

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: P675781

Luminaire Tested: **CCW-SA-2A-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675781
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

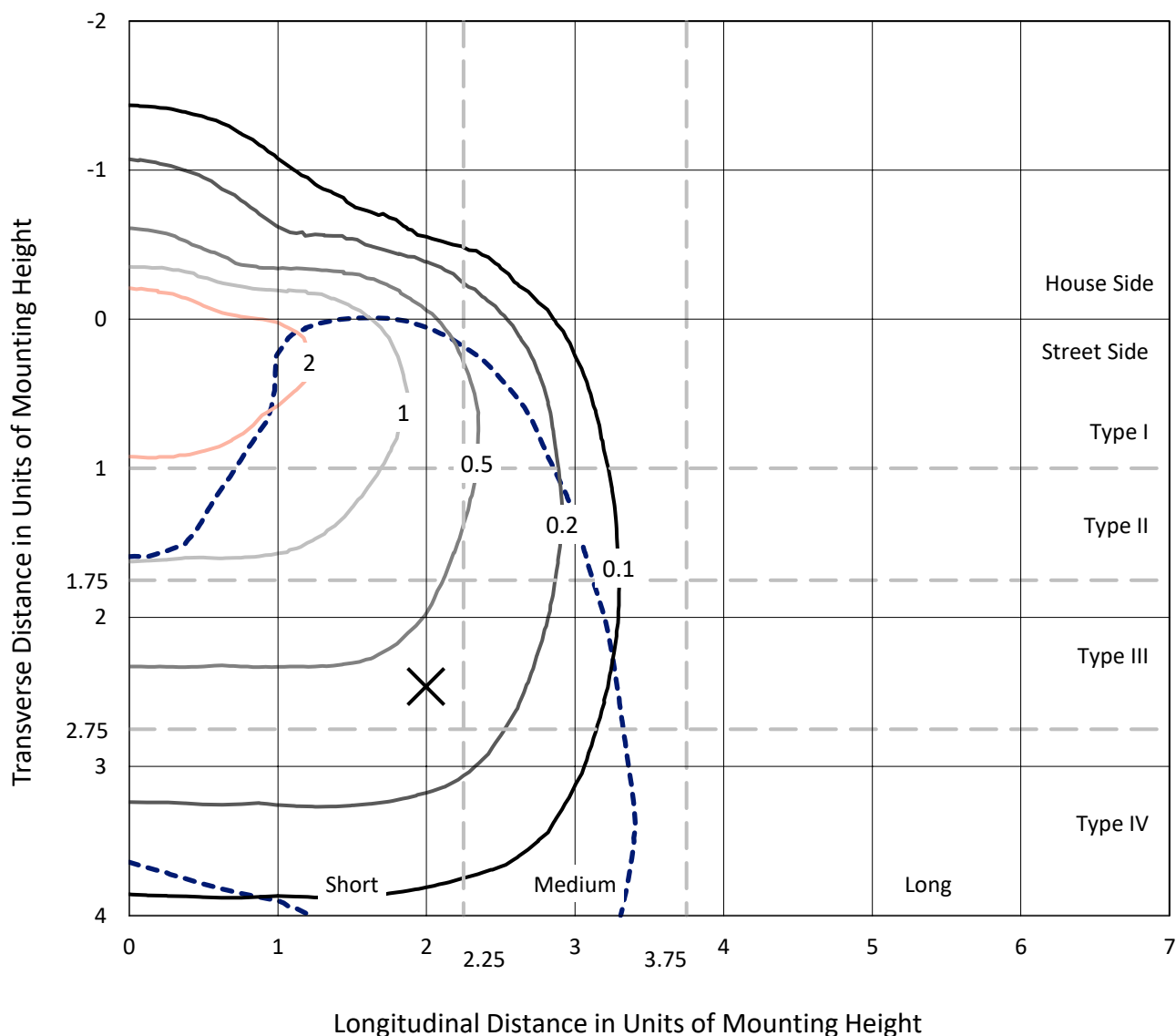
Lumens per Lamp: N/A
Luminaire Lumens: 4678.7 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

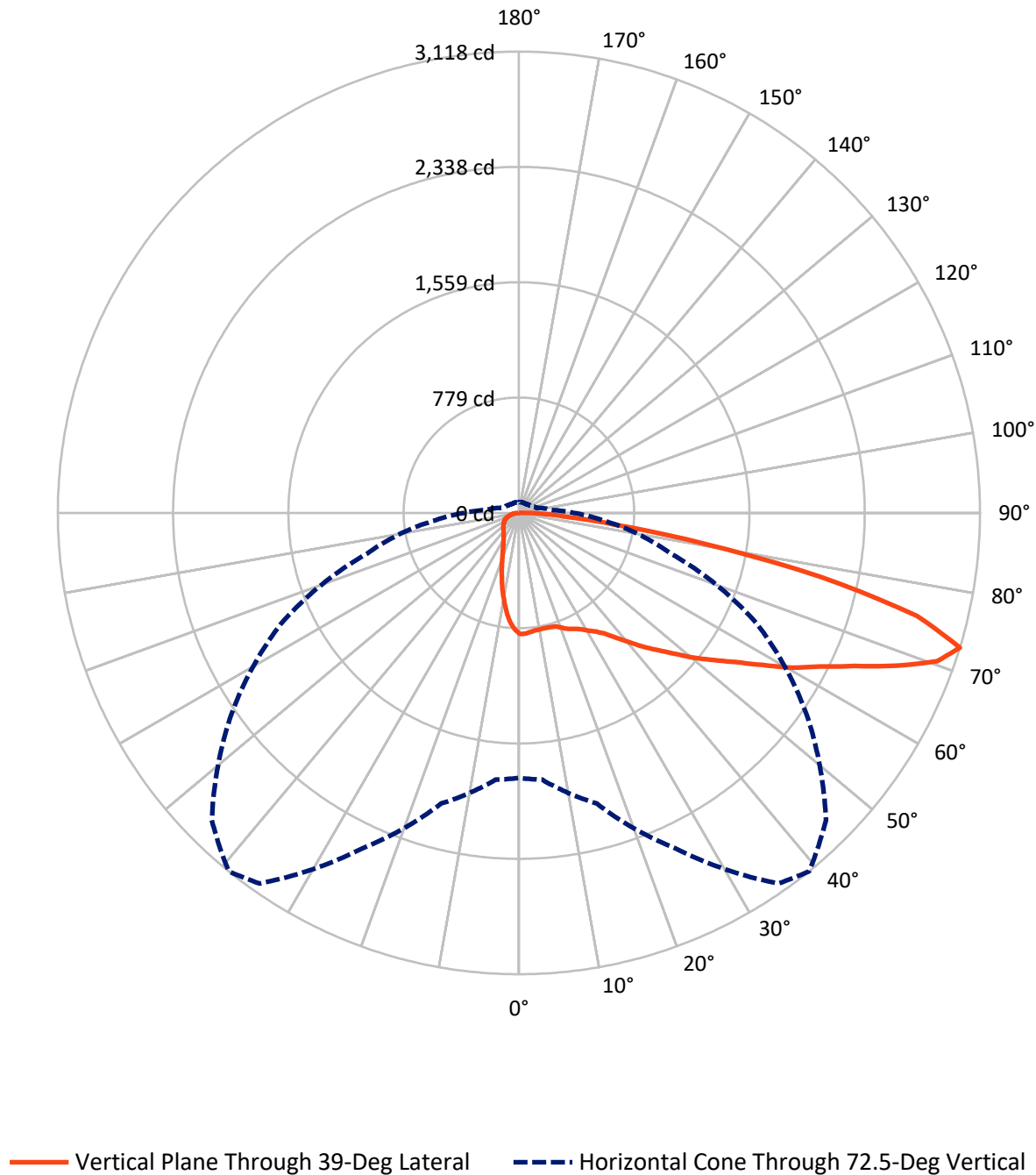
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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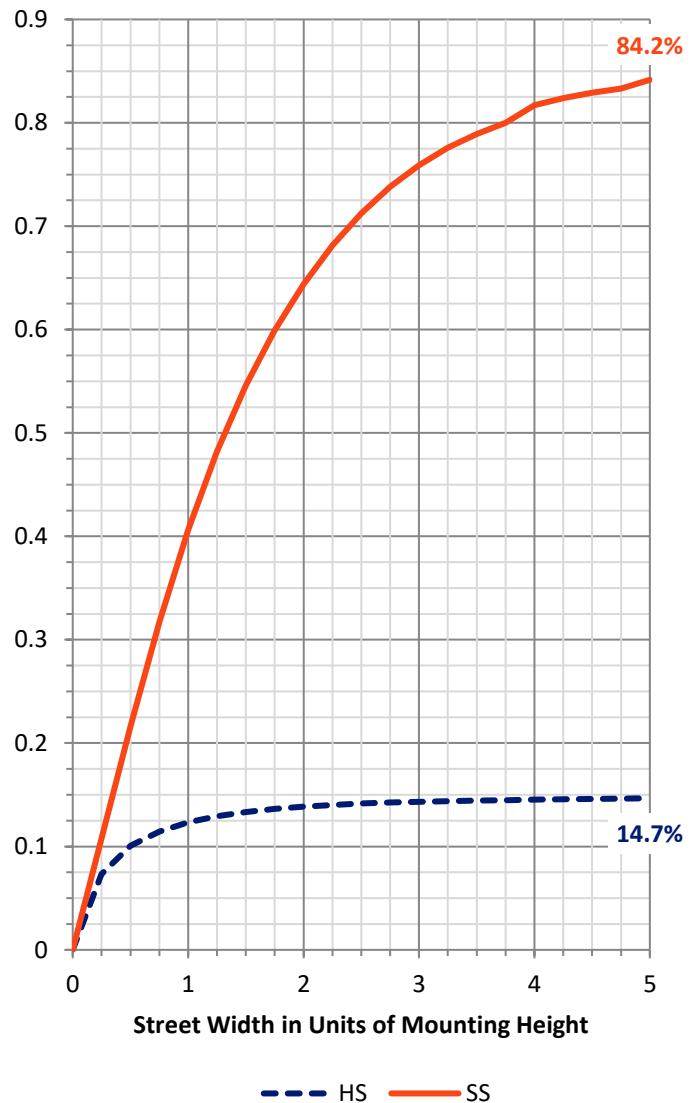
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	695.3	0.0	695.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3983.3	0.0	3983.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	4678.7	0.0	4678.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.5
10°-20°	184.7	3.9
20°-30°	281.4	6.0
30°-40°	411.6	8.8
40°-50°	630.2	13.5
50°-60°	924.3	19.8
60°-70°	1178.8	25.2
70°-80°	851.7	18.2
80°-90°	143.7	3.1
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°	4678.7	100.0
0°-180°	4678.7	100.0

Coefficient of Utilization



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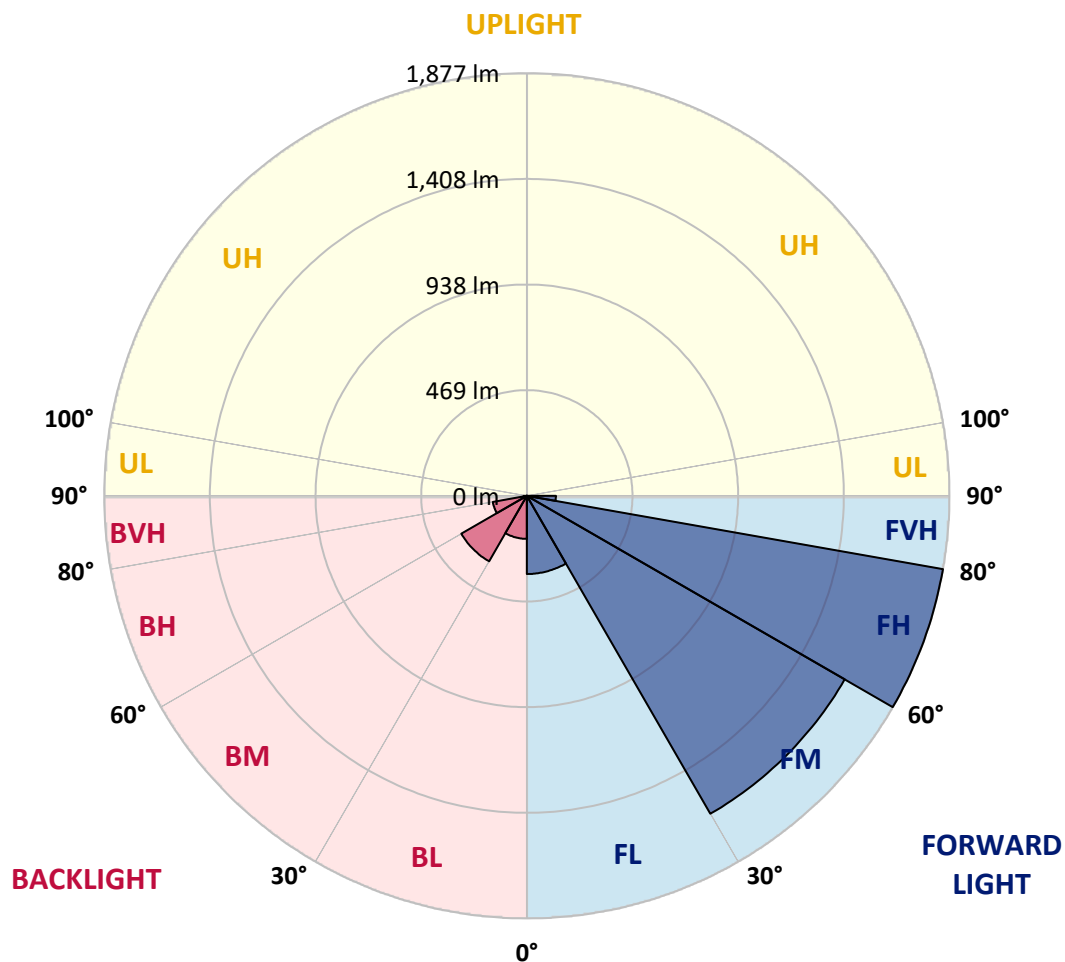
