

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: P674882

Luminaire Tested: **CCW-SA-1E-830-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674882
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

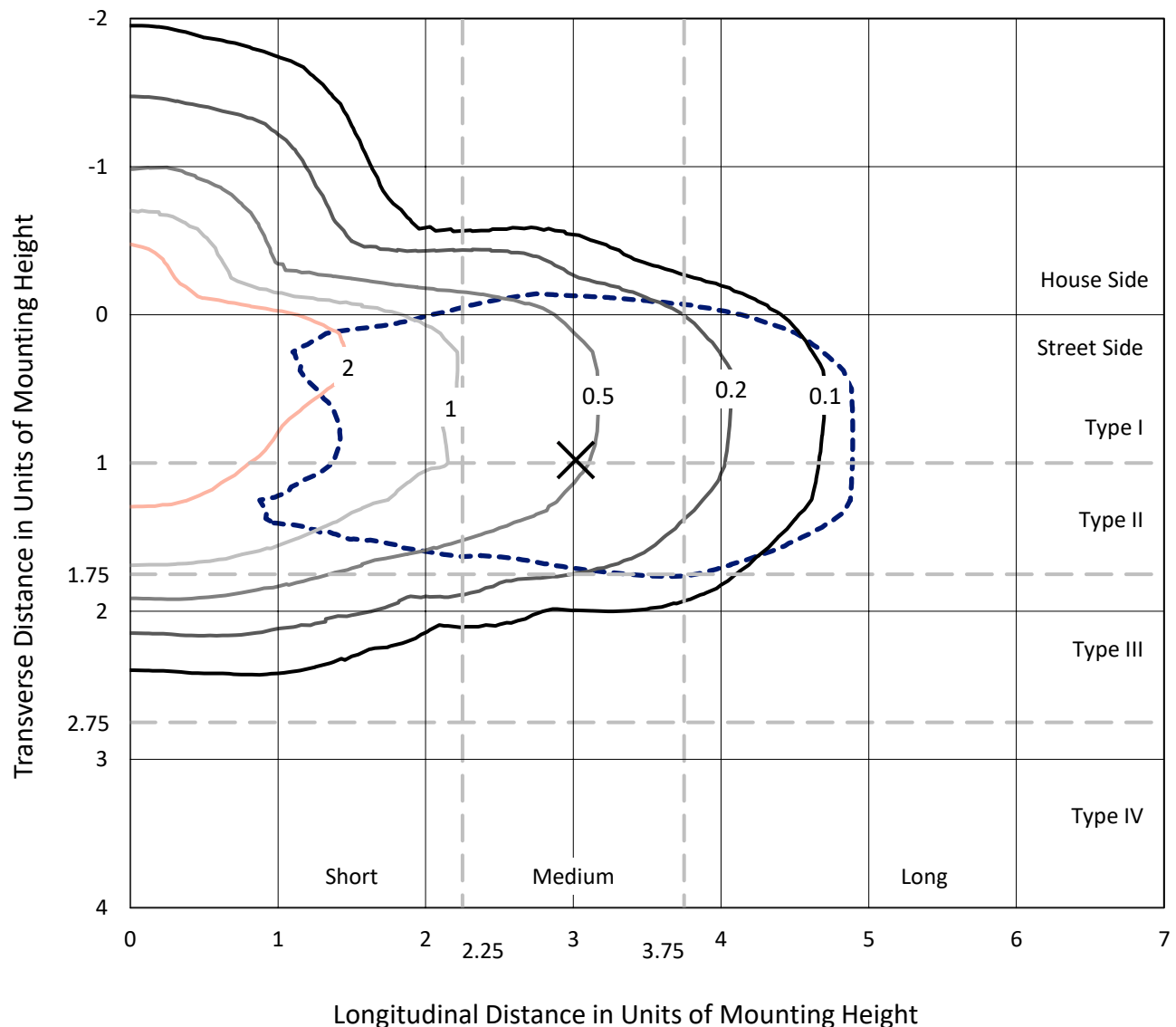
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

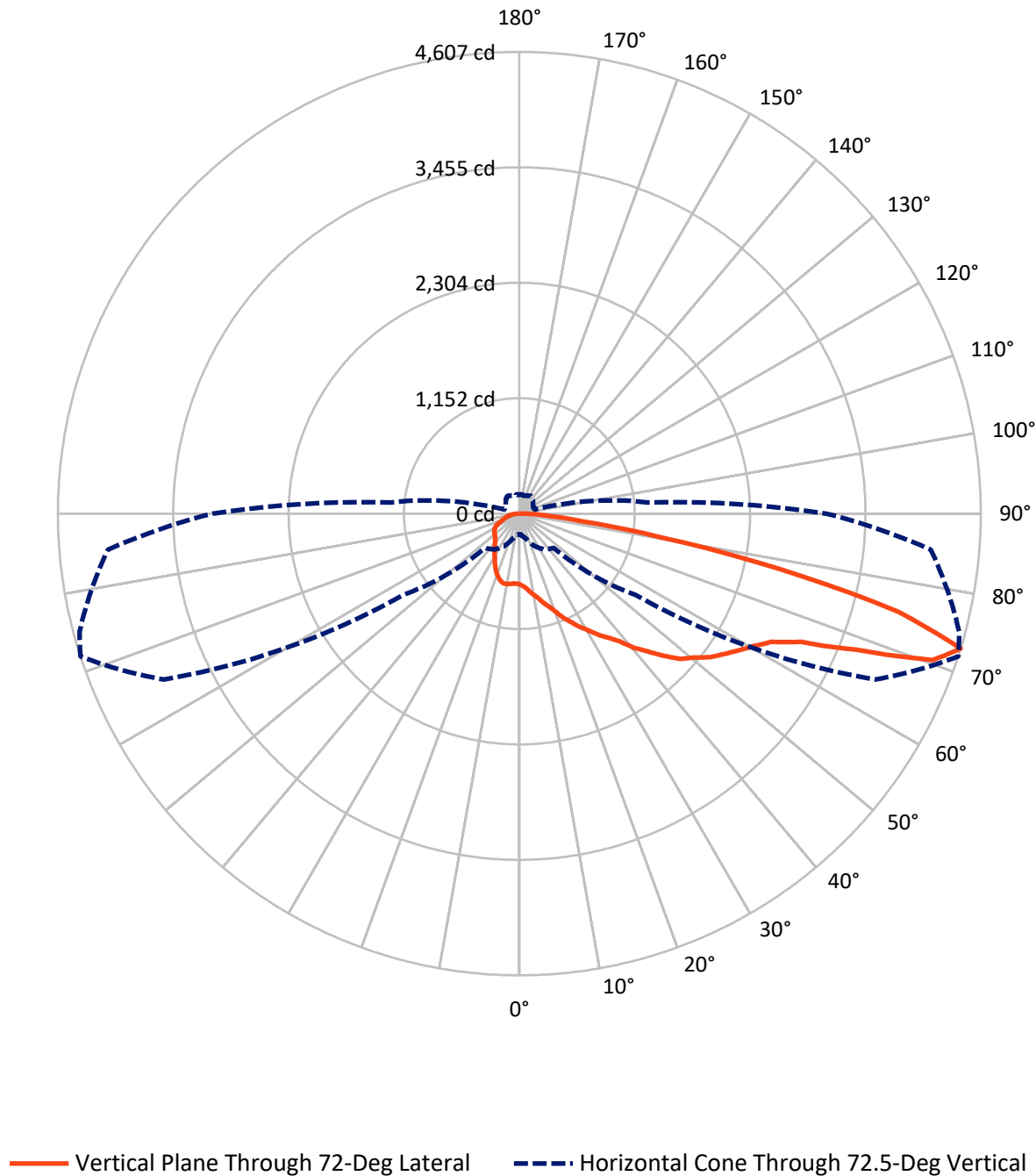
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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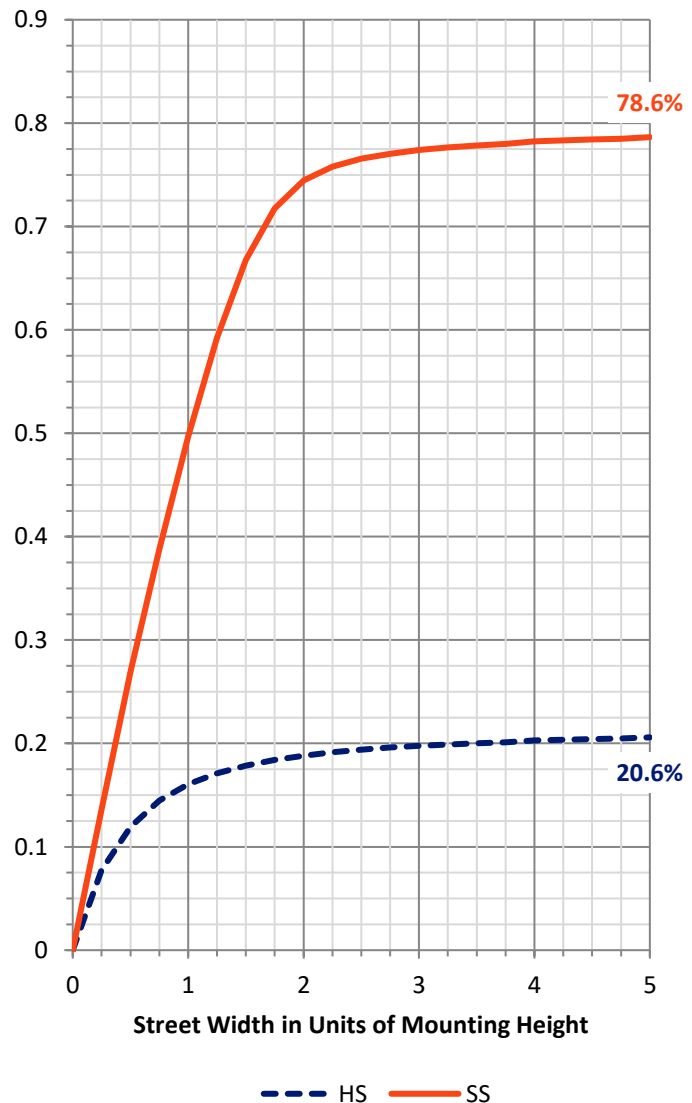
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.5	0.0	1140.5
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	4278.7	0.0	4278.7
	% Fixture	79.0	0.0	79.0
Total	Lumens	5419.2	0.0	5419.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	217.5	4.0
20°-30°	376.3	6.9
30°-40°	555.8	10.3
40°-50°	826.6	15.3
50°-60°	1133.2	20.9
60°-70°	1229.2	22.7
70°-80°	866.6	16.0
80°-90°	144.0	2.7
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°	5419.2	100.0
0°-180°	5419.2	100.0

Coefficient of Utilization



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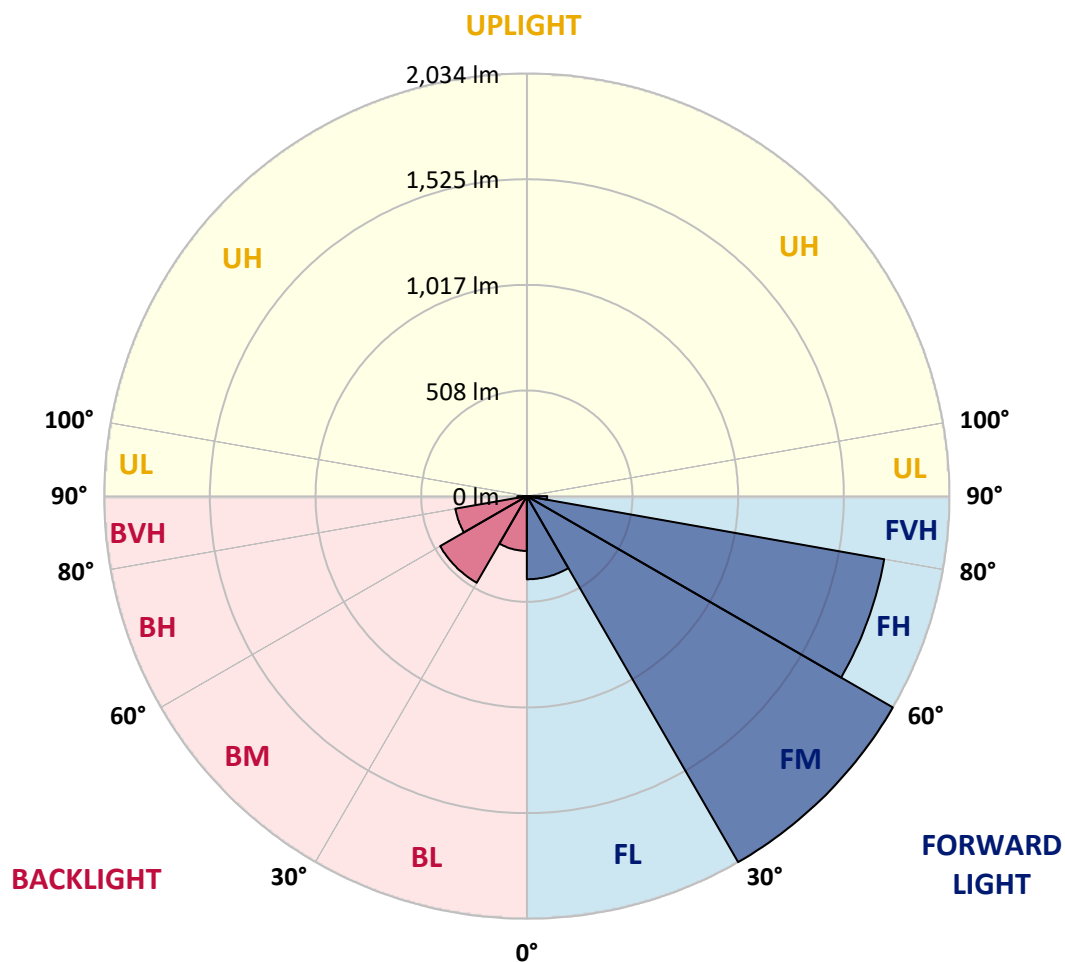
