

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: P672019

Luminaire Tested: **CCP-SA-2D-830-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8943.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

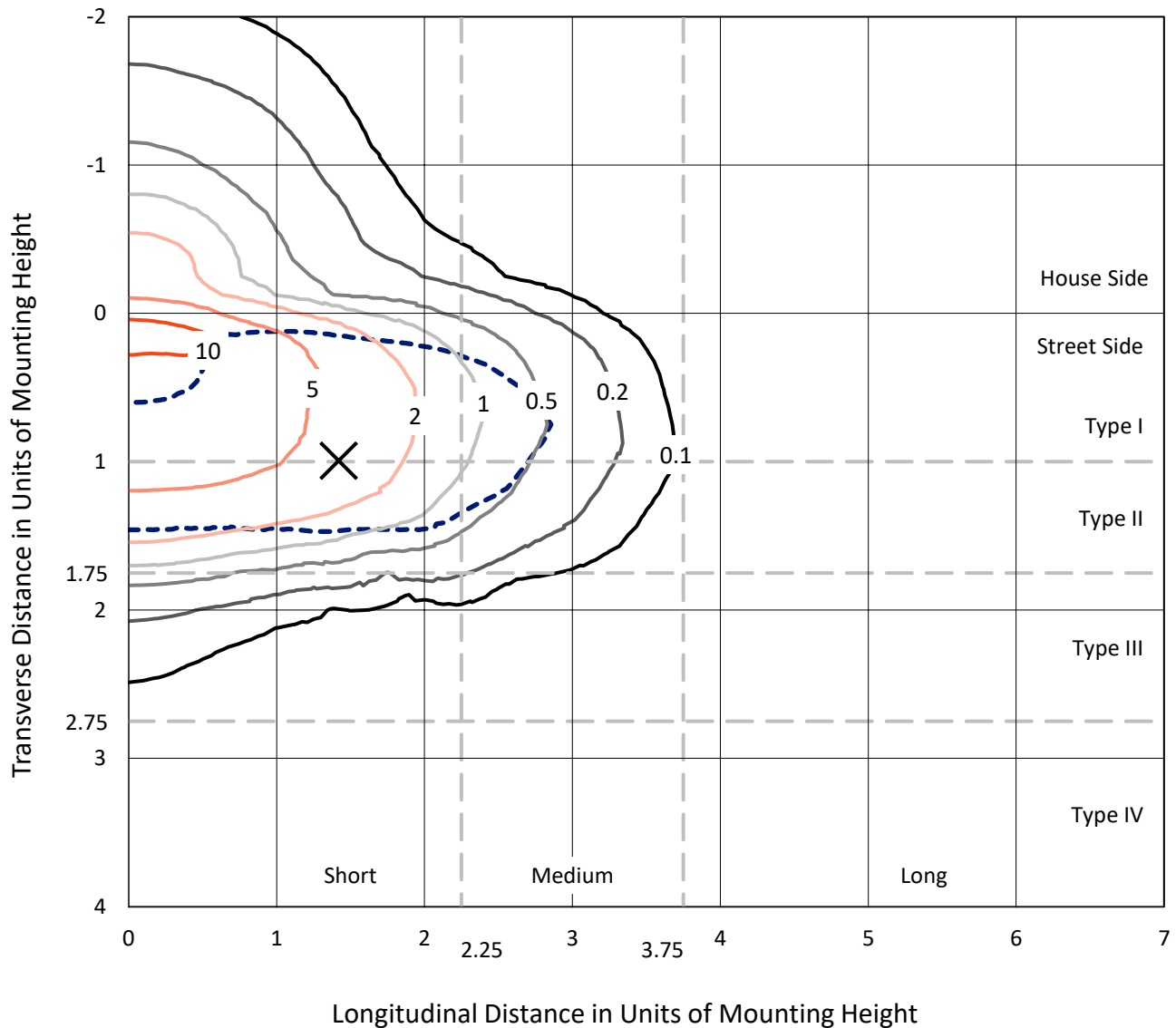
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



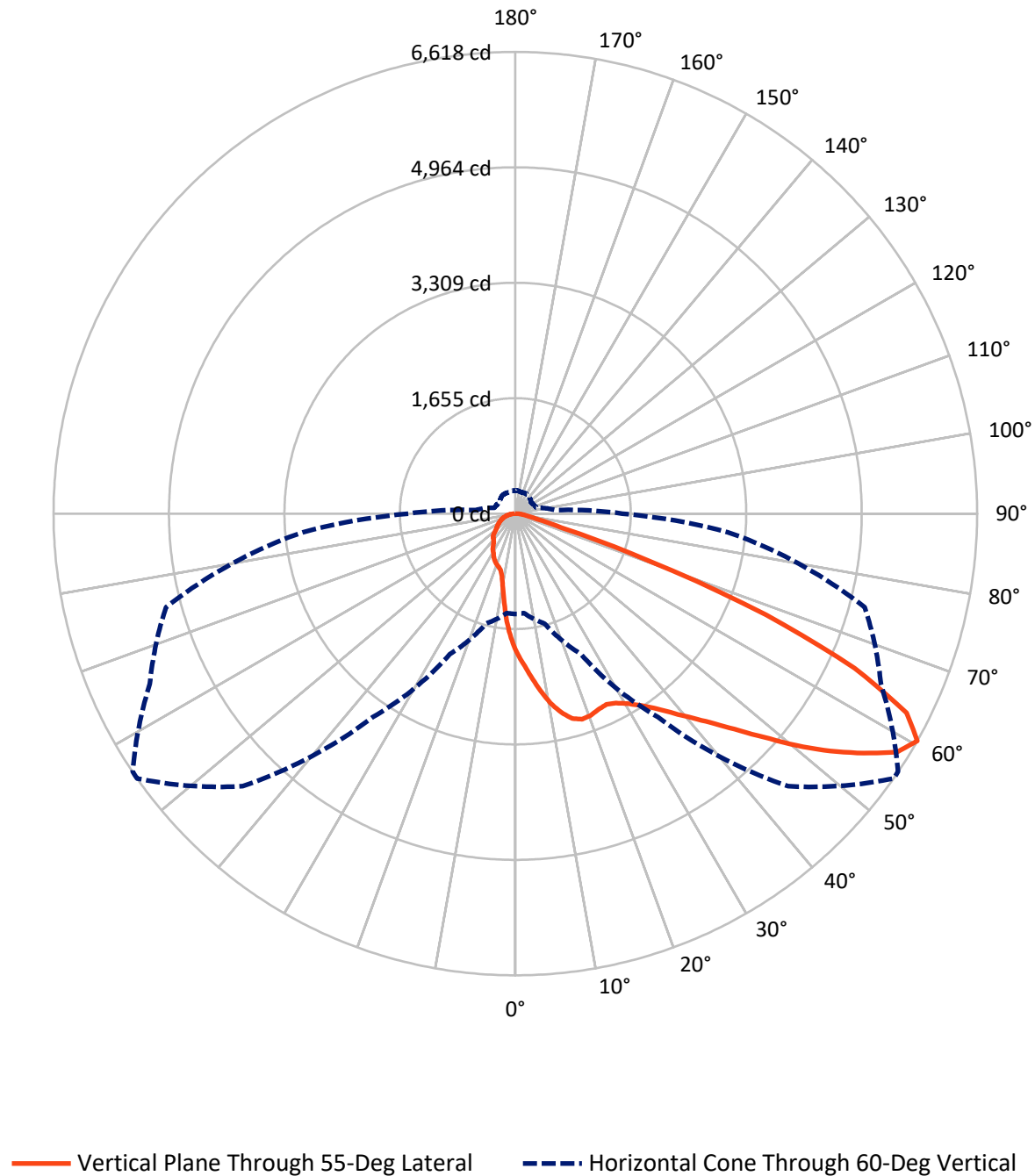
Based on 15 foot mounting height. Maximum calculated value = 12.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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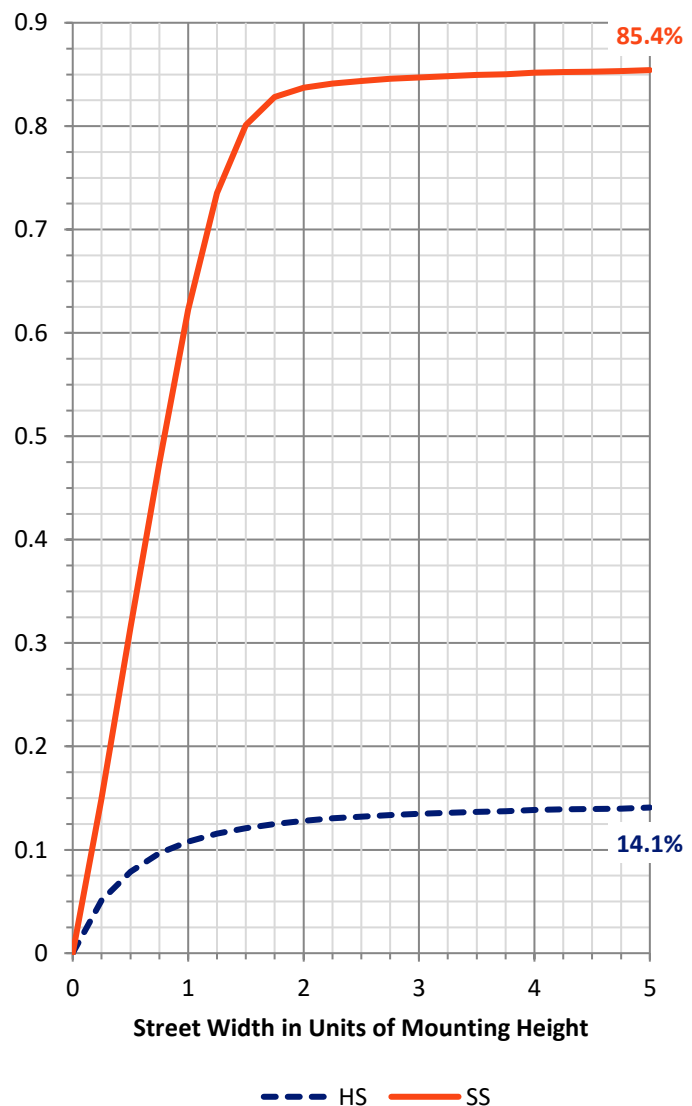
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1285.6	0.0	1285.6
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	7657.5	0.0	7657.5
	% Fixture	85.6	0.0	85.6
Total	Lumens	8943.1	0.0	8943.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	2.1
10°-20°	525.9	5.9
20°-30°	856.2	9.6
30°-40°	1279.7	14.3
40°-50°	1880.8	21.0
50°-60°	2204.5	24.6
60°-70°	1453.5	16.3
70°-80°	462.8	5.2
80°-90°	94.1	1.1
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°	8943.1	100.0
0°-180°	8943.1	100.0

Coefficient of Utilization



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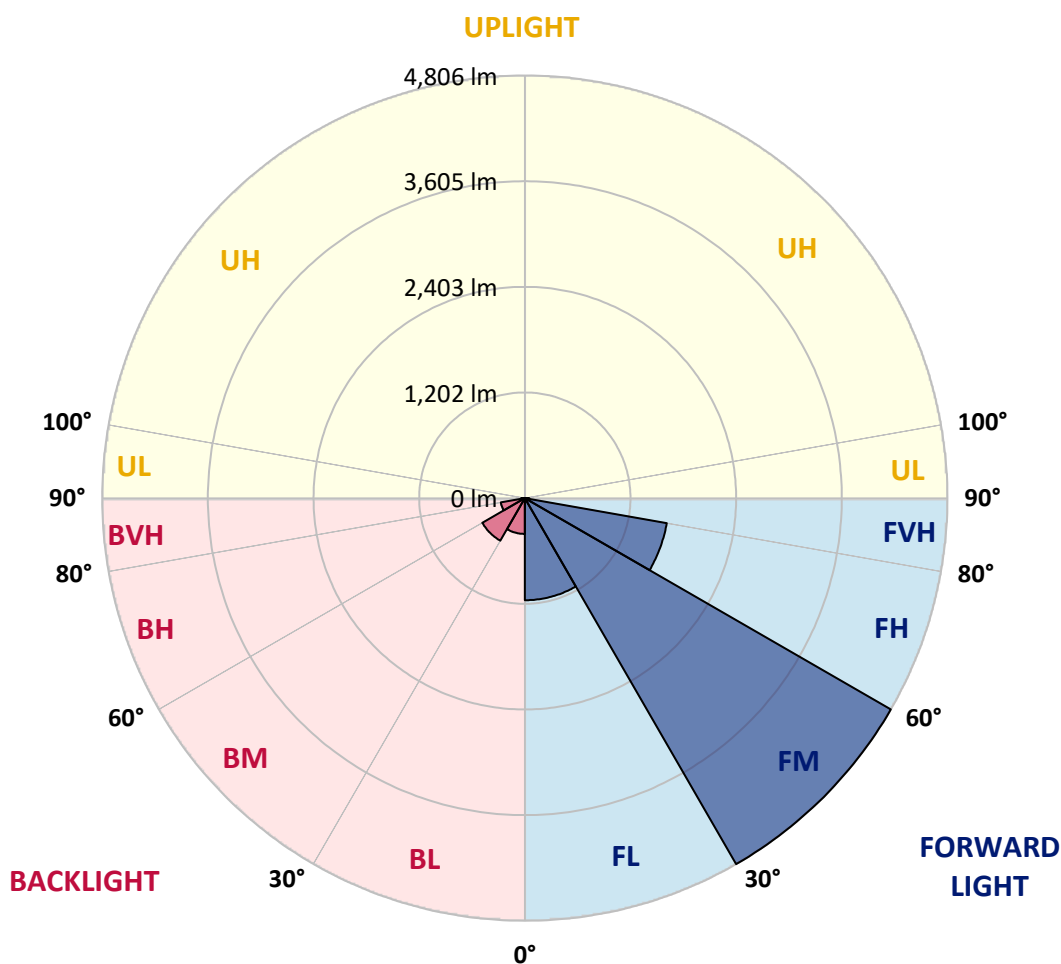