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.2	7.4			
FM	(30°-60°)	1630.2	34.8			
FH	(60°-80°)	1876.8	40.1			G2/5000
FVH	(80°-90°)	129.1	2.8			G2/225
BL	(0°-30°)	191.2	4.1	B1/500		
BM	(30°-60°)	335.9	7.2	B1/1000		
BH	(60°-80°)	153.6	3.3	B1/500		G1/500
BVH	(80°-90°)	14.6	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0
2.5°	831.3	833.0	829.5	826.0	824.2	817.2	824.2	820.7	817.2	817.2	817.2
5°	820.7	822.5	822.5	819.0	820.7	808.4	806.7	808.4	803.2	799.6	797.9
7.5°	804.9	808.4	815.5	813.7	806.7	801.4	803.2	801.4	792.6	787.3	773.3
10°	792.6	796.1	799.6	803.2	801.4	799.6	797.9	790.9	789.1	776.8	762.7
12.5°	780.3	780.3	782.1	796.1	797.9	797.9	787.3	787.3	782.1	780.3	759.2
15°	768.0	773.3	787.3	790.9	797.9	801.4	796.1	796.1	787.3	775.0	759.2
17.5°	771.5	780.3	794.4	803.2	806.7	806.7	813.7	808.4	796.1	789.1	773.3
20°	789.1	790.9	808.4	824.2	827.8	827.8	820.7	815.5	806.7	794.4	773.3
22.5°	799.6	811.9	833.0	841.8	852.4	852.4	843.6	831.3	819.0	806.7	783.8
25°	845.3	847.1	855.9	869.9	875.2	868.2	859.4	845.3	829.5	817.2	796.1
27.5°	877.0	885.8	896.3	903.3	894.5	889.3	882.2	866.4	854.1	843.6	813.7
