

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: P675330

Luminaire Tested: **CCW-SA-2D-835-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675330
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9271 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

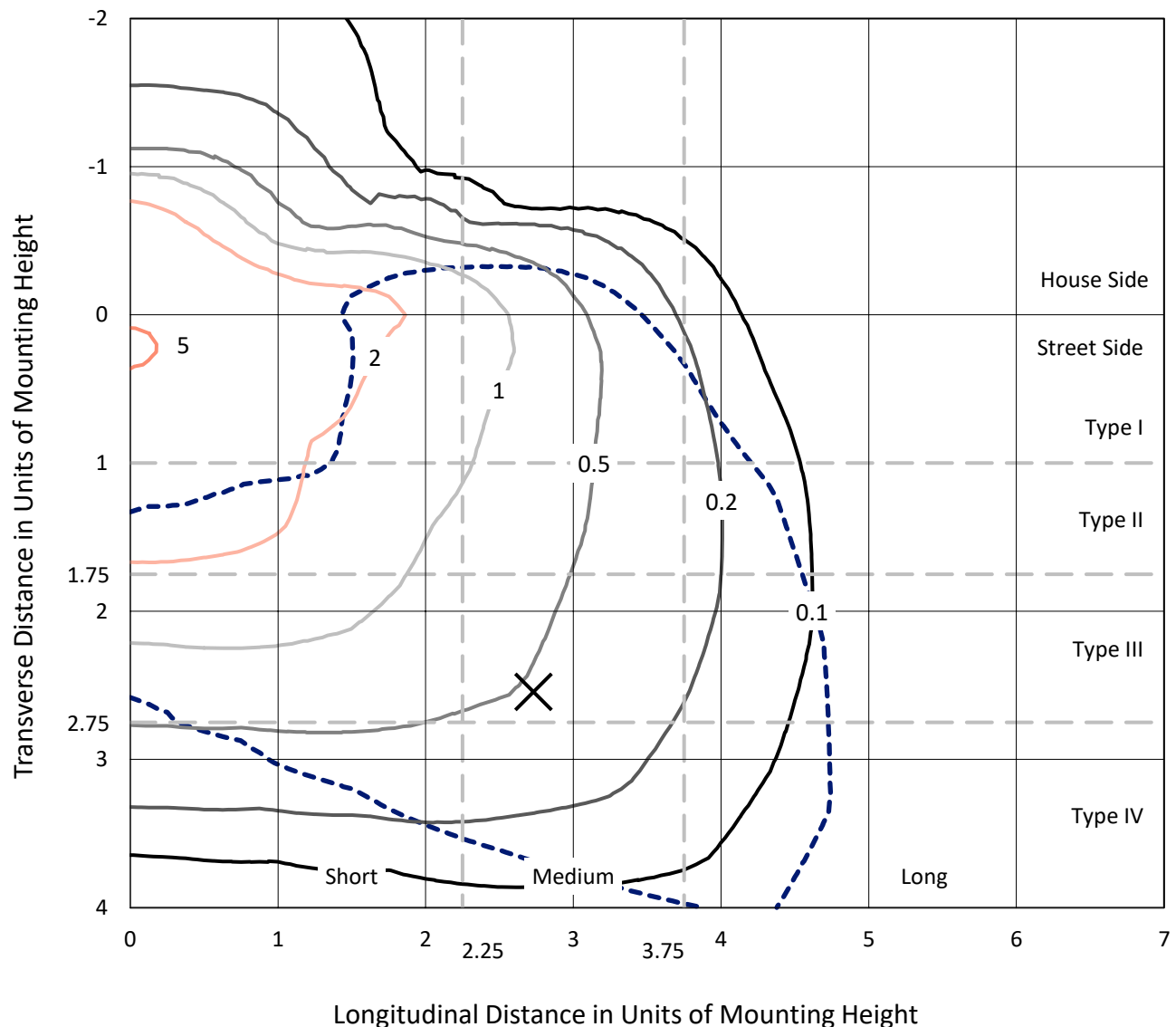
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

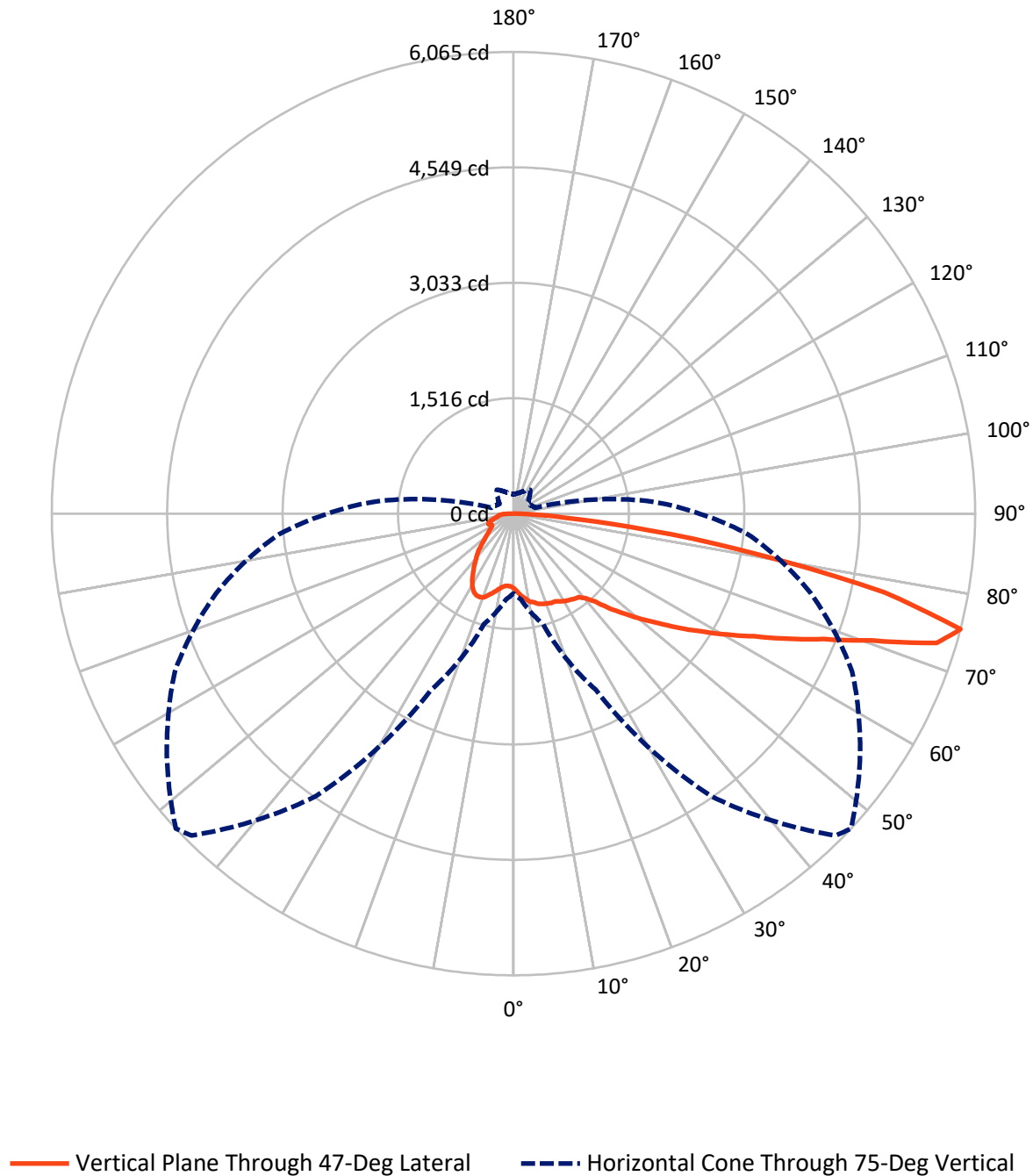
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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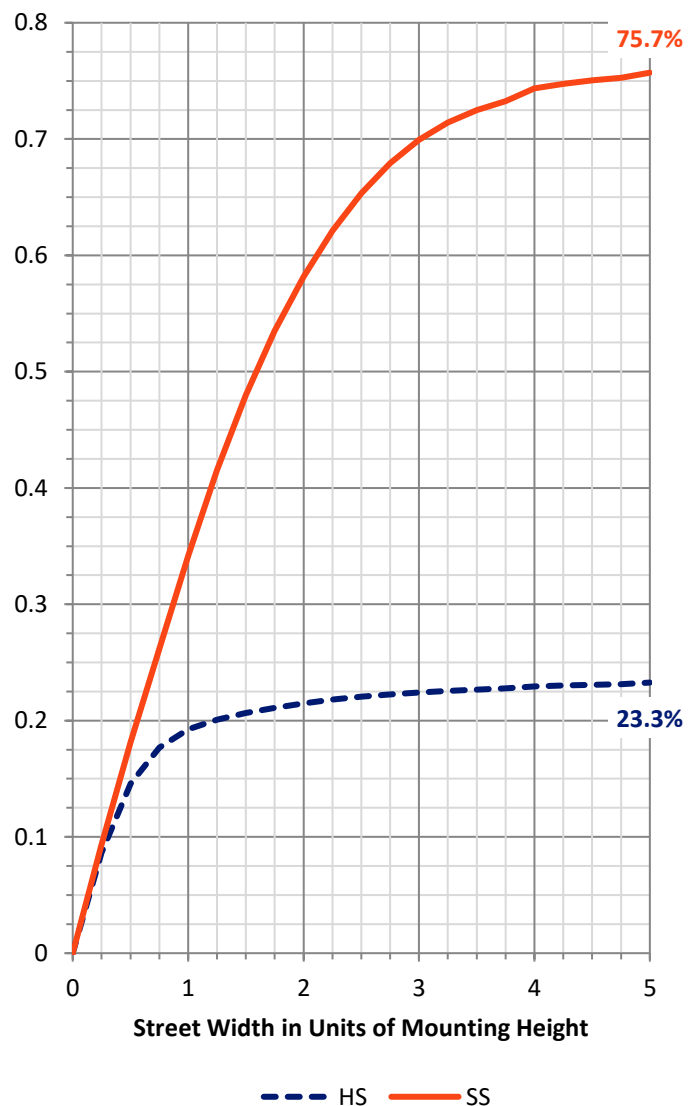
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.1	0.0	2217.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7053.8	0.0	7053.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	9271.0	0.0	9271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.1
10°-20°	330.5	3.6
20°-30°	566.0	6.1
30°-40°	792.0	8.5
40°-50°	1104.3	11.9
50°-60°	1650.6	17.8
60°-70°	2379.7	25.7
70°-80°	2025.7	21.8
80°-90°	322.7	3.5
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°	9271.0	100.0
0°-180°	9271.0	100.0

Coefficient of Utilization



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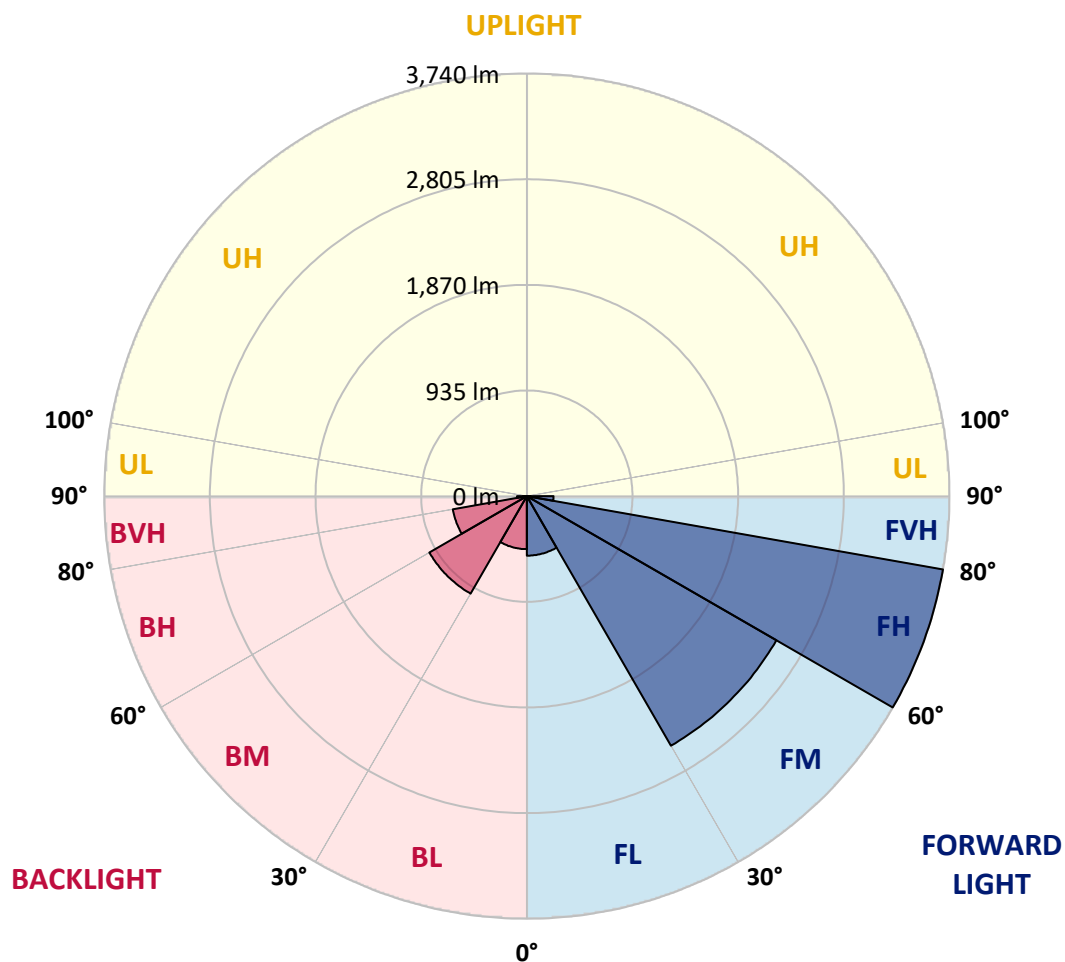