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.7	13.0			
FM	(30°-60°)	4806.2	53.7			
FH	(60°-80°)	1638.9	18.3			G1/1800
FVH	(80°-90°)	51.6	0.6			G1/100
BL	(0°-30°)	406.9	4.6	B1/500		
BM	(30°-60°)	558.8	6.2	B1/1000		
BH	(60°-80°)	277.4	3.1	B1/500		G1/500
BVH	(80°-90°)	42.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	2308.1	2299.7	2299.7	2278.3	2246.5	2202.5	2150.0	2137.0	2116.9	2065.7	1999.6
5°	2660.1	2651.0	2638.7	2601.1	2542.1	2453.9	2343.1	2323.0	2251.1	2145.4	2026.2
7.5°	2892.8	2887.6	2883.7	2851.3	2792.9	2706.1	2557.7	2535.0	2413.1	2238.1	2051.4
10°	2868.8	2884.3	2911.5	2934.2	2945.9	2901.2	2761.8	2735.2	2584.2	2345.7	2089.0
12.5°	2643.9	2665.9	2716.5	2809.1	2916.1	3002.3	2923.2	2908.3	2767.0	2459.8	2136.3
15°	2476.6	2485.7	2510.3	2579.0	2738.5	2968.6	3048.3	3034.7	2937.5	2606.3	2190.8
17.5°	2424.8	2428.7	2434.5	2457.2	2566.1	2837.0	3099.5	3112.5	3102.8	2758.6	2252.4
20°	2450.7	2453.3	2453.9	2457.8	2509.7	2726.8	3085.9	3107.9	3247.9	2910.9	2313.3
22.5°	2550.5	2547.3	2542.7	2527.8	2557.0	2707.4	3049.6	3084.6	3360.1	3049.6	2369.7
25°	2724.9	2720.3	2688.6	2657.5	2669.8	2777.4	3030.2	3067.8	3447.6	3180.5	2411.2
