

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: P672048

Luminaire Tested: **CCP-SA-1F-850-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ AFL
distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6602.3 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

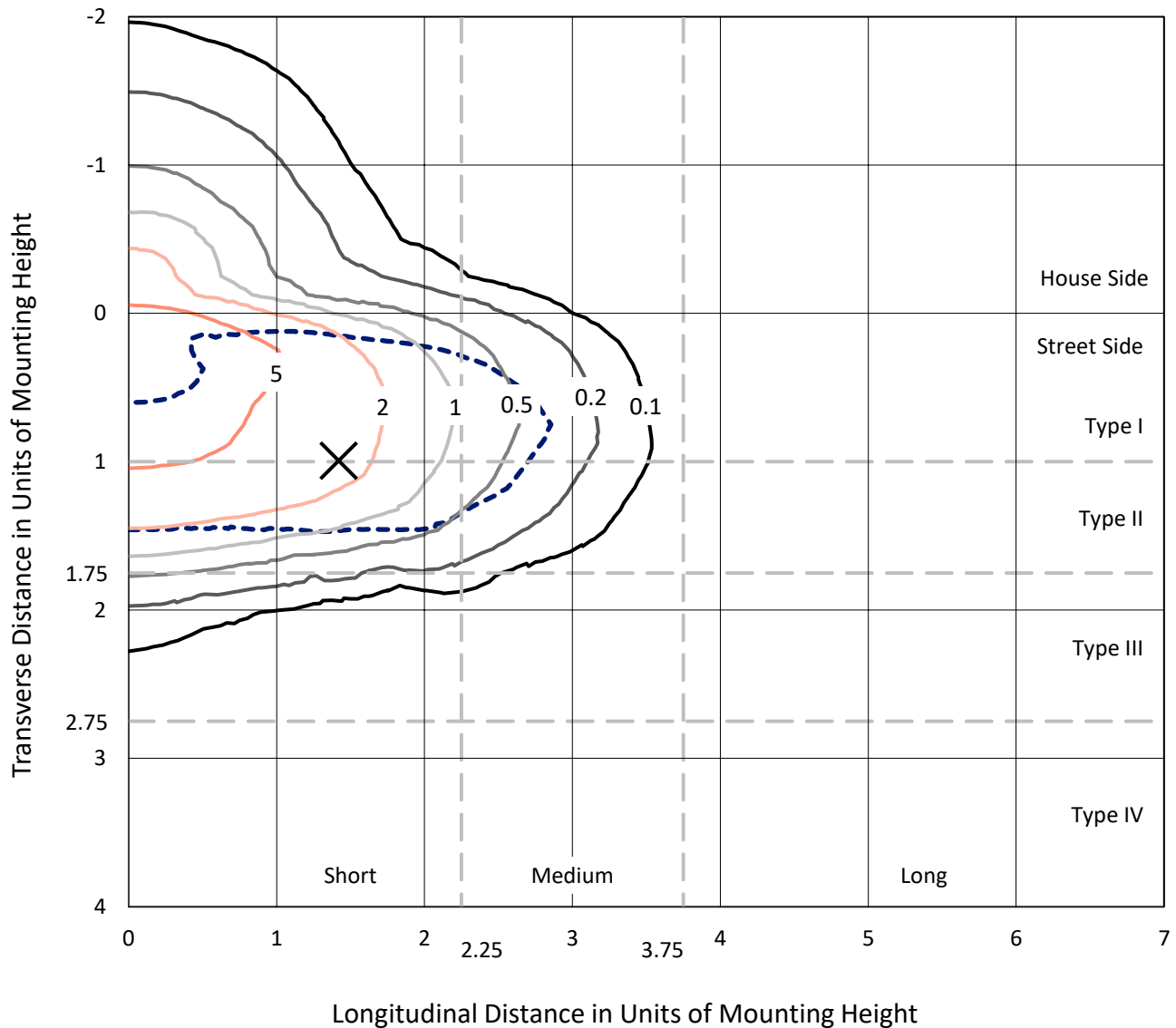
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

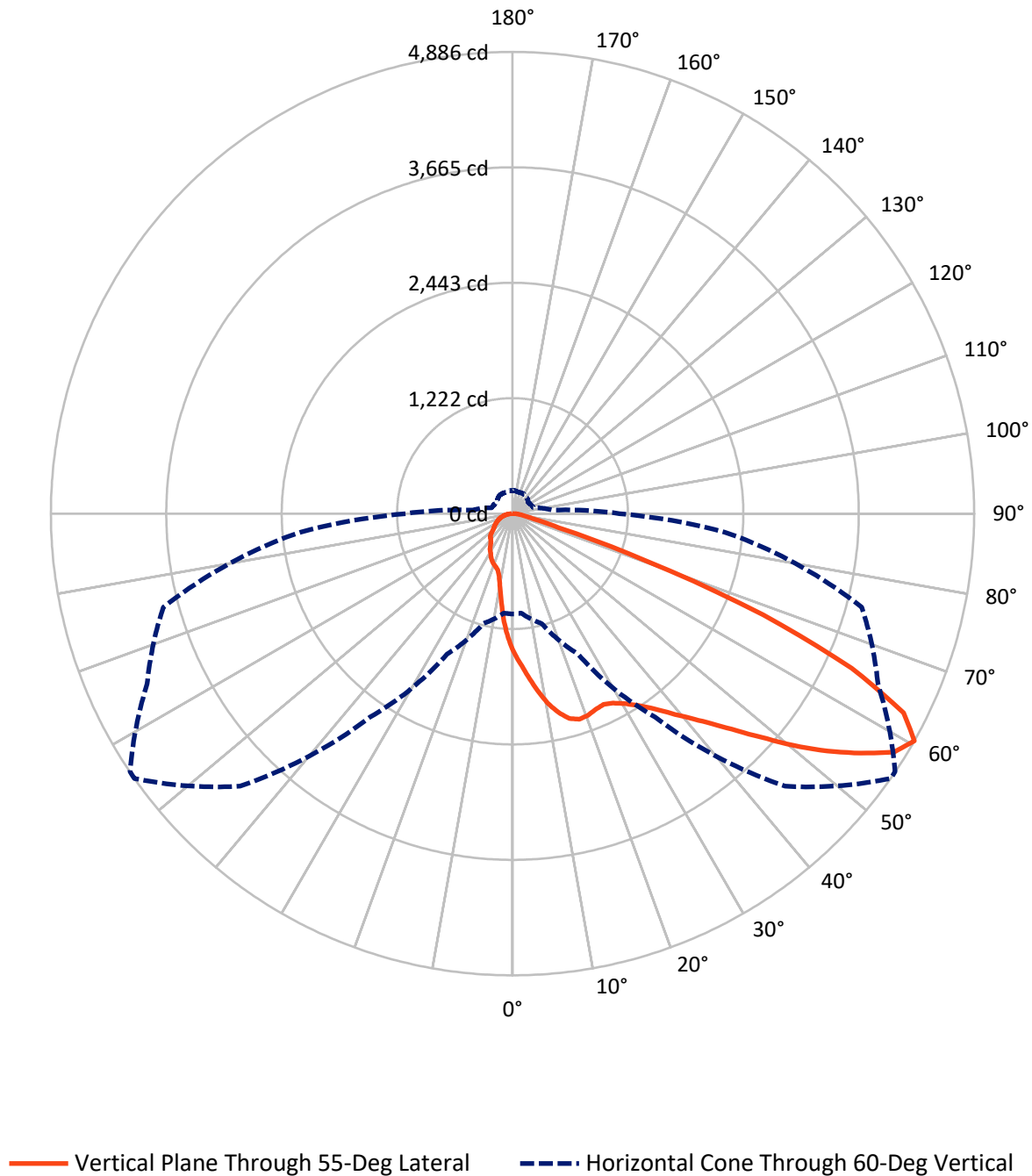
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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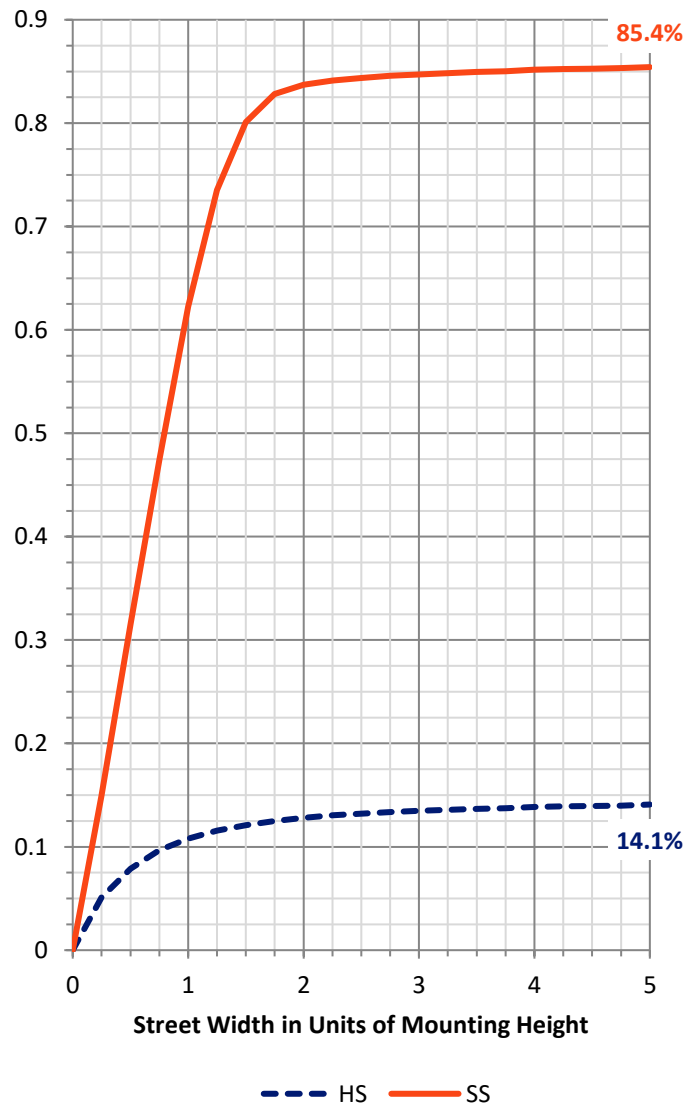
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.1	0.0	949.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	5653.2	0.0	5653.2
	% Fixture	85.6	0.0	85.6
Total	Lumens	6602.3	0.0	6602.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.1
10°-20°	388.2	5.9
20°-30°	632.1	9.6
30°-40°	944.8	14.3
40°-50°	1388.6	21.0
50°-60°	1627.5	24.6
60°-70°	1073.1	16.3
70°-80°	341.7	5.2
80°-90°	69.5	1.1
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°	6602.3	100.0
0°-180°	6602.3	100.0

Coefficient of Utilization



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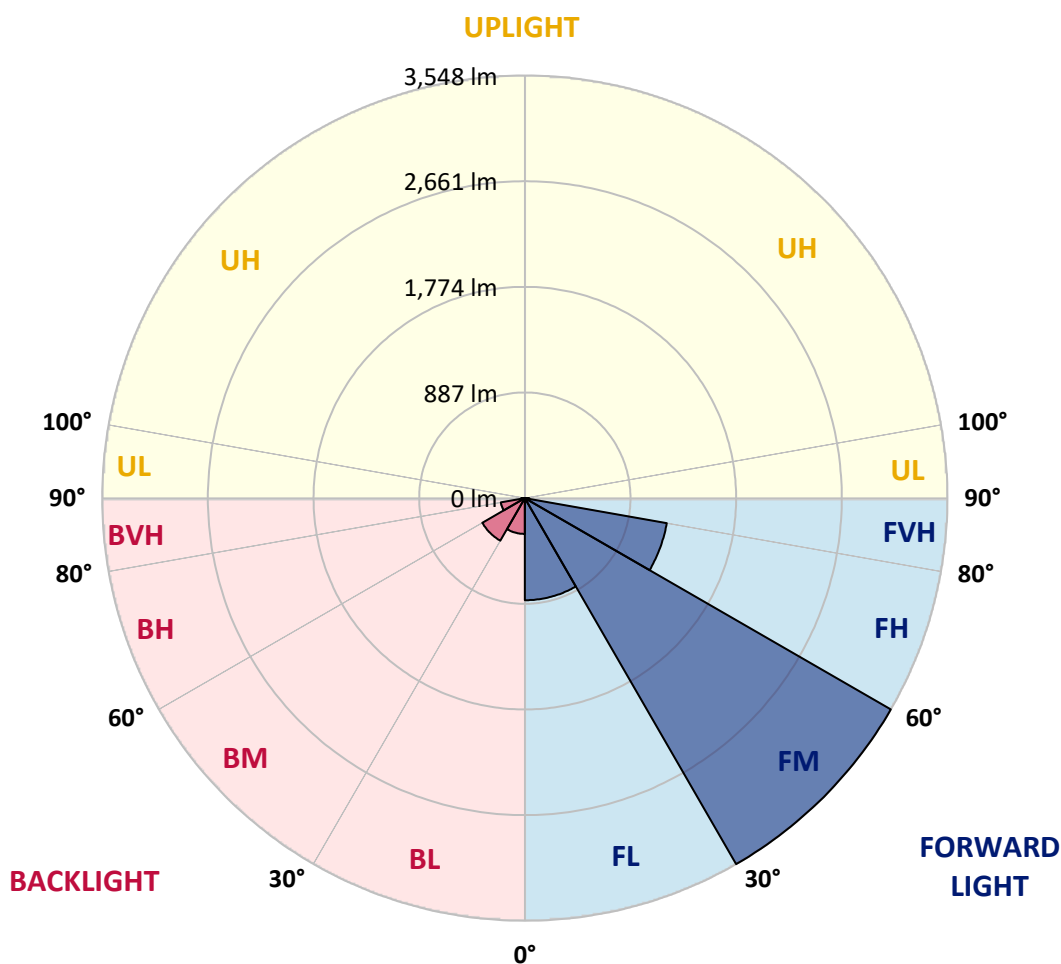
