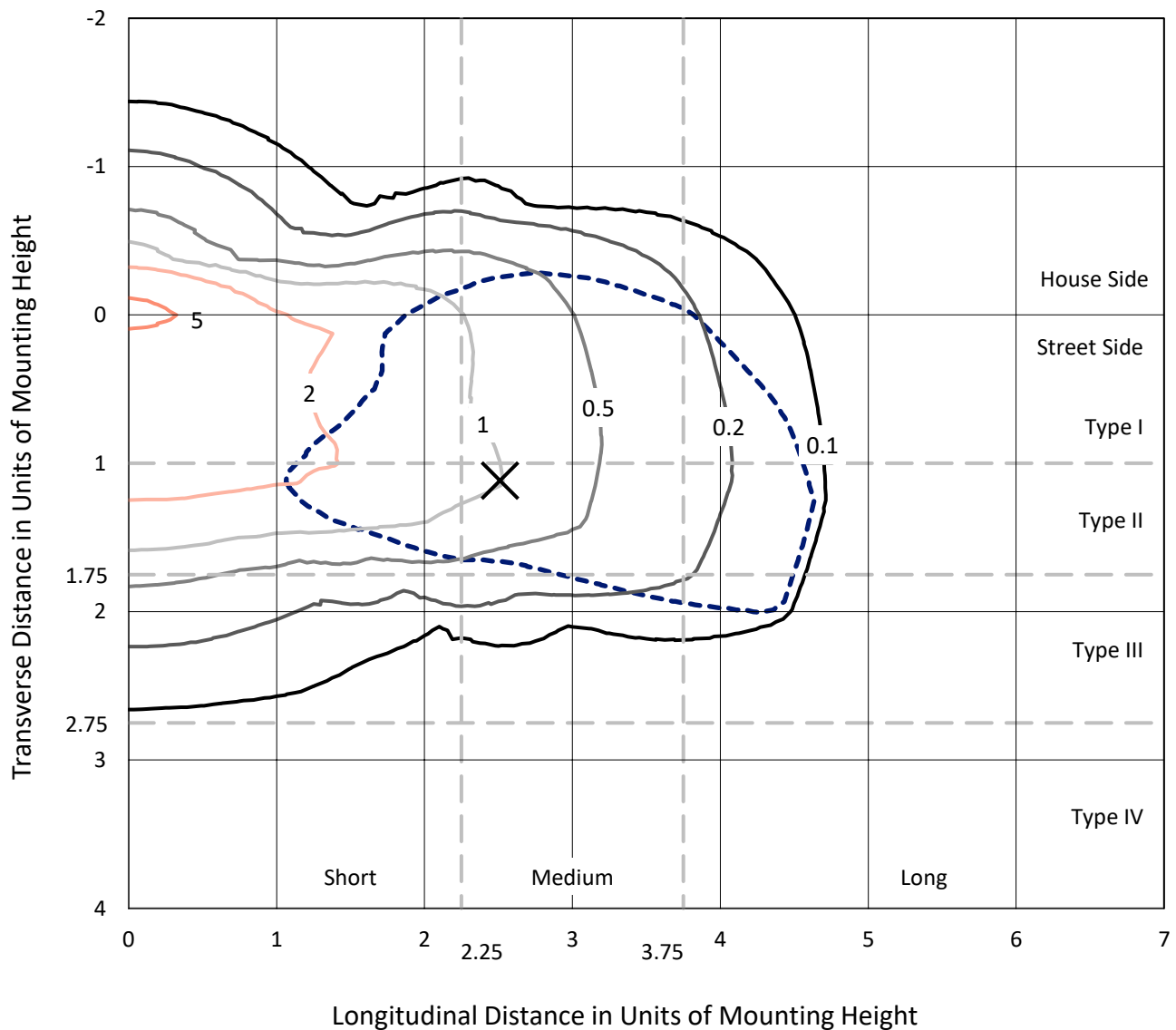
Lumens per Lamp: N/A
Luminaire Lumens: 5896.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

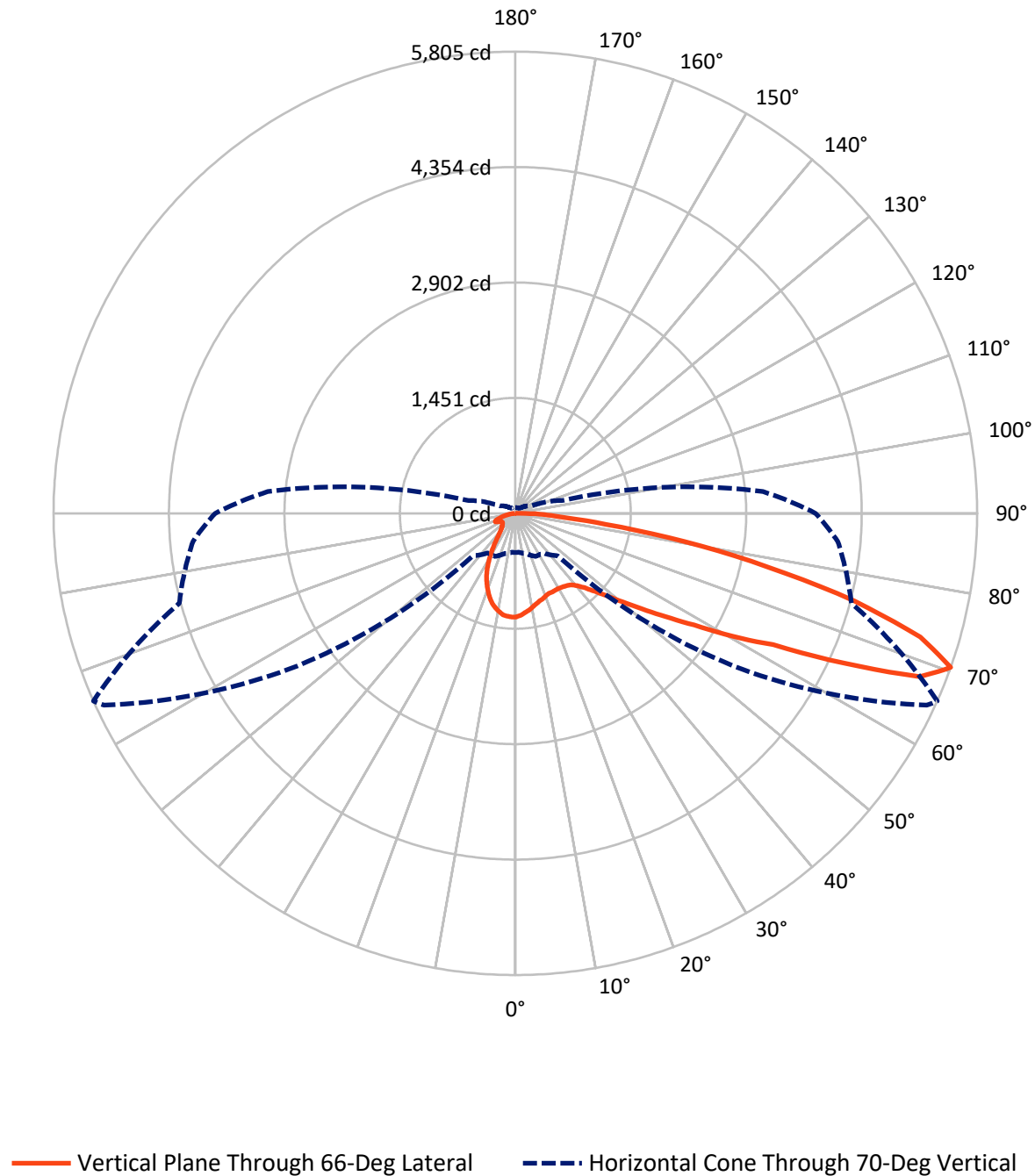
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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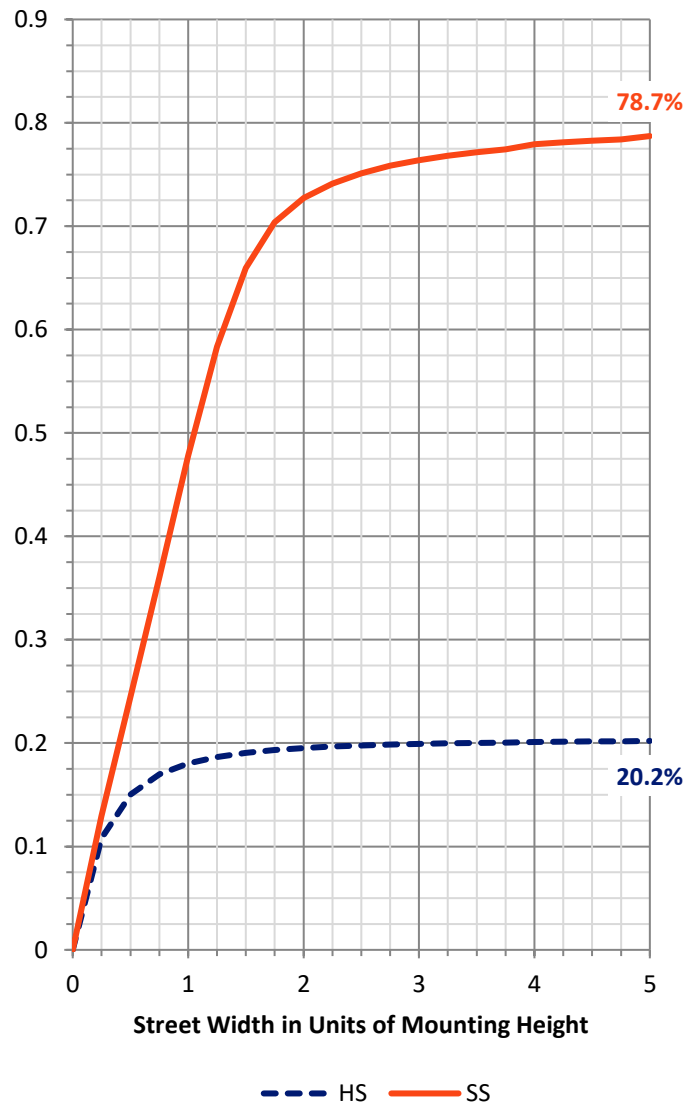
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.9	0.0	1206.9
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4689.4	0.0	4689.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	5896.2	0.0	5896.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.0
10°-20°	283.5	4.8
20°-30°	389.4	6.6
30°-40°	522.1	8.9
40°-50°	757.5	12.8
50°-60°	1151.5	19.5
60°-70°	1422.1	24.1
70°-80°	1057.6	17.9
80°-90°	197.3	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°	5896.2	100.0
0°-180°	5896.2	100.0

Coefficient of Utilization



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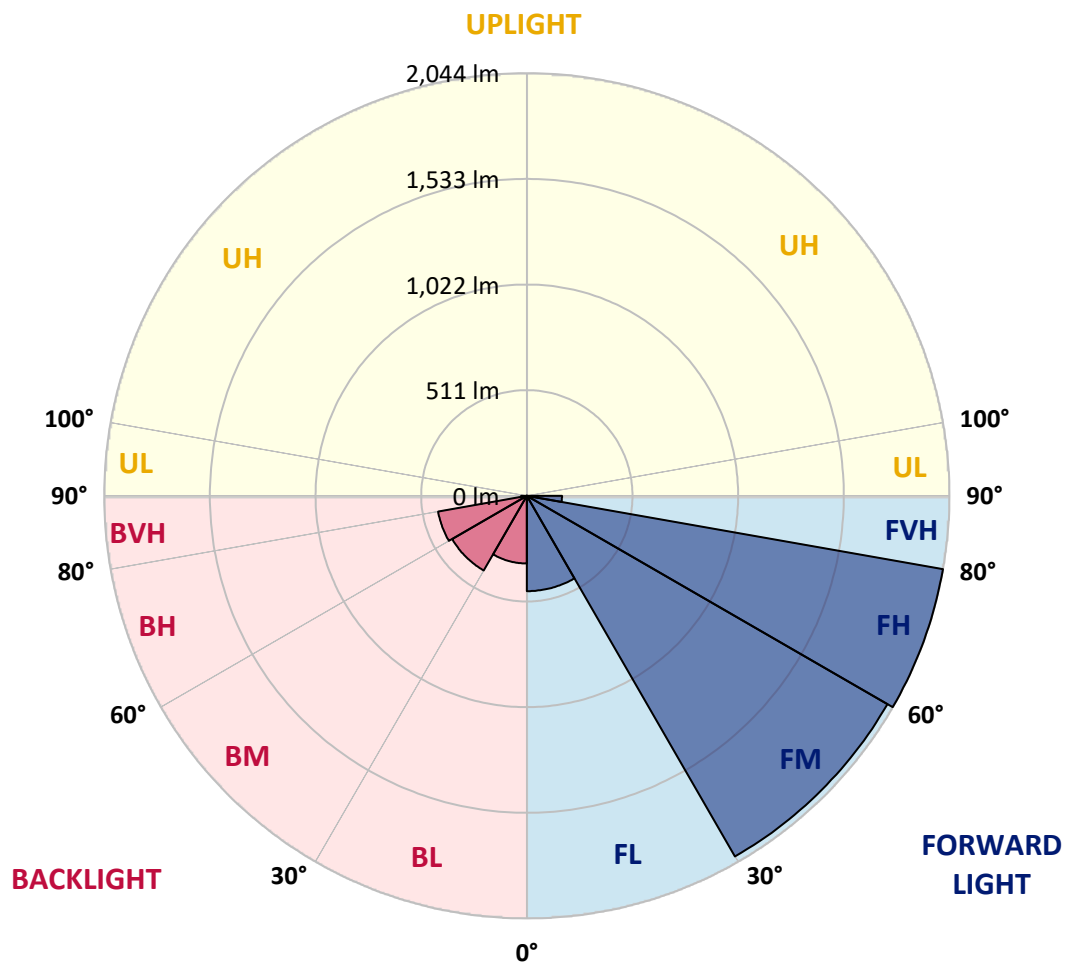
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.0	7.8			
FM	(30°-60°)	2014.2	34.2			
FH	(60°-80°)	2044.0	34.7			G2/5000
FVH	(80°-90°)	170.0	2.9			G2/225
BL	(0°-30°)	327.1	5.5	B1/500		
