

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: P675757

Luminaire Tested: **CCW-SA-1E-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675757
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

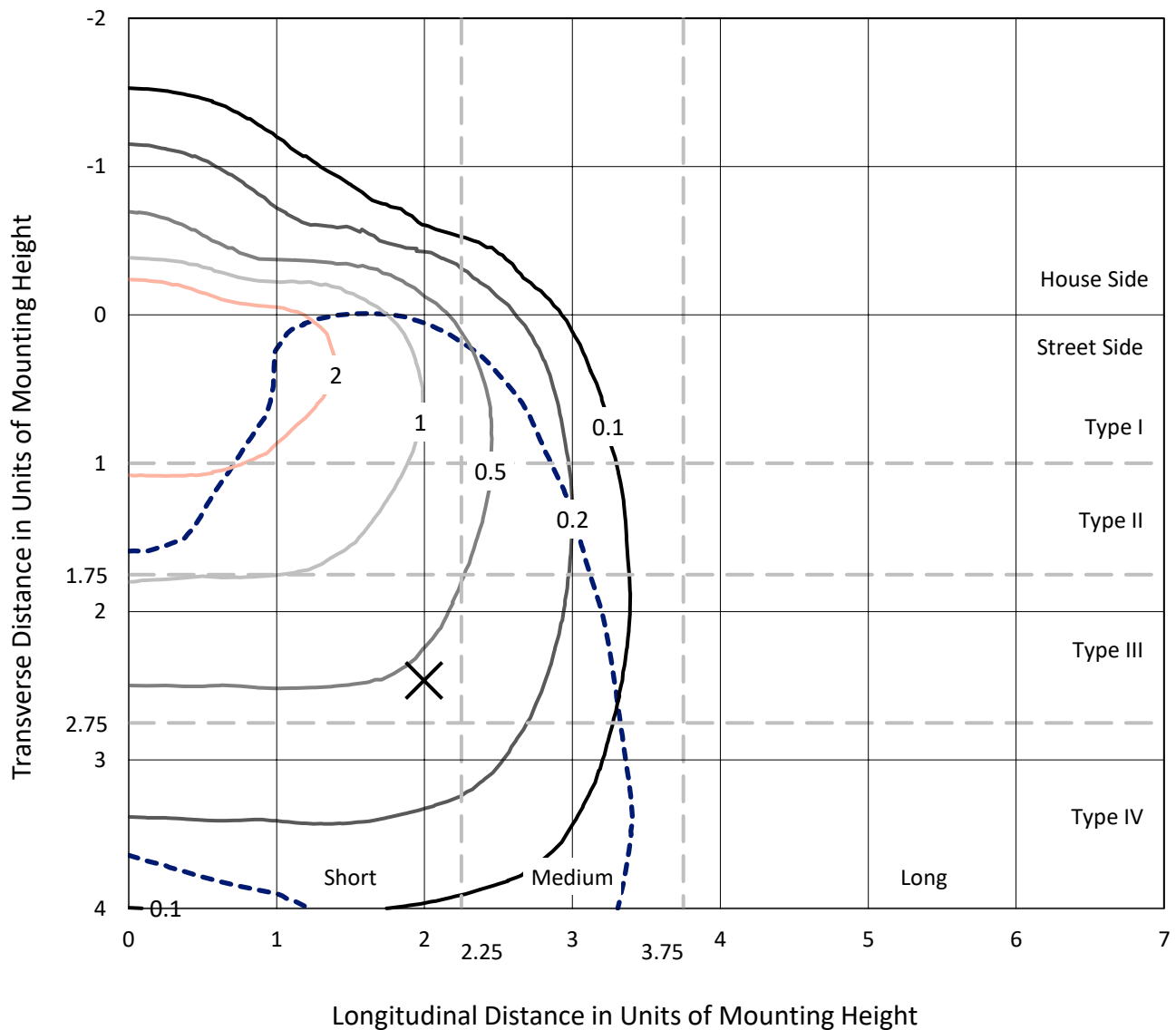
Lumens per Lamp: N/A
Luminaire Lumens: 5520.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

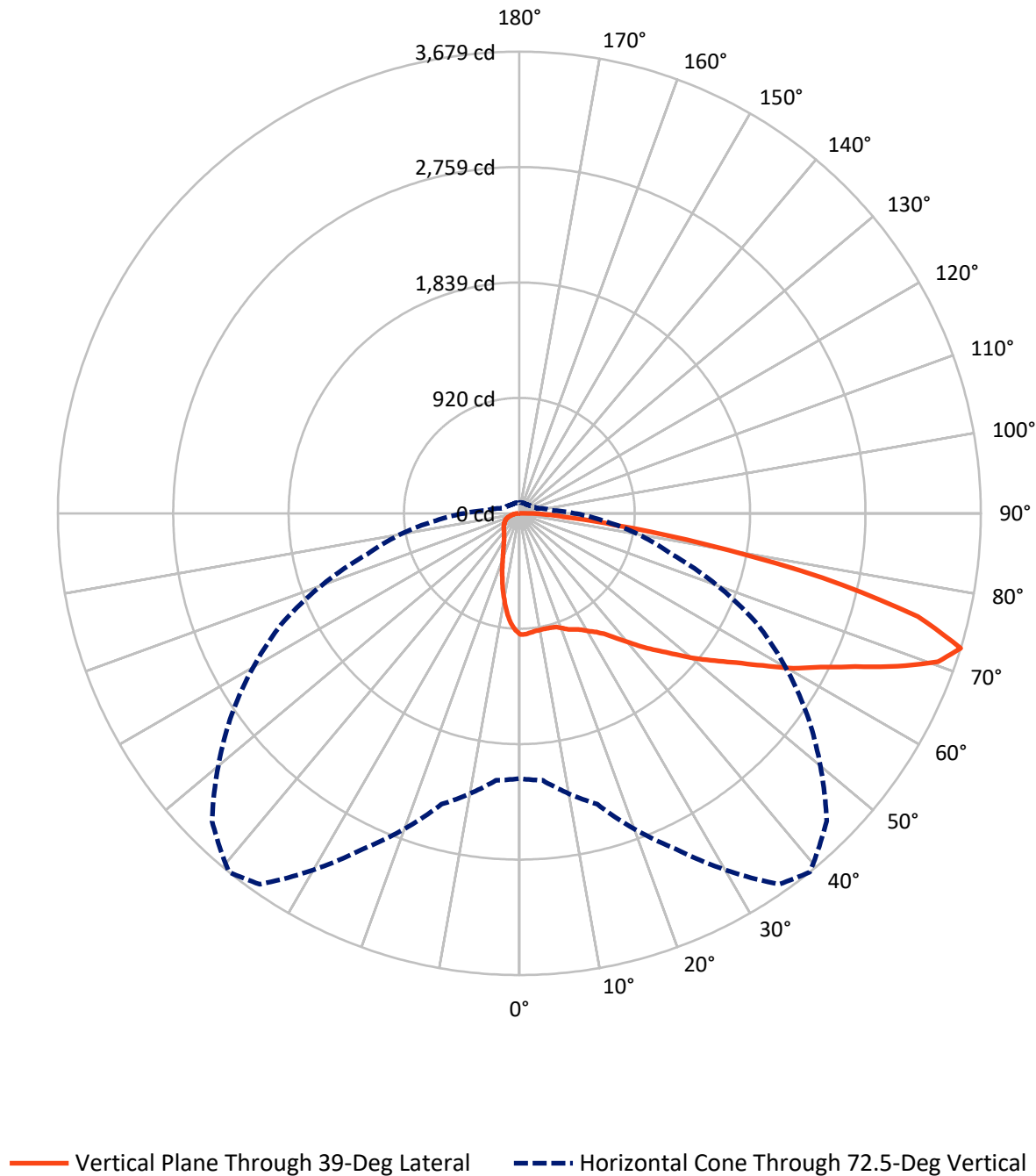
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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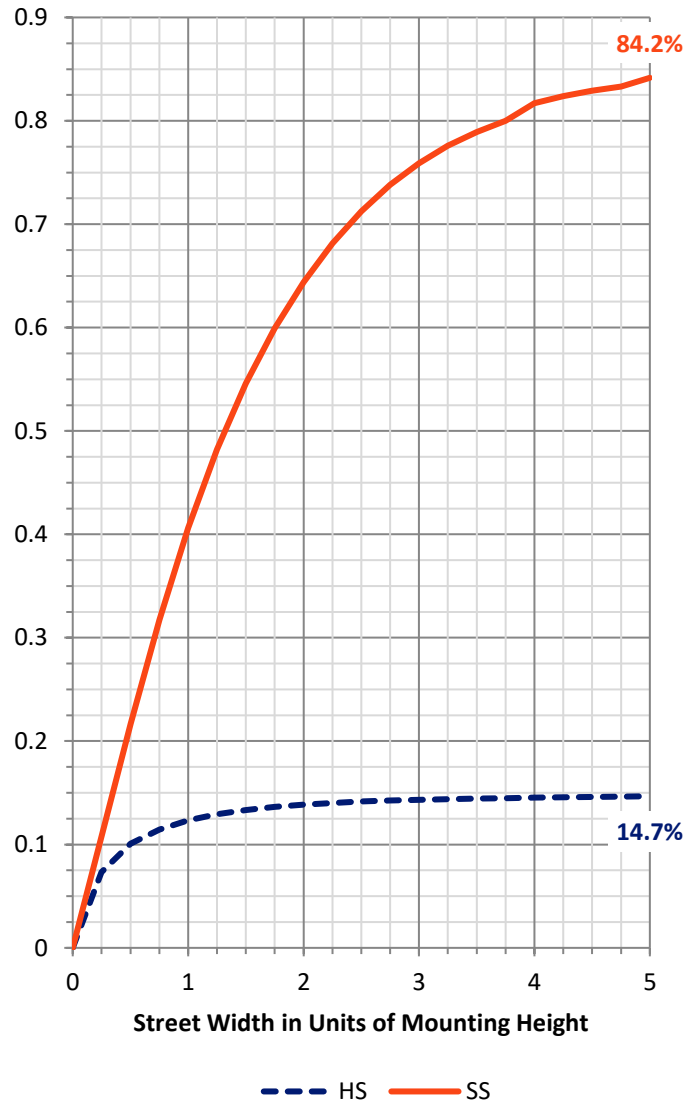
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	820.5	0.0	820.5
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4700.1	0.0	4700.1
	% Fixture	85.1	0.0	85.1
Total	Lumens	5520.6	0.0	5520.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.5
10°-20°	217.9	3.9
20°-30°	332.0	6.0
30°-40°	485.7	8.8
40°-50°	743.6	13.5
50°-60°	1090.6	19.8
60°-70°	1390.9	25.2
70°-80°	1005.0	18.2
80°-90°	169.5	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°	5520.6	100.0
0°-180°	5520.6	100.0

Coefficient of Utilization



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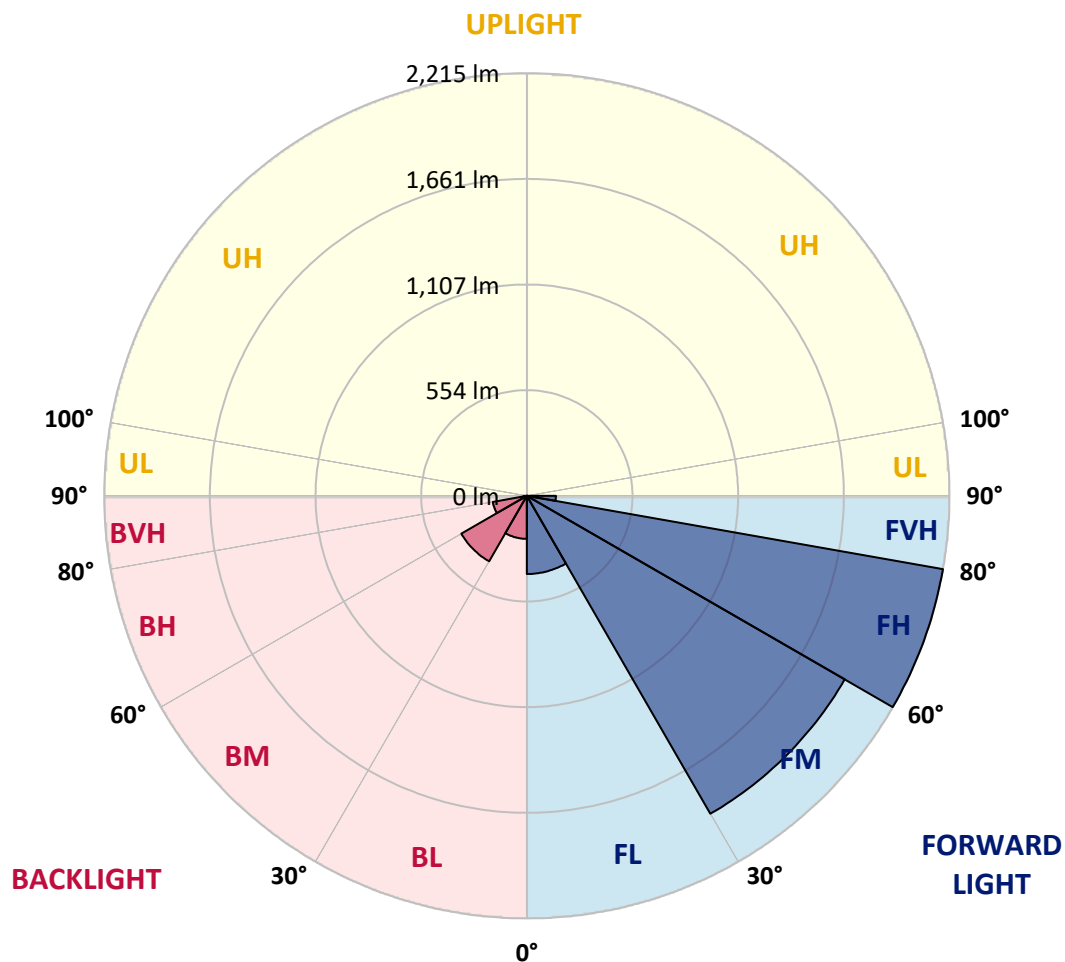
