

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: P675725

Luminaire Tested: **CCW-SA-1F-760-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675725
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-760-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

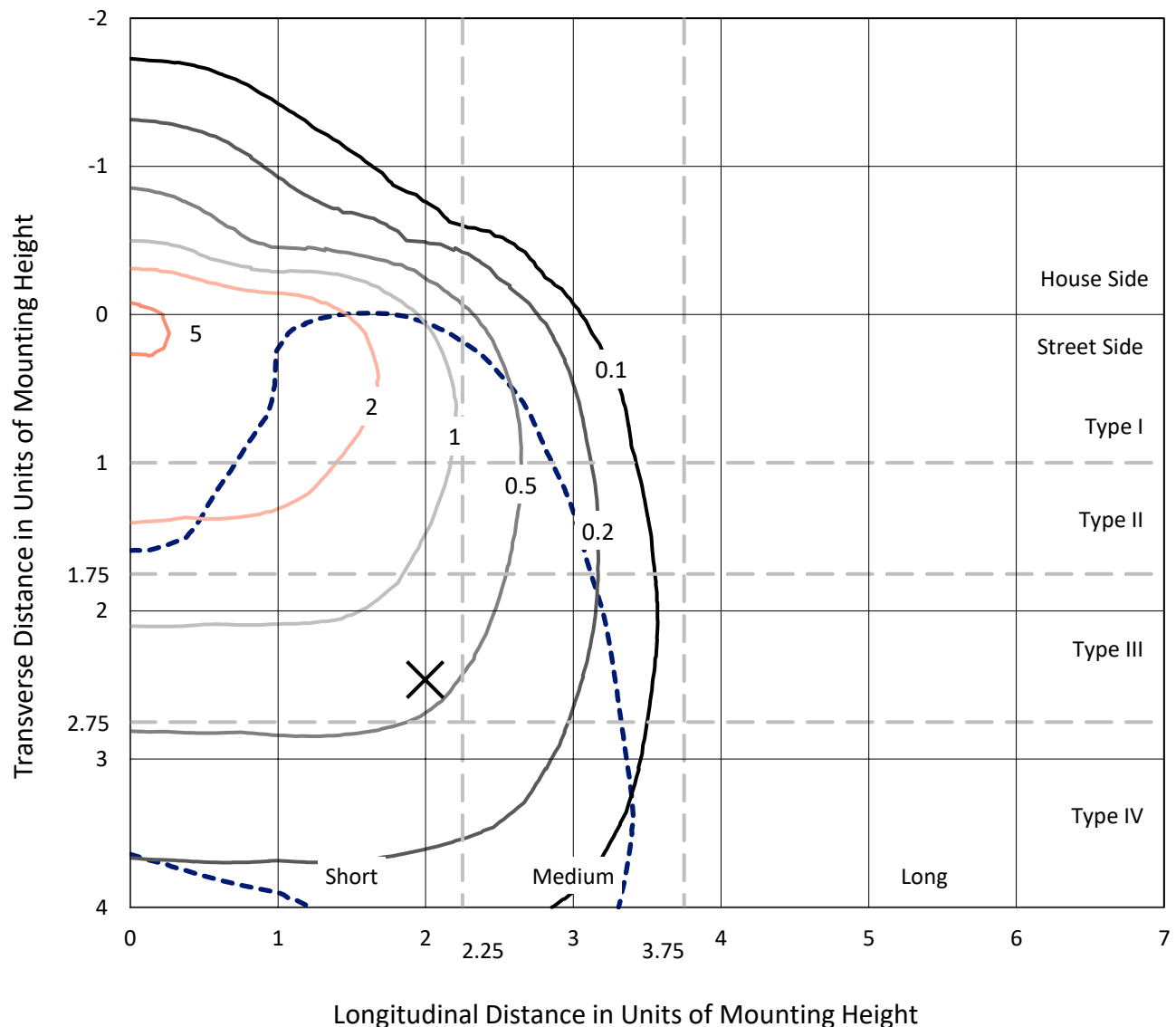
Lumens per Lamp: N/A
Luminaire Lumens: 7515.4 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

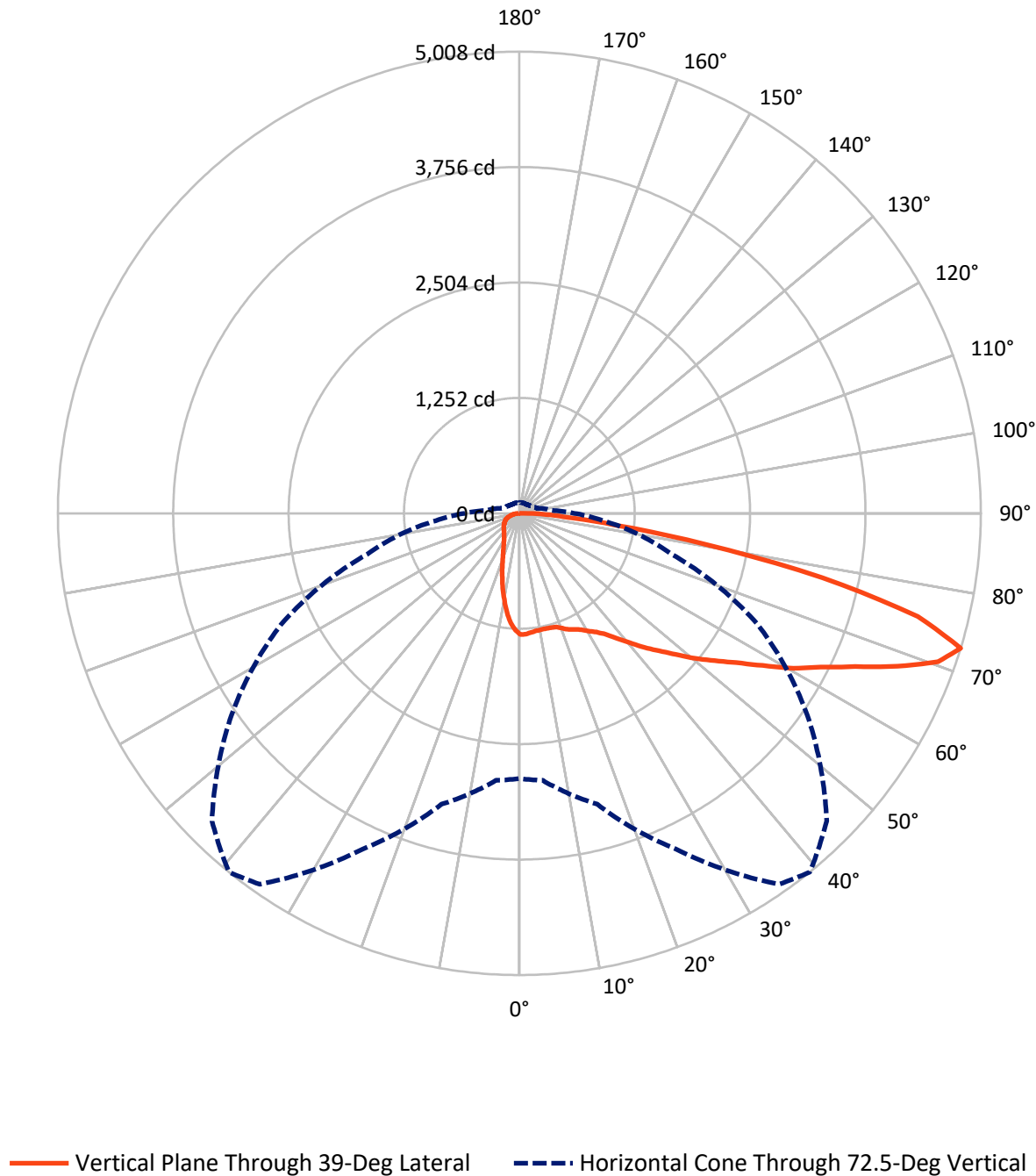
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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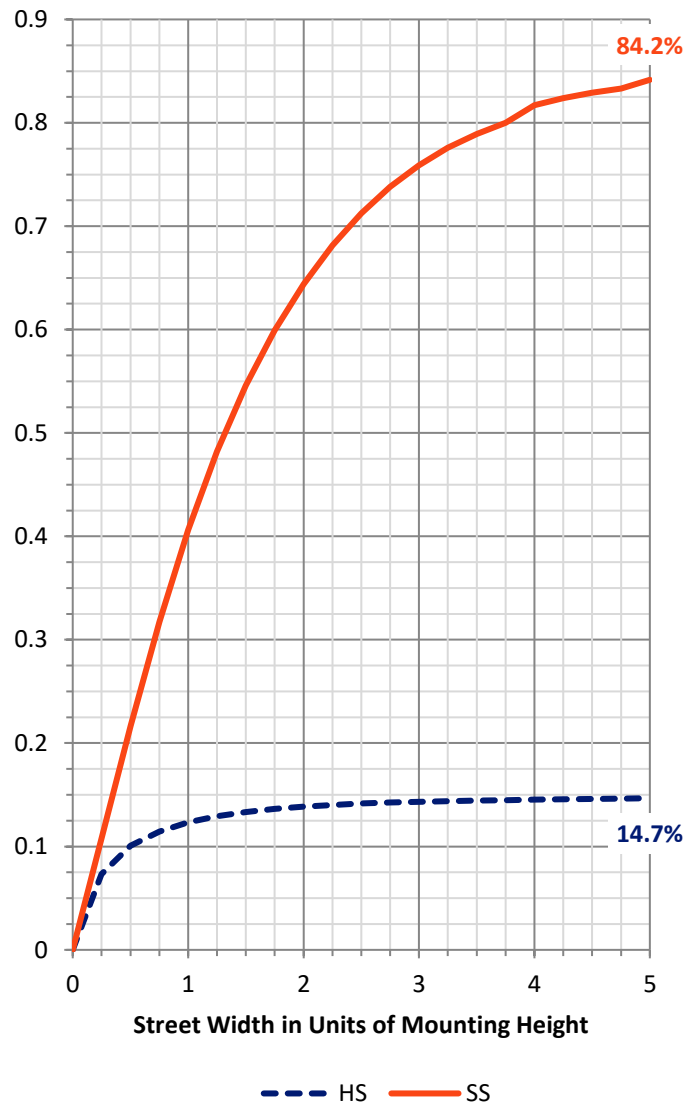
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.9	0.0	1116.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6398.4	0.0	6398.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	7515.4	0.0	7515.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	1.5
10°-20°	296.7	3.9
20°-30°	452.0	6.0
30°-40°	661.2	8.8
40°-50°	1012.3	13.5
50°-60°	1484.7	19.8
60°-70°	1893.5	25.2
70°-80°	1368.1	18.2
80°-90°	230.8	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°	7515.4	100.0
0°-180°	7515.4	100.0

Coefficient of Utilization



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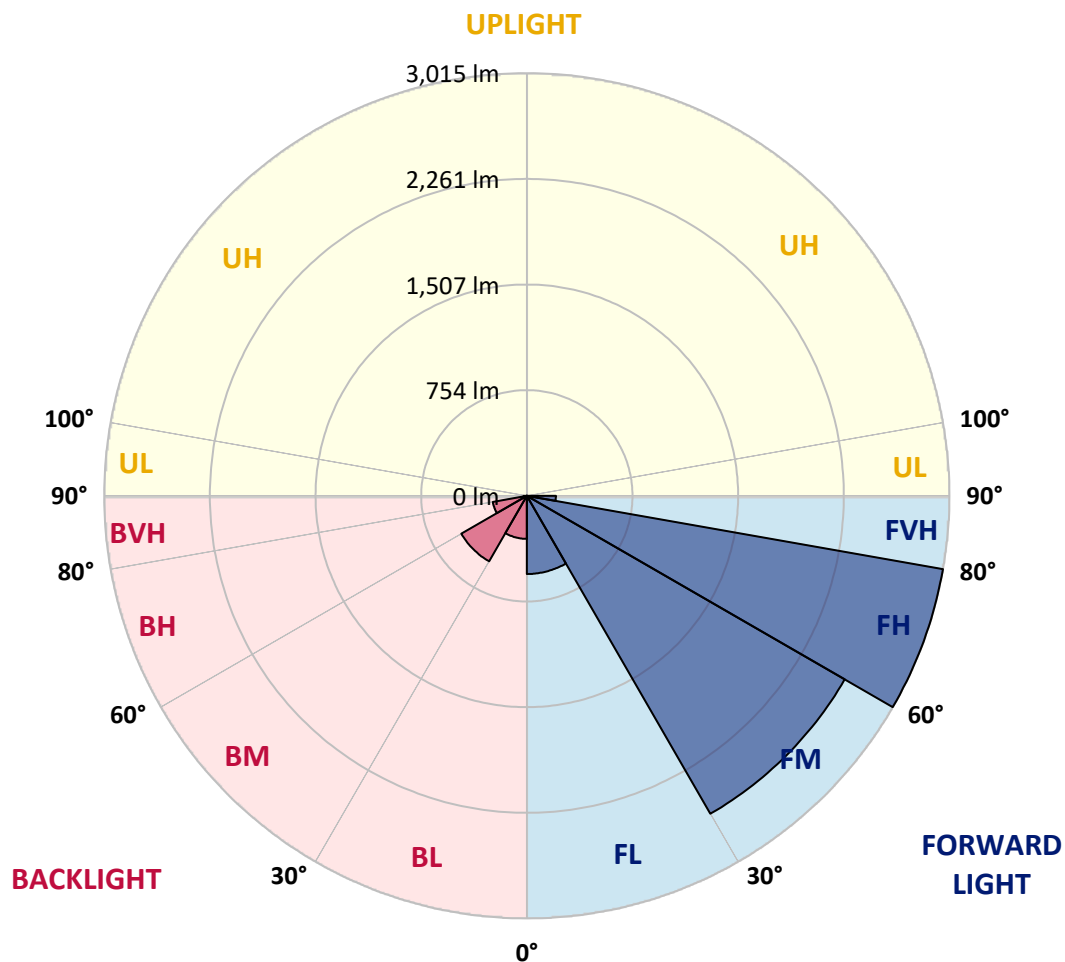
