

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: P675664

Luminaire Tested: **CCW-SA-2E-722-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675664
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

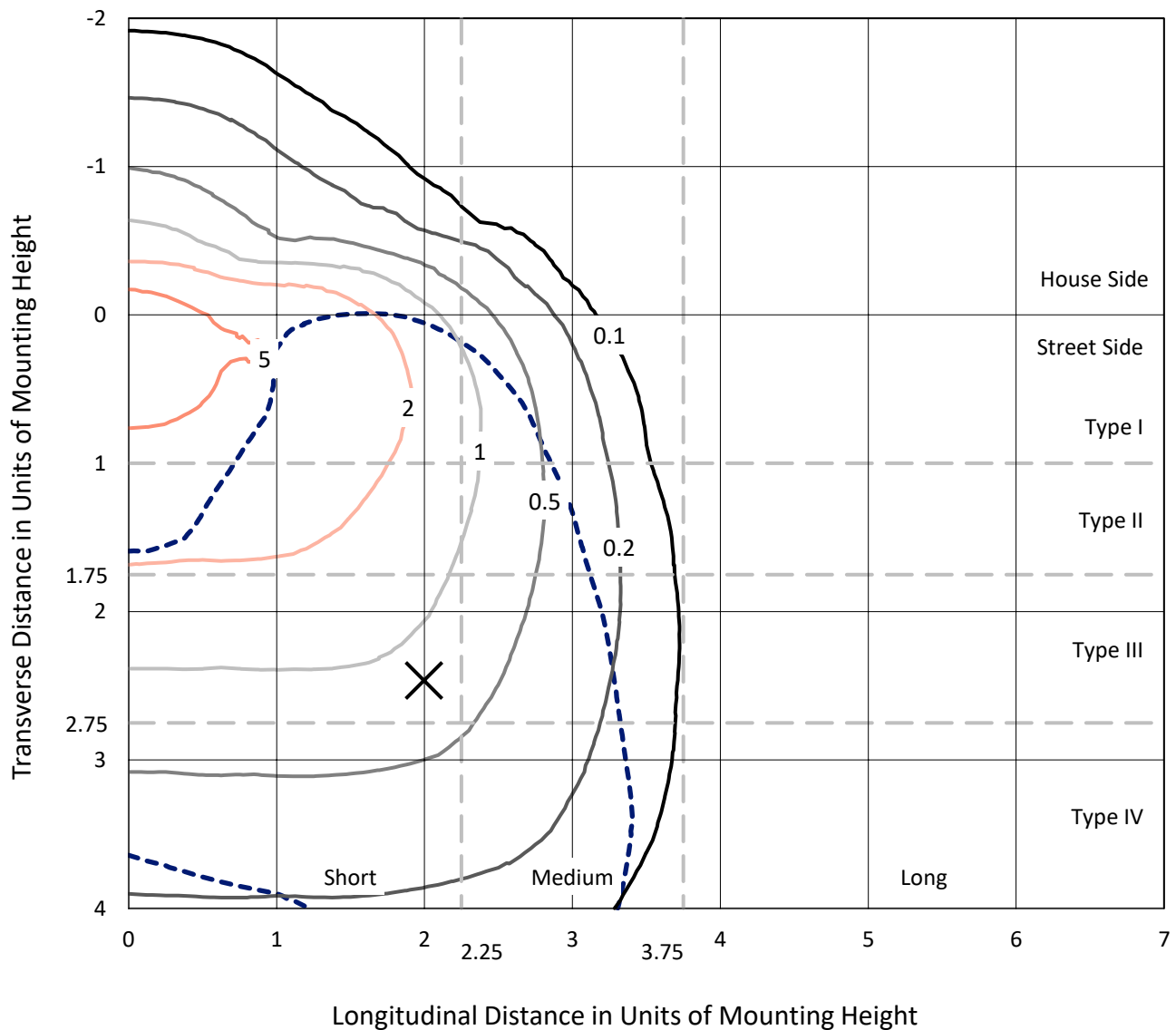
Lumens per Lamp: N/A
Luminaire Lumens: 9869.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 106.6
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

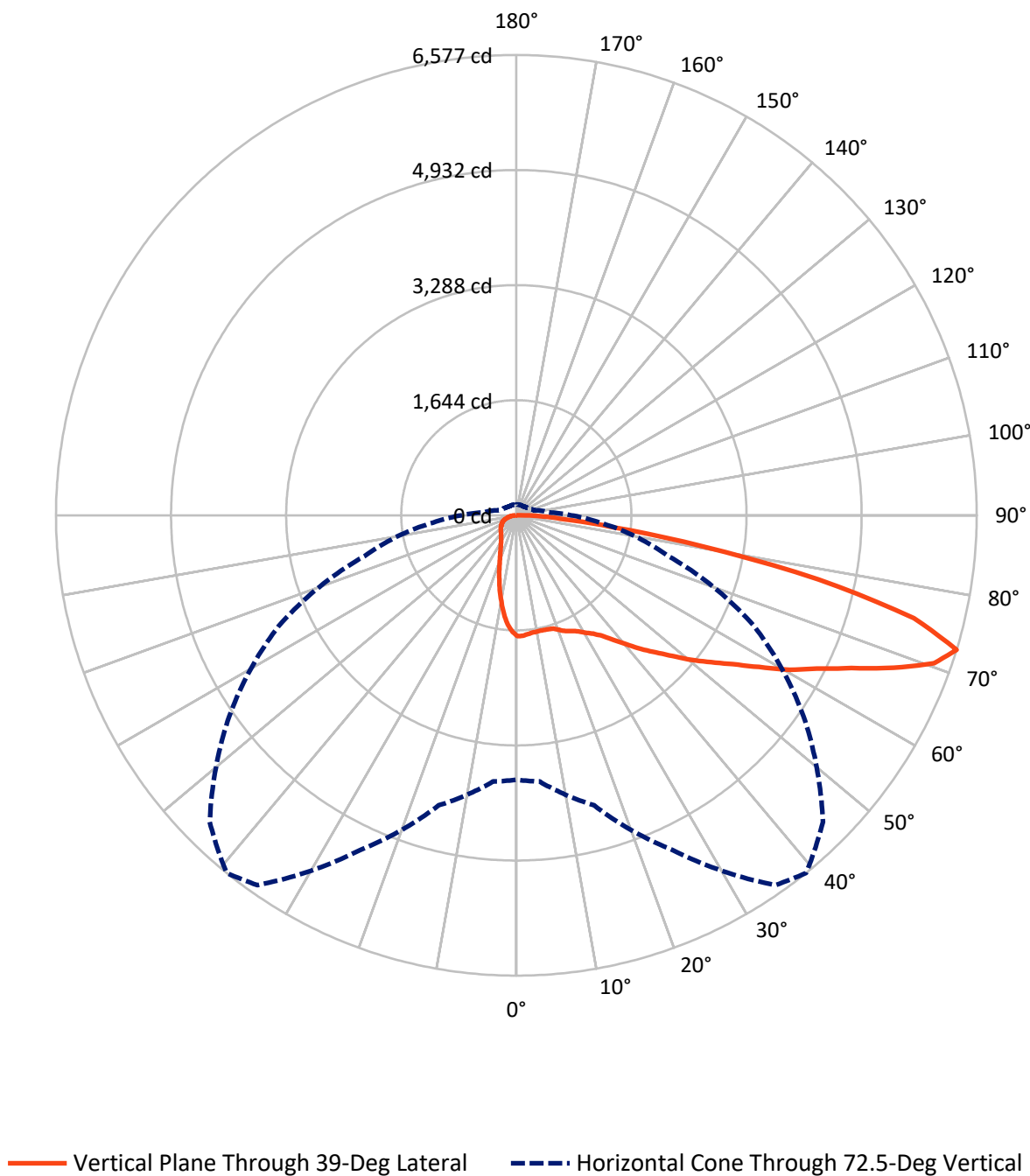
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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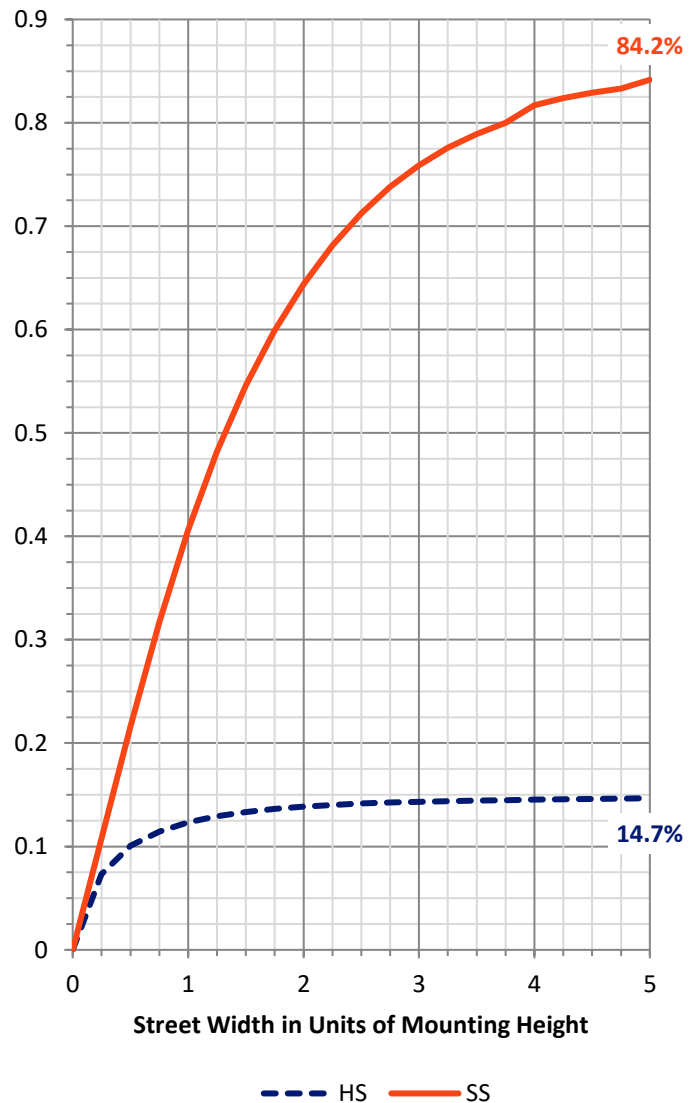
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.8	0.0	1466.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	8402.5	0.0	8402.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	9869.3	0.0	9869.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.5
10°-20°	389.6	3.9
20°-30°	593.6	6.0
30°-40°	868.3	8.8
40°-50°	1329.4	13.5
50°-60°	1949.7	19.8
60°-70°	2486.5	25.2
70°-80°	1796.6	18.2
80°-90°	303.1	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°	9869.3	100.0
0°-180°	9869.3	100.0

Coefficient of Utilization



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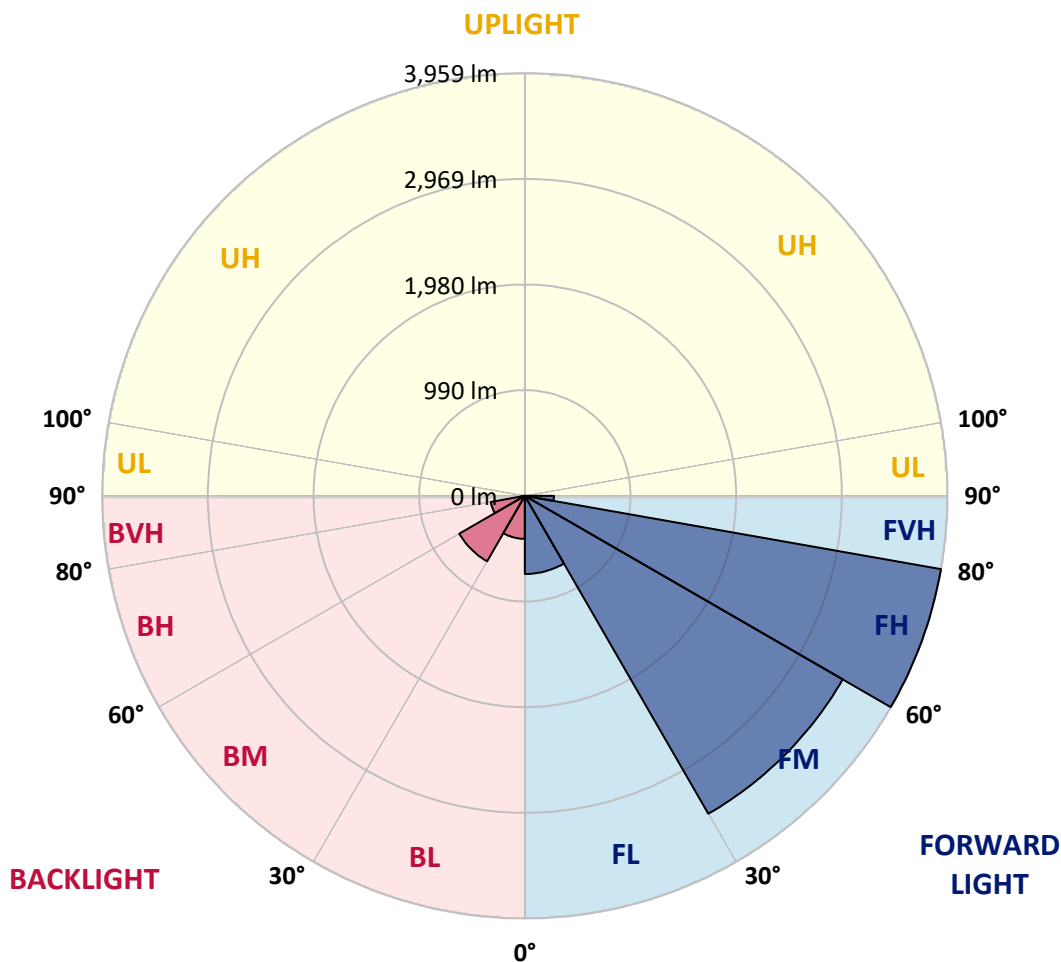