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.2	7.4			
FM	(30°-60°)	2033.9	37.5			
FH	(60°-80°)	1746.4	32.2			G1/1800
FVH	(80°-90°)	98.2	1.8			G1/100
BL	(0°-30°)	263.6	4.9	B1/500		
BM	(30°-60°)	481.7	8.9	B1/1000		
BH	(60°-80°)	349.4	6.4	B1/500		G1/500
BVH	(80°-90°)	45.8	0.8			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	763.9	763.9	757.9	755.9	755.9	739.9	741.9	731.9	723.9	723.9	715.9
5°	803.9	799.9	799.9	799.9	789.9	783.9	781.9	763.9	749.9	751.9	727.9
7.5°	813.9	815.9	817.9	827.9	821.9	825.9	821.9	801.9	791.9	781.9	759.9
10°	819.9	823.9	823.9	837.9	837.9	847.9	853.9	845.9	827.9	817.9	781.9
12.5°	833.9	827.9	835.9	845.9	855.9	873.9	891.9	883.9	871.9	859.9	819.9
15°	833.9	835.9	841.9	857.9	873.9	891.9	923.9	935.9	929.9	907.9	865.9
17.5°	809.9	803.9	831.9	861.9	891.9	913.9	955.9	983.8	979.9	971.9	907.9
20°	811.9	817.9	827.9	853.9	901.9	941.9	993.8	1039.8	1049.8	1045.8	963.9
22.5°	847.9	849.9	859.9	871.9	909.9	961.9	1039.8	1113.8	1131.8	1121.8	1025.8
25°	883.9	899.9	899.9	907.9	921.9	975.9	1069.8	1173.8	1199.8	1201.8	1089.8
27.5°	941.9	945.9	957.9	961.9	973.9	1005.8	1103.8	1217.8	1277.8	1269.8	1147.8
