

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: P675715

Luminaire Tested: **CCW-SA-2A-750-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675715
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-750-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

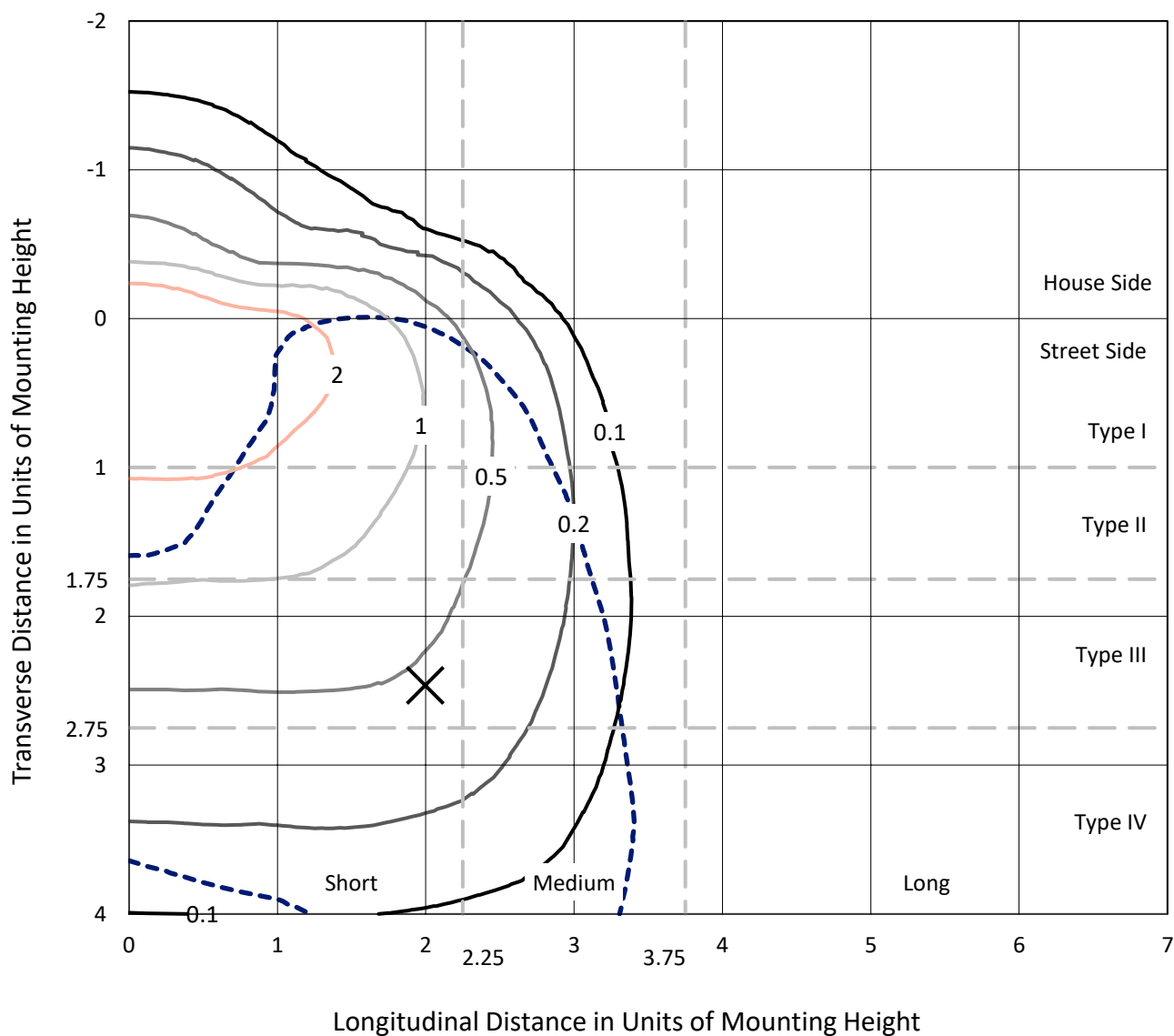
Lumens per Lamp: N/A
Luminaire Lumens: 5484.5 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

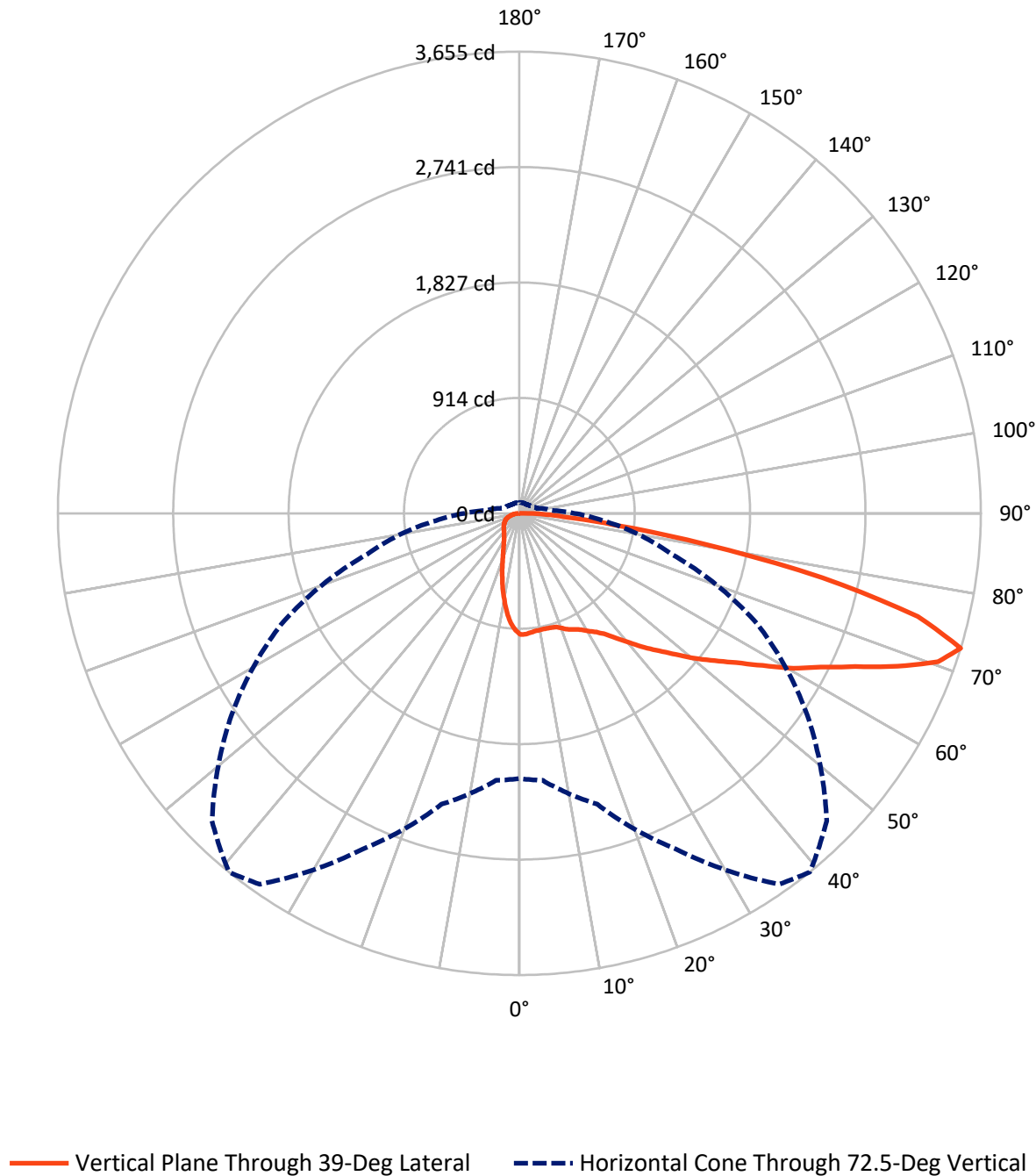
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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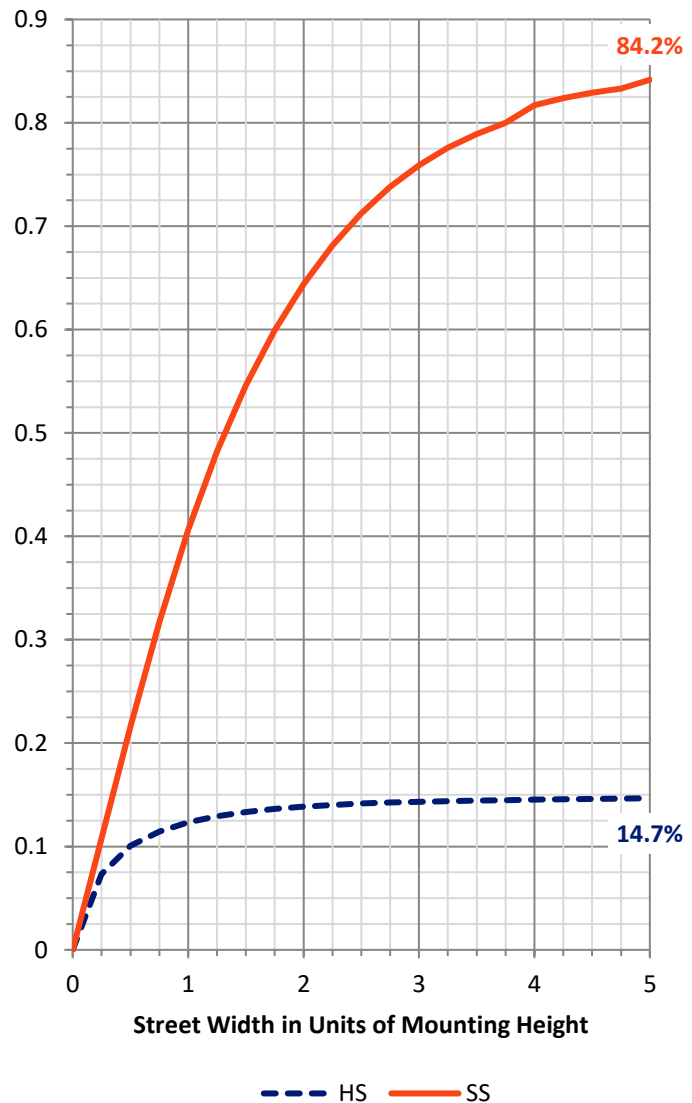
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	815.1	0.0	815.1
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4669.4	0.0	4669.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	5484.5	0.0	5484.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.5
10°-20°	216.5	3.9
20°-30°	329.9	6.0
30°-40°	482.5	8.8
40°-50°	738.7	13.5
50°-60°	1083.5	19.8
60°-70°	1381.8	25.2
70°-80°	998.4	18.2
80°-90°	168.4	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°	5484.5	100.0
0°-180°	5484.5	100.0

Coefficient of Utilization



