

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: P671521

Luminaire Tested: **CCP-SA-2D-730-U-SL4**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671521
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-730-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL4
distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

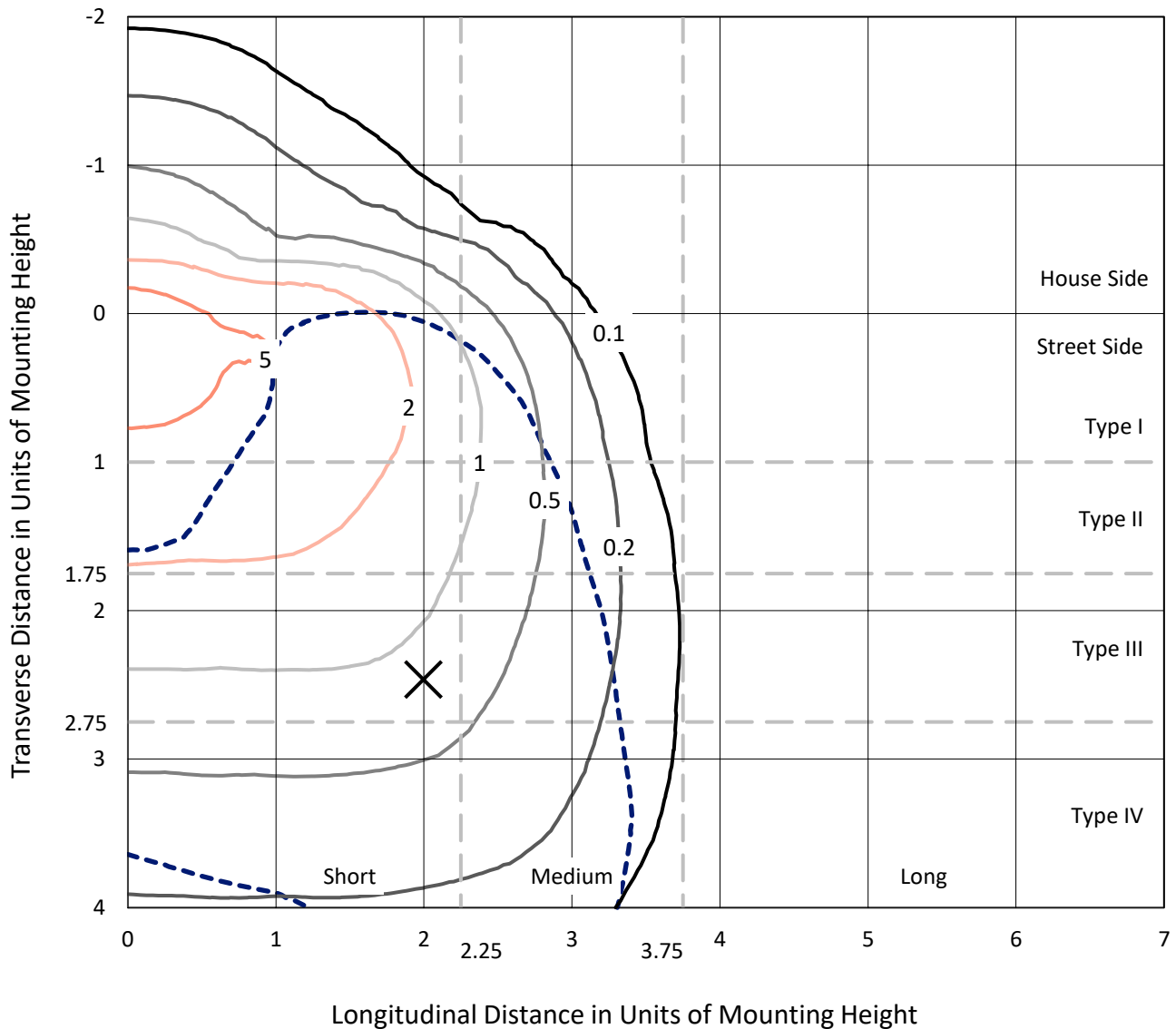
Lumens per Lamp: N/A
Luminaire Lumens: 9951.8 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

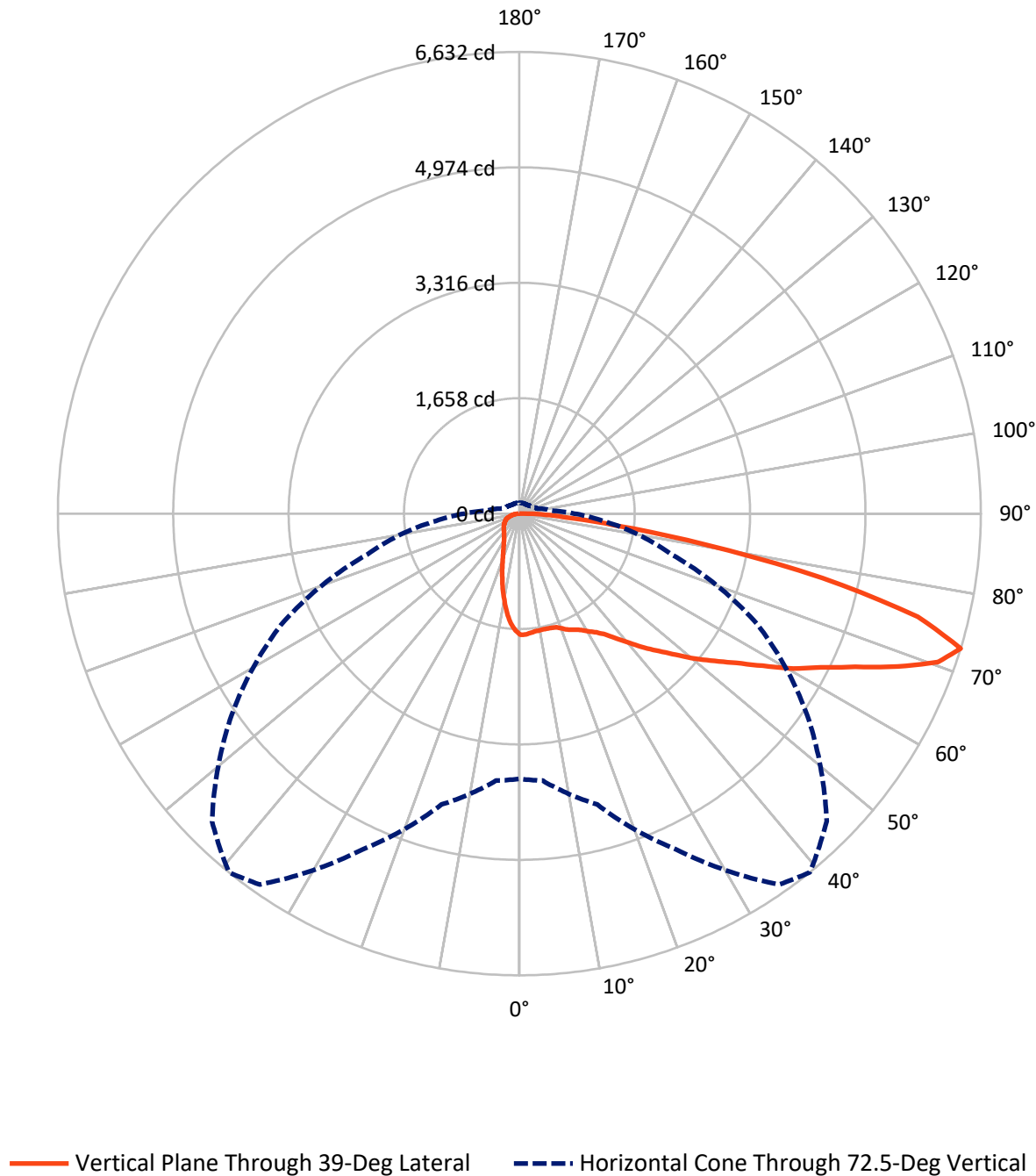
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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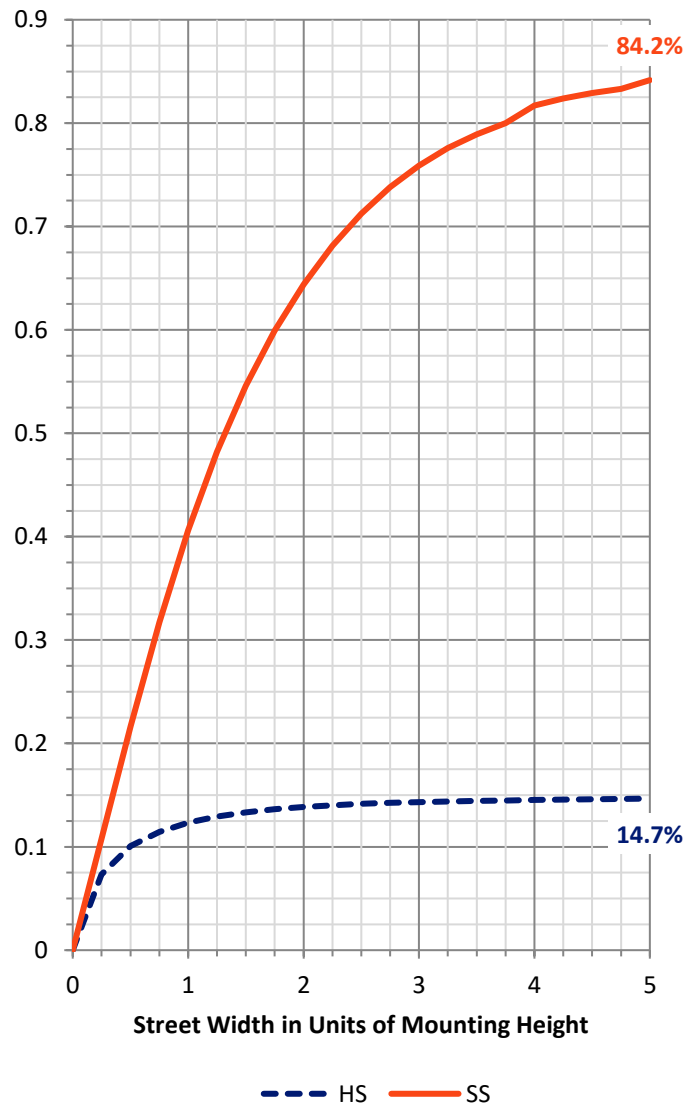
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.0	0.0	1479.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	8472.8	0.0	8472.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	9951.8	0.0	9951.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.5
10°-20°	392.9	3.9
20°-30°	598.5	6.0
30°-40°	875.5	8.8
40°-50°	1340.5	13.5
50°-60°	1966.0	19.8
60°-70°	2507.3	25.2
70°-80°	1811.6	18.2
80°-90°	305.6	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°	9951.8	100.0
0°-180°	9951.8	100.0

Coefficient of Utilization