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.7	7.4			
FM	(30°-60°)	1923.5	34.8			
FH	(60°-80°)	2214.6	40.1			G2/5000
FVH	(80°-90°)	152.3	2.8			G2/225
BL	(0°-30°)	225.6	4.1	B1/500		
BM	(30°-60°)	396.4	7.2	B1/1000		
BH	(60°-80°)	181.3	3.3	B1/500		G1/500
BVH	(80°-90°)	17.2	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°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	980.9	982.9	978.8	974.6	972.6	964.3	972.6	968.4	964.3	964.3	964.3
5°	968.4	970.5	970.5	966.3	968.4	953.9	951.8	953.9	947.7	943.5	941.5
7.5°	949.8	953.9	962.2	960.1	951.8	945.6	947.7	945.6	935.2	929.0	912.4
10°	935.2	939.4	943.5	947.7	945.6	943.5	941.5	933.2	931.1	916.6	900.0
12.5°	920.7	920.7	922.8	939.4	941.5	941.5	929.0	929.0	922.8	920.7	895.8
15°	906.2	912.4	929.0	933.2	941.5	945.6	939.4	939.4	929.0	914.5	895.8
17.5°	910.4	920.7	937.3	947.7	951.8	951.8	960.1	953.9	939.4	931.1	912.4
20°	931.1	933.2	953.9	972.6	976.7	976.7	968.4	962.2	951.8	937.3	912.4
22.5°	943.5	958.1	982.9	993.3	1005.7	1005.7	995.4	980.9	966.3	951.8	924.9
25°	997.5	999.5	1009.9	1026.5	1032.7	1024.4	1014.0	997.5	978.8	964.3	939.4
