

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: P675771

Luminaire Tested: **CCW-SA-2B-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675771
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

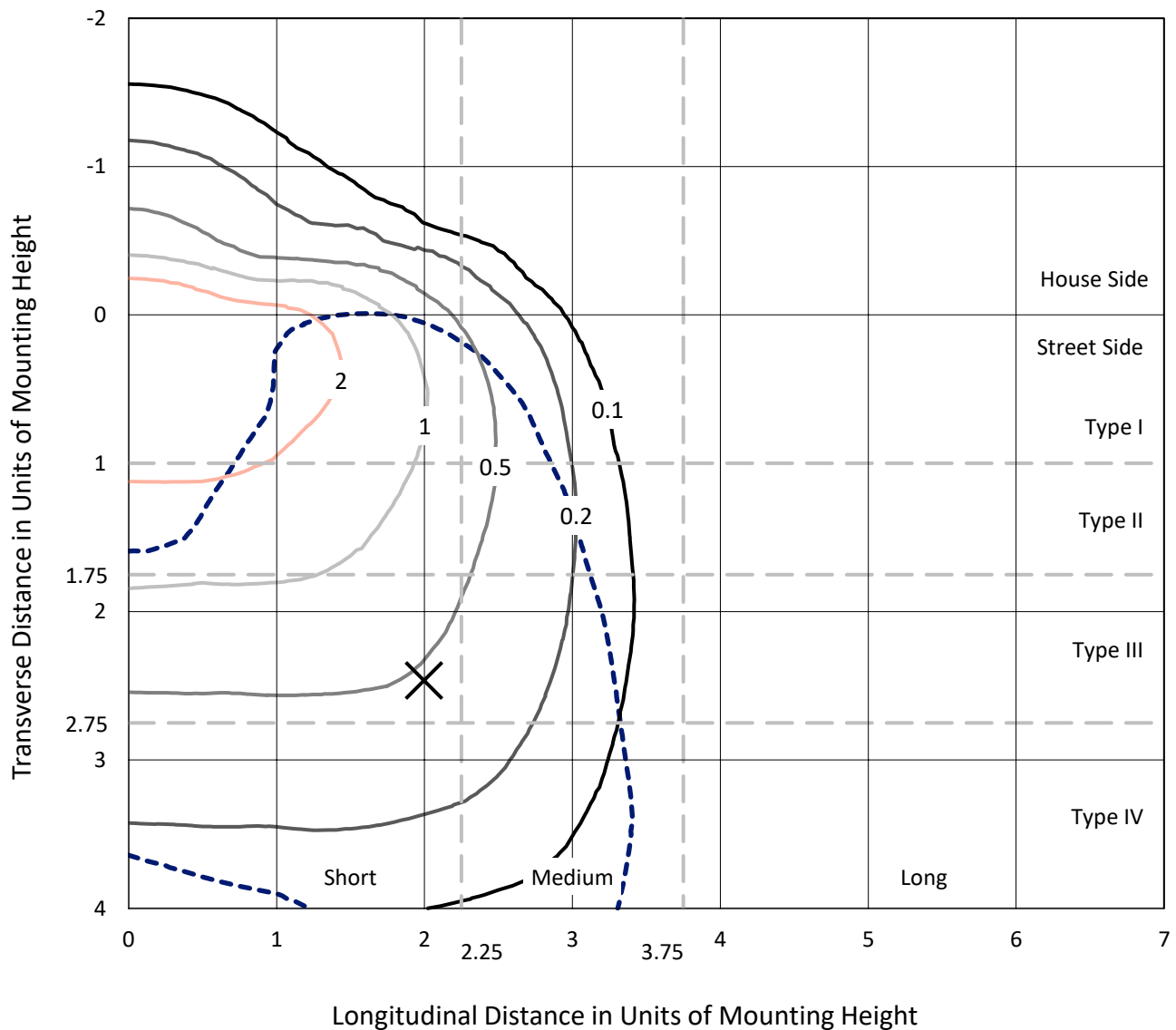
Lumens per Lamp: N/A
Luminaire Lumens: 5770 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

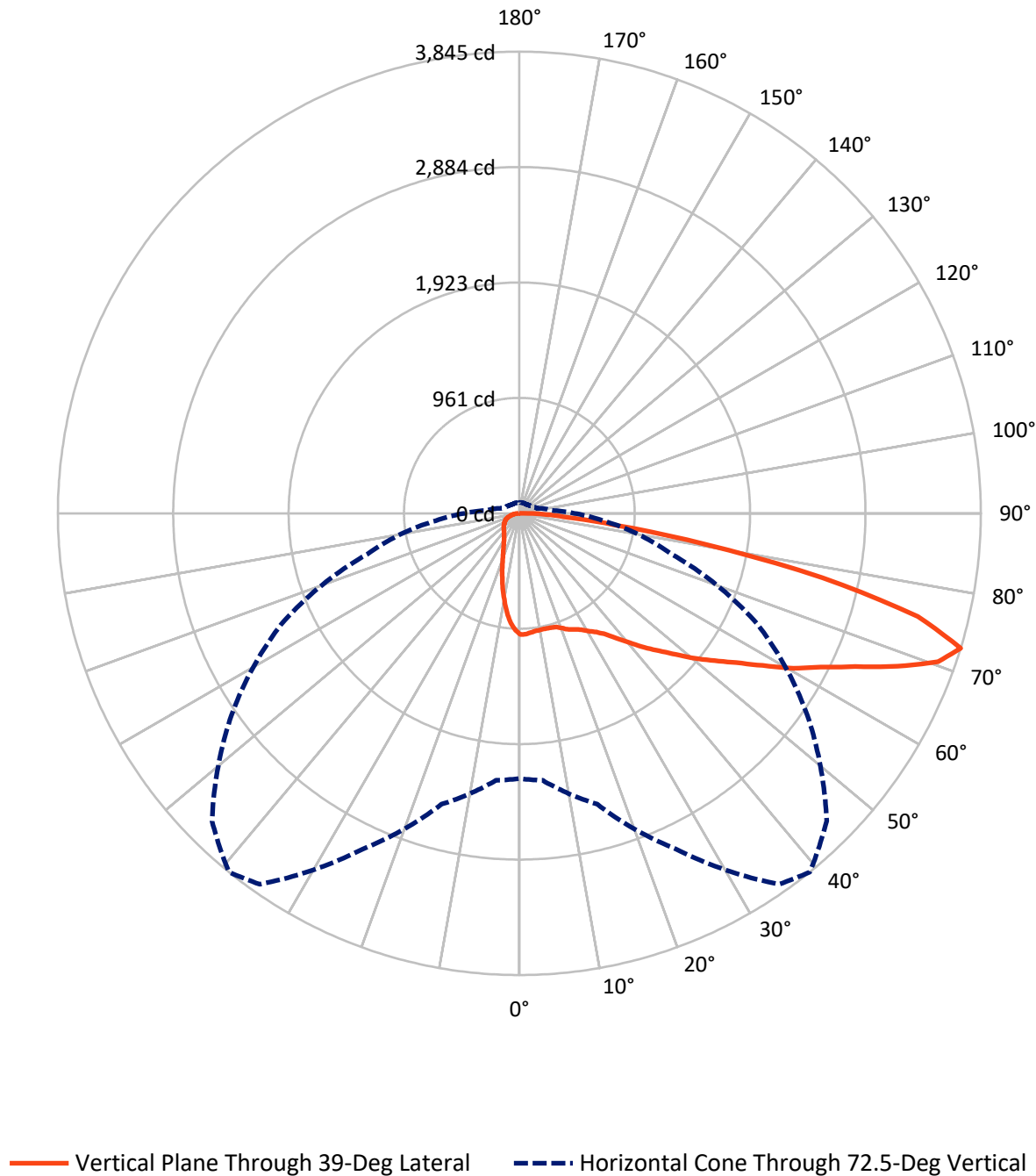
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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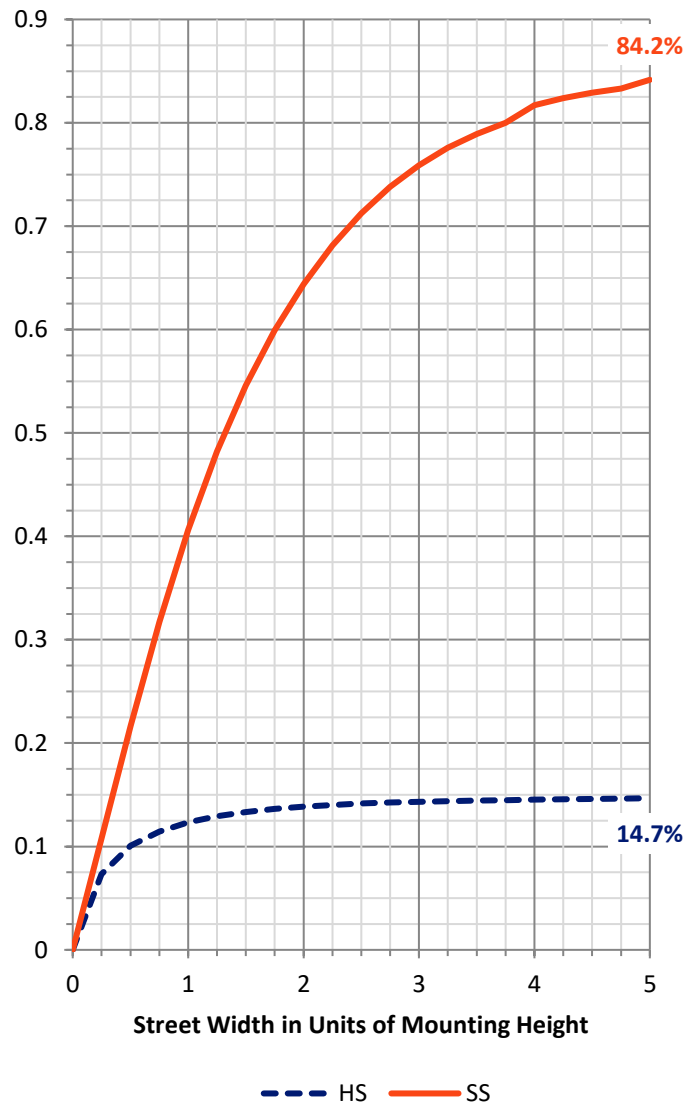
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.5	0.0	857.5
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4912.5	0.0	4912.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	5770.0	0.0	5770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.5
10°-20°	227.8	3.9
20°-30°	347.0	6.0
30°-40°	507.6	8.8
40°-50°	777.2	13.5
50°-60°	1139.9	19.8
60°-70°	1453.7	25.2
70°-80°	1050.3	18.2
80°-90°	177.2	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°	5770.0	100.0
0°-180°	5770.0	100.0

Coefficient of Utilization



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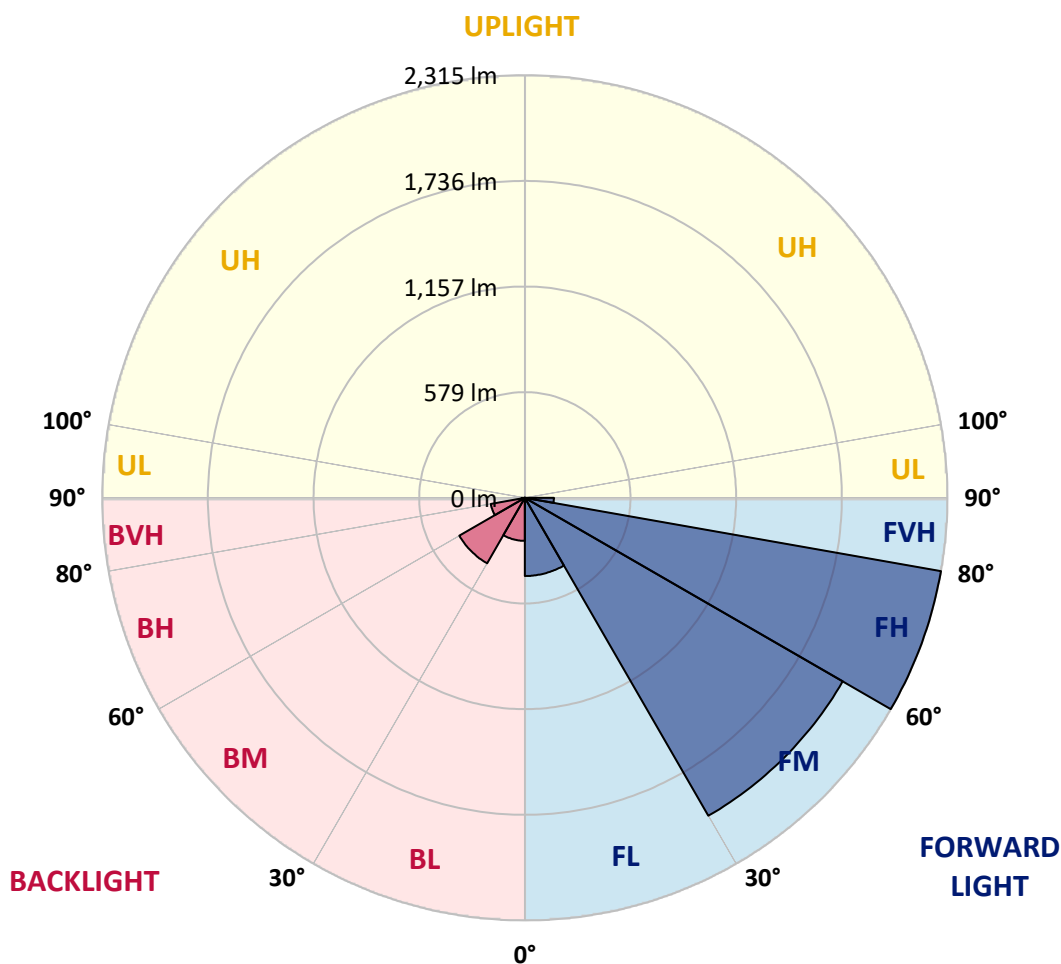