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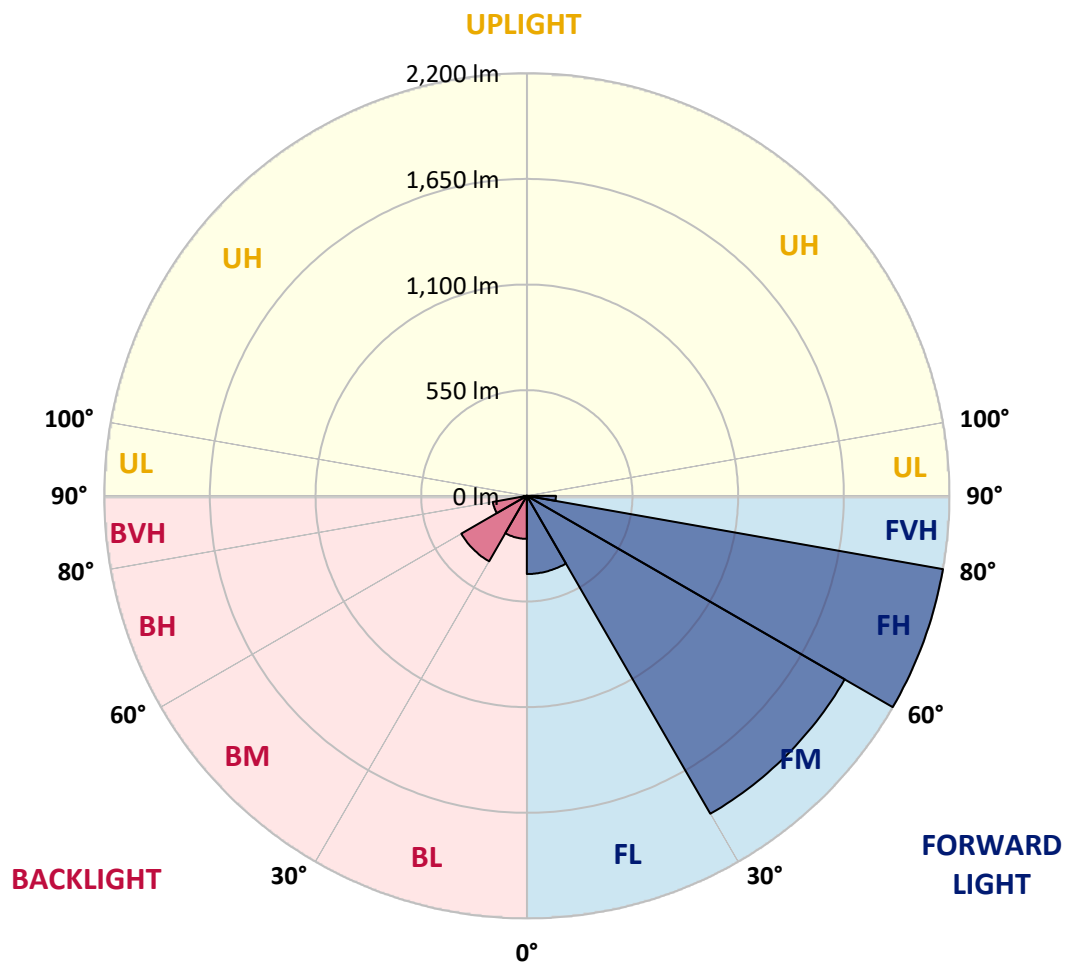
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.0	7.4			
FM	(30°-60°)	1910.9	34.8			
FH	(60°-80°)	2200.1	40.1			G2/5000
FVH	(80°-90°)	151.3	2.8			G2/225
BL	(0°-30°)	224.2	4.1	B1/500		
BM	(30°-60°)	393.8	7.2	B1/1000		
BH	(60°-80°)	180.1	3.3	B1/500		G1/500
BVH	(80°-90°)	17.1	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°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	974.5	976.5	972.4	968.3	966.2	958.0	966.2	962.1	958.0	958.0	958.0
5°	962.1	964.2	964.2	960.0	962.1	947.7	945.6	947.7	941.5	937.4	935.3
7.5°	943.6	947.7	955.9	953.9	945.6	939.4	941.5	939.4	929.1	923.0	906.5
10°	929.1	933.3	937.4	941.5	939.4	937.4	935.3	927.1	925.0	910.6	894.1
12.5°	914.7	914.7	916.8	933.3	935.3	935.3	923.0	923.0	916.8	914.7	890.0
15°	900.3	906.5	923.0	927.1	935.3	939.4	933.3	933.3	923.0	908.5	890.0
17.5°	904.4	914.7	931.2	941.5	945.6	945.6	953.9	947.7	933.3	925.0	906.5
20°	925.0	927.1	947.7	966.2	970.3	970.3	962.1	955.9	945.6	931.2	906.5
22.5°	937.4	951.8	976.5	986.8	999.2	999.2	988.9	974.5	960.0	945.6	918.8
25°	990.9	993.0	1003.3	1019.8	1026.0	1017.7	1007.4	990.9	972.4	958.0	933.3
