

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: P675480

Luminaire Tested: **CCW-SA-1E-840-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675480
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-840-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL2 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

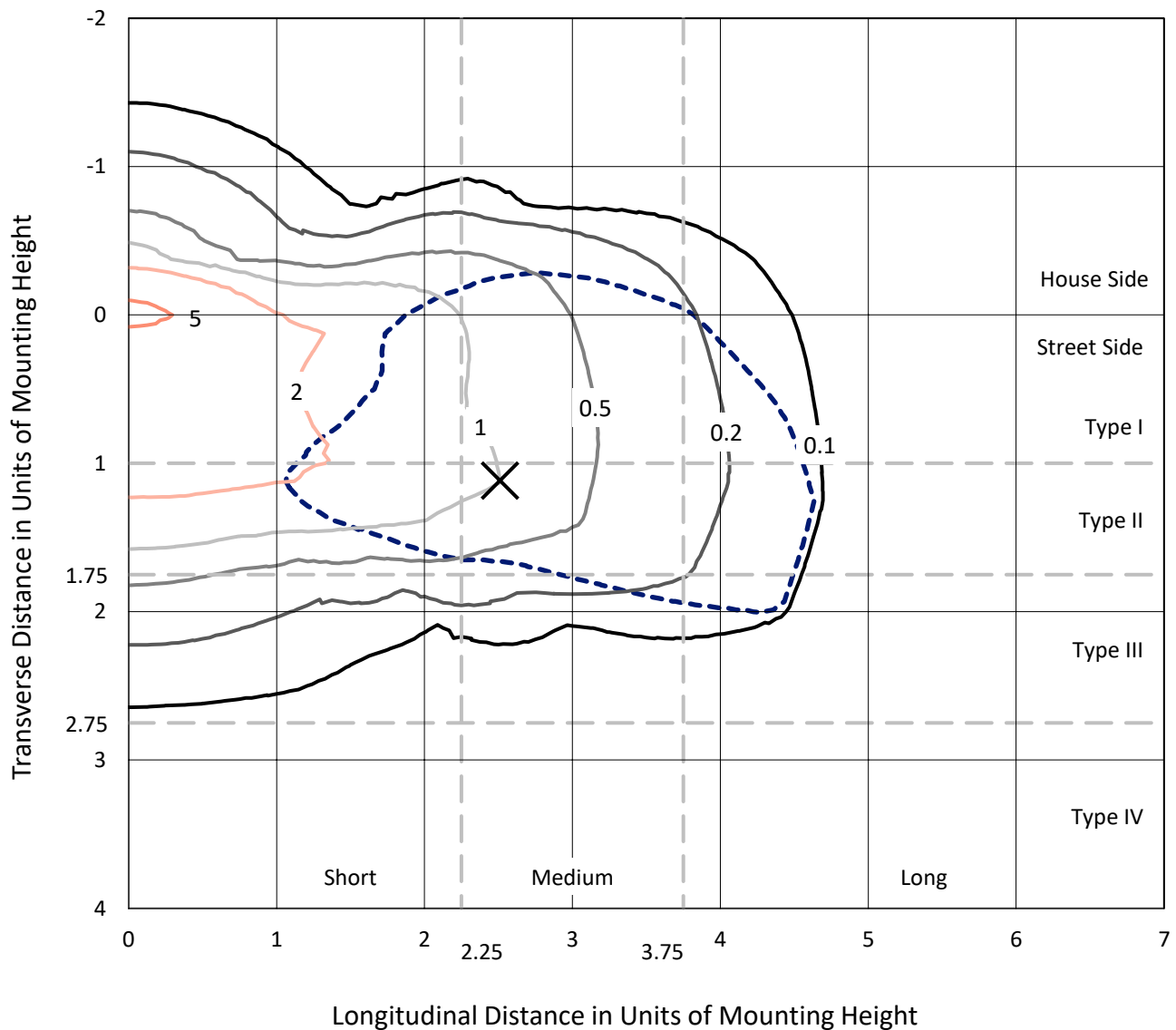
Lumens per Lamp: N/A
Luminaire Lumens: 5769.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

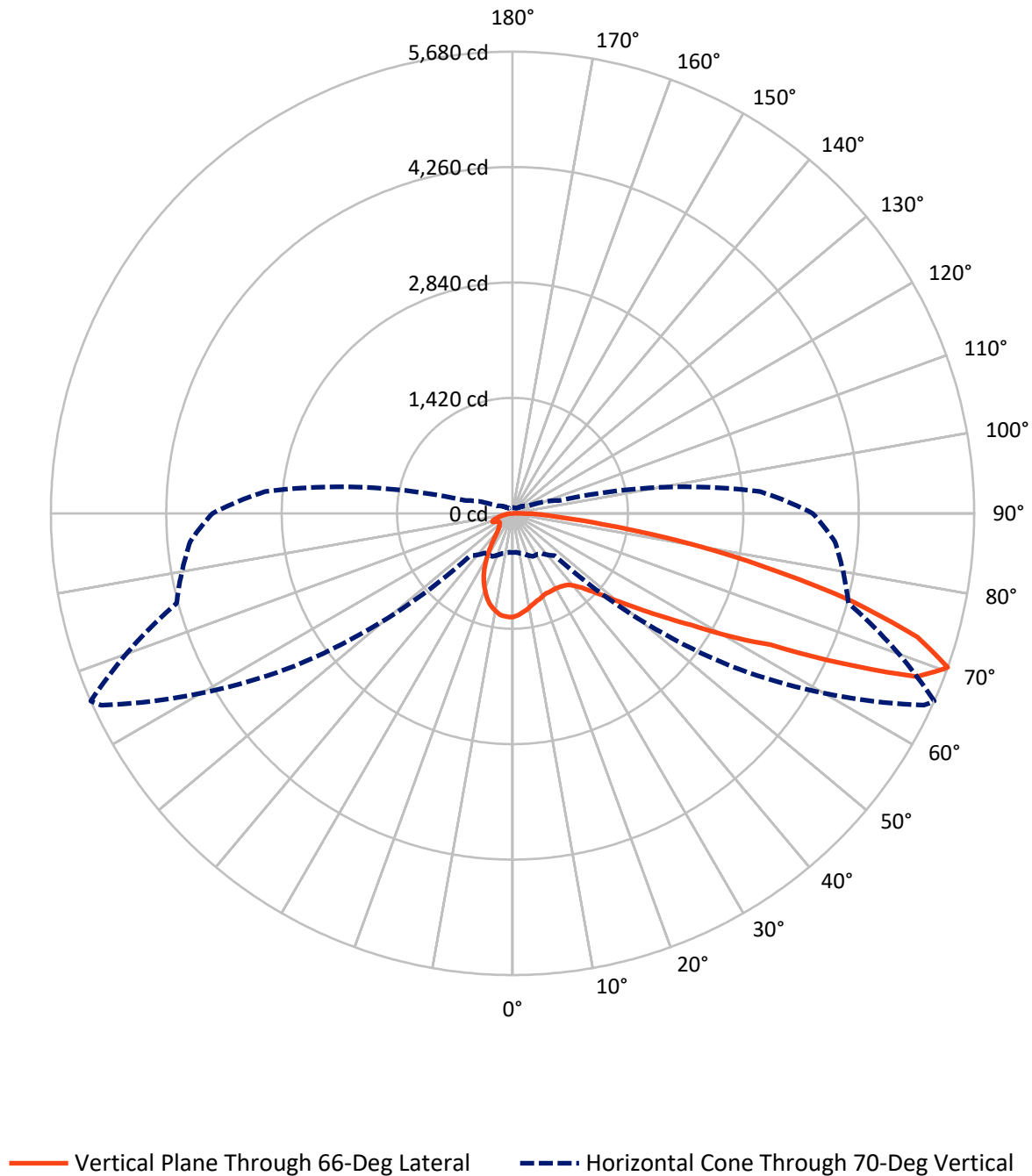
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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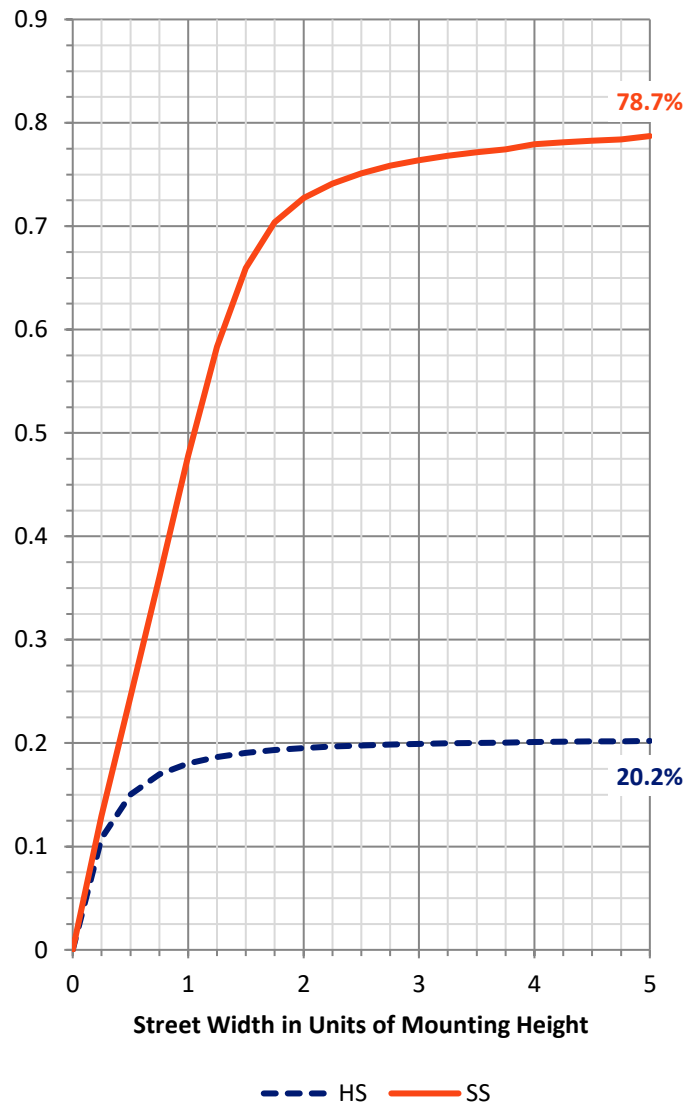
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.9	0.0	1180.9
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4588.3	0.0	4588.3
	% Fixture	79.5	0.0	79.5
Total	Lumens	5769.1	0.0	5769.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	2.0
10°-20°	277.4	4.8
20°-30°	381.0	6.6
30°-40°	510.9	8.9
40°-50°	741.2	12.8
50°-60°	1126.7	19.5
60°-70°	1391.5	24.1
70°-80°	1034.8	17.9
80°-90°	193.0	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°	5769.1	100.0
0°-180°	5769.1	100.0

Coefficient of Utilization