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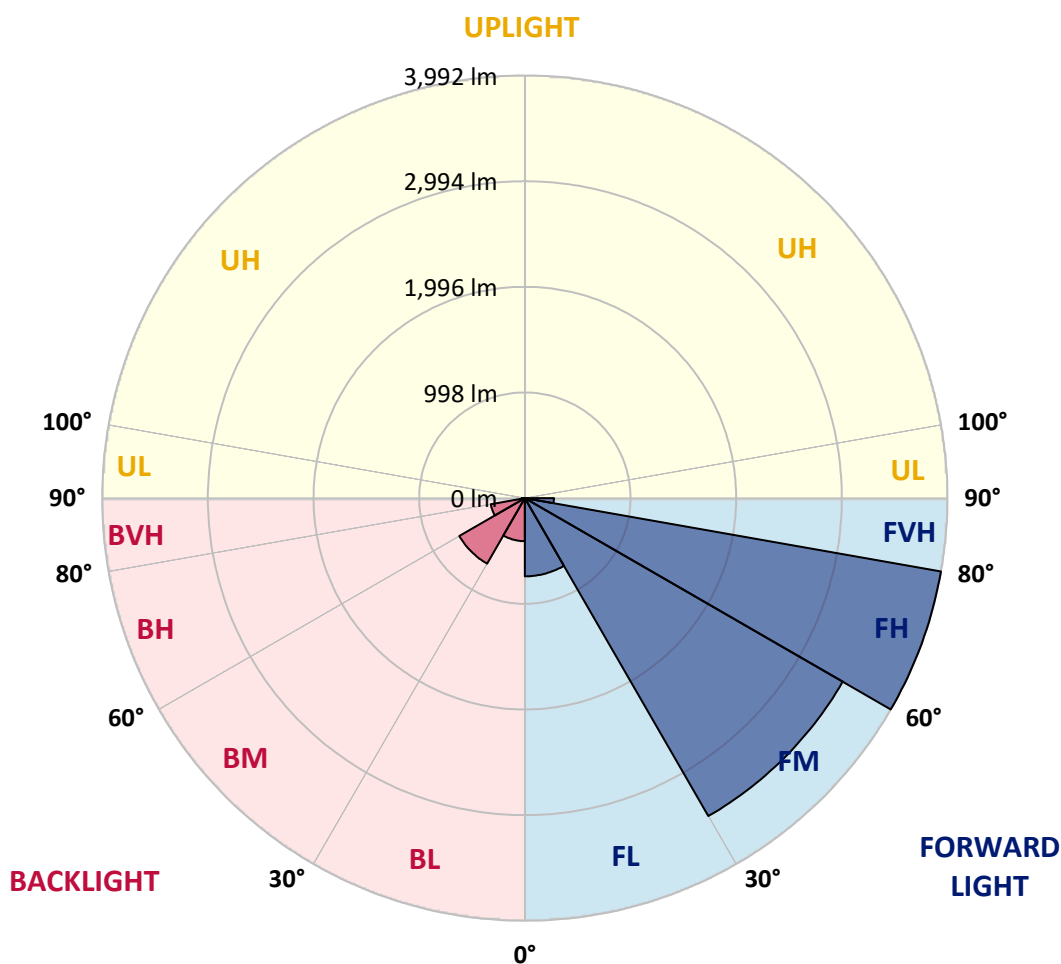
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.6	7.4			
FM	(30°-60°)	3467.5	34.8			
FH	(60°-80°)	3992.1	40.1			G2/5000
FVH	(80°-90°)	274.6	2.8			G3/500
BL	(0°-30°)	406.8	4.1	B1/500		
BM	(30°-60°)	714.5	7.2	B1/1000		
BH	(60°-80°)	326.8	3.3	B1/500		G1/500
BVH	(80°-90°)	31.0	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°	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1768.2	1771.9	1764.4	1757.0	1753.2	1738.3	1753.2	1745.7	1738.3	1738.3	1738.3
5°	1745.7	1749.5	1749.5	1742.0	1745.7	1719.6	1715.8	1719.6	1708.4	1700.9	1697.1
7.5°	1712.1	1719.6	1734.5	1730.8	1715.8	1704.6	1708.4	1704.6	1685.9	1674.7	1644.8
10°	1685.9	1693.4	1700.9	1708.4	1704.6	1700.9	1697.1	1682.2	1678.5	1652.3	1622.4
12.5°	1659.8	1659.8	1663.5	1693.4	1697.1	1697.1	1674.7	1674.7	1663.5	1659.8	1614.9
15°	1633.6	1644.8	1674.7	1682.2	1697.1	1704.6	1693.4	1693.4	1674.7	1648.6	1614.9
17.5°	1641.1	1659.8	1689.7	1708.4	1715.8	1715.8	1730.8	1719.6	1693.4	1678.5	1644.8
20°	1678.5	1682.2	1719.6	1753.2	1760.7	1760.7	1745.7	1734.5	1715.8	1689.7	1644.8
22.5°	1700.9	1727.1	1771.9	1790.6	1813.0	1813.0	1794.3	1768.2	1742.0	1715.8	1667.2