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.7	5.7			
FM	(30°-60°)	2550.4	27.5			
FH	(60°-80°)	3740.3	40.3			G2/5000
FVH	(80°-90°)	236.4	2.6			G3/500
BL	(0°-30°)	469.3	5.1	B1/500		
BM	(30°-60°)	996.5	10.7	B1/1000		
BH	(60°-80°)	665.1	7.2	B2/1000		G2/1000
BVH	(80°-90°)	86.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
2.5°	1055.4	1058.8	1058.8	1052.0	1045.3	1031.7	1031.7	1018.2	1011.4	994.5	987.8
5°	1153.5	1143.4	1133.2	1129.8	1112.9	1089.2	1085.9	1072.3	1035.1	1018.2	994.5
7.5°	1224.6	1221.2	1217.8	1204.3	1173.8	1136.6	1126.5	1106.2	1069.0	1035.1	1008.1
10°	1282.1	1295.6	1282.1	1251.6	1221.2	1180.6	1177.2	1140.0	1106.2	1065.6	1031.7
12.5°	1346.3	1349.7	1326.0	1288.8	1241.5	1207.6	1194.1	1180.6	1143.4	1109.5	1058.8
15°	1390.3	1383.5	1366.6	1315.9	1261.8	1227.9	1231.3	1214.4	1173.8	1150.1	1096.0
17.5°	1390.3	1390.3	1363.3	1326.0	1278.7	1248.2	1248.2	1238.1	1211.0	1177.2	1140.0
20°	1363.3	1363.3	1346.3	1326.0	1271.9	1265.2	1258.4	1251.6	1251.6	1221.2	1167.1
22.5°	1329.4	1322.7	1329.4	1295.6	1258.4	1265.2	1275.3	1271.9	1261.8	1234.7	1197.5
25°	1295.6	1299.0	1305.7	1282.1	1248.2	1278.7	1275.3	1292.2	1285.4	1265.2	1234.7
27.5°	1292.2	1299.0	1302.4	1278.7	1265.2	1292.2	1305.7	1322.7	1326.0	1305.7	1268.5
