

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: P675741

Luminaire Tested: **CCW-SA-2E-827-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675741
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

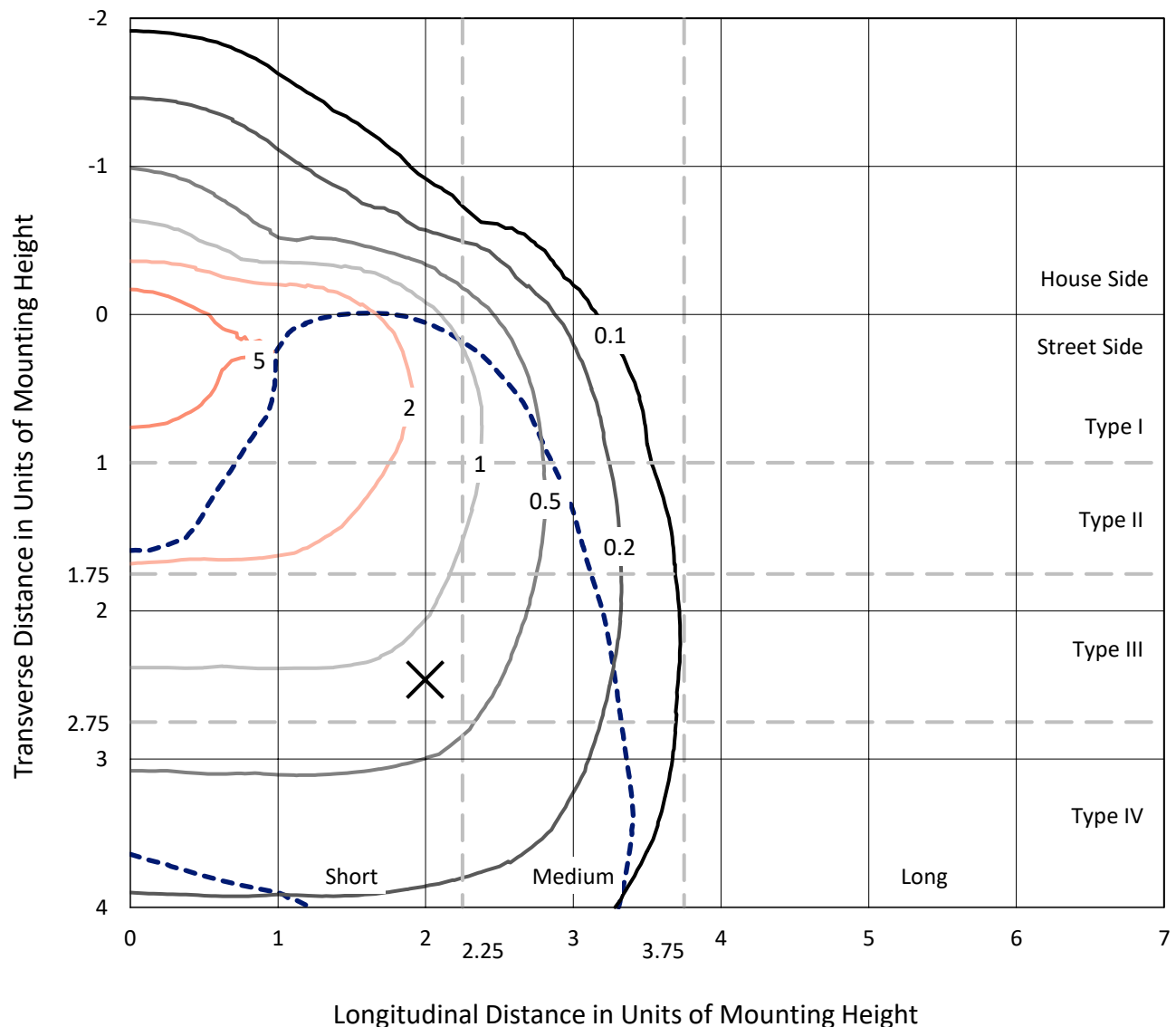
Lumens per Lamp: N/A
Luminaire Lumens: 9849.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

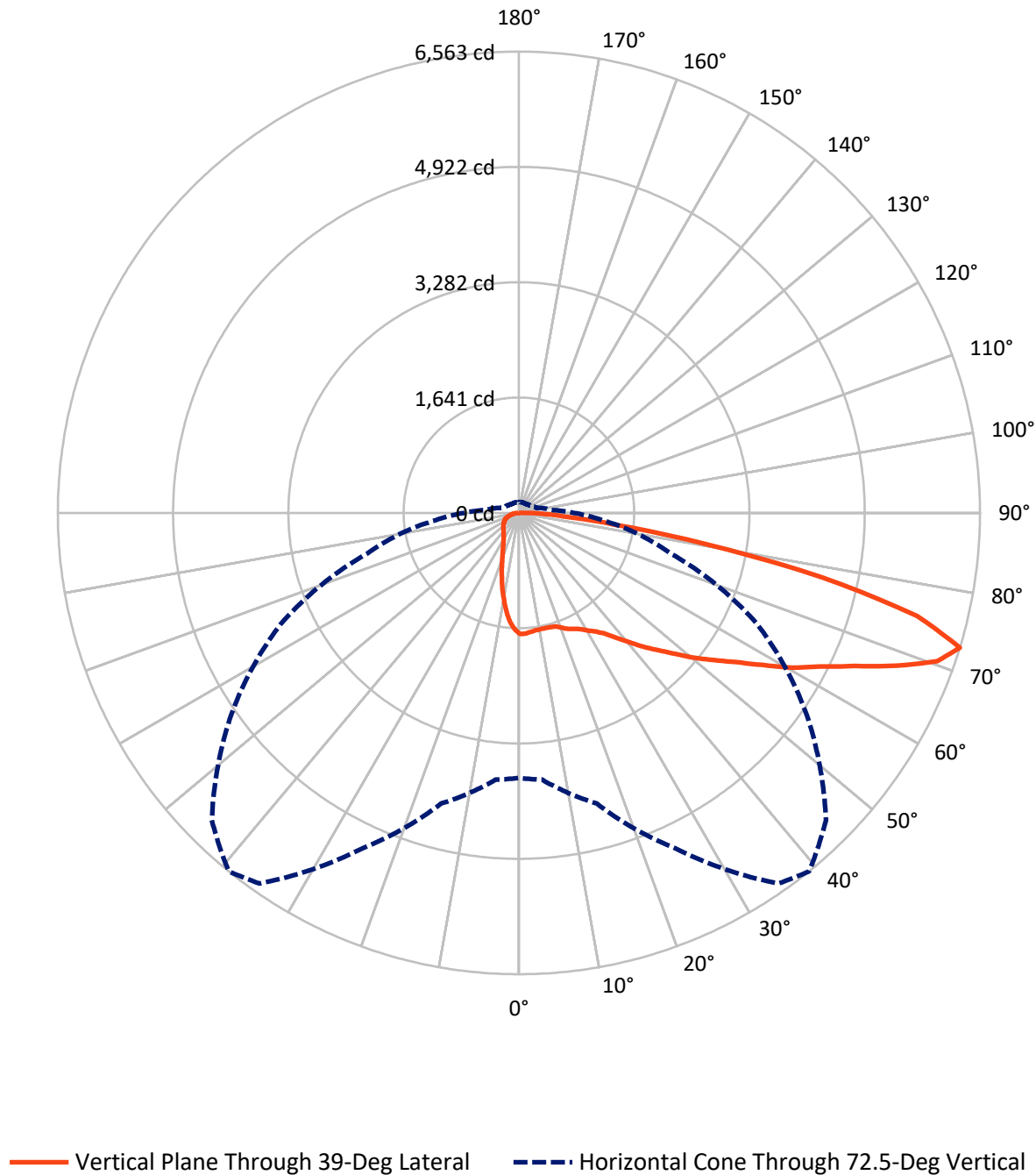
× Max cd
 - - - 1/2 Max cd



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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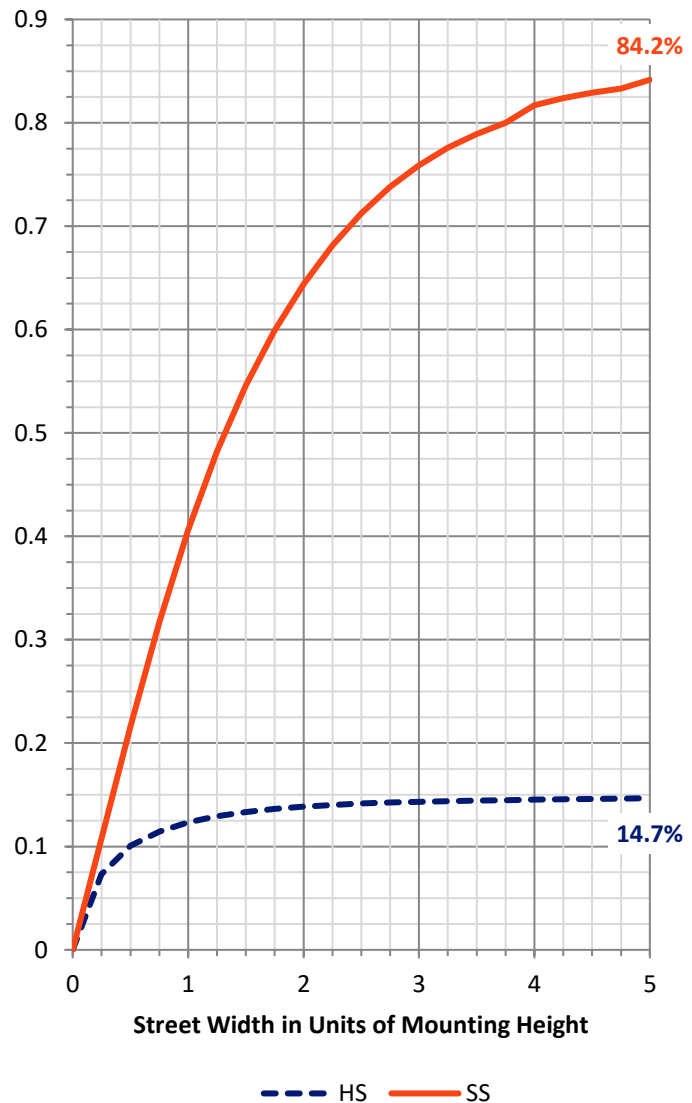
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.8	0.0	1463.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	8385.5	0.0	8385.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	9849.3	0.0	9849.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.5
10°-20°	388.8	3.9
20°-30°	592.4	6.0
30°-40°	866.5	8.8
40°-50°	1326.7	13.5
50°-60°	1945.7	19.8
60°-70°	2481.5	25.2
70°-80°	1792.9	18.2
80°-90°	302.4	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°	9849.3	100.0
0°-180°	9849.3	100.0

Coefficient of Utilization



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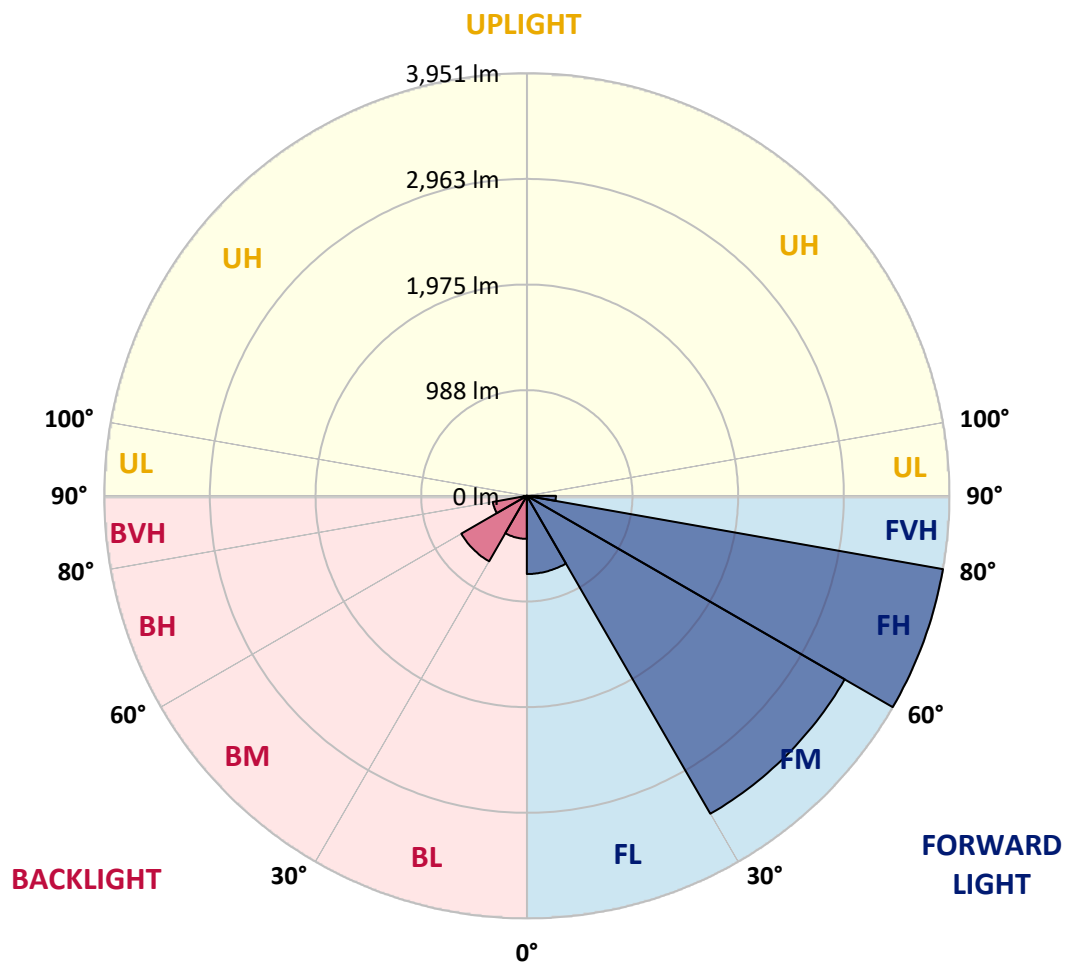