27.5°	1034.8	1045.1	1057.6	1065.9	1055.5	1049.3	1041.0	1022.3	1007.8	995.4	960.1
30°	1103.2	1090.8	1099.1	1103.2	1084.5	1088.7	1065.9	1049.3	1032.7	1032.7	993.3
32.5°	1144.7	1155.1	1146.8	1144.7	1130.2	1128.1	1113.6	1094.9	1084.5	1097.0	1043.1
35°	1217.3	1211.0	1211.0	1209.0	1192.4	1182.0	1182.0	1148.8	1159.2	1186.2	1119.8
37.5°	1254.6	1252.5	1265.0	1275.3	1258.7	1265.0	1258.7	1244.2	1248.4	1296.1	1215.2
40°	1291.9	1306.4	1331.3	1335.5	1345.8	1354.1	1350.0	1347.9	1364.5	1441.2	1343.8
42.5°	1327.2	1339.6	1376.9	1410.1	1435.0	1462.0	1464.0	1464.0	1518.0	1627.9	1499.3
45°	1372.8	1383.2	1435.0	1501.4	1542.8	1561.5	1578.1	1596.8	1669.3	1800.0	1665.2
47.5°	1435.0	1443.3	1505.5	1588.5	1669.3	1679.7	1712.9	1733.6	1843.5	1976.2	1835.2
50°	1524.2	1518.0	1567.7	1688.0	1766.8	1816.6	1864.3	1901.6	2009.4	2154.6	1967.9
52.5°	1596.8	1596.8	1634.1	1793.8	1901.6	1949.3	1999.1	2050.9	2175.3	2332.9	2075.8
55°	1721.2	1708.7	1731.5	1897.4	2053.0	2098.6	2194.0	2237.5	2357.8	2465.6	2167.0
57.5°	1806.2	1812.4	1839.4	2034.3	2231.3	2287.3	2382.7	2413.8	2519.6	2604.6	2233.4
60°	1918.2	1897.4	1955.5	2185.7	2428.3	2507.1	2585.9	2604.6	2683.4	2693.7	2264.5
