

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: P675461

Luminaire Tested: **CCW-SA-2B-830-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675461
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

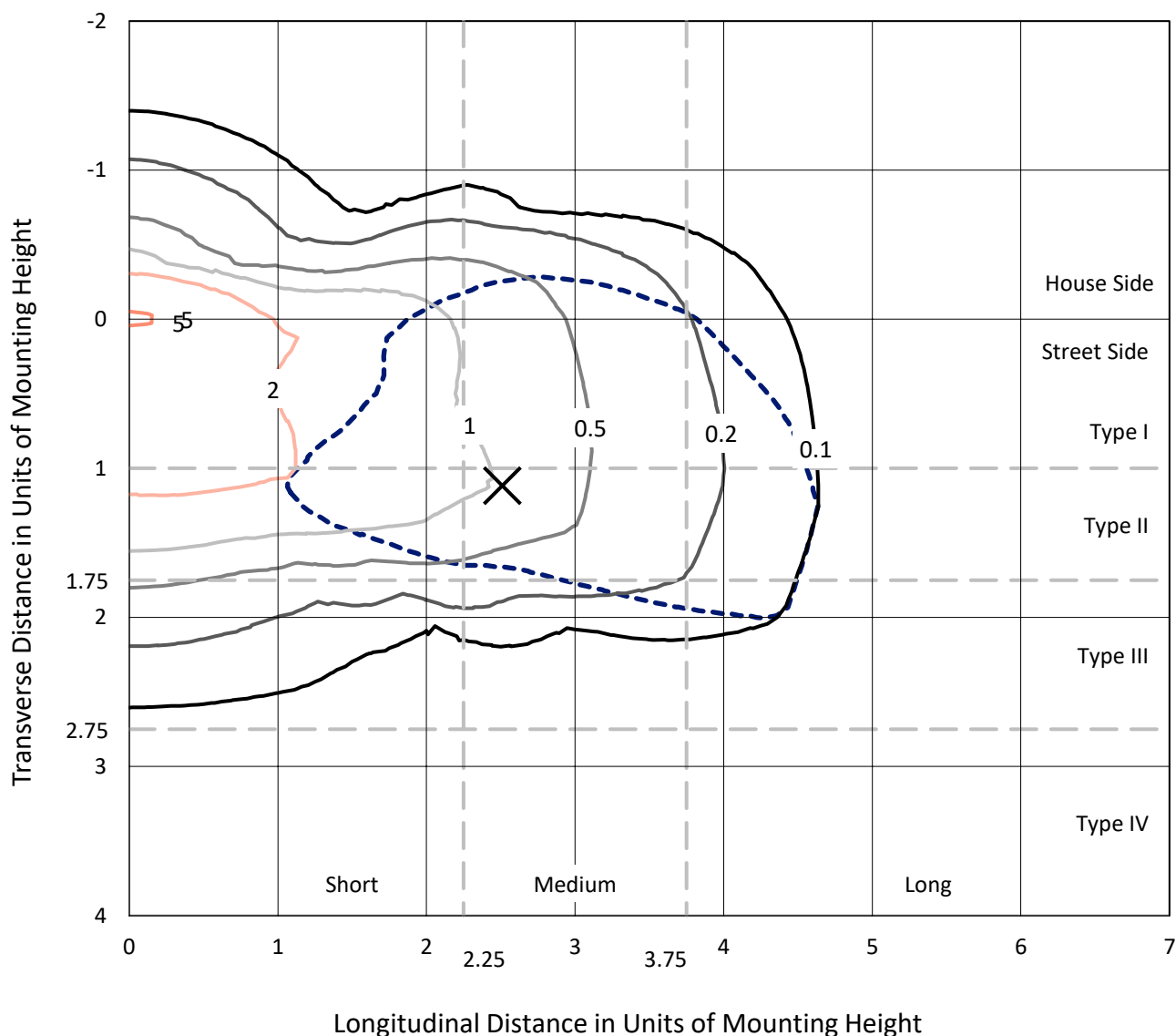
Lumens per Lamp: N/A
Luminaire Lumens: 5431.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

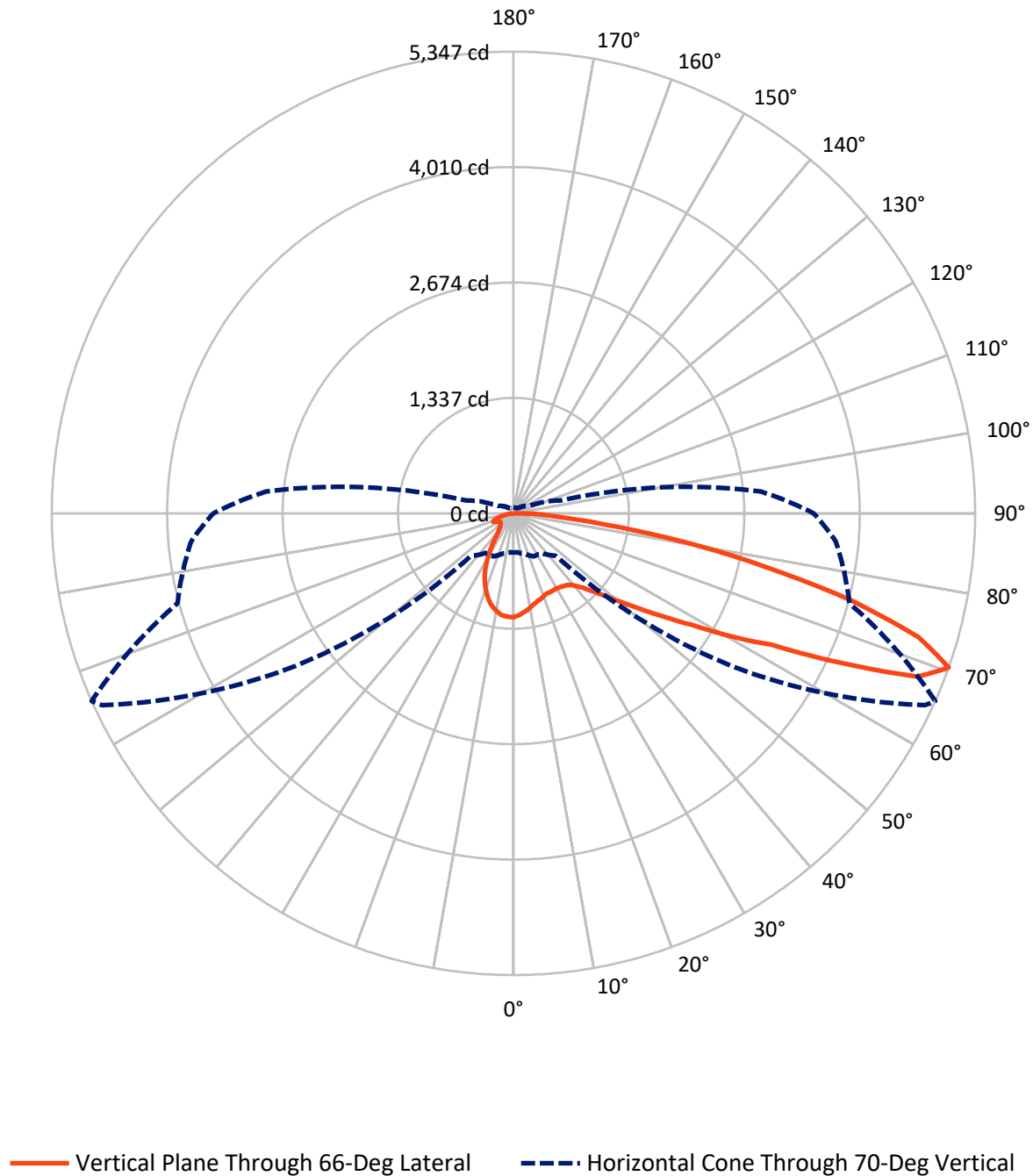
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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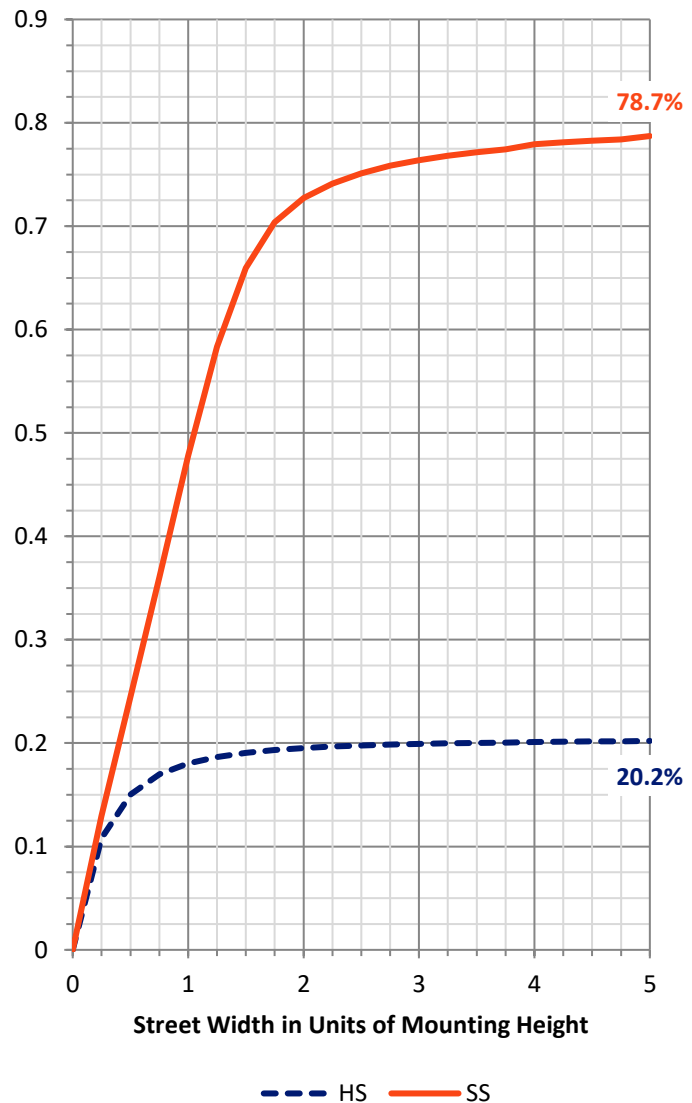
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.7	0.0	1111.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4319.4	0.0	4319.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	5431.1	0.0	5431.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	2.0
10°-20°	261.2	4.8
20°-30°	358.7	6.6
30°-40°	480.9	8.9
40°-50°	697.8	12.8
50°-60°	1060.6	19.5
60°-70°	1309.9	24.1
70°-80°	974.1	17.9
80°-90°	181.7	3.3
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°	5431.1	100.0
0°-180°	5431.1	100.0

Coefficient of Utilization



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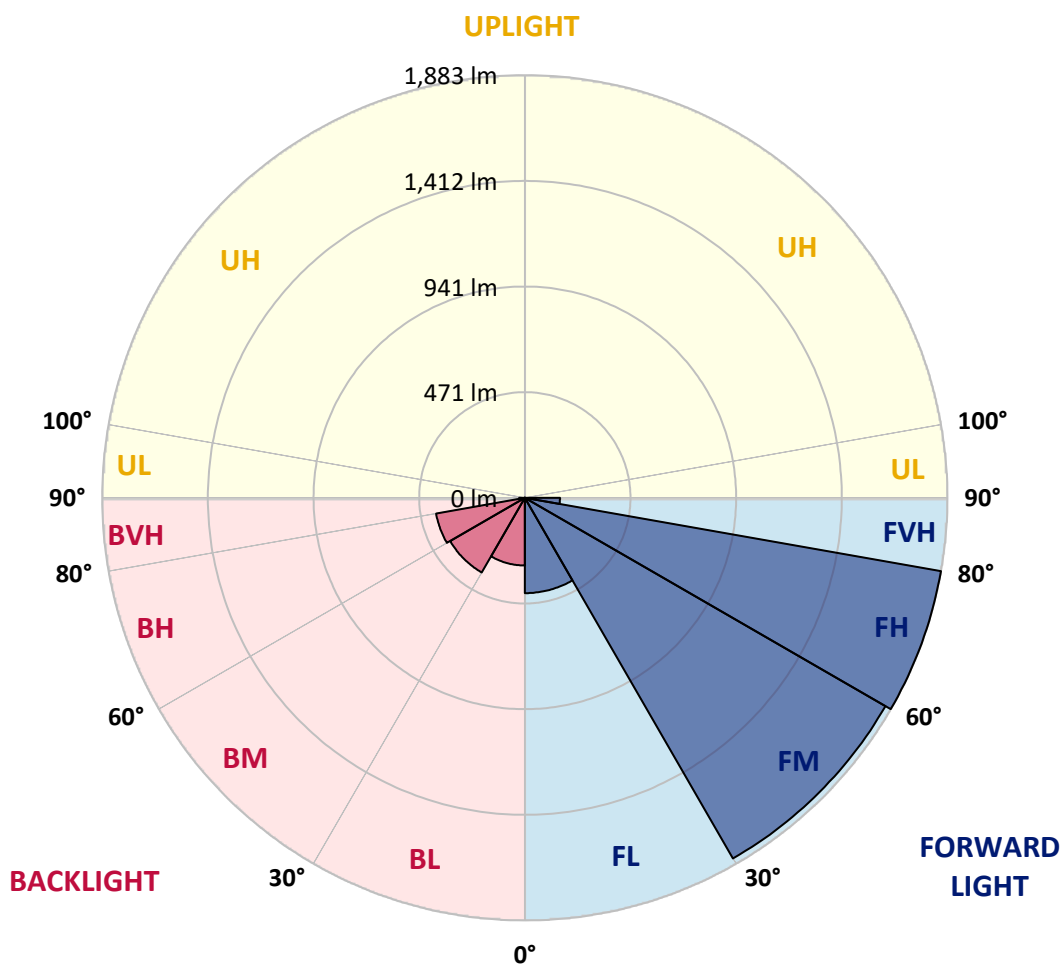