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.2	7.4			
FM	(30°-60°)	2010.4	34.8			
FH	(60°-80°)	2314.6	40.1			G2/5000
FVH	(80°-90°)	159.2	2.8			G2/225
BL	(0°-30°)	235.8	4.1	B1/500		
BM	(30°-60°)	414.3	7.2	B1/1000		
BH	(60°-80°)	189.5	3.3	B1/500		G1/500
BVH	(80°-90°)	18.0	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°	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
2.5°	1025.2	1027.3	1023.0	1018.7	1016.5	1007.8	1016.5	1012.2	1007.8	1007.8	1007.8
5°	1012.2	1014.3	1014.3	1010.0	1012.2	997.0	994.8	997.0	990.5	986.2	984.0
7.5°	992.7	997.0	1005.7	1003.5	994.8	988.3	990.5	988.3	977.5	971.0	953.7
10°	977.5	981.8	986.2	990.5	988.3	986.2	984.0	975.3	973.2	958.0	940.6
12.5°	962.3	962.3	964.5	981.8	984.0	984.0	971.0	971.0	964.5	962.3	936.3
15°	947.2	953.7	971.0	975.3	984.0	988.3	981.8	981.8	971.0	955.8	936.3
17.5°	951.5	962.3	979.7	990.5	994.8	994.8	1003.5	997.0	981.8	973.2	953.7
20°	973.2	975.3	997.0	1016.5	1020.8	1020.8	1012.2	1005.7	994.8	979.7	953.7
22.5°	986.2	1001.3	1027.3	1038.2	1051.2	1051.2	1040.3	1025.2	1010.0	994.8	966.7
25°	1042.5	1044.7	1055.5	1072.9	1079.4	1070.7	1059.9	1042.5	1023.0	1007.8	981.8