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.0	7.4			
FM	(30°-60°)	3431.7	34.8			
FH	(60°-80°)	3951.0	40.1			G2/5000
FVH	(80°-90°)	271.8	2.8			G3/500
BL	(0°-30°)	402.6	4.1	B1/500		
BM	(30°-60°)	707.2	7.2	B1/1000		
BH	(60°-80°)	323.4	3.3	B1/500		G1/500
BVH	(80°-90°)	30.6	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°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1750.0	1753.7	1746.3	1738.9	1735.2	1720.4	1735.2	1727.8	1720.4	1720.4	1720.4
5°	1727.8	1731.5	1731.5	1724.1	1727.8	1701.9	1698.2	1701.9	1690.8	1683.4	1679.7
7.5°	1694.5	1701.9	1716.7	1713.0	1698.2	1687.1	1690.8	1687.1	1668.6	1657.5	1627.9
10°	1668.6	1676.0	1683.4	1690.8	1687.1	1683.4	1679.7	1664.9	1661.2	1635.3	1605.7
12.5°	1642.7	1642.7	1646.4	1676.0	1679.7	1679.7	1657.5	1657.5	1646.4	1642.7	1598.3
15°	1616.8	1627.9	1657.5	1664.9	1679.7	1687.1	1676.0	1676.0	1657.5	1631.6	1598.3
17.5°	1624.2	1642.7	1672.3	1690.8	1698.2	1698.2	1713.0	1701.9	1676.0	1661.2	1627.9
20°	1661.2	1664.9	1701.9	1735.2	1742.6	1742.6	1727.8	1716.7	1698.2	1672.3	1627.9
22.5°	1683.4	1709.3	1753.7	1772.2	1794.3	1794.3	1775.9	1750.0	1724.1	1698.2	1650.1
25°	1779.5	1783.2	1801.7	1831.3	1842.4	1827.6	1809.1	1779.5	1746.3	1720.4	1676.0