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.9	13.0			
FM	(30°-60°)	3548.3	53.7			
FH	(60°-80°)	1210.0	18.3			G1/1800
FVH	(80°-90°)	38.1	0.6			G1/100
BL	(0°-30°)	300.4	4.6	B1/500		
BM	(30°-60°)	412.5	6.2	B1/1000		
BH	(60°-80°)	204.8	3.1	B1/500		G1/500
BVH	(80°-90°)	31.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3
2.5°	1704.0	1697.8	1697.8	1682.0	1658.5	1626.0	1587.2	1577.7	1562.8	1525.0	1476.2
5°	1963.8	1957.1	1948.0	1920.3	1876.7	1811.7	1729.8	1715.0	1661.9	1583.9	1495.8
7.5°	2135.6	2131.8	2128.9	2105.0	2061.9	1997.8	1888.2	1871.5	1781.5	1652.3	1514.5
10°	2117.9	2129.4	2149.5	2166.2	2174.8	2141.8	2038.9	2019.3	1907.8	1731.7	1542.2
12.5°	1951.9	1968.1	2005.5	2073.9	2152.8	2216.5	2158.1	2147.1	2042.8	1816.0	1577.2
15°	1828.4	1835.1	1853.3	1904.0	2021.7	2191.6	2250.4	2240.4	2168.6	1924.1	1617.4
17.5°	1790.1	1793.0	1797.3	1814.0	1894.4	2094.5	2288.3	2297.8	2290.6	2036.6	1662.8
20°	1809.3	1811.2	1811.7	1814.5	1852.8	2013.1	2278.2	2294.5	2397.8	2149.0	1707.8
22.5°	1883.0	1880.6	1877.2	1866.2	1887.7	1998.8	2251.4	2277.2	2480.6	2251.4	1749.4
25°	2011.7	2008.3	1984.9	1961.9	1971.0	2050.4	2237.1	2264.8	2545.2	2348.1	1780.1