27.5°	1081.5	1092.4	1105.4	1114.0	1103.2	1096.7	1088.0	1068.5	1053.4	1040.3	1003.5
30°	1153.1	1140.0	1148.7	1153.1	1133.5	1137.9	1114.0	1096.7	1079.4	1079.4	1038.2
32.5°	1196.4	1207.2	1198.6	1196.4	1181.2	1179.1	1163.9	1144.4	1133.5	1146.6	1090.2
35°	1272.3	1265.8	1265.8	1263.6	1246.3	1235.4	1235.4	1200.7	1211.6	1239.7	1170.4
37.5°	1311.3	1309.1	1322.1	1332.9	1315.6	1322.1	1315.6	1300.4	1304.8	1354.6	1270.1
40°	1350.3	1365.5	1391.5	1395.8	1406.6	1415.3	1411.0	1408.8	1426.1	1506.3	1404.5
42.5°	1387.1	1400.1	1439.1	1473.8	1499.8	1528.0	1530.2	1530.2	1586.5	1701.4	1567.0
45°	1434.8	1445.7	1499.8	1569.2	1612.5	1632.0	1649.4	1668.9	1744.8	1881.3	1740.4
47.5°	1499.8	1508.5	1573.5	1660.2	1744.8	1755.6	1790.3	1811.9	1926.8	2065.5	1918.1
50°	1593.0	1586.5	1638.5	1764.3	1846.6	1898.6	1948.5	1987.5	2100.2	2251.9	2056.9
52.5°	1668.9	1668.9	1707.9	1874.8	1987.5	2037.3	2089.4	2143.6	2273.6	2438.3	2169.6
55°	1798.9	1785.9	1809.8	1983.2	2145.7	2193.4	2293.1	2338.6	2464.3	2577.0	2264.9
57.5°	1887.8	1894.3	1922.5	2126.2	2332.1	2390.6	2490.3	2522.8	2633.4	2722.2	2334.3
60°	2004.8	1983.2	2043.9	2284.4	2538.0	2620.4	2702.7	2722.2	2804.6	2815.4	2366.8