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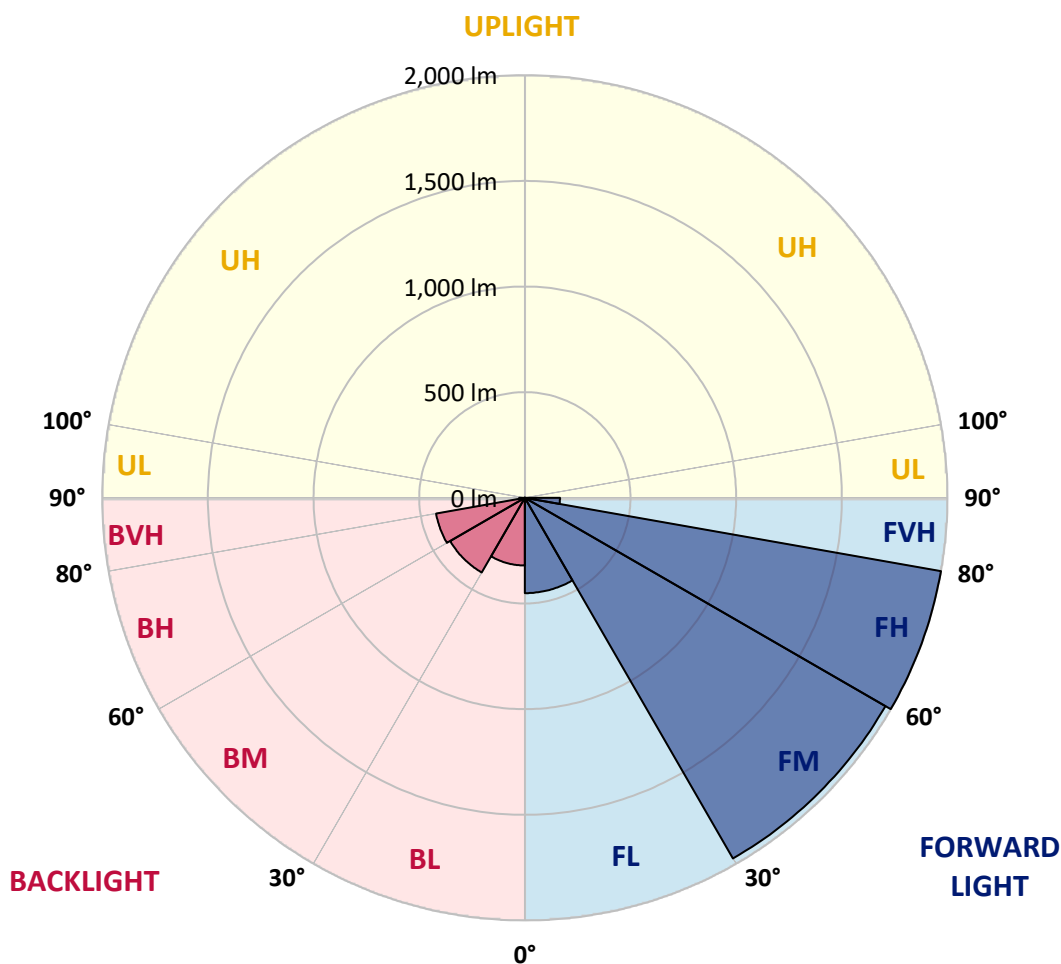
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.1	7.8			
FM	(30°-60°)	1970.8	34.2			
FH	(60°-80°)	2000.0	34.7			G2/5000
FVH	(80°-90°)	166.4	2.9			G2/225
BL	(0°-30°)	320.0	5.5	B1/500		
BM	(30°-60°)	407.9	7.1	B1/1000		
BH	(60°-80°)	426.3	7.4	B1/500		G1/500
BVH	(80°-90°)	26.6	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°	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1212.4	1218.8	1220.9	1225.2	1236.0	1244.5	1257.4	1263.9	1257.4	1266.0	1266.0
5°	1128.7	1120.1	1141.5	1150.1	1163.0	1180.2	1210.2	1233.8	1227.4	1253.1	1274.6
7.5°	1057.9	1057.9	1064.3	1083.6	1098.6	1124.4	1156.6	1193.0	1203.8	1238.1	1270.3
10°	993.5	1002.1	1002.1	1032.1	1040.7	1070.7	1124.4	1169.4	1171.6	1229.5	1274.6
12.5°	959.2	954.9	976.3	984.9	1010.7	1040.7	1083.6	1139.4	1141.5	1203.8	1266.0
15°	931.3	935.6	946.3	967.7	991.3	1014.9	1055.7	1107.2	1117.9	1190.9	1261.7
17.5°	933.4	935.6	935.6	950.6	969.9	997.8	1036.4	1096.5	1102.9	1173.7	1255.3
20°	946.3	937.7	944.1	950.6	963.4	989.2	1021.4	1072.9	1079.3	1171.6	1270.3
22.5°	974.2	967.7	965.6	963.4	961.3	976.3	1017.1	1060.0	1066.4	1160.9	1276.7