27.5°	1846.1	1864.6	1886.8	1901.6	1883.1	1872.0	1857.2	1823.9	1798.0	1775.9	1713.0
30°	1968.2	1946.0	1960.8	1968.2	1934.9	1942.3	1901.6	1872.0	1842.4	1842.4	1772.2
32.5°	2042.2	2060.7	2045.9	2042.2	2016.3	2012.6	1986.7	1953.4	1934.9	1957.1	1860.9
35°	2171.7	2160.6	2160.6	2156.9	2127.3	2108.8	2108.8	2049.6	2068.1	2116.2	1997.8
37.5°	2238.3	2234.6	2256.8	2275.3	2245.7	2256.8	2245.7	2219.8	2227.2	2312.3	2168.0
40°	2304.9	2330.8	2375.2	2382.6	2401.1	2415.9	2408.5	2404.8	2434.4	2571.3	2397.4
42.5°	2367.8	2390.0	2456.6	2515.8	2560.2	2608.3	2612.0	2612.0	2708.2	2904.3	2674.9
45°	2449.2	2467.7	2560.2	2678.6	2752.6	2785.9	2815.5	2848.8	2978.2	3211.3	2970.8
47.5°	2560.2	2575.0	2686.0	2834.0	2978.2	2996.7	3055.9	3092.9	3289.0	3525.8	3274.2
50°	2719.3	2708.2	2797.0	3011.5	3152.1	3240.9	3326.0	3392.6	3585.0	3844.0	3511.0
52.5°	2848.8	2848.8	2915.4	3200.2	3392.6	3477.7	3566.5	3659.0	3881.0	4162.1	3703.4
55°	3070.7	3048.5	3089.2	3385.2	3662.7	3744.1	3914.3	3992.0	4206.5	4398.9	3866.2
57.5°	3222.4	3233.5	3281.6	3629.4	3980.9	4080.8	4250.9	4306.4	4495.1	4646.8	3984.6
60°	3422.2	3385.2	3488.8	3899.5	4332.3	4472.9	4613.5	4646.8	4787.4	4805.9	4040.1