62.5°	2117.5	2113.2	2165.2	2442.7	2759.1	2817.6	2902.1	2923.8	2958.5	2889.1	2321.3
65°	2186.9	2215.1	2312.6	2616.0	3010.5	3075.5	3160.1	3116.7	3077.7	2824.1	2098.0
67.5°	2282.3	2295.3	2444.8	2804.6	3300.9	3398.5	3472.2	3300.9	3010.5	2557.5	1766.4
70°	2303.9	2338.6	2533.7	3001.8	3600.0	3699.7	3704.1	3238.1	2765.6	2080.7	1280.9
72.5°	2208.6	2232.4	2507.7	3084.2	3771.3	3845.0	3621.7	2928.1	2191.2	1311.3	697.9
75°	1857.5	1924.6	2182.6	2830.6	3457.0	3428.8	3069.0	2234.6	1315.6	580.9	294.8
77.5°	1293.9	1296.1	1564.9	2059.0	2587.9	2581.4	2189.1	1296.1	563.5	234.1	173.4
80°	574.4	615.5	778.1	1109.7	1571.4	1571.4	1276.6	643.7	281.8	151.7	119.2
82.5°	338.1	351.1	416.1	518.0	765.1	806.3	611.2	429.1	192.9	95.4	73.7
85°	249.3	270.9	309.9	312.1	362.0	368.5	338.1	372.8	132.2	52.0	60.7
87.5°	186.4	199.4	247.1	205.9	192.9	182.1	208.1	381.5	49.9	26.0	19.5
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°	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
2.5°	999.2	999.2	994.8	986.2	986.2	968.8	973.2	977.5	966.7	966.7	968.8
5°	984.0	975.3	964.5	951.5	942.8	919.0	914.6	899.5	897.3	893.0	886.5
7.5°	953.7	940.6	921.1	901.6	873.5	851.8	825.8	804.1	795.4	788.9	786.8