27.5°	2164.8	2161.4	2137.5	2094.0	2084.4	2136.6	2270.5	2287.8	2592.6	2433.7	1793.5
30°	2323.7	2323.7	2294.0	2243.8	2213.1	2235.1	2332.3	2346.2	2628.5	2516.5	1802.1
32.5°	2496.9	2501.7	2455.7	2398.3	2364.3	2351.4	2418.9	2430.8	2680.6	2614.1	1820.3
35°	2719.4	2708.9	2652.9	2577.3	2522.7	2493.5	2526.1	2540.0	2757.2	2735.7	1849.5
37.5°	2969.7	2951.0	2882.1	2791.6	2696.4	2647.6	2669.1	2672.5	2870.6	2894.1	1902.6
40°	3176.4	3173.0	3114.6	3029.0	2908.9	2843.3	2832.8	2834.7	3028.0	3081.6	1983.0
42.5°	3350.6	3338.1	3327.6	3297.4	3170.2	3062.5	3019.4	3019.9	3198.9	3275.4	2063.8
45°	3427.6	3425.2	3456.3	3533.8	3442.4	3315.6	3254.4	3263.0	3394.6	3474.5	2141.8
47.5°	3394.6	3396.5	3479.8	3683.1	3737.2	3640.1	3531.4	3526.2	3584.1	3627.1	2210.7
50°	3099.8	3130.9	3356.3	3697.0	3930.5	3978.8	3856.3	3836.7	3750.1	3748.7	2252.8
52.5°	2877.3	2875.9	3014.2	3555.8	3998.9	4284.6	4174.6	4130.5	3887.4	3817.1	2256.2
55°	2576.8	2574.9	2677.8	3142.9	3863.0	4498.0	4474.6	4419.6	4013.3	3839.6	2233.2
57.5°	1951.4	1987.7	2090.1	2516.0	3432.4	4464.1	4761.2	4715.3	4136.3	3829.5	2228.9
60°	1061.8	1057.5	1205.9	1639.9	2628.0	4078.4	4886.1	4883.7	4266.9	3825.7	2255.2
