

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: P675463

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

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675463
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

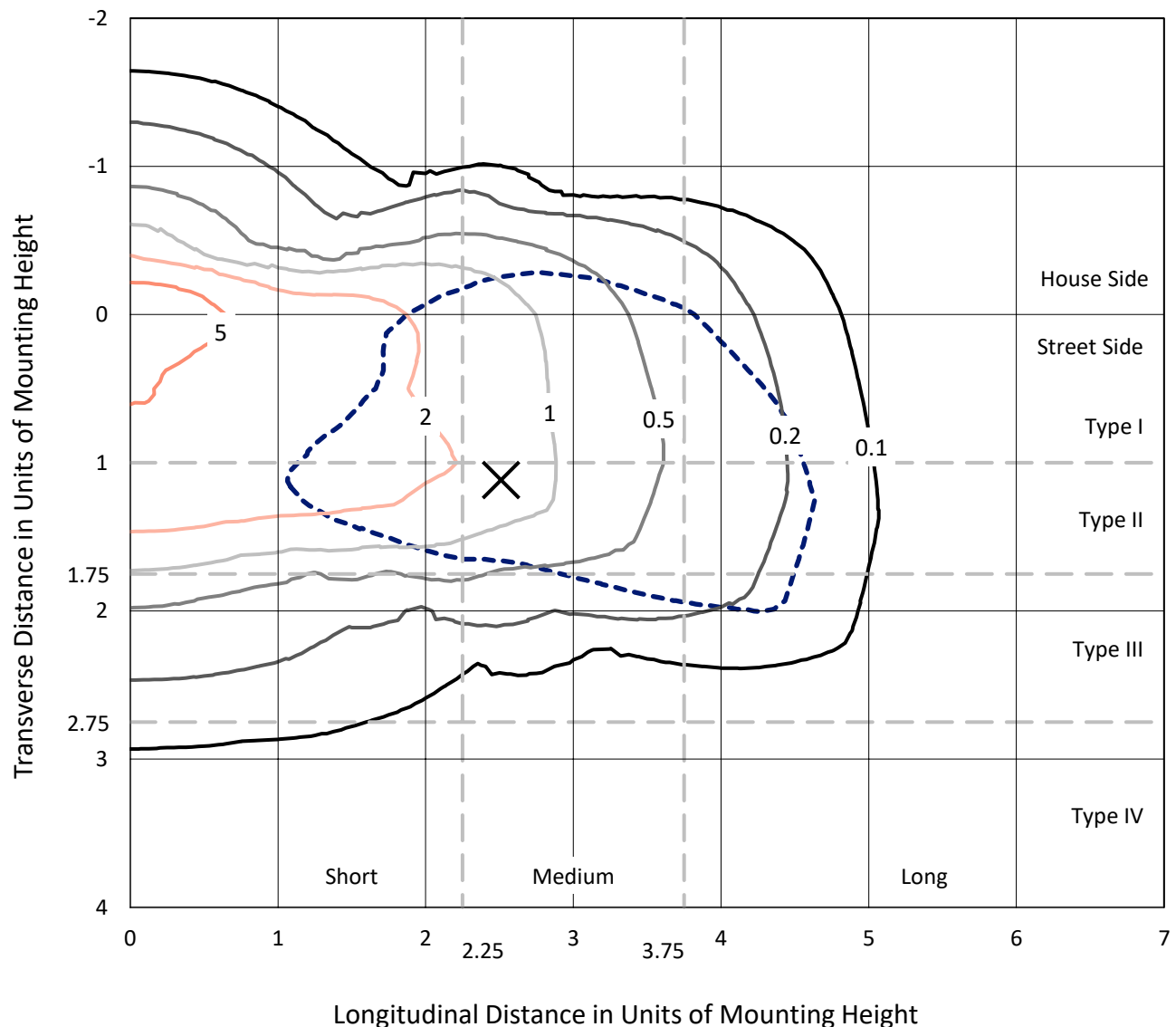
Lumens per Lamp: N/A
Luminaire Lumens: 8770.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

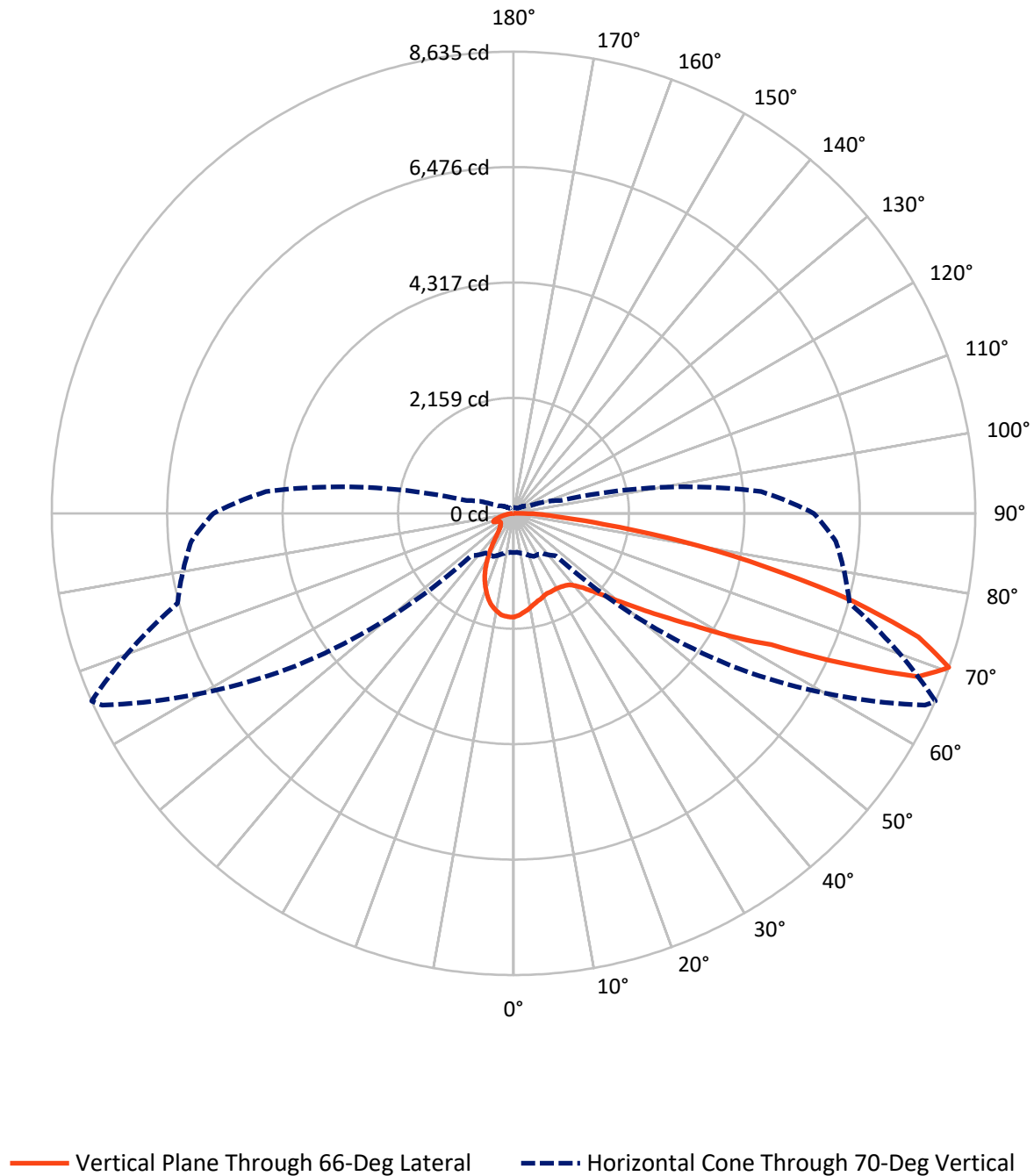
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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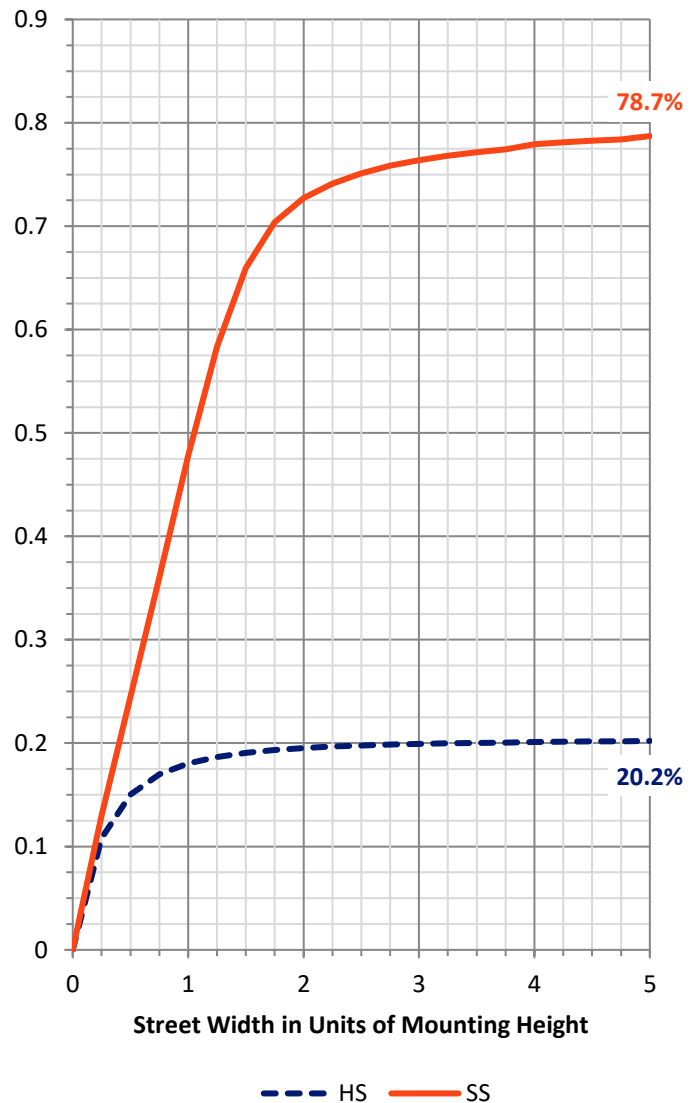
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.2	0.0	1795.2
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	6975.4	0.0	6975.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	8770.6	0.0	8770.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	2.0
10°-20°	421.8	4.8
20°-30°	579.3	6.6
30°-40°	776.6	8.9
40°-50°	1126.8	12.8
50°-60°	1712.8	19.5
60°-70°	2115.4	24.1
70°-80°	1573.1	17.9
80°-90°	293.4	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°	8770.6	100.0
0°-180°	8770.6	100.0

Coefficient of Utilization



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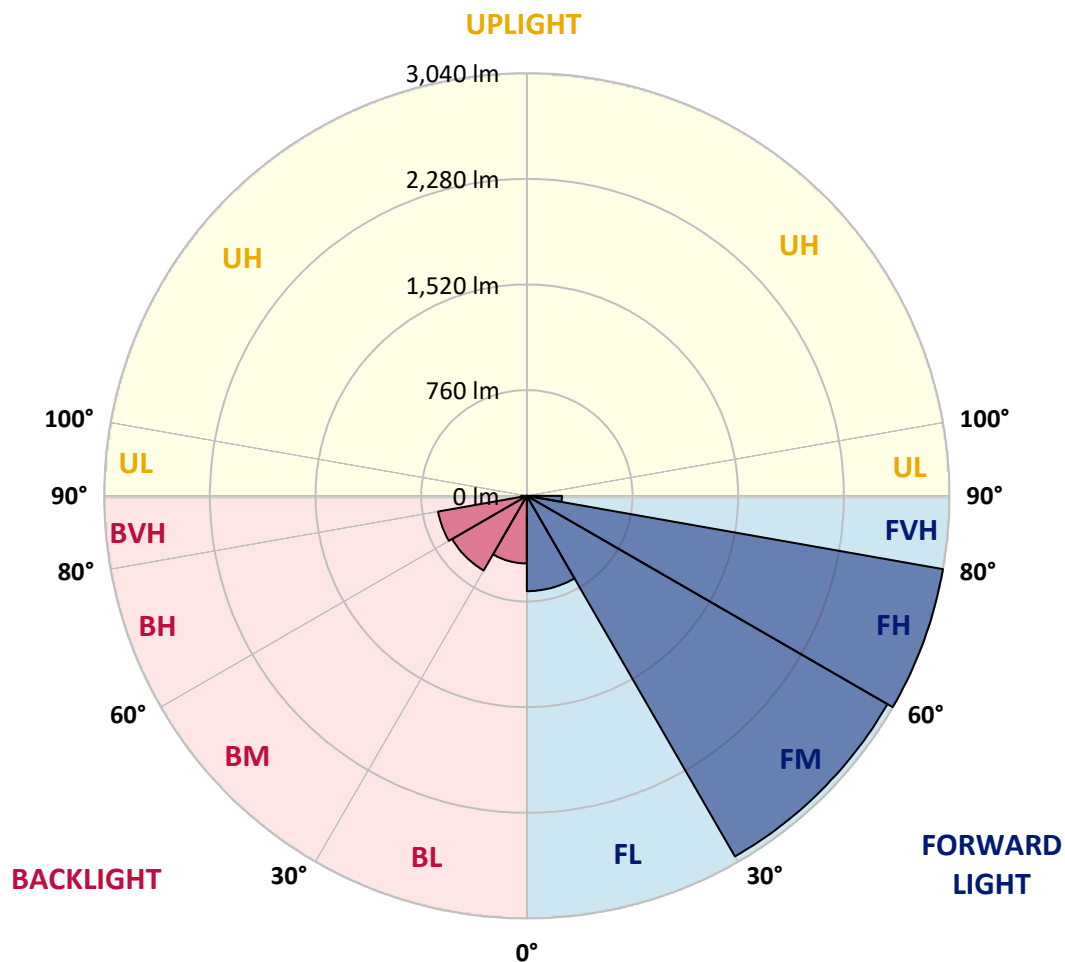