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.8	7.4			
FM	(30°-60°)	2618.5	34.8			
FH	(60°-80°)	3014.7	40.1			G2/5000
FVH	(80°-90°)	207.4	2.8			G2/225
BL	(0°-30°)	307.2	4.1	B1/500		
BM	(30°-60°)	539.6	7.2	B1/1000		
BH	(60°-80°)	246.8	3.3	B1/500		G1/500
BVH	(80°-90°)	23.4	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°	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5
2.5°	1335.3	1338.1	1332.5	1326.8	1324.0	1312.7	1324.0	1318.3	1312.7	1312.7	1312.7
5°	1318.3	1321.2	1321.2	1315.5	1318.3	1298.6	1295.8	1298.6	1290.1	1284.5	1281.6
7.5°	1292.9	1298.6	1309.9	1307.1	1295.8	1287.3	1290.1	1287.3	1273.2	1264.7	1242.1
10°	1273.2	1278.8	1284.5	1290.1	1287.3	1284.5	1281.6	1270.4	1267.5	1247.8	1225.2
12.5°	1253.4	1253.4	1256.2	1278.8	1281.6	1281.6	1264.7	1264.7	1256.2	1253.4	1219.5
15°	1233.7	1242.1	1264.7	1270.4	1281.6	1287.3	1278.8	1278.8	1264.7	1244.9	1219.5
17.5°	1239.3	1253.4	1276.0	1290.1	1295.8	1295.8	1307.1	1298.6	1278.8	1267.5	1242.1
20°	1267.5	1270.4	1298.6	1324.0	1329.6	1329.6	1318.3	1309.9	1295.8	1276.0	1242.1
22.5°	1284.5	1304.2	1338.1	1352.2	1369.2	1369.2	1355.0	1335.3	1315.5	1295.8	1259.1