30°	1343.0	1339.6	1336.2	1305.7	1295.6	1319.3	1332.8	1356.5	1376.8	1332.8	1302.4
32.5°	1474.9	1454.6	1434.3	1353.1	1322.7	1339.6	1353.1	1386.9	1390.3	1366.6	1322.7
35°	1684.6	1671.1	1603.4	1461.4	1376.8	1359.9	1373.4	1397.1	1403.8	1386.9	1353.1
37.5°	1924.8	1918.0	1823.3	1650.8	1488.4	1407.2	1393.7	1427.5	1454.6	1417.4	1370.0
40°	2161.6	2134.5	2066.9	1897.7	1630.5	1478.3	1461.4	1478.3	1488.4	1461.4	1430.9
42.5°	2374.7	2344.3	2327.3	2158.2	1816.5	1596.7	1583.1	1542.5	1573.0	1539.2	1498.6
45°	2554.0	2547.2	2540.5	2395.0	2029.7	1789.5	1779.3	1674.5	1708.3	1681.2	1623.7
47.5°	2682.5	2713.0	2702.8	2621.6	2273.2	1995.8	1965.4	1830.1	1880.8	1853.8	1796.2
50°	2834.8	2851.7	2841.5	2787.4	2499.9	2232.6	2175.1	2036.4	2093.9	2090.5	2060.1
52.5°	2970.1	3020.8	2963.3	2959.9	2824.6	2489.7	2391.6	2259.7	2354.4	2391.6	2388.2
55°	3129.1	3169.6	3152.7	3146.0	3115.5	2740.0	2652.1	2493.1	2652.1	2706.2	2753.6
57.5°	3264.4	3261.0	3325.2	3403.1	3440.3	3027.6	2922.7	2736.7	2976.8	3037.7	3169.6
60°	3325.2	3382.8	3491.0	3687.2	3792.1	3335.4	3227.2	3078.3	3305.0	3352.3	3595.9
62.5°	3365.8	3416.6	3626.3	3957.8	4018.7	3650.0	3548.5	3399.7	3663.5	3697.4	4059.3