27.5°	2932.3	2927.8	2895.3	2836.4	2823.4	2894.0	3075.5	3098.9	3511.7	3296.6	2429.3
30°	3147.5	3147.5	3107.3	3039.2	2997.8	3027.6	3159.1	3177.9	3560.4	3408.7	2441.0
32.5°	3382.1	3388.6	3326.4	3248.6	3202.6	3185.1	3276.5	3292.7	3631.0	3540.9	2465.6
35°	3683.5	3669.3	3593.4	3491.0	3417.1	3377.6	3421.7	3440.4	3734.7	3705.5	2505.1
37.5°	4022.5	3997.2	3903.9	3781.4	3652.4	3586.3	3615.5	3620.0	3888.3	3920.1	2577.1
40°	4302.5	4298.0	4218.9	4102.9	3940.2	3851.4	3837.1	3839.7	4101.6	4174.2	2686.0
42.5°	4538.4	4521.6	4507.3	4466.5	4294.1	4148.2	4089.9	4090.6	4333.0	4436.7	2795.5
45°	4642.8	4639.6	4681.7	4786.7	4662.9	4491.1	4408.2	4419.8	4598.1	4706.3	2901.2
47.5°	4598.1	4600.7	4713.4	4988.9	5062.2	4930.6	4783.4	4776.3	4854.7	4913.1	2994.5
50°	4198.8	4240.9	4546.2	5007.7	5324.0	5389.5	5223.5	5197.0	5079.7	5077.7	3051.6
52.5°	3897.4	3895.5	4082.8	4816.5	5416.7	5803.7	5654.6	5594.9	5265.7	5170.4	3056.1
55°	3490.4	3487.8	3627.1	4257.1	5232.6	6092.7	6061.0	5986.4	5436.1	5200.9	3025.0
57.5°	2643.2	2692.5	2831.2	3408.0	4649.3	6046.7	6449.2	6387.0	5602.7	5187.2	3019.1
60°	1438.3	1432.4	1633.4	2221.3	3559.7	5524.3	6618.4	6615.2	5779.7	5182.1	3054.8