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.7	7.8			
FM	(30°-60°)	1855.3	34.2			
FH	(60°-80°)	1882.8	34.7			G2/5000
FVH	(80°-90°)	156.6	2.9			G2/225
BL	(0°-30°)	301.3	5.5	B1/500		
BM	(30°-60°)	384.0	7.1	B1/1000		
BH	(60°-80°)	401.3	7.4	B1/500		G1/500
BVH	(80°-90°)	25.1	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9
2.5°	1141.3	1147.4	1149.4	1153.4	1163.5	1171.6	1183.7	1189.8	1183.7	1191.8	1191.8
5°	1062.5	1054.5	1074.7	1082.7	1094.9	1111.0	1139.3	1161.5	1155.5	1179.7	1199.9
7.5°	995.9	995.9	1001.9	1020.1	1034.3	1058.5	1088.8	1123.1	1133.2	1165.6	1195.9
10°	935.3	943.4	943.4	971.6	979.7	1008.0	1058.5	1100.9	1102.9	1157.5	1199.9
12.5°	903.0	898.9	919.1	927.2	951.4	979.7	1020.1	1072.6	1074.7	1133.2	1191.8
15°	876.7	880.7	890.8	911.0	933.3	955.5	993.9	1042.3	1052.4	1121.1	1187.8
17.5°	878.7	880.7	880.7	894.9	913.1	939.3	975.7	1032.2	1038.3	1105.0	1181.7
20°	890.8	882.8	888.8	894.9	907.0	931.2	961.5	1010.0	1016.1	1102.9	1195.9
22.5°	917.1	911.0	909.0	907.0	905.0	919.1	957.5	997.9	1004.0	1092.8	1201.9
25°	959.5	957.5	943.4	929.2	919.1	919.1	949.4	1008.0	1006.0	1092.8	1206.0