30°	935.0	924.4	931.5	935.0	919.2	922.7	903.3	889.3	875.2	875.2	841.8
32.5°	970.1	978.9	971.9	970.1	957.8	956.1	943.8	927.9	919.2	929.7	884.0
35°	1031.6	1026.4	1026.4	1024.6	1010.5	1001.8	1001.8	973.6	982.4	1005.3	949.0
37.5°	1063.3	1061.5	1072.0	1080.8	1066.8	1072.0	1066.8	1054.5	1058.0	1098.4	1029.9
40°	1094.9	1107.2	1128.3	1131.8	1140.6	1147.6	1144.1	1142.3	1156.4	1221.4	1138.8
42.5°	1124.8	1135.3	1167.0	1195.1	1216.2	1239.0	1240.8	1240.8	1286.5	1379.6	1270.6
45°	1163.4	1172.2	1216.2	1272.4	1307.5	1323.4	1337.4	1353.2	1414.8	1525.5	1411.2
47.5°	1216.2	1223.2	1275.9	1346.2	1414.8	1423.5	1451.7	1469.2	1562.4	1674.9	1555.3
50°	1291.7	1286.5	1328.6	1430.6	1497.4	1539.5	1580.0	1611.6	1703.0	1826.0	1667.8
52.5°	1353.2	1353.2	1384.9	1520.2	1611.6	1652.0	1694.2	1738.1	1843.6	1977.1	1759.2
55°	1458.7	1448.1	1467.5	1608.1	1739.9	1778.5	1859.4	1896.3	1998.2	2089.6	1836.5
57.5°	1530.7	1536.0	1558.9	1724.1	1891.0	1938.5	2019.3	2045.7	2135.3	2207.4	1892.8
60°	1625.6	1608.1	1657.3	1852.4	2058.0	2124.8	2191.5	2207.4	2274.2	2282.9	1919.1
62.5°	1717.0	1713.5	1755.7	1980.7	2237.2	2284.7	2353.2	2370.8	2398.9	2342.7	1882.2