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.8	7.8			
FM	(30°-60°)	2996.2	34.2			
FH	(60°-80°)	3040.5	34.7			G2/5000
FVH	(80°-90°)	252.9	2.9			G3/500
BL	(0°-30°)	486.6	5.5	B1/500		
BM	(30°-60°)	620.1	7.1	B1/1000		
BH	(60°-80°)	648.1	7.4	B2/1000		G2/1000
BVH	(80°-90°)	40.5	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7
2.5°	1843.1	1852.9	1856.1	1862.7	1879.0	1892.0	1911.6	1921.4	1911.6	1924.7	1924.7
5°	1715.9	1702.8	1735.5	1748.5	1768.1	1794.2	1839.8	1875.7	1865.9	1905.1	1937.7
7.5°	1608.2	1608.2	1618.0	1647.4	1670.2	1709.4	1758.3	1813.7	1830.1	1882.2	1931.2
10°	1510.4	1523.4	1523.4	1569.1	1582.1	1627.8	1709.4	1777.9	1781.1	1869.2	1937.7
12.5°	1458.2	1451.6	1484.3	1497.3	1536.5	1582.1	1647.4	1732.2	1735.5	1830.1	1924.7
15°	1415.8	1422.3	1438.6	1471.2	1507.1	1543.0	1605.0	1683.3	1699.6	1810.5	1918.1
17.5°	1419.0	1422.3	1422.3	1445.1	1474.5	1516.9	1575.6	1666.9	1676.7	1784.4	1908.3
20°	1438.6	1425.5	1435.3	1445.1	1464.7	1503.8	1552.8	1631.1	1640.8	1781.1	1931.2
22.5°	1481.0	1471.2	1468.0	1464.7	1461.4	1484.3	1546.2	1611.5	1621.3	1764.8	1941.0
25°	1549.5	1546.2	1523.4	1500.6	1484.3	1484.3	1533.2	1627.8	1624.5	1764.8	1947.5