62.5°	663.1	656.6	696.8	989.1	2041.1	4425.7	6291.7	6338.4	5943.7	5134.7	3051.6
65°	495.8	479.0	424.5	460.2	781.0	2641.9	5344.1	5468.6	5690.9	4940.3	2910.3
67.5°	442.0	425.8	362.3	339.6	392.1	932.1	3876.7	3991.4	4758.8	4576.0	2681.5
70°	405.1	390.8	327.3	291.7	294.3	412.9	2029.4	2255.0	3487.8	3819.0	2285.4
72.5°	369.5	357.1	299.5	256.7	247.6	272.9	691.6	834.2	2169.4	2783.2	1704.0
75°	331.9	320.2	269.6	230.1	212.6	202.2	329.3	354.5	1147.2	1536.8	914.6
77.5°	288.4	282.0	240.5	202.9	188.0	153.0	219.1	230.1	491.3	603.4	435.6
80°	250.8	245.7	214.5	184.1	168.5	118.0	151.0	158.8	242.4	301.4	243.7
82.5°	163.3	176.3	177.6	158.2	148.4	94.6	99.8	105.7	160.7	177.6	106.3
85°	67.4	81.7	122.5	108.9	103.1	80.4	66.1	67.4	98.5	103.7	38.2
87.5°	30.5	33.7	60.3	60.9	53.1	30.5	33.1	36.3	50.6	49.9	16.9
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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1981.4	1951.6	1898.5	1830.4	1781.8	1746.2	1707.3	1678.7	1647.0	1619.1	1623.6
5°	1976.9	1919.2	1799.9	1673.6	1550.4	1449.3	1365.0	1302.8	1238.6	1213.4	1210.1
7.5°	1980.8	1882.9	1687.2	1480.4	1293.1	1164.1	1066.2	1007.2	970.3	948.9	950.2