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.5	7.4			
FM	(30°-60°)	3438.7	34.8			
FH	(60°-80°)	3959.0	40.1			G2/5000
FVH	(80°-90°)	272.3	2.8			G3/500
BL	(0°-30°)	403.4	4.1	B1/500		
BM	(30°-60°)	708.6	7.2	B1/1000		
BH	(60°-80°)	324.1	3.3	B1/500		G1/500
BVH	(80°-90°)	30.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1753.5	1757.2	1749.8	1742.4	1738.7	1723.9	1738.7	1731.3	1723.9	1723.9	1723.9
5°	1731.3	1735.0	1735.0	1727.6	1731.3	1705.3	1701.6	1705.3	1694.2	1686.8	1683.1
7.5°	1697.9	1705.3	1720.2	1716.5	1701.6	1690.5	1694.2	1690.5	1672.0	1660.8	1631.2
10°	1672.0	1679.4	1686.8	1694.2	1690.5	1686.8	1683.1	1668.3	1664.5	1638.6	1608.9
12.5°	1646.0	1646.0	1649.7	1679.4	1683.1	1683.1	1660.8	1660.8	1649.7	1646.0	1601.5
15°	1620.1	1631.2	1660.8	1668.3	1683.1	1690.5	1679.4	1679.4	1660.8	1634.9	1601.5
17.5°	1627.5	1646.0	1675.7	1694.2	1701.6	1701.6	1716.5	1705.3	1679.4	1664.5	1631.2
20°	1664.5	1668.3	1705.3	1738.7	1746.1	1746.1	1731.3	1720.2	1701.6	1675.7	1631.2
22.5°	1686.8	1712.7	1757.2	1775.8	1798.0	1798.0	1779.5	1753.5	1727.6	1701.6	1653.4
25°	1783.2	1786.9	1805.4	1835.1	1846.2	1831.4	1812.8	1783.2	1749.8	1723.9	1679.4