65°	3254.2	3301.6	3717.6	4059.3	4275.8	3988.3	3964.6	3809.0	4022.1	4042.4	4546.4
67.5°	3125.7	3176.4	3639.8	4187.9	4617.5	4438.2	4401.0	4214.9	4377.3	4353.6	4918.5
70°	2899.0	2966.7	3440.3	4299.5	4996.3	5067.4	4992.9	4729.1	4746.0	4522.7	4935.4
72.5°	2208.9	2252.9	2692.7	3856.3	5172.2	5940.1	5811.6	5283.9	5091.0	4556.6	4357.0
75°	1048.7	1129.8	1501.9	2550.6	4532.9	5980.7	6065.3	5557.9	4908.4	4042.4	3088.5
77.5°	304.4	304.4	456.7	1082.5	2841.5	4820.4	4979.4	4718.9	4049.2	2993.7	1623.7
80°	165.8	175.9	240.2	382.3	1248.2	3041.1	3271.1	3129.1	2384.8	1184.0	419.5
82.5°	94.7	98.1	159.0	230.0	568.3	1654.2	1789.5	1623.7	906.6	358.6	196.2
85°	54.1	57.5	91.3	152.2	338.3	608.9	663.0	575.1	365.3	240.2	98.1
87.5°	27.1	27.1	44.0	71.0	172.5	172.5	169.1	206.3	219.9	145.5	44.0
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°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
2.5°	984.4	981.0	981.0	967.5	964.1	953.9	953.9	947.2	943.8	953.9	953.9
5°	987.8	970.9	967.5	953.9	957.3	950.6	964.1	957.3	953.9	953.9	950.6
7.5°	994.5	977.6	964.1	953.9	950.6	960.7	977.6	977.6	997.9	987.8	987.8
10°	1011.4	1001.3	984.4	977.6	977.6	987.8	1008.1	1021.6	1038.5	1038.5	1028.4