27.5°	1631.1	1631.1	1627.8	1585.4	1536.5	1510.4	1543.0	1621.3	1618.0	1764.8	1963.8
30°	1742.0	1742.0	1732.2	1693.0	1605.0	1529.9	1549.5	1614.8	1624.5	1751.8	1950.8
32.5°	1862.7	1859.4	1869.2	1833.3	1742.0	1621.3	1588.7	1627.8	1637.6	1764.8	1954.0
35°	1950.8	1970.3	2002.9	1970.3	1879.0	1715.9	1644.1	1653.9	1660.4	1768.1	1967.1
37.5°	2051.9	2074.7	2120.4	2146.5	2048.6	1859.4	1732.2	1696.3	1696.3	1810.5	1970.3
40°	2198.7	2175.8	2254.1	2299.8	2260.7	2035.6	1869.2	1774.6	1777.9	1865.9	2012.7
42.5°	2306.3	2329.2	2410.7	2492.3	2443.3	2250.9	2019.3	1901.8	1901.8	1947.5	2078.0
45°	2427.0	2453.1	2567.3	2665.2	2701.0	2508.6	2224.8	2084.5	2078.0	2107.3	2195.4
47.5°	2560.8	2596.7	2727.1	2841.3	2935.9	2776.1	2489.0	2306.3	2303.1	2325.9	2391.1
50°	2714.1	2727.1	2834.8	3043.6	3232.8	3131.6	2812.0	2619.5	2603.2	2613.0	2701.0
52.5°	2759.8	2750.0	2873.9	3099.0	3444.8	3565.5	3252.3	2975.1	2968.5	2945.7	3059.9
55°	2593.4	2626.0	2746.7	3033.8	3617.7	4077.7	3735.1	3461.1	3402.4	3340.4	3477.4
57.5°	2260.7	2263.9	2400.9	2740.2	3484.0	4501.7	4553.9	3937.4	3940.6	3774.3	3930.9
60°	1758.3	1748.5	1856.1	2162.8	3102.3	4632.2	5447.8	4697.5	4664.8	4208.1	4351.7