27.5°	1849.9	1868.4	1890.7	1905.5	1887.0	1875.9	1861.0	1827.7	1801.7	1779.5	1716.5
30°	1972.3	1950.0	1964.8	1972.3	1938.9	1946.3	1905.5	1875.9	1846.2	1846.2	1775.8
32.5°	2046.4	2064.9	2050.1	2046.4	2020.4	2016.7	1990.8	1957.4	1938.9	1961.1	1864.7
35°	2176.1	2165.0	2165.0	2161.3	2131.7	2113.1	2113.1	2053.8	2072.3	2120.5	2001.9
37.5°	2242.9	2239.2	2261.4	2280.0	2250.3	2261.4	2250.3	2224.3	2231.8	2317.0	2172.4
40°	2309.6	2335.6	2380.0	2387.5	2406.0	2420.8	2413.4	2409.7	2439.4	2576.5	2402.3
42.5°	2372.6	2394.9	2461.6	2520.9	2565.4	2613.6	2617.3	2617.3	2713.7	2910.2	2680.3
45°	2454.2	2472.7	2565.4	2684.0	2758.2	2791.5	2821.2	2854.6	2984.3	3217.9	2976.9
47.5°	2565.4	2580.2	2691.5	2839.7	2984.3	3002.9	3062.2	3099.3	3295.7	3533.0	3280.9
50°	2724.8	2713.7	2802.7	3017.7	3158.6	3247.5	3332.8	3399.5	3592.3	3851.8	3518.2
52.5°	2854.6	2854.6	2921.3	3206.8	3399.5	3484.8	3573.8	3666.5	3888.9	4170.6	3710.9
55°	3077.0	3054.8	3095.5	3392.1	3670.2	3751.7	3922.3	4000.1	4215.1	4407.9	3874.1
57.5°	3229.0	3240.1	3288.3	3636.8	3989.0	4089.1	4259.6	4315.2	4504.3	4656.3	3992.7
60°	3429.2	3392.1	3495.9	3907.4	4341.2	4482.0	4622.9	4656.3	4797.2	4815.7	4048.3