62.5°	489.5	484.7	514.4	730.2	1506.8	3267.3	4644.9	4679.4	4388.0	3790.8	2252.8
65°	366.1	353.6	313.4	339.7	576.6	1950.4	3945.3	4037.2	4201.4	3647.2	2148.5
67.5°	326.3	314.4	267.5	250.7	289.5	688.1	2862.0	2946.7	3513.2	3378.3	1979.6
70°	299.1	288.5	241.6	215.3	217.2	304.8	1498.2	1664.7	2574.9	2819.4	1687.2
72.5°	272.8	263.7	221.1	189.5	182.8	201.5	510.6	615.8	1601.6	2054.7	1258.0
75°	245.0	236.4	199.1	169.9	157.0	149.3	243.1	261.7	847.0	1134.6	675.2
77.5°	212.9	208.2	177.5	149.8	138.8	112.9	161.7	169.9	362.7	445.5	321.6
80°	185.2	181.4	158.4	135.9	124.4	87.1	111.5	117.2	179.0	222.5	179.9
82.5°	120.6	130.2	131.1	116.8	109.6	69.9	73.7	78.0	118.7	131.1	78.5
85°	49.8	60.3	90.4	80.4	76.1	59.3	48.8	49.8	72.7	76.6	28.2
87.5°	22.5	24.9	44.5	45.0	39.2	22.5	24.4	26.8	37.3	36.8	12.4
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°	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3
2.5°	1462.8	1440.8	1401.6	1351.3	1315.4	1289.1	1260.4	1239.4	1215.9	1195.3	1198.7
5°	1459.5	1416.9	1328.8	1235.5	1144.6	1070.0	1007.7	961.8	914.4	895.8	893.4
7.5°	1462.3	1390.1	1245.6	1092.9	954.6	859.4	787.2	743.6	716.3	700.5	701.5