30°	1009.8	1011.8	1019.8	1015.8	1017.8	1057.8	1135.8	1267.8	1349.8	1351.8	1209.8
32.5°	1089.8	1105.8	1109.8	1083.8	1087.8	1097.8	1185.8	1327.8	1439.8	1425.8	1263.8
35°	1207.8	1213.8	1201.8	1189.8	1159.8	1153.8	1237.8	1387.8	1517.8	1533.8	1343.8
37.5°	1353.8	1369.8	1353.8	1289.8	1257.8	1233.8	1301.8	1453.8	1611.8	1665.7	1423.8
40°	1489.8	1487.8	1471.8	1413.8	1357.8	1339.8	1393.8	1545.8	1757.7	1809.7	1539.8
42.5°	1599.8	1593.8	1583.8	1539.8	1487.8	1457.8	1499.8	1641.7	1879.7	1979.7	1673.7
45°	1695.7	1687.7	1689.7	1639.7	1589.8	1605.8	1605.8	1751.7	2023.7	2147.7	1827.7
47.5°	1785.7	1789.7	1783.7	1745.7	1707.7	1749.7	1727.7	1877.7	2165.7	2303.6	1957.7
50°	1889.7	1897.7	1877.7	1853.7	1819.7	1861.7	1833.7	1995.7	2257.7	2445.6	2113.7
52.5°	1987.7	1995.7	2013.7	1983.7	1949.7	1983.7	1919.7	2105.7	2379.6	2583.6	2233.7
55°	2011.7	2007.7	2107.7	2139.7	2157.7	2055.7	1995.7	2199.7	2475.6	2671.6	2369.6
57.5°	1901.7	1911.7	2047.7	2139.7	2331.6	2243.7	2081.7	2309.6	2575.6	2787.6	2495.6
60°	1627.8	1633.8	1803.7	2021.7	2301.6	2419.6	2313.6	2451.6	2685.6	2885.6	2637.6
62.5°	1087.8	1133.8	1345.8	1687.7	2089.7	2467.6	2683.6	2691.6	2819.6	3009.5	2831.6