25°	1019.2	1017.1	1002.1	987.1	976.3	976.3	1008.5	1070.7	1068.6	1160.9	1281.0
27.5°	1072.9	1072.9	1070.7	1042.8	1010.7	993.5	1014.9	1066.4	1064.3	1160.9	1291.7
30°	1145.8	1145.8	1139.4	1113.7	1055.7	1006.4	1019.2	1062.2	1068.6	1152.3	1283.2
32.5°	1225.2	1223.1	1229.5	1205.9	1145.8	1066.4	1045.0	1070.7	1077.2	1160.9	1285.3
35°	1283.2	1296.0	1317.5	1296.0	1236.0	1128.7	1081.5	1087.9	1092.2	1163.0	1293.9
37.5°	1349.7	1364.7	1394.7	1411.9	1347.5	1223.1	1139.4	1115.8	1115.8	1190.9	1296.0
40°	1446.2	1431.2	1482.7	1512.8	1487.0	1339.0	1229.5	1167.3	1169.4	1227.4	1323.9
42.5°	1517.1	1532.1	1585.7	1639.4	1607.2	1480.6	1328.2	1251.0	1251.0	1281.0	1366.9
45°	1596.4	1613.6	1688.7	1753.1	1776.7	1650.1	1463.4	1371.1	1366.9	1386.2	1444.1
47.5°	1684.4	1708.0	1793.9	1869.0	1931.2	1826.0	1637.2	1517.1	1514.9	1529.9	1572.8
50°	1785.3	1793.9	1864.7	2002.0	2126.5	2059.9	1849.6	1723.0	1712.3	1718.8	1776.7
52.5°	1815.3	1808.9	1890.4	2038.5	2265.9	2345.3	2139.3	1956.9	1952.6	1937.6	2012.7
55°	1705.9	1727.3	1806.7	1995.6	2379.7	2682.2	2456.9	2276.7	2238.0	2197.3	2287.4
57.5°	1487.0	1489.2	1579.3	1802.4	2291.7	2961.2	2995.5	2589.9	2592.1	2482.6	2585.6