25°	1357.9	1360.7	1374.8	1397.4	1405.9	1394.6	1380.5	1357.9	1332.5	1312.7	1278.8
27.5°	1408.7	1422.8	1439.7	1451.0	1436.9	1428.4	1417.2	1391.7	1372.0	1355.0	1307.1
30°	1501.8	1484.9	1496.2	1501.8	1476.4	1482.1	1451.0	1428.4	1405.9	1405.9	1352.2
32.5°	1558.3	1572.4	1561.1	1558.3	1538.5	1535.7	1516.0	1490.6	1476.4	1493.4	1420.0
35°	1657.1	1648.6	1648.6	1645.8	1623.2	1609.1	1609.1	1563.9	1578.1	1614.8	1524.4
37.5°	1707.9	1705.1	1722.0	1736.2	1713.6	1722.0	1713.6	1693.8	1699.5	1764.4	1654.3
40°	1758.7	1778.5	1812.4	1818.0	1832.1	1843.4	1837.8	1835.0	1857.5	1962.0	1829.3
42.5°	1806.7	1823.7	1874.5	1919.6	1953.5	1990.2	1993.0	1993.0	2066.4	2216.1	2041.0
45°	1868.8	1882.9	1953.5	2043.9	2100.3	2125.7	2148.3	2173.7	2272.5	2450.4	2266.9
47.5°	1953.5	1964.8	2049.5	2162.4	2272.5	2286.6	2331.8	2360.0	2509.7	2690.3	2498.4
50°	2074.9	2066.4	2134.2	2297.9	2405.2	2473.0	2537.9	2588.7	2735.5	2933.1	2679.0
52.5°	2173.7	2173.7	2224.5	2441.9	2588.7	2653.6	2721.4	2792.0	2961.3	3175.9	2825.8
55°	2343.1	2326.2	2357.2	2583.1	2794.8	2856.9	2986.7	3046.0	3209.8	3356.6	2950.0
57.5°	2458.8	2467.3	2504.0	2769.4	3037.6	3113.8	3243.6	3286.0	3430.0	3545.7	3040.4
60°	2611.3	2583.1	2662.1	2975.5	3305.7	3413.0	3520.3	3545.7	3653.0	3667.1	3082.7