25°	1798.1	1801.8	1820.5	1850.4	1861.6	1846.7	1828.0	1798.1	1764.4	1738.3	1693.4
27.5°	1865.4	1884.1	1906.5	1921.4	1902.7	1891.5	1876.6	1842.9	1816.8	1794.3	1730.8
30°	1988.7	1966.3	1981.3	1988.7	1955.1	1962.6	1921.4	1891.5	1861.6	1861.6	1790.6
32.5°	2063.5	2082.2	2067.2	2063.5	2037.3	2033.6	2007.4	1973.8	1955.1	1977.5	1880.3
35°	2194.3	2183.1	2183.1	2179.4	2149.5	2130.8	2130.8	2071.0	2089.7	2138.3	2018.6
37.5°	2261.6	2257.9	2280.3	2299.0	2269.1	2280.3	2269.1	2242.9	2250.4	2336.4	2190.6
40°	2328.9	2355.1	2399.9	2407.4	2426.1	2441.1	2433.6	2429.8	2459.7	2598.1	2422.4
42.5°	2392.5	2414.9	2482.2	2542.0	2586.8	2635.4	2639.2	2639.2	2736.4	2934.5	2702.7
45°	2474.7	2493.4	2586.8	2706.5	2781.2	2814.9	2844.8	2878.4	3009.3	3244.8	3001.8
47.5°	2586.8	2601.8	2713.9	2863.5	3009.3	3028.0	3087.8	3125.1	3323.3	3562.5	3308.3
50°	2747.6	2736.4	2826.1	3042.9	3185.0	3274.7	3360.7	3427.9	3622.3	3884.0	3547.6
52.5°	2878.4	2878.4	2945.7	3233.6	3427.9	3513.9	3603.6	3697.1	3921.4	4205.5	3741.9
55°	3102.7	3080.3	3121.4	3420.5	3700.8	3783.1	3955.0	4033.5	4250.3	4444.7	3906.4
57.5°	3256.0	3267.2	3315.8	3667.2	4022.3	4123.2	4295.2	4351.3	4541.9	4695.2	4026.1
60°	3457.8	3420.5	3525.1	3940.1	4377.4	4519.5	4661.5	4695.2	4837.2	4855.9	4082.1