27.5°	1010.0	1010.0	1008.0	981.7	951.4	935.3	955.5	1004.0	1001.9	1092.8	1216.1
30°	1078.7	1078.7	1072.6	1048.4	993.9	947.4	959.5	999.9	1006.0	1084.8	1208.0
32.5°	1153.4	1151.4	1157.5	1135.3	1078.7	1004.0	983.8	1008.0	1014.1	1092.8	1210.0
35°	1208.0	1220.1	1240.3	1220.1	1163.5	1062.5	1018.1	1024.2	1028.2	1094.9	1218.1
37.5°	1270.6	1284.7	1313.0	1329.2	1268.6	1151.4	1072.6	1050.4	1050.4	1121.1	1220.1
40°	1361.5	1347.4	1395.8	1424.1	1399.9	1260.5	1157.5	1098.9	1100.9	1155.5	1246.4
42.5°	1428.2	1442.3	1492.8	1543.3	1513.0	1393.8	1250.4	1177.7	1177.7	1206.0	1286.8
45°	1502.9	1519.1	1589.8	1650.4	1672.6	1553.4	1377.7	1290.8	1286.8	1304.9	1359.5
47.5°	1585.7	1607.9	1688.7	1759.4	1818.0	1719.0	1541.3	1428.2	1426.1	1440.3	1480.7
50°	1680.7	1688.7	1755.4	1884.7	2001.8	1939.2	1741.3	1622.1	1612.0	1618.0	1672.6
52.5°	1708.9	1702.9	1779.6	1919.0	2133.1	2207.9	2014.0	1842.3	1838.2	1824.1	1894.8
55°	1605.9	1626.1	1700.9	1878.6	2240.2	2525.0	2312.9	2143.2	2106.9	2068.5	2153.3
57.5°	1399.9	1401.9	1486.7	1696.8	2157.4	2787.6	2820.0	2438.2	2440.2	2337.2	2434.1
60°	1088.8	1082.7	1149.4	1339.3	1921.0	2868.4	3373.4	2908.8	2888.6	2605.8	2694.7