65°	1773.3	1796.1	1875.2	2121.3	2441.1	2493.8	2562.4	2527.2	2495.6	2290.0	1701.2
67.5°	1850.6	1861.1	1982.4	2274.2	2676.6	2755.7	2815.4	2676.6	2441.1	2073.8	1432.3
70°	1868.2	1896.3	2054.5	2434.1	2919.1	3000.0	3003.5	2625.6	2242.5	1687.2	1038.7
72.5°	1790.8	1810.2	2033.4	2500.9	3058.0	3117.7	2936.7	2374.3	1776.8	1063.3	565.9
75°	1506.1	1560.6	1769.8	2295.2	2803.1	2780.3	2488.6	1811.9	1066.8	471.0	239.0
77.5°	1049.2	1051.0	1268.9	1669.6	2098.4	2093.1	1775.0	1051.0	456.9	189.8	140.6
80°	465.7	499.1	630.9	899.8	1274.2	1274.2	1035.1	522.0	228.5	123.0	96.7
82.5°	274.2	284.7	337.4	420.0	620.4	653.8	495.6	348.0	156.4	77.3	59.8
85°	202.1	219.7	251.3	253.1	293.5	298.8	274.2	302.3	107.2	42.2	49.2
87.5°	151.1	161.7	200.4	167.0	156.4	147.6	168.7	309.3	40.4	21.1	15.8
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°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0
2.5°	810.2	810.2	806.7	799.6	799.6	785.6	789.1	792.6	783.8	783.8	785.6
5°	797.9	790.9	782.1	771.5	764.5	745.2	741.6	729.3	727.6	724.1	718.8
7.5°	773.3	762.7	746.9	731.1	708.3	690.7	669.6	652.0	645.0	639.7	638.0