10°	1979.5	1848.6	1565.3	1280.1	1075.3	957.3	897.7	878.3	875.0	877.6	881.5
12.5°	1981.4	1801.9	1428.6	1099.9	919.1	858.8	861.4	878.9	889.9	897.1	901.6
15°	1989.9	1763.7	1288.5	958.0	837.4	839.4	867.2	894.5	910.7	918.4	922.3
17.5°	2002.2	1715.7	1164.1	850.4	803.1	832.9	869.2	898.4	910.7	915.2	918.4
20°	2003.5	1660.6	1038.4	776.5	780.4	819.3	851.0	874.4	889.9	895.1	897.7
22.5°	1997.6	1586.1	909.4	722.7	754.5	793.4	820.6	847.1	826.4	809.6	805.0
25°	1973.0	1492.1	799.2	678.6	722.1	758.4	789.5	760.3	750.6	737.6	738.9
27.5°	1919.9	1374.8	695.5	637.1	683.8	735.7	713.0	709.1	696.8	683.8	683.8
30°	1849.9	1251.0	608.6	593.7	637.8	663.7	668.9	663.1	655.9	639.1	640.4
32.5°	1787.0	1120.0	547.0	557.4	608.6	608.6	631.3	631.3	605.4	558.1	558.1
35°	1724.8	996.9	501.7	527.0	560.7	571.7	602.8	562.0	525.0	503.6	502.3
37.5°	1676.1	891.9	471.9	501.0	514.0	541.9	542.5	512.7	500.4	480.9	479.0
40°	1647.6	803.7	453.7	488.1	489.4	515.3	472.5	480.9	478.3	463.4	461.5
42.5°	1632.1	735.7	440.1	477.0	470.6	445.3	437.5	451.8	456.3	448.5	445.3
45°	1619.8	682.5	429.1	438.8	455.7	409.6	406.4	417.4	427.1	426.5	423.9
47.5°	1613.3	645.6	419.4	414.8	418.1	388.2	381.8	387.0	399.3	407.0	406.4