62.5°	3622.0	3614.6	3703.5	4178.1	4719.3	4819.4	4964.0	5001.1	5060.4	4941.7	3970.5
65°	3740.6	3788.8	3955.6	4474.6	5149.4	5260.6	5405.2	5331.0	5264.3	4830.5	3588.6
67.5°	3903.7	3926.0	4181.8	4797.2	5646.1	5812.9	5939.0	5646.1	5149.4	4374.5	3021.4
70°	3940.8	4000.1	4333.8	5134.5	6157.7	6328.3	6335.7	5538.6	4730.4	3558.9	2191.0
72.5°	3777.7	3818.5	4289.3	5275.4	6450.6	6576.6	6194.8	5008.5	3748.0	2242.9	1193.7
75°	3177.1	3292.0	3733.2	4841.7	5913.0	5864.8	5249.4	3822.2	2250.3	993.5	504.2
77.5°	2213.2	2216.9	2676.6	3521.9	4426.4	4415.3	3744.3	2216.9	963.9	400.4	296.6
80°	982.4	1052.9	1330.9	1898.1	2687.7	2687.7	2183.6	1101.0	481.9	259.5	203.9
82.5°	578.3	600.6	711.8	886.0	1308.7	1379.1	1045.4	734.0	329.9	163.1	126.0
85°	426.3	463.4	530.1	533.8	619.1	630.2	578.3	637.6	226.1	89.0	103.8
87.5°	318.8	341.1	422.6	352.2	329.9	311.4	355.9	652.5	85.3	44.5	33.4
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°	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1709.0	1709.0	1701.6	1686.8	1686.8	1657.1	1664.5	1672.0	1653.4	1653.4	1657.1
5°	1683.1	1668.3	1649.7	1627.5	1612.6	1571.9	1564.5	1538.5	1534.8	1527.4	1516.3
7.5°	1631.2	1608.9	1575.6	1542.2	1494.0	1456.9	1412.5	1375.4	1360.6	1349.4	1345.7