62.5°	785.8	773.7	787.8	898.9	1436.2	2745.2	3916.8	3436.1	3351.2	2880.6	2949.2
65°	646.4	652.5	658.5	664.6	806.0	2264.4	4084.5	4296.6	4183.5	3201.7	3230.0
67.5°	535.3	539.3	565.6	602.0	597.9	1337.3	3890.6	5092.5	5050.1	3599.7	3472.4
70°	454.5	452.5	482.8	549.4	559.5	694.9	3080.5	5256.1	5347.0	4027.9	3747.1
72.5°	363.6	367.6	393.9	482.8	549.4	585.8	1773.6	4904.6	4902.6	4357.2	3599.7
75°	260.6	260.6	296.9	400.0	531.3	579.7	981.7	3981.5	4056.2	4094.6	3123.0
77.5°	171.7	179.8	208.1	299.0	498.9	567.6	622.2	2894.7	2987.6	3062.4	2389.7
80°	117.2	121.2	139.4	208.1	422.2	571.7	509.0	1947.3	1983.7	1690.8	969.6
82.5°	70.7	72.7	92.9	145.4	303.0	543.4	478.7	1074.7	1052.4	511.1	278.8
85°	38.4	40.4	58.6	97.0	200.0	474.7	470.7	527.2	490.9	187.9	117.2
87.5°	14.1	14.1	26.3	48.5	115.1	325.2	410.1	313.1	292.9	94.9	54.5
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°	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9	1199.9
2.5°	1201.9	1201.9	1201.9	1201.9	1199.9	1191.8	1197.9	1195.9	1183.7	1185.8	1177.7
5°	1197.9	1208.0	1201.9	1193.8	1183.7	1159.5	1151.4	1145.4	1129.2	1123.1	1129.2
7.5°	1208.0	1199.9	1195.9	1181.7	1141.3	1119.1	1090.8	1056.5	1032.2	1026.2	1032.2