62.5°	3652.2	3644.8	3734.5	4213.0	4758.7	4859.7	5005.5	5042.8	5102.7	4983.0	4003.6
65°	3771.9	3820.5	3988.7	4512.0	5192.4	5304.5	5450.3	5375.5	5308.3	4870.9	3618.6
67.5°	3936.3	3958.8	4216.7	4837.2	5693.3	5861.5	5988.6	5693.3	5192.4	4411.1	3046.6
70°	3973.7	4033.5	4370.0	5177.4	6209.2	6381.1	6388.6	5584.9	4770.0	3588.7	2209.3
72.5°	3809.2	3850.4	4325.1	5319.5	6504.5	6631.6	6246.5	5050.3	3779.3	2261.6	1203.7
75°	3203.6	3319.5	3764.4	4882.1	5962.4	5913.8	5293.3	3854.1	2269.1	1001.8	508.4
77.5°	2231.7	2235.4	2699.0	3551.3	4463.4	4452.2	3775.6	2235.4	971.9	403.7	299.1
80°	990.6	1061.7	1342.0	1914.0	2710.2	2710.2	2201.8	1110.2	486.0	261.7	205.6
82.5°	583.2	605.6	717.7	893.4	1319.6	1390.6	1054.2	740.2	332.7	164.5	127.1
85°	429.9	467.3	534.6	538.3	624.3	635.5	583.2	643.0	228.0	89.7	104.7
87.5°	321.5	343.9	426.2	355.1	332.7	314.0	358.9	657.9	86.0	44.9	33.6
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°	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1723.3	1723.3	1715.8	1700.9	1700.9	1671.0	1678.5	1685.9	1667.2	1667.2	1671.0
5°	1697.1	1682.2	1663.5	1641.1	1626.1	1585.0	1577.5	1551.4	1547.6	1540.1	1528.9
7.5°	1644.8	1622.4	1588.7	1555.1	1506.5	1469.1	1424.3	1386.9	1371.9	1360.7	1357.0