10°	925.5	923.3	890.8	851.8	808.4	767.3	728.2	700.1	682.7	671.9	669.7
12.5°	925.5	908.1	862.6	808.4	745.6	684.9	635.0	596.0	572.2	554.9	548.4
15°	921.1	903.8	843.1	760.8	689.2	606.9	537.5	496.3	461.7	444.3	446.5
17.5°	925.5	899.5	814.9	726.1	626.4	537.5	455.2	405.3	370.6	357.6	355.5
20°	927.6	895.1	793.3	678.4	561.4	461.7	383.6	335.9	309.9	301.3	301.3
22.5°	923.3	882.1	760.8	622.0	505.0	398.8	333.8	292.6	275.3	264.4	268.8
25°	942.8	880.0	730.4	574.4	440.0	346.8	296.9	266.6	255.8	249.3	251.4
27.5°	947.2	880.0	706.6	520.2	383.6	307.8	268.8	249.3	240.6	236.2	234.1
30°	964.5	884.3	678.4	466.0	338.1	277.4	247.1	236.2	229.7	227.6	227.6
32.5°	1012.2	897.3	648.1	420.5	299.1	251.4	231.9	223.2	218.9	216.7	218.9
35°	1068.5	932.0	615.5	372.8	270.9	234.1	218.9	212.4	210.2	210.2	210.2
37.5°	1155.2	984.0	587.4	333.8	247.1	216.7	205.9	203.7	201.6	203.7	203.7
40°	1254.9	1040.3	561.4	303.4	229.7	205.9	195.1	195.1	192.9	195.1	197.2
42.5°	1369.8	1109.7	535.3	273.1	214.6	197.2	188.6	186.4	184.2	188.6	190.7
45°	1528.0	1205.1	518.0	255.8	203.7	188.6	179.9	179.9	177.7	177.7	182.1
47.5°	1660.2	1296.1	518.0	238.4	197.2	182.1	173.4	173.4	169.1	171.2	171.2