60°	1156.6	1150.1	1220.9	1422.6	2040.6	3047.0	3583.4	3089.9	3068.4	2768.0	2862.4
62.5°	834.7	821.8	836.8	954.9	1525.6	2916.1	4160.6	3649.9	3559.8	3059.9	3132.8
65°	686.6	693.1	699.5	706.0	856.2	2405.4	4338.7	4564.0	4443.9	3401.0	3431.1
67.5°	568.6	572.9	600.8	639.4	635.1	1420.5	4132.7	5409.5	5364.4	3823.8	3688.6
70°	482.8	480.7	512.8	583.6	594.4	738.1	3272.3	5583.3	5679.8	4278.7	3980.4
72.5°	386.2	390.5	418.4	512.8	583.6	622.3	1884.0	5209.9	5207.8	4628.4	3823.8
75°	276.8	276.8	315.4	424.9	564.3	615.8	1042.8	4229.3	4308.7	4349.5	3317.4
77.5°	182.4	191.0	221.0	317.6	530.0	603.0	660.9	3074.9	3173.6	3253.0	2538.4
80°	124.5	128.7	148.1	221.0	448.5	607.3	540.7	2068.5	2107.1	1796.0	1030.0
82.5°	75.1	77.2	98.7	154.5	321.9	577.2	508.5	1141.5	1117.9	542.9	296.1
85°	40.8	42.9	62.2	103.0	212.4	504.3	500.0	560.0	521.4	199.6	124.5
87.5°	15.0	15.0	27.9	51.5	122.3	345.5	435.6	332.6	311.1	100.9	57.9
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°	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6	1274.6
2.5°	1276.7	1276.7	1276.7	1276.7	1274.6	1266.0	1272.4	1270.3	1257.4	1259.6	1251.0
5°	1272.4	1283.2	1276.7	1268.1	1257.4	1231.7	1223.1	1216.6	1199.5	1193.0	1199.5
7.5°	1283.2	1274.6	1270.3	1255.3	1212.4	1188.8	1158.7	1122.2	1096.5	1090.0	1096.5