10°	1596.2	1592.5	1536.4	1469.1	1394.4	1323.3	1256.0	1207.4	1177.5	1158.8	1155.1
12.5°	1596.2	1566.3	1487.8	1394.4	1285.9	1181.3	1095.3	1028.0	986.9	957.0	945.8
15°	1588.7	1558.8	1454.2	1312.1	1188.8	1046.7	927.1	856.1	796.2	766.3	770.1
17.5°	1596.2	1551.4	1405.6	1252.3	1080.3	927.1	785.0	699.0	639.2	616.8	613.1
20°	1600.0	1543.9	1368.2	1170.1	968.2	796.2	661.7	579.4	534.6	519.6	519.6
22.5°	1592.5	1521.5	1312.1	1072.9	871.0	687.8	575.7	504.7	474.8	456.1	463.5
25°	1626.1	1517.7	1259.8	990.6	758.9	598.1	512.1	459.8	441.1	429.9	433.6
27.5°	1633.6	1517.7	1218.7	897.2	661.7	530.8	463.5	429.9	414.9	407.5	403.7
30°	1663.5	1525.2	1170.1	803.7	583.2	478.5	426.2	407.5	396.3	392.5	392.5
32.5°	1745.7	1547.6	1117.7	725.2	515.9	433.6	400.0	385.0	377.6	373.8	377.6
35°	1842.9	1607.4	1061.7	643.0	467.3	403.7	377.6	366.3	362.6	362.6	362.6
37.5°	1992.5	1697.1	1013.1	575.7	426.2	373.8	355.1	351.4	347.7	351.4	351.4
40°	2164.4	1794.3	968.2	523.3	396.3	355.1	336.4	336.4	332.7	336.4	340.2
42.5°	2362.5	1914.0	923.3	471.0	370.1	340.2	325.2	321.5	317.7	325.2	329.0
45°	2635.4	2078.4	893.4	441.1	351.4	325.2	310.3	310.3	306.5	306.5	314.0
47.5°	2863.5	2235.4	893.4	411.2	340.2	314.0	299.1	299.1	291.6	295.3	295.3