62.5°	3614.6	3607.2	3696.0	4169.5	4709.7	4809.6	4953.9	4990.9	5050.1	4931.7	3962.4
65°	3733.0	3781.1	3947.6	4465.5	5138.9	5249.9	5394.1	5320.2	5253.6	4820.7	3581.3
67.5°	3895.8	3918.0	4173.2	4787.4	5634.6	5801.1	5926.9	5634.6	5138.9	4365.6	3015.2
70°	3932.8	3992.0	4324.9	5124.1	6145.2	6315.4	6322.8	5527.3	4720.8	3551.7	2186.5
72.5°	3770.0	3810.7	4280.5	5264.7	6437.5	6563.2	6182.2	4998.3	3740.4	2238.3	1191.3
75°	3170.6	3285.3	3725.6	4831.8	5901.0	5852.9	5238.8	3814.4	2245.7	991.5	503.2
77.5°	2208.7	2212.4	2671.2	3514.7	4417.4	4406.3	3736.7	2212.4	961.9	399.6	296.0
80°	980.4	1050.7	1328.2	1894.2	2682.3	2682.3	2179.1	1098.8	481.0	259.0	203.5
82.5°	577.2	599.3	710.3	884.2	1306.0	1376.3	1043.3	732.5	329.3	162.8	125.8
85°	425.5	462.5	529.1	532.8	617.8	628.9	577.2	636.3	225.7	88.8	103.6
87.5°	318.2	340.4	421.8	351.5	329.3	310.8	355.2	651.1	85.1	44.4	33.3
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°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1705.6	1705.6	1698.2	1683.4	1683.4	1653.8	1661.2	1668.6	1650.1	1650.1	1653.8
5°	1679.7	1664.9	1646.4	1624.2	1609.4	1568.7	1561.3	1535.4	1531.7	1524.3	1513.2
7.5°	1627.9	1605.7	1572.4	1539.1	1491.0	1454.0	1409.6	1372.6	1357.8	1346.7	1343.0