65°	573.9	595.9	761.9	1037.8	1583.8	2301.6	3031.5	3167.5	3087.5	3237.5	3111.5
67.5°	375.9	383.9	473.9	629.9	913.9	1679.7	3071.5	3993.4	3625.4	3671.4	3559.5
70°	280.0	284.0	349.9	465.9	565.9	897.9	2517.6	4379.3	4377.3	4255.3	4091.4
72.5°	206.0	212.0	258.0	355.9	435.9	483.9	1415.8	3917.4	4607.3	4545.3	4123.4
75°	162.0	166.0	190.0	276.0	351.9	318.0	717.9	2901.6	3907.4	4205.4	3773.4
77.5°	132.0	136.0	150.0	200.0	282.0	246.0	343.9	1871.7	2649.6	3027.5	2887.6
80°	110.0	110.0	120.0	142.0	218.0	186.0	204.0	1051.8	1427.8	1575.8	1309.8
82.5°	94.0	92.0	100.0	104.0	162.0	134.0	132.0	475.9	627.9	665.9	491.9
85°	60.0	62.0	94.0	90.0	106.0	92.0	74.0	226.0	296.0	302.0	184.0
87.5°	24.0	24.0	40.0	50.0	60.0	56.0	36.0	102.0	130.0	130.0	52.0
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°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	713.9	705.9	699.9	695.9	685.9	675.9	677.9	675.9	667.9	663.9	663.9
5°	721.9	713.9	703.9	687.9	677.9	665.9	669.9	661.9	653.9	659.9	649.9
7.5°	741.9	727.9	713.9	689.9	673.9	655.9	647.9	643.9	637.9	633.9	633.9
10°	769.9	749.9	723.9	687.9	661.9	633.9	629.9	621.9	615.9	615.9	613.9