BM	(30°-60°)	416.9	7.1	B1/1000		
BH	(60°-80°)	435.7	7.4	B1/500		G1/500
BVH	(80°-90°)	27.2	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°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1239.1	1245.6	1247.8	1252.2	1263.2	1272.0	1285.1	1291.7	1285.1	1293.9	1293.9
5°	1153.5	1144.8	1166.7	1175.5	1188.6	1206.2	1236.9	1261.0	1254.4	1280.7	1302.7
7.5°	1081.2	1081.2	1087.7	1107.5	1122.8	1149.1	1182.0	1219.3	1230.3	1265.4	1298.3
10°	1015.4	1024.1	1024.1	1054.8	1063.6	1094.3	1149.1	1195.2	1197.4	1256.6	1302.7
12.5°	980.3	975.9	997.8	1006.6	1032.9	1063.6	1107.5	1164.5	1166.7	1230.3	1293.9
15°	951.8	956.2	967.1	989.1	1013.2	1037.3	1079.0	1131.6	1142.6	1217.1	1289.5
17.5°	954.0	956.2	956.2	971.5	991.2	1019.8	1059.2	1120.6	1127.2	1199.6	1282.9
20°	967.1	958.4	964.9	971.5	984.7	1011.0	1043.9	1096.5	1103.1	1197.4	1298.3
22.5°	995.6	989.1	986.9	984.7	982.5	997.8	1039.5	1083.4	1089.9	1186.4	1304.9
25°	1041.7	1039.5	1024.1	1008.8	997.8	997.8	1030.7	1094.3	1092.1	1186.4	1309.2
27.5°	1096.5	1096.5	1094.3	1065.8	1032.9	1015.4	1037.3	1089.9	1087.7	1186.4	1320.2
30°	1171.1	1171.1	1164.5	1138.2	1079.0	1028.5	1041.7	1085.5	1092.1	1177.7	1311.4