10°	1579.8	1576.1	1520.6	1454.0	1380.0	1309.7	1243.1	1195.0	1165.4	1146.9	1143.2
12.5°	1579.8	1550.2	1472.5	1380.0	1272.7	1169.1	1084.0	1017.4	976.7	947.1	936.0
15°	1572.4	1542.8	1439.2	1298.6	1176.5	1035.9	917.5	847.2	788.0	758.4	762.1
17.5°	1579.8	1535.4	1391.1	1239.4	1069.2	917.5	776.9	691.8	632.6	610.4	606.7
20°	1583.5	1528.0	1354.1	1158.0	958.2	788.0	654.8	573.5	529.1	514.3	514.3
22.5°	1576.1	1505.8	1298.6	1061.8	862.0	680.7	569.8	499.5	469.9	451.4	458.8
25°	1609.4	1502.1	1246.8	980.4	751.0	592.0	506.9	455.1	436.6	425.5	429.2
27.5°	1616.8	1502.1	1206.1	887.9	654.8	525.4	458.8	425.5	410.7	403.3	399.6
30°	1646.4	1509.5	1158.0	795.4	577.2	473.6	421.8	403.3	392.2	388.5	388.5
32.5°	1727.8	1531.7	1106.2	717.7	510.6	429.2	395.9	381.1	373.7	370.0	373.7
35°	1823.9	1590.9	1050.7	636.3	462.5	399.6	373.7	362.6	358.9	358.9	358.9
37.5°	1971.9	1679.7	1002.6	569.8	421.8	370.0	351.5	347.8	344.1	347.8	347.8
40°	2142.1	1775.9	958.2	518.0	392.2	351.5	333.0	333.0	329.3	333.0	336.7
42.5°	2338.2	1894.2	913.8	466.2	366.3	336.7	321.9	318.2	314.5	321.9	325.6
45°	2608.3	2057.0	884.2	436.6	347.8	321.9	307.1	307.1	303.4	303.4	310.8