10°	1461.4	1364.7	1155.6	945.1	793.9	706.8	662.7	648.4	646.0	647.9	650.8
12.5°	1462.8	1330.3	1054.6	812.0	678.5	634.0	635.9	648.9	657.0	662.3	665.6
15°	1469.0	1302.0	951.3	707.2	618.2	619.7	640.3	660.3	672.3	678.1	680.9
17.5°	1478.1	1266.6	859.4	627.8	592.9	614.9	641.7	663.2	672.3	675.7	678.1
20°	1479.1	1226.0	766.6	573.3	576.1	604.8	628.3	645.5	657.0	660.8	662.7
22.5°	1474.8	1170.9	671.4	533.5	557.0	585.7	605.8	625.4	610.1	597.7	594.3
25°	1456.6	1101.5	590.0	501.0	533.1	559.9	582.8	561.3	554.1	544.5	545.5
27.5°	1417.4	1014.9	513.4	470.4	504.8	543.1	526.4	523.5	514.4	504.8	504.8
30°	1365.7	923.5	449.3	438.3	470.9	490.0	493.8	489.5	484.3	471.8	472.8
32.5°	1319.3	826.9	403.9	411.5	449.3	449.3	466.1	466.1	446.9	412.0	412.0
35°	1273.3	736.0	370.4	389.0	413.9	422.0	445.0	414.9	387.6	371.8	370.8
37.5°	1237.4	658.4	348.4	369.9	379.5	400.0	400.5	378.5	369.4	355.1	353.6
40°	1216.4	593.4	335.0	360.3	361.3	380.4	348.8	355.1	353.1	342.1	340.7
42.5°	1204.9	543.1	324.9	352.2	347.4	328.7	323.0	333.5	336.9	331.1	328.7
45°	1195.8	503.9	316.8	324.0	336.4	302.4	300.0	308.2	315.3	314.9	312.9
47.5°	1191.0	476.6	309.6	306.2	308.6	286.6	281.8	285.7	294.8	300.5	300.0