10°	1281.0	1281.0	1261.7	1218.8	1178.0	1109.4	1070.7	1006.4	969.9	959.2	961.3
12.5°	1272.4	1278.9	1248.8	1180.2	1102.9	1019.2	948.4	879.8	815.4	789.6	785.3
15°	1281.0	1274.6	1220.9	1133.0	1025.7	909.8	806.8	706.0	645.9	607.3	598.7
17.5°	1268.1	1261.7	1184.5	1068.6	924.8	776.8	648.0	538.6	478.5	463.5	463.5
20°	1283.2	1242.4	1141.5	991.3	819.7	630.9	484.9	403.4	388.4	388.4	392.7
22.5°	1281.0	1238.1	1105.1	916.2	693.1	476.4	360.5	336.9	339.0	356.2	354.1
25°	1268.1	1229.5	1053.6	832.6	560.0	358.3	298.3	291.8	306.8	326.2	324.0
27.5°	1266.0	1205.9	1006.4	733.9	427.0	283.2	259.6	259.6	274.7	291.8	289.7
30°	1253.1	1186.6	948.4	622.3	321.9	246.8	238.2	238.2	244.6	253.2	253.2
32.5°	1251.0	1160.9	884.1	506.4	257.5	223.2	218.9	221.0	221.0	225.3	223.2
35°	1233.8	1126.5	817.5	392.7	223.2	210.3	206.0	203.8	203.8	201.7	201.7
37.5°	1227.4	1105.1	748.9	304.7	208.1	199.6	195.3	188.8	186.7	186.7	184.5
40°	1233.8	1083.6	682.4	246.8	195.3	191.0	184.5	176.0	173.8	173.8	173.8
42.5°	1257.4	1081.5	613.7	214.6	188.8	182.4	173.8	165.2	163.1	165.2	163.1
45°	1311.1	1098.6	547.2	199.6	180.2	173.8	163.1	156.6	154.5	156.6	156.6