62.5°	2026.0	2021.9	2071.6	2337.1	2639.8	2695.8	2776.7	2797.4	2830.6	2764.3	2220.9
65°	2092.4	2119.3	2212.6	2503.0	2880.4	2942.6	3023.5	2982.0	2944.7	2702.0	2007.3
67.5°	2183.6	2196.1	2339.1	2683.4	3158.3	3251.6	3322.1	3158.3	2880.4	2447.0	1690.1
70°	2204.4	2237.5	2424.2	2872.1	3444.4	3539.8	3544.0	3098.1	2646.1	1990.8	1225.6
72.5°	2113.1	2135.9	2399.3	2950.9	3608.3	3678.8	3465.2	2801.6	2096.5	1254.6	667.7
75°	1777.2	1841.5	2088.2	2708.3	3307.6	3280.6	2936.4	2138.0	1258.7	555.8	282.0
77.5°	1238.0	1240.1	1497.2	1970.0	2476.0	2469.8	2094.4	1240.1	539.2	224.0	165.9
80°	549.5	588.9	744.5	1061.7	1503.4	1503.4	1221.4	615.9	269.6	145.2	114.1
82.5°	323.5	335.9	398.2	495.6	732.0	771.4	584.8	410.6	184.6	91.2	70.5
85°	238.5	259.2	296.5	298.6	346.3	352.5	323.5	356.7	126.5	49.8	58.1
87.5°	178.3	190.8	236.4	197.0	184.6	174.2	199.1	365.0	47.7	24.9	18.7
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°	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
2.5°	956.0	956.0	951.8	943.5	943.5	926.9	931.1	935.2	924.9	924.9	926.9
5°	941.5	933.2	922.8	910.4	902.1	879.3	875.1	860.6	858.5	854.4	848.1
7.5°	912.4	900.0	881.3	862.7	835.7	815.0	790.1	769.3	761.1	754.8	752.8