62.5°	1269.0	1249.4	1272.2	1451.6	2319.4	4433.2	6325.3	5548.9	5411.9	4651.8	4762.7
65°	1043.9	1053.7	1063.5	1073.2	1301.6	3656.8	6596.0	6938.5	6755.9	5170.5	5216.1
67.5°	864.5	871.0	913.4	972.1	965.6	2159.5	6282.9	8223.8	8155.3	5813.1	5607.6
70°	734.0	730.7	779.6	887.3	903.6	1122.2	4974.7	8488.1	8634.8	6504.7	6051.2
72.5°	587.2	593.7	636.1	779.6	887.3	946.0	2864.1	7920.4	7917.2	7036.4	5813.1
75°	420.8	420.8	479.5	645.9	857.9	936.2	1585.4	6429.7	6550.3	6612.3	5043.2
77.5°	277.3	290.3	336.0	482.8	805.7	916.7	1004.7	4674.6	4824.7	4945.4	3859.1
80°	189.2	195.7	225.1	336.0	681.8	923.2	822.1	3144.7	3203.4	2730.4	1565.8
82.5°	114.2	117.4	150.1	234.9	489.3	877.5	773.1	1735.5	1699.6	825.3	450.2
85°	62.0	65.2	94.6	156.6	323.0	766.6	760.1	851.4	792.7	303.4	189.2
87.5°	22.8	22.8	42.4	78.3	185.9	525.2	662.2	505.6	473.0	153.3	88.1
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°	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7	1937.7
2.5°	1941.0	1941.0	1941.0	1941.0	1937.7	1924.7	1934.4	1931.2	1911.6	1914.9	1901.8
5°	1934.4	1950.8	1941.0	1927.9	1911.6	1872.5	1859.4	1849.6	1823.5	1813.7	1823.5
7.5°	1950.8	1937.7	1931.2	1908.3	1843.1	1807.2	1761.5	1706.1	1666.9	1657.2	1666.9