62.5°	2758.1	2752.4	2820.2	3181.5	3593.7	3669.9	3780.0	3808.2	3853.4	3763.1	3023.4
65°	2848.4	2885.1	3012.2	3407.4	3921.2	4005.9	4116.0	4059.5	4008.7	3678.4	2732.7
67.5°	2972.6	2989.6	3184.4	3653.0	4299.4	4426.5	4522.5	4299.4	3921.2	3331.2	2300.8
70°	3000.9	3046.0	3300.1	3909.9	4689.0	4818.9	4824.5	4217.6	3602.2	2710.1	1668.4
72.5°	2876.6	2907.7	3266.2	4017.1	4912.0	5008.0	4717.3	3813.9	2854.1	1707.9	909.0
75°	2419.3	2506.8	2842.8	3686.9	4502.7	4466.0	3997.4	2910.5	1713.6	756.6	383.9
77.5°	1685.3	1688.2	2038.2	2681.9	3370.7	3362.2	2851.2	1688.2	734.0	304.9	225.8
80°	748.1	801.7	1013.5	1445.4	2046.7	2046.7	1662.8	838.4	367.0	197.6	155.3
82.5°	440.4	457.3	542.0	674.7	996.5	1050.2	796.1	559.0	251.2	124.2	96.0
85°	324.6	352.9	403.7	406.5	471.4	479.9	440.4	485.6	172.2	67.8	79.0
87.5°	242.8	259.7	321.8	268.2	251.2	237.1	271.0	496.9	64.9	33.9	25.4
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°	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5	1315.5
2.5°	1301.4	1301.4	1295.8	1284.5	1284.5	1261.9	1267.5	1273.2	1259.1	1259.1	1261.9
5°	1281.6	1270.4	1256.2	1239.3	1228.0	1197.0	1191.3	1171.6	1168.7	1163.1	1154.6