10°	1206.0	1206.0	1187.8	1147.4	1109.0	1044.4	1008.0	947.4	913.1	903.0	905.0
12.5°	1197.9	1203.9	1175.7	1111.0	1038.3	959.5	892.9	828.2	767.6	743.4	739.3
15°	1206.0	1199.9	1149.4	1066.6	965.6	856.5	759.5	664.6	608.0	571.7	563.6
17.5°	1193.8	1187.8	1115.1	1006.0	870.6	731.2	610.0	507.0	450.5	436.3	436.3
20°	1208.0	1169.6	1074.7	933.3	771.6	593.9	456.5	379.8	365.6	365.6	369.7
22.5°	1206.0	1165.6	1040.3	862.6	652.5	448.4	339.4	317.1	319.2	335.3	333.3
25°	1193.8	1157.5	991.8	783.8	527.2	337.3	280.8	274.7	288.9	307.0	305.0
27.5°	1191.8	1135.3	947.4	690.8	402.0	266.6	244.4	244.4	258.6	274.7	272.7
30°	1179.7	1117.1	892.9	585.8	303.0	232.3	224.2	224.2	230.3	238.4	238.4
32.5°	1177.7	1092.8	832.3	476.7	242.4	210.1	206.0	208.1	208.1	212.1	210.1
35°	1161.5	1060.5	769.6	369.7	210.1	198.0	193.9	191.9	191.9	189.9	189.9
37.5°	1155.5	1040.3	705.0	286.8	195.9	187.9	183.8	177.8	175.7	175.7	173.7
40°	1161.5	1020.1	642.4	232.3	183.8	179.8	173.7	165.6	163.6	163.6	163.6
42.5°	1183.7	1018.1	577.7	202.0	177.8	171.7	163.6	155.5	153.5	155.5	153.5
45°	1234.2	1034.3	515.1	187.9	169.7	163.6	153.5	147.5	145.4	147.5	147.5
47.5°	1317.1	1078.7	458.5	179.8	163.6	155.5	145.4	139.4	139.4	139.4	139.4