27.5°	1028.0	1038.3	1050.7	1058.9	1048.6	1042.4	1034.2	1015.7	1001.2	988.9	953.9
30°	1096.0	1083.6	1091.9	1096.0	1077.5	1081.6	1058.9	1042.4	1026.0	1026.0	986.8
32.5°	1137.2	1147.5	1139.3	1137.2	1122.8	1120.7	1106.3	1087.8	1077.5	1089.8	1036.3
35°	1209.3	1203.1	1203.1	1201.1	1184.6	1174.3	1174.3	1141.3	1151.6	1178.4	1112.5
37.5°	1246.4	1244.3	1256.7	1267.0	1250.5	1256.7	1250.5	1236.1	1240.2	1287.6	1207.3
40°	1283.5	1297.9	1322.6	1326.7	1337.0	1345.3	1341.2	1339.1	1355.6	1431.8	1335.0
42.5°	1318.5	1330.9	1368.0	1400.9	1425.6	1452.4	1454.5	1454.5	1508.0	1617.2	1489.5
45°	1363.8	1374.1	1425.6	1491.6	1532.8	1551.3	1567.8	1586.3	1658.4	1788.2	1654.3
47.5°	1425.6	1433.9	1495.7	1578.1	1658.4	1668.7	1701.7	1722.3	1831.5	1963.3	1823.2
50°	1514.2	1508.0	1557.5	1677.0	1755.3	1804.7	1852.1	1889.2	1996.3	2140.5	1955.1
52.5°	1586.3	1586.3	1623.4	1782.0	1889.2	1936.6	1986.0	2037.5	2161.1	2317.7	2062.2
55°	1709.9	1697.6	1720.2	1885.1	2039.6	2084.9	2179.7	2222.9	2342.4	2449.5	2152.9
57.5°	1794.4	1800.6	1827.4	2021.0	2216.7	2272.4	2367.1	2398.0	2503.1	2587.6	2218.8
60°	1905.7	1885.1	1942.7	2171.4	2412.5	2490.7	2569.0	2587.6	2665.9	2676.2	2249.7