10°	885.5	883.4	852.3	815.0	773.5	734.1	696.8	669.8	653.2	642.8	640.8
12.5°	885.5	868.9	825.3	773.5	713.4	655.3	607.6	570.3	547.5	530.9	524.6
15°	881.3	864.7	806.7	727.9	659.4	580.6	514.3	474.9	441.7	425.1	427.2
17.5°	885.5	860.6	779.7	694.7	599.3	514.3	435.5	387.8	354.6	342.2	340.1
20°	887.5	856.4	759.0	649.1	537.1	441.7	367.0	321.4	296.5	288.2	288.2
22.5°	883.4	844.0	727.9	595.2	483.2	381.6	319.4	280.0	263.4	253.0	257.1
25°	902.1	841.9	698.8	549.5	421.0	331.8	284.1	255.1	244.7	238.5	240.6
27.5°	906.2	841.9	676.0	497.7	367.0	294.5	257.1	238.5	230.2	226.0	224.0
30°	922.8	846.1	649.1	445.8	323.5	265.4	236.4	226.0	219.8	217.7	217.7
32.5°	968.4	858.5	620.0	402.3	286.2	240.6	221.9	213.6	209.4	207.4	209.4
35°	1022.3	891.7	588.9	356.7	259.2	224.0	209.4	203.2	201.1	201.1	201.1
37.5°	1105.3	941.5	562.0	319.4	236.4	207.4	197.0	194.9	192.9	194.9	194.9
40°	1200.7	995.4	537.1	290.3	219.8	197.0	186.6	186.6	184.6	186.6	188.7
42.5°	1310.6	1061.7	512.2	261.3	205.3	188.7	180.4	178.3	176.3	180.4	182.5
45°	1462.0	1153.0	495.6	244.7	194.9	180.4	172.1	172.1	170.0	170.0	174.2
47.5°	1588.5	1240.1	495.6	228.1	188.7	174.2	165.9	165.9	161.7	163.8	163.8