50°	1454.4	1163.5	404.0	173.7	159.6	149.5	139.4	131.3	129.3	129.3	131.3
52.5°	1660.5	1309.0	359.6	169.7	153.5	141.4	131.3	125.2	121.2	119.2	121.2
55°	1908.9	1521.1	345.4	165.6	145.4	135.3	125.2	117.2	113.1	113.1	111.1
57.5°	2175.6	1755.4	369.7	161.6	139.4	127.3	117.2	109.1	105.0	103.0	103.0
60°	2464.4	2032.1	458.5	159.6	133.3	119.2	109.1	103.0	97.0	94.9	94.9
62.5°	2727.0	2282.6	618.1	157.6	129.3	111.1	101.0	92.9	88.9	86.9	86.9
65°	3026.0	2561.4	773.7	165.6	127.3	105.0	92.9	84.8	80.8	78.8	78.8
67.5°	3286.6	2803.8	864.6	185.8	133.3	97.0	82.8	76.8	74.7	72.7	72.7
70°	3476.5	2878.5	579.7	204.0	143.4	90.9	74.7	70.7	66.7	66.7	66.7
72.5°	3221.9	2569.5	343.4	191.9	135.3	84.8	66.7	62.6	60.6	60.6	58.6
75°	2755.3	2187.7	264.6	155.5	109.1	72.7	58.6	54.5	52.5	52.5	50.5
77.5°	2034.2	1567.5	195.9	123.2	84.8	58.6	50.5	48.5	46.5	44.4	44.4
80°	795.9	686.8	133.3	90.9	62.6	46.5	42.4	40.4	38.4	36.4	36.4
82.5°	246.4	208.1	76.8	60.6	44.4	36.4	34.3	32.3	30.3	28.3	28.3
85°	107.1	103.0	50.5	38.4	30.3	24.2	24.2	22.2	20.2	18.2	18.2
87.5°	52.5	50.5	28.3	18.2	16.2	12.1	12.1	10.1	8.1	8.1	8.1
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)