62.5°	2012.8	2008.7	2058.1	2321.8	2622.6	2678.2	2758.6	2779.2	2812.1	2746.2	2206.4
65°	2078.7	2105.5	2198.2	2486.6	2861.6	2923.4	3003.7	2962.5	2925.4	2684.4	1994.2
67.5°	2169.4	2181.7	2323.9	2665.9	3137.6	3230.3	3300.4	3137.6	2861.6	2431.0	1679.0
70°	2190.0	2222.9	2408.3	2853.3	3421.9	3516.7	3520.8	3077.9	2628.8	1977.8	1217.6
72.5°	2099.3	2122.0	2383.6	2931.6	3584.7	3654.7	3442.5	2783.3	2082.8	1246.4	663.4
75°	1765.6	1829.4	2074.6	2690.6	3286.0	3259.2	2917.2	2124.0	1250.5	552.1	280.2
77.5°	1229.9	1232.0	1487.4	1957.2	2459.8	2453.7	2080.8	1232.0	535.6	222.5	164.8
80°	545.9	585.1	739.6	1054.8	1493.6	1493.6	1213.4	611.9	267.8	144.2	113.3
82.5°	321.4	333.7	395.6	492.4	727.2	766.4	581.0	407.9	183.4	90.6	70.0
85°	236.9	257.5	294.6	296.7	344.0	350.2	321.4	354.3	125.7	49.4	57.7
87.5°	177.2	189.5	234.9	195.7	183.4	173.1	197.8	362.6	47.4	24.7	18.5
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°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	949.7	949.7	945.6	937.4	937.4	920.9	925.0	929.1	918.8	918.8	920.9
5°	935.3	927.1	916.8	904.4	896.2	873.5	869.4	855.0	852.9	848.8	842.6
7.5°	906.5	894.1	875.6	857.0	830.2	809.6	784.9	764.3	756.1	749.9	747.8