32.5°	1252.2	1250.0	1256.6	1232.5	1171.1	1089.9	1068.0	1094.3	1100.9	1186.4	1313.6
35°	1311.4	1324.6	1346.5	1324.6	1263.2	1153.5	1105.3	1111.9	1116.3	1188.6	1322.4
37.5°	1379.4	1394.8	1425.5	1443.0	1377.2	1250.0	1164.5	1140.4	1140.4	1217.1	1324.6
40°	1478.1	1462.8	1515.4	1546.1	1519.8	1368.4	1256.6	1193.0	1195.2	1254.4	1353.1
42.5°	1550.5	1565.8	1620.6	1675.5	1642.6	1513.2	1357.5	1278.5	1278.5	1309.2	1397.0
45°	1631.6	1649.2	1725.9	1791.7	1815.8	1686.4	1495.6	1401.3	1397.0	1416.7	1475.9
47.5°	1721.5	1745.7	1833.4	1910.1	1973.7	1866.3	1673.3	1550.5	1548.3	1563.6	1607.5
50°	1824.6	1833.4	1905.7	2046.1	2173.3	2105.3	1890.4	1761.0	1750.0	1756.6	1815.8
52.5°	1855.3	1848.7	1932.1	2083.4	2315.8	2397.0	2186.4	2000.0	1995.7	1980.3	2057.1
55°	1743.5	1765.4	1846.5	2039.5	2432.1	2741.3	2511.0	2326.8	2287.3	2245.7	2337.8
57.5°	1519.8	1522.0	1614.1	1842.1	2342.2	3026.4	3061.5	2647.0	2649.2	2537.3	2642.6
60°	1182.0	1175.5	1247.8	1454.0	2085.6	3114.1	3662.4	3158.0	3136.0	2829.0	2925.5
62.5°	853.1	839.9	855.3	975.9	1559.2	2980.3	4252.3	3730.3	3638.2	3127.3	3201.8