47.5°	1399.0	1145.8	487.1	191.0	173.8	165.2	154.5	148.1	148.1	148.1	148.1
50°	1544.9	1236.0	429.2	184.5	169.5	158.8	148.1	139.5	137.3	137.3	139.5
52.5°	1763.8	1390.5	381.9	180.2	163.1	150.2	139.5	133.0	128.7	126.6	128.7
55°	2027.7	1615.8	366.9	176.0	154.5	143.8	133.0	124.5	120.2	120.2	118.0
57.5°	2311.0	1864.7	392.7	171.7	148.1	135.2	124.5	115.9	111.6	109.4	109.4
60°	2617.8	2158.6	487.1	169.5	141.6	126.6	115.9	109.4	103.0	100.9	100.9
62.5°	2896.8	2424.7	656.6	167.4	137.3	118.0	107.3	98.7	94.4	92.3	92.3
65°	3214.4	2720.8	821.8	176.0	135.2	111.6	98.7	90.1	85.8	83.7	83.7
67.5°	3491.2	2978.3	918.4	197.4	141.6	103.0	88.0	81.5	79.4	77.2	77.2
70°	3692.9	3057.7	615.8	216.7	152.3	96.6	79.4	75.1	70.8	70.8	70.8
72.5°	3422.5	2729.4	364.8	203.8	143.8	90.1	70.8	66.5	64.4	64.4	62.2
75°	2926.8	2323.9	281.1	165.2	115.9	77.2	62.2	57.9	55.8	55.8	53.6
77.5°	2160.8	1665.1	208.1	130.9	90.1	62.2	53.6	51.5	49.4	47.2	47.2
80°	845.4	729.6	141.6	96.6	66.5	49.4	45.1	42.9	40.8	38.6	38.6
82.5°	261.8	221.0	81.5	64.4	47.2	38.6	36.5	34.3	32.2	30.0	30.0
85°	113.7	109.4	53.6	40.8	32.2	25.7	25.7	23.6	21.5	19.3	19.3
87.5°	55.8	53.6	30.0	19.3	17.2	12.9	12.9	10.7	8.6	8.6	8.6
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)