10°	750.4	748.7	722.3	690.7	655.5	622.1	590.5	567.7	553.6	544.8	543.1
12.5°	750.4	736.4	699.5	655.5	604.6	555.4	514.9	483.3	464.0	449.9	444.6
15°	746.9	732.9	683.7	616.9	558.9	492.1	435.8	402.5	374.3	360.3	362.0
17.5°	750.4	729.3	660.8	588.7	507.9	435.8	369.1	328.6	300.5	290.0	288.2
20°	752.2	725.8	643.2	550.1	455.2	374.3	311.1	272.4	251.3	244.3	244.3
22.5°	748.7	715.3	616.9	504.4	409.5	323.4	270.6	237.3	223.2	214.4	217.9
25°	764.5	713.5	592.3	465.7	356.8	281.2	240.8	216.2	207.4	202.1	203.9
27.5°	768.0	713.5	572.9	421.8	311.1	249.6	217.9	202.1	195.1	191.6	189.8
30°	782.1	717.0	550.1	377.9	274.2	225.0	200.4	191.6	186.3	184.5	184.5
32.5°	820.7	727.6	525.5	340.9	242.5	203.9	188.0	181.0	177.5	175.7	177.5
35°	866.4	755.7	499.1	302.3	219.7	189.8	177.5	172.2	170.5	170.5	170.5
37.5°	936.7	797.9	476.3	270.6	200.4	175.7	167.0	165.2	163.4	165.2	165.2
40°	1017.6	843.6	455.2	246.0	186.3	167.0	158.2	158.2	156.4	158.2	159.9
42.5°	1110.7	899.8	434.1	221.4	174.0	159.9	152.9	151.1	149.4	152.9	154.7
45°	1239.0	977.1	420.0	207.4	165.2	152.9	145.9	145.9	144.1	144.1	147.6
47.5°	1346.2	1051.0	420.0	193.3	159.9	147.6	140.6	140.6	137.1	138.8	138.8