10°	1947.5	1947.5	1918.1	1852.9	1790.9	1686.5	1627.8	1529.9	1474.5	1458.2	1461.4
12.5°	1934.4	1944.2	1898.6	1794.2	1676.7	1549.5	1441.9	1337.5	1239.6	1200.5	1193.9
15°	1947.5	1937.7	1856.1	1722.4	1559.3	1383.1	1226.6	1073.2	981.9	923.2	910.1
17.5°	1927.9	1918.1	1800.7	1624.5	1406.0	1180.9	985.2	818.8	727.5	704.6	704.6
20°	1950.8	1888.8	1735.5	1507.1	1246.1	959.1	737.2	613.3	590.4	590.4	597.0
22.5°	1947.5	1882.2	1680.0	1392.9	1053.7	724.2	548.0	512.2	515.4	541.5	538.3
25°	1927.9	1869.2	1601.7	1265.7	851.4	544.8	453.4	443.6	466.5	495.8	492.6
27.5°	1924.7	1833.3	1529.9	1115.6	649.2	430.6	394.7	394.7	417.6	443.6	440.4
30°	1905.1	1804.0	1441.9	946.0	489.3	375.1	362.1	362.1	371.9	384.9	384.9
32.5°	1901.8	1764.8	1344.0	769.9	391.5	339.3	332.7	336.0	336.0	342.5	339.3
35°	1875.7	1712.6	1242.9	597.0	339.3	319.7	313.2	309.9	309.9	306.6	306.6
37.5°	1865.9	1680.0	1138.5	463.2	316.4	303.4	296.9	287.1	283.8	283.8	280.5
40°	1875.7	1647.4	1037.4	375.1	296.9	290.3	280.5	267.5	264.2	264.2	264.2
42.5°	1911.6	1644.1	933.0	326.2	287.1	277.3	264.2	251.2	247.9	251.2	247.9
45°	1993.2	1670.2	831.8	303.4	274.0	264.2	247.9	238.1	234.9	238.1	238.1
47.5°	2126.9	1742.0	740.5	290.3	264.2	251.2	234.9	225.1	225.1	225.1	225.1