10°	1583.0	1579.3	1523.7	1456.9	1382.8	1312.4	1245.6	1197.4	1167.8	1149.2	1145.5
12.5°	1583.0	1553.3	1475.5	1382.8	1275.3	1171.5	1086.2	1019.5	978.7	949.1	937.9
15°	1575.6	1545.9	1442.1	1301.2	1178.9	1038.0	919.4	849.0	789.6	760.0	763.7
17.5°	1583.0	1538.5	1393.9	1241.9	1071.4	919.4	778.5	693.3	633.9	611.7	608.0
20°	1586.7	1531.1	1356.8	1160.4	960.2	789.6	656.2	574.6	530.1	515.3	515.3
22.5°	1579.3	1508.8	1301.2	1064.0	863.8	682.1	570.9	500.5	470.8	452.3	459.7
25°	1612.6	1505.1	1249.3	982.4	752.6	593.2	507.9	456.0	437.5	426.3	430.0
27.5°	1620.1	1505.1	1208.6	889.7	656.2	526.4	459.7	426.3	411.5	404.1	400.4
30°	1649.7	1512.6	1160.4	797.1	578.3	474.5	422.6	404.1	393.0	389.3	389.3
32.5°	1731.3	1534.8	1108.5	719.2	511.6	430.0	396.7	381.8	374.4	370.7	374.4
35°	1827.7	1594.1	1052.9	637.6	463.4	400.4	374.4	363.3	359.6	359.6	359.6
37.5°	1976.0	1683.1	1004.7	570.9	422.6	370.7	352.2	348.5	344.8	348.5	348.5
40°	2146.5	1779.5	960.2	519.0	393.0	352.2	333.7	333.7	329.9	333.7	337.4
42.5°	2343.0	1898.1	915.7	467.1	367.0	337.4	322.5	318.8	315.1	322.5	326.2
45°	2613.6	2061.2	886.0	437.5	348.5	322.5	307.7	307.7	304.0	304.0	311.4
47.5°	2839.7	2216.9	886.0	407.8	337.4	311.4	296.6	296.6	289.2	292.9	292.9