10°	879.7	877.6	846.7	809.6	768.4	729.3	692.2	665.4	649.0	638.7	636.6
12.5°	879.7	863.2	819.9	768.4	708.7	651.0	603.6	566.5	543.9	527.4	521.2
15°	875.6	859.1	801.4	723.1	655.1	576.8	510.9	471.8	438.8	422.3	424.4
17.5°	879.7	855.0	774.6	690.2	595.4	510.9	432.6	385.3	352.3	339.9	337.9
20°	881.8	850.8	754.0	644.8	533.6	438.8	364.6	319.3	294.6	286.4	286.4
22.5°	877.6	838.5	723.1	591.3	480.0	379.1	317.3	278.1	261.6	251.3	255.5
25°	896.2	836.4	694.3	545.9	418.2	329.6	282.2	253.4	243.1	236.9	239.0
27.5°	900.3	836.4	671.6	494.4	364.6	292.5	255.5	236.9	228.7	224.6	222.5
30°	916.8	840.5	644.8	442.9	321.4	263.7	234.9	224.6	218.4	216.3	216.3
32.5°	962.1	852.9	616.0	399.7	284.3	239.0	220.4	212.2	208.1	206.0	208.1
35°	1015.7	885.9	585.1	354.3	257.5	222.5	208.1	201.9	199.8	199.8	199.8
37.5°	1098.1	935.3	558.3	317.3	234.9	206.0	195.7	193.7	191.6	193.7	193.7
40°	1192.8	988.9	533.6	288.4	218.4	195.7	185.4	185.4	183.4	185.4	187.5
42.5°	1302.0	1054.8	508.9	259.6	204.0	187.5	179.2	177.2	175.1	179.2	181.3
45°	1452.4	1145.5	492.4	243.1	193.7	179.2	171.0	171.0	168.9	168.9	173.1
47.5°	1578.1	1232.0	492.4	226.6	187.5	173.1	164.8	164.8	160.7	162.8	162.8