65°	701.8	708.3	714.9	721.5	875.0	2458.4	4434.3	4664.6	4541.8	3476.0	3506.7
67.5°	581.2	585.5	614.0	653.5	649.1	1451.8	4223.8	5528.6	5482.6	3908.0	3769.8
70°	493.4	491.2	524.1	596.5	607.5	754.4	3344.4	5706.3	5804.9	4372.9	4068.1
72.5°	394.7	399.1	427.6	524.1	596.5	636.0	1925.5	5324.7	5322.5	4730.4	3908.0
75°	282.9	282.9	322.4	434.2	576.8	629.4	1065.8	4322.5	4403.6	4445.3	3390.4
77.5°	186.4	195.2	225.9	324.6	541.7	616.2	675.5	3142.6	3243.5	3324.6	2594.4
80°	127.2	131.6	151.3	225.9	458.3	620.6	552.6	2114.1	2153.6	1835.6	1052.7
82.5°	76.8	78.9	100.9	157.9	329.0	589.9	519.7	1166.7	1142.6	554.8	302.6
85°	41.7	43.9	63.6	105.3	217.1	515.4	511.0	572.4	532.9	204.0	127.2
87.5°	15.4	15.4	28.5	52.6	125.0	353.1	445.2	339.9	318.0	103.1	59.2
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°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1304.9	1304.9	1304.9	1304.9	1302.7	1293.9	1300.5	1298.3	1285.1	1287.3	1278.5
5°	1300.5	1311.4	1304.9	1296.1	1285.1	1258.8	1250.0	1243.4	1225.9	1219.3	1225.9
7.5°	1311.4	1302.7	1298.3	1282.9	1239.1	1214.9	1184.2	1147.0	1120.6	1114.1	1120.6
10°	1309.2	1309.2	1289.5	1245.6	1204.0	1133.8	1094.3	1028.5	991.2	980.3	982.5