50°	3028.8	2350.4	904.6	400.4	322.5	300.3	289.2	281.8	278.0	278.0	278.0
52.5°	3154.9	2431.9	919.4	393.0	315.1	285.5	278.0	274.3	266.9	263.2	266.9
55°	3280.9	2487.6	923.1	393.0	304.0	270.6	263.2	263.2	255.8	252.1	252.1
57.5°	3329.1	2465.3	871.2	385.6	296.6	259.5	252.1	248.4	244.7	241.0	241.0
60°	3306.9	2383.8	756.3	367.0	289.2	252.1	237.3	237.3	237.3	229.8	233.6
62.5°	3154.9	2105.7	608.0	337.4	278.0	237.3	222.4	229.8	229.8	226.1	226.1
65°	2754.5	1738.7	493.1	311.4	263.2	226.1	211.3	222.4	226.1	222.4	218.7
67.5°	2202.1	1338.3	407.8	281.8	244.7	207.6	196.5	207.6	211.3	207.6	207.6
70°	1512.6	863.8	329.9	252.1	218.7	189.1	177.9	185.4	185.4	189.1	189.1
72.5°	782.2	467.1	270.6	215.0	189.1	170.5	159.4	159.4	155.7	155.7	155.7
75°	389.3	318.8	226.1	181.7	159.4	144.6	137.2	129.8	129.8	129.8	129.8
77.5°	270.6	244.7	185.4	144.6	129.8	118.6	118.6	107.5	107.5	107.5	107.5
80°	203.9	192.8	140.9	111.2	100.1	92.7	92.7	89.0	89.0	85.3	85.3
82.5°	144.6	155.7	107.5	81.6	74.1	70.4	70.4	66.7	66.7	59.3	59.3
85°	114.9	129.8	81.6	59.3	55.6	48.2	48.2	44.5	44.5	40.8	37.1
87.5°	33.4	70.4	33.4	22.2	22.2	22.2	22.2	18.5	18.5	14.8	14.8
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)