7.5°	1242.1	1225.2	1199.8	1174.4	1137.7	1109.4	1075.6	1047.3	1036.0	1027.6	1024.8
10°	1205.4	1202.6	1160.3	1109.4	1053.0	999.3	948.5	911.8	889.2	875.1	872.3
12.5°	1205.4	1182.8	1123.6	1053.0	971.1	892.1	827.1	776.3	745.3	722.7	714.2
15°	1199.8	1177.2	1098.2	990.9	897.7	790.4	700.1	646.5	601.3	578.7	581.5
17.5°	1205.4	1171.6	1061.5	945.7	815.9	700.1	592.8	527.9	482.7	465.8	463.0
20°	1208.2	1165.9	1033.2	883.6	731.2	601.3	499.7	437.6	403.7	392.4	392.4
22.5°	1202.6	1149.0	990.9	810.2	657.8	519.4	434.7	381.1	358.5	344.4	350.1
25°	1228.0	1146.1	951.4	748.1	573.1	451.7	386.8	347.2	333.1	324.6	327.5
27.5°	1233.7	1146.1	920.3	677.5	499.7	400.9	350.1	324.6	313.4	307.7	304.9
30°	1256.2	1151.8	883.6	606.9	440.4	361.3	321.8	307.7	299.2	296.4	296.4
32.5°	1318.3	1168.7	844.1	547.7	389.6	327.5	302.1	290.8	285.1	282.3	285.1
35°	1391.7	1213.9	801.7	485.6	352.9	304.9	285.1	276.7	273.8	273.8	273.8
37.5°	1504.7	1281.6	765.0	434.7	321.8	282.3	268.2	265.4	262.5	265.4	265.4
40°	1634.5	1355.0	731.2	395.2	299.2	268.2	254.1	254.1	251.2	254.1	256.9
42.5°	1784.1	1445.4	697.3	355.7	279.5	256.9	245.6	242.8	240.0	245.6	248.4
45°	1990.2	1569.6	674.7	333.1	265.4	245.6	234.3	234.3	231.5	231.5	237.1
47.5°	2162.4	1688.2	674.7	310.5	256.9	237.1	225.8	225.8	220.2	223.0	223.0