12.5°	1052.0	1035.1	1014.8	1004.7	1018.2	1028.4	1048.7	1062.2	1082.5	1089.2	1082.5
15°	1082.5	1065.6	1058.8	1052.0	1062.2	1075.7	1092.6	1106.2	1129.8	1136.6	1133.2
17.5°	1123.1	1102.8	1099.4	1102.8	1109.5	1119.7	1129.8	1140.0	1156.9	1156.9	1156.9
20°	1143.4	1136.6	1133.2	1143.4	1156.9	1170.4	1163.7	1156.9	1153.5	1160.3	1156.9
22.5°	1180.6	1173.8	1177.2	1187.3	1187.3	1180.6	1170.4	1146.8	1140.0	1146.8	1140.0
25°	1214.4	1207.6	1207.6	1200.9	1197.5	1173.8	1153.5	1133.2	1109.5	1119.7	1116.3
27.5°	1248.2	1244.9	1244.9	1217.8	1184.0	1143.4	1116.3	1092.6	1079.1	1096.0	1085.9
30°	1288.8	1292.2	1275.3	1211.0	1129.8	1085.9	1055.4	1052.0	1048.7	1058.8	1055.4
32.5°	1326.0	1329.4	1302.4	1200.9	1089.2	1004.7	974.2	977.6	994.5	1011.4	1028.4
35°	1346.3	1363.3	1329.4	1167.1	1008.1	913.3	879.5	910.0	940.4	964.1	981.0
37.5°	1383.5	1427.5	1370.0	1129.8	937.0	832.2	808.5	818.6	855.8	893.0	910.0
40°	1437.7	1488.4	1380.2	1058.8	842.3	751.0	737.4	740.8	754.4	778.0	794.9
42.5°	1532.4	1586.5	1390.3	967.5	747.6	700.2	663.0	652.9	642.7	642.7	639.3
45°	1671.1	1721.8	1376.8	852.5	652.9	619.0	592.0	568.3	541.2	497.3	504.0
47.5°	1874.0	1914.6	1386.9	751.0	564.9	537.9	517.6	490.5	449.9	402.5	399.2