50°	1770.8	1374.1	528.8	234.1	188.6	175.6	169.1	164.7	162.6	162.6	162.6
52.5°	1844.5	1421.8	537.5	229.7	184.2	166.9	162.6	160.4	156.1	153.9	156.1
55°	1918.1	1454.3	539.7	229.7	177.7	158.2	153.9	153.9	149.6	147.4	147.4
57.5°	1946.3	1441.3	509.3	225.4	173.4	151.7	147.4	145.2	143.0	140.9	140.9
60°	1933.3	1393.6	442.1	214.6	169.1	147.4	138.7	138.7	138.7	134.4	136.5
62.5°	1844.5	1231.1	355.5	197.2	162.6	138.7	130.0	134.4	134.4	132.2	132.2
65°	1610.4	1016.5	288.3	182.1	153.9	132.2	123.5	130.0	132.2	130.0	127.9
67.5°	1287.4	782.4	238.4	164.7	143.0	121.4	114.9	121.4	123.5	121.4	121.4
70°	884.3	505.0	192.9	147.4	127.9	110.5	104.0	108.4	108.4	110.5	110.5
72.5°	457.3	273.1	158.2	125.7	110.5	99.7	93.2	93.2	91.0	91.0	91.0
75°	227.6	186.4	132.2	106.2	93.2	84.5	80.2	75.9	75.9	75.9	75.9
77.5°	158.2	143.0	108.4	84.5	75.9	69.4	69.4	62.9	62.9	62.9	62.9
80°	119.2	112.7	82.4	65.0	58.5	54.2	54.2	52.0	52.0	49.9	49.9
82.5°	84.5	91.0	62.9	47.7	43.3	41.2	41.2	39.0	39.0	34.7	34.7
85°	67.2	75.9	47.7	34.7	32.5	28.2	28.2	26.0	26.0	23.8	21.7
87.5°	19.5	41.2	19.5	13.0	13.0	13.0	13.0	10.8	10.8	8.7	8.7
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)