47.5°	2834.0	2212.4	884.2	407.0	336.7	310.8	296.0	296.0	288.6	292.3	292.3
50°	3022.6	2345.6	902.7	399.6	321.9	299.7	288.6	281.2	277.5	277.5	277.5
52.5°	3148.4	2427.0	917.5	392.2	314.5	284.9	277.5	273.8	266.4	262.7	266.4
55°	3274.2	2482.5	921.2	392.2	303.4	270.1	262.7	262.7	255.3	251.6	251.6
57.5°	3322.3	2460.3	869.4	384.8	296.0	259.0	251.6	247.9	244.2	240.5	240.5
60°	3300.1	2378.9	754.7	366.3	288.6	251.6	236.8	236.8	236.8	229.4	233.1
62.5°	3148.4	2101.4	606.7	336.7	277.5	236.8	222.0	229.4	229.4	225.7	225.7
65°	2748.9	1735.2	492.1	310.8	262.7	225.7	210.9	222.0	225.7	222.0	218.3
67.5°	2197.6	1335.6	407.0	281.2	244.2	207.2	196.1	207.2	210.9	207.2	207.2
70°	1509.5	862.0	329.3	251.6	218.3	188.7	177.6	185.0	185.0	188.7	188.7
72.5°	780.6	466.2	270.1	214.6	188.7	170.2	159.1	159.1	155.4	155.4	155.4
75°	388.5	318.2	225.7	181.3	159.1	144.3	136.9	129.5	129.5	129.5	129.5
77.5°	270.1	244.2	185.0	144.3	129.5	118.4	118.4	107.3	107.3	107.3	107.3
80°	203.5	192.4	140.6	111.0	99.9	92.5	92.5	88.8	88.8	85.1	85.1
82.5°	144.3	155.4	107.3	81.4	74.0	70.3	70.3	66.6	66.6	59.2	59.2
85°	114.7	129.5	81.4	59.2	55.5	48.1	48.1	44.4	44.4	40.7	37.0
87.5°	33.3	70.3	33.3	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)