12.5°	1300.5	1307.0	1276.3	1206.2	1127.2	1041.7	969.3	899.1	833.4	807.0	802.6
15°	1309.2	1302.7	1247.8	1157.9	1048.3	929.8	824.6	721.5	660.1	620.6	611.9
17.5°	1296.1	1289.5	1210.6	1092.1	945.2	793.9	662.3	550.5	489.0	473.7	473.7
20°	1311.4	1269.8	1166.7	1013.2	837.7	644.8	495.6	412.3	396.9	396.9	401.3
22.5°	1309.2	1265.4	1129.4	936.4	708.3	486.9	368.4	344.3	346.5	364.0	361.8
25°	1296.1	1256.6	1076.8	850.9	572.4	366.2	304.8	298.3	313.6	333.3	331.1
27.5°	1293.9	1232.5	1028.5	750.0	436.4	289.5	265.4	265.4	280.7	298.3	296.1
30°	1280.7	1212.7	969.3	636.0	329.0	252.2	243.4	243.4	250.0	258.8	258.8
32.5°	1278.5	1186.4	903.5	517.6	263.2	228.1	223.7	225.9	225.9	230.3	228.1
35°	1261.0	1151.3	835.5	401.3	228.1	214.9	210.5	208.3	208.3	206.1	206.1
37.5°	1254.4	1129.4	765.4	311.4	212.7	204.0	199.6	193.0	190.8	190.8	188.6
40°	1261.0	1107.5	697.4	252.2	199.6	195.2	188.6	179.8	177.6	177.6	177.6
42.5°	1285.1	1105.3	627.2	219.3	193.0	186.4	177.6	168.9	166.7	168.9	166.7
45°	1339.9	1122.8	559.2	204.0	184.2	177.6	166.7	160.1	157.9	160.1	160.1
47.5°	1429.9	1171.1	497.8	195.2	177.6	168.9	157.9	151.3	151.3	151.3	151.3