50°	1435.8	1114.2	428.8	189.8	152.9	142.4	137.1	133.6	131.8	131.8	131.8
52.5°	1495.6	1152.9	435.8	186.3	149.4	135.3	131.8	130.1	126.5	124.8	126.5
55°	1555.3	1179.3	437.6	186.3	144.1	128.3	124.8	124.8	121.3	119.5	119.5
57.5°	1578.2	1168.7	413.0	182.8	140.6	123.0	119.5	117.7	116.0	114.2	114.2
60°	1567.7	1130.0	358.5	174.0	137.1	119.5	112.5	112.5	112.5	109.0	110.7
62.5°	1495.6	998.2	288.2	159.9	131.8	112.5	105.4	109.0	109.0	107.2	107.2
65°	1305.8	824.2	233.7	147.6	124.8	107.2	100.2	105.4	107.2	105.4	103.7
67.5°	1043.9	634.4	193.3	133.6	116.0	98.4	93.1	98.4	100.2	98.4	98.4
70°	717.0	409.5	156.4	119.5	103.7	89.6	84.4	87.9	87.9	89.6	89.6
72.5°	370.8	221.4	128.3	101.9	89.6	80.8	75.6	75.6	73.8	73.8	73.8
75°	184.5	151.1	107.2	86.1	75.6	68.5	65.0	61.5	61.5	61.5	61.5
77.5°	128.3	116.0	87.9	68.5	61.5	56.2	56.2	51.0	51.0	51.0	51.0
80°	96.7	91.4	66.8	52.7	47.5	43.9	43.9	42.2	42.2	40.4	40.4
82.5°	68.5	73.8	51.0	38.7	35.1	33.4	33.4	31.6	31.6	28.1	28.1
85°	54.5	61.5	38.7	28.1	26.4	22.8	22.8	21.1	21.1	19.3	17.6
87.5°	15.8	33.4	15.8	10.5	10.5	10.5	10.5	8.8	8.8	7.0	7.0
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)