50°	2306.4	1789.8	688.8	304.9	245.6	228.7	220.2	214.5	211.7	211.7	211.7
52.5°	2402.4	1851.9	700.1	299.2	240.0	217.4	211.7	208.9	203.3	200.4	203.3
55°	2498.4	1894.2	702.9	299.2	231.5	206.1	200.4	200.4	194.8	192.0	192.0
57.5°	2535.1	1877.3	663.4	293.6	225.8	197.6	192.0	189.1	186.3	183.5	183.5
60°	2518.1	1815.2	575.9	279.5	220.2	192.0	180.7	180.7	180.7	175.0	177.8
62.5°	2402.4	1603.5	463.0	256.9	211.7	180.7	169.4	175.0	175.0	172.2	172.2
65°	2097.5	1324.0	375.5	237.1	200.4	172.2	160.9	169.4	172.2	169.4	166.6
67.5°	1676.9	1019.1	310.5	214.5	186.3	158.1	149.6	158.1	160.9	158.1	158.1
70°	1151.8	657.8	251.2	192.0	166.6	144.0	135.5	141.2	141.2	144.0	144.0
72.5°	595.7	355.7	206.1	163.7	144.0	129.9	121.4	121.4	118.6	118.6	118.6
75°	296.4	242.8	172.2	138.3	121.4	110.1	104.5	98.8	98.8	98.8	98.8
77.5°	206.1	186.3	141.2	110.1	98.8	90.3	90.3	81.9	81.9	81.9	81.9
80°	155.3	146.8	107.3	84.7	76.2	70.6	70.6	67.8	67.8	64.9	64.9
82.5°	110.1	118.6	81.9	62.1	56.5	53.6	53.6	50.8	50.8	45.2	45.2
85°	87.5	98.8	62.1	45.2	42.3	36.7	36.7	33.9	33.9	31.1	28.2
87.5°	25.4	53.6	25.4	16.9	16.9	16.9	16.9	14.1	14.1	11.3	11.3
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)