12.5°	797.9	775.9	731.9	673.9	629.9	609.9	607.9	609.9	613.9	615.9	617.9
15°	833.9	797.9	729.9	647.9	603.9	595.9	605.9	613.9	621.9	629.9	627.9
17.5°	867.9	825.9	711.9	615.9	581.9	583.9	601.9	617.9	633.9	641.9	643.9
20°	913.9	851.9	685.9	577.9	559.9	577.9	601.9	621.9	639.9	649.9	651.9
22.5°	965.9	881.9	651.9	543.9	541.9	559.9	583.9	613.9	633.9	651.9	649.9
25°	1011.8	901.9	607.9	515.9	519.9	531.9	559.9	591.9	611.9	631.9	625.9
27.5°	1041.8	905.9	561.9	495.9	495.9	507.9	533.9	553.9	571.9	587.9	589.9
30°	1075.8	897.9	509.9	469.9	469.9	485.9	495.9	507.9	517.9	521.9	525.9
32.5°	1115.8	879.9	477.9	449.9	449.9	461.9	467.9	463.9	461.9	451.9	457.9
35°	1153.8	853.9	441.9	423.9	431.9	437.9	435.9	423.9	411.9	393.9	387.9
37.5°	1199.8	827.9	409.9	395.9	409.9	411.9	411.9	397.9	381.9	359.9	359.9
40°	1269.8	807.9	383.9	377.9	391.9	389.9	379.9	369.9	375.9	363.9	363.9
42.5°	1343.8	799.9	359.9	361.9	367.9	369.9	359.9	347.9	371.9	357.9	359.9
45°	1435.8	805.9	343.9	341.9	355.9	353.9	347.9	337.9	345.9	310.0	300.0
47.5°	1521.8	817.9	335.9	327.9	343.9	347.9	339.9	318.0	306.0	284.0	280.0
50°	1599.8	843.9	327.9	312.0	327.9	335.9	322.0	298.0	284.0	270.0	270.0