50°	1588.0	617.1	405.1	390.2	369.5	369.5	366.2	366.2	381.1	396.7	398.0
52.5°	1543.3	583.3	384.4	366.9	342.9	353.2	354.5	352.0	367.5	384.4	385.7
55°	1494.0	558.1	356.5	345.5	320.8	338.3	344.2	341.6	352.0	363.6	363.0
57.5°	1494.7	557.4	332.5	324.1	300.1	319.5	333.8	334.5	333.8	342.2	342.2
60°	1532.3	570.4	313.7	295.6	276.1	299.5	322.8	322.8	318.2	330.6	331.9
62.5°	1543.3	569.1	302.0	268.3	254.7	281.3	306.6	310.5	307.2	324.7	326.7
65°	1446.1	538.6	290.4	243.7	235.3	261.2	286.5	297.5	294.3	317.0	319.5
67.5°	1311.2	499.1	272.2	221.7	215.2	241.8	265.7	277.4	276.8	306.6	307.9
70°	1130.4	450.5	249.5	199.0	195.7	219.1	240.5	252.8	258.6	293.0	292.3
72.5°	875.7	386.3	215.2	175.0	174.4	195.7	214.5	228.2	239.2	272.2	272.2
75°	564.5	304.0	175.7	151.7	149.1	169.2	188.6	204.2	237.9	290.4	289.7
77.5°	344.8	232.0	141.3	126.4	125.7	143.9	163.3	189.9	259.9	258.6	251.5
80°	206.8	166.6	112.8	101.1	101.1	118.0	139.4	203.5	215.8	246.3	232.7
82.5°	107.6	102.4	84.3	74.5	77.8	92.7	127.0	162.7	176.3	149.7	137.4
85°	44.1	54.4	51.9	47.3	49.3	64.2	122.5	130.3	104.4	109.5	110.2
87.5°	14.9	24.0	24.0	18.8	20.7	45.4	72.6	43.4	52.5	31.1	23.3
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)