50°	3054.1	2370.0	912.1	403.7	325.2	302.8	291.6	284.1	280.4	280.4	280.4
52.5°	3181.2	2452.3	927.1	396.3	317.7	287.8	280.4	276.6	269.2	265.4	269.2
55°	3308.3	2508.3	930.8	396.3	306.5	272.9	265.4	265.4	257.9	254.2	254.2
57.5°	3356.9	2485.9	878.5	388.8	299.1	261.7	254.2	250.5	246.7	243.0	243.0
60°	3334.5	2403.7	762.6	370.1	291.6	254.2	239.2	239.2	239.2	231.8	235.5
62.5°	3181.2	2123.3	613.1	340.2	280.4	239.2	224.3	231.8	231.8	228.0	228.0
65°	2777.5	1753.2	497.2	314.0	265.4	228.0	213.1	224.3	228.0	224.3	220.6
67.5°	2220.5	1349.5	411.2	284.1	246.7	209.3	198.1	209.3	213.1	209.3	209.3
70°	1525.2	871.0	332.7	254.2	220.6	190.6	179.4	186.9	186.9	190.6	190.6
72.5°	788.8	471.0	272.9	216.8	190.6	172.0	160.7	160.7	157.0	157.0	157.0
75°	392.5	321.5	228.0	183.2	160.7	145.8	138.3	130.8	130.8	130.8	130.8
77.5°	272.9	246.7	186.9	145.8	130.8	119.6	119.6	108.4	108.4	108.4	108.4
80°	205.6	194.4	142.1	112.1	100.9	93.5	93.5	89.7	89.7	86.0	86.0
82.5°	145.8	157.0	108.4	82.2	74.8	71.0	71.0	67.3	67.3	59.8	59.8
85°	115.9	130.8	82.2	59.8	56.1	48.6	48.6	44.9	44.9	41.1	37.4
87.5°	33.6	71.0	33.6	22.4	22.4	22.4	22.4	18.7	18.7	15.0	15.0
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)