52.5°	1673.7	881.9	324.0	294.0	308.0	318.0	310.0	286.0	270.0	264.0	258.0
55°	1749.7	915.9	318.0	282.0	286.0	306.0	304.0	272.0	256.0	256.0	254.0
57.5°	1857.7	961.9	310.0	262.0	270.0	292.0	292.0	266.0	248.0	250.0	252.0
60°	1967.7	1015.8	302.0	242.0	248.0	278.0	282.0	258.0	242.0	244.0	242.0
62.5°	2143.7	1115.8	286.0	218.0	230.0	260.0	270.0	248.0	234.0	238.0	238.0
65°	2409.6	1287.8	252.0	198.0	212.0	244.0	258.0	238.0	222.0	234.0	230.0
67.5°	2837.6	1523.8	212.0	182.0	200.0	228.0	244.0	226.0	212.0	230.0	224.0
70°	3221.5	1639.7	182.0	168.0	182.0	210.0	228.0	214.0	200.0	218.0	210.0
72.5°	3065.5	1285.8	158.0	152.0	166.0	190.0	212.0	198.0	184.0	194.0	186.0
75°	2645.6	1023.8	138.0	136.0	148.0	172.0	194.0	184.0	170.0	174.0	170.0
77.5°	2005.7	845.9	118.0	116.0	126.0	154.0	174.0	166.0	152.0	150.0	150.0
80°	895.9	415.9	98.0	98.0	104.0	132.0	148.0	144.0	130.0	128.0	126.0
82.5°	294.0	158.0	80.0	76.0	84.0	110.0	132.0	128.0	114.0	110.0	106.0
85°	118.0	76.0	58.0	58.0	66.0	92.0	118.0	110.0	92.0	82.0	82.0
87.5°	40.0	32.0	30.0	30.0	42.0	62.0	88.0	74.0	66.0	58.0	60.0
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)