50°	1172.4	455.5	299.1	288.1	272.8	272.8	270.4	270.4	281.4	292.9	293.8
52.5°	1139.3	430.7	283.8	270.8	253.1	260.8	261.7	259.8	271.3	283.8	284.7
55°	1103.0	412.0	263.2	255.0	236.9	249.8	254.1	252.2	259.8	268.4	268.0
57.5°	1103.5	411.5	245.5	239.3	221.6	235.9	246.4	246.9	246.4	252.7	252.7
60°	1131.2	421.1	231.6	218.2	203.8	221.1	238.3	238.3	235.0	244.0	245.0
62.5°	1139.3	420.1	223.0	198.1	188.1	207.7	226.3	229.2	226.8	239.7	241.2
65°	1067.6	397.6	214.4	179.9	173.7	192.8	211.5	219.6	217.2	234.0	235.9
67.5°	968.0	368.5	201.0	163.7	158.9	178.5	196.2	204.8	204.3	226.3	227.3
70°	834.5	332.6	184.2	146.9	144.5	161.7	177.5	186.6	190.9	216.3	215.8
72.5°	646.5	285.2	158.9	129.2	128.7	144.5	158.4	168.4	176.6	201.0	201.0
75°	416.8	224.4	129.7	112.0	110.1	124.9	139.2	150.7	175.6	214.4	213.9
77.5°	254.6	171.3	104.3	93.3	92.8	106.2	120.6	140.2	191.9	190.9	185.7
80°	152.6	123.0	83.3	74.6	74.6	87.1	102.9	150.3	159.3	181.8	171.8
82.5°	79.4	75.6	62.2	55.0	57.4	68.4	93.8	120.1	130.2	110.5	101.4
85°	32.5	40.2	38.3	34.9	36.4	47.4	90.4	96.2	77.0	80.9	81.3
87.5°	11.0	17.7	17.7	13.9	15.3	33.5	53.6	32.1	38.8	23.0	17.2
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)