50°	2348.7	1879.0	652.4	280.5	257.7	241.4	225.1	212.0	208.8	208.8	212.0
52.5°	2681.5	2113.9	580.7	274.0	247.9	228.3	212.0	202.3	195.7	192.5	195.7
55°	3082.7	2456.4	557.8	267.5	234.9	218.6	202.3	189.2	182.7	182.7	179.4
57.5°	3513.3	2834.8	597.0	261.0	225.1	205.5	189.2	176.2	169.6	166.4	166.4
60°	3979.8	3281.7	740.5	257.7	215.3	192.5	176.2	166.4	156.6	153.3	153.3
62.5°	4403.9	3686.2	998.2	254.4	208.8	179.4	163.1	150.1	143.5	140.3	140.3
65°	4886.7	4136.4	1249.4	267.5	205.5	169.6	150.1	137.0	130.5	127.2	127.2
67.5°	5307.5	4527.8	1396.2	300.1	215.3	156.6	133.7	124.0	120.7	117.4	117.4
70°	5614.1	4648.5	936.2	329.5	231.6	146.8	120.7	114.2	107.7	107.7	107.7
72.5°	5203.1	4149.4	554.6	309.9	218.6	137.0	107.7	101.1	97.9	97.9	94.6
75°	4449.5	3532.9	427.3	251.2	176.2	117.4	94.6	88.1	84.8	84.8	81.6
77.5°	3285.0	2531.4	316.4	199.0	137.0	94.6	81.6	78.3	75.0	71.8	71.8
80°	1285.3	1109.1	215.3	146.8	101.1	75.0	68.5	65.2	62.0	58.7	58.7
82.5°	398.0	336.0	124.0	97.9	71.8	58.7	55.5	52.2	48.9	45.7	45.7
85°	172.9	166.4	81.6	62.0	48.9	39.1	39.1	35.9	32.6	29.4	29.4
87.5°	84.8	81.6	45.7	29.4	26.1	19.6	19.6	16.3	13.0	13.0	13.0
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)