50°	1683.2	1306.1	502.7	222.5	179.2	166.9	160.7	156.6	154.5	154.5	154.5
52.5°	1753.2	1351.5	510.9	218.4	175.1	158.6	154.5	152.5	148.3	146.3	148.3
55°	1823.2	1382.4	513.0	218.4	168.9	150.4	146.3	146.3	142.2	140.1	140.1
57.5°	1850.0	1370.0	484.1	214.3	164.8	144.2	140.1	138.0	136.0	133.9	133.9
60°	1837.7	1324.7	420.3	204.0	160.7	140.1	131.9	131.9	131.9	127.7	129.8
62.5°	1753.2	1170.2	337.9	187.5	154.5	131.9	123.6	127.7	127.7	125.7	125.7
65°	1530.7	966.2	274.0	173.1	146.3	125.7	117.4	123.6	125.7	123.6	121.5
67.5°	1223.7	743.7	226.6	156.6	136.0	115.4	109.2	115.4	117.4	115.4	115.4
70°	840.5	480.0	183.4	140.1	121.5	105.1	98.9	103.0	103.0	105.1	105.1
72.5°	434.7	259.6	150.4	119.5	105.1	94.8	88.6	88.6	86.5	86.5	86.5
75°	216.3	177.2	125.7	100.9	88.6	80.3	76.2	72.1	72.1	72.1	72.1
77.5°	150.4	136.0	103.0	80.3	72.1	65.9	65.9	59.7	59.7	59.7	59.7
80°	113.3	107.1	78.3	61.8	55.6	51.5	51.5	49.4	49.4	47.4	47.4
82.5°	80.3	86.5	59.7	45.3	41.2	39.1	39.1	37.1	37.1	33.0	33.0
85°	63.9	72.1	45.3	33.0	30.9	26.8	26.8	24.7	24.7	22.7	20.6
87.5°	18.5	39.1	18.5	12.4	12.4	12.4	12.4	10.3	10.3	8.2	8.2
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)