50°	1579.0	1263.2	438.6	188.6	173.2	162.3	151.3	142.5	140.4	140.4	142.5
52.5°	1802.7	1421.1	390.4	184.2	166.7	153.5	142.5	136.0	131.6	129.4	131.6
55°	2072.4	1651.4	375.0	179.8	157.9	146.9	136.0	127.2	122.8	122.8	120.6
57.5°	2361.9	1905.7	401.3	175.4	151.3	138.2	127.2	118.4	114.0	111.8	111.8
60°	2675.5	2206.2	497.8	173.2	144.7	129.4	118.4	111.8	105.3	103.1	103.1
62.5°	2960.6	2478.1	671.1	171.1	140.4	120.6	109.7	100.9	96.5	94.3	94.3
65°	3285.2	2780.8	839.9	179.8	138.2	114.0	100.9	92.1	87.7	85.5	85.5
67.5°	3568.1	3043.9	938.6	201.8	144.7	105.3	89.9	83.3	81.1	78.9	78.9
70°	3774.2	3125.1	629.4	221.5	155.7	98.7	81.1	76.8	72.4	72.4	72.4
72.5°	3497.9	2789.5	372.8	208.3	146.9	92.1	72.4	68.0	65.8	65.8	63.6
75°	2991.3	2375.0	287.3	168.9	118.4	78.9	63.6	59.2	57.0	57.0	54.8
77.5°	2208.4	1701.8	212.7	133.8	92.1	63.6	54.8	52.6	50.4	48.2	48.2
80°	864.1	745.6	144.7	98.7	68.0	50.4	46.1	43.9	41.7	39.5	39.5
82.5°	267.5	225.9	83.3	65.8	48.2	39.5	37.3	35.1	32.9	30.7	30.7
85°	116.2	111.8	54.8	41.7	32.9	26.3	26.3	24.1	21.9	19.7	19.7
87.5°	57.0	54.8	30.7	19.7	17.5	13.2	13.2	11.0	8.8	8.8	8.8
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)