50°	2181.9	2121.0	1373.4	646.1	500.6	477.0	460.1	422.8	375.5	341.7	338.3
52.5°	2540.5	2418.7	1359.9	558.2	446.5	426.2	412.7	372.1	328.1	311.2	307.8
55°	2973.4	2797.5	1380.2	480.4	405.9	389.0	375.5	338.3	304.4	290.9	287.5
57.5°	3484.2	3206.9	1491.8	419.5	362.0	355.2	351.8	321.4	290.9	280.8	277.4
60°	3964.6	3599.3	1566.2	375.5	321.4	328.1	334.9	321.4	287.5	280.8	280.8
62.5°	4367.1	3924.0	1447.8	338.3	301.1	321.4	351.8	341.7	328.1	334.9	328.1
65°	4722.3	4035.6	1082.5	318.0	290.9	338.3	389.0	385.6	355.2	362.0	358.6
67.5°	4783.2	3900.3	707.0	301.1	284.2	372.1	436.4	395.8	334.9	334.9	324.7
70°	4529.5	3538.4	473.6	284.2	280.8	372.1	446.5	372.1	314.6	314.6	301.1
72.5°	3717.6	2828.0	365.3	267.2	257.1	331.5	422.8	351.8	294.3	287.5	263.9
75°	2442.4	1823.3	297.7	253.7	223.3	290.9	382.3	324.7	280.8	260.5	250.3
77.5°	1197.5	818.6	250.3	223.3	192.8	253.7	348.4	307.8	263.9	243.6	236.8
80°	328.1	294.3	209.7	196.2	162.4	219.9	328.1	294.3	246.9	226.6	216.5
82.5°	186.1	182.7	169.1	159.0	135.3	219.9	331.5	294.3	233.4	230.0	196.2
85°	101.5	108.2	121.8	118.4	104.9	196.2	314.6	257.1	189.4	159.0	159.0
87.5°	40.6	50.7	60.9	67.7	71.0	145.5	236.8	196.2	145.5	121.8	121.8
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)