50°	1694.2	1314.7	506.0	224.0	180.4	168.0	161.7	157.6	155.5	155.5	155.5
52.5°	1764.7	1360.4	514.3	219.8	176.3	159.7	155.5	153.5	149.3	147.2	149.3
55°	1835.2	1391.5	516.4	219.8	170.0	151.4	147.2	147.2	143.1	141.0	141.0
57.5°	1862.2	1379.0	487.3	215.7	165.9	145.2	141.0	138.9	136.9	134.8	134.8
60°	1849.7	1333.4	423.0	205.3	161.7	141.0	132.7	132.7	132.7	128.6	130.6
62.5°	1764.7	1177.9	340.1	188.7	155.5	132.7	124.4	128.6	128.6	126.5	126.5
65°	1540.8	972.6	275.8	174.2	147.2	126.5	118.2	124.4	126.5	124.4	122.3
67.5°	1231.8	748.6	228.1	157.6	136.9	116.1	109.9	116.1	118.2	116.1	116.1
70°	846.1	483.2	184.6	141.0	122.3	105.8	99.5	103.7	103.7	105.8	105.8
72.5°	437.6	261.3	151.4	120.3	105.8	95.4	89.2	89.2	87.1	87.1	87.1
75°	217.7	178.3	126.5	101.6	89.2	80.9	76.7	72.6	72.6	72.6	72.6
77.5°	151.4	136.9	103.7	80.9	72.6	66.4	66.4	60.1	60.1	60.1	60.1
80°	114.1	107.8	78.8	62.2	56.0	51.8	51.8	49.8	49.8	47.7	47.7
82.5°	80.9	87.1	60.1	45.6	41.5	39.4	39.4	37.3	37.3	33.2	33.2
85°	64.3	72.6	45.6	33.2	31.1	27.0	27.0	24.9	24.9	22.8	20.7
87.5°	18.7	39.4	18.7	12.4	12.4	12.4	12.4	10.4	10.4	8.3	8.3
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)