

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: P672037

Luminaire Tested: **CCP-SA-1F-840-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672037
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-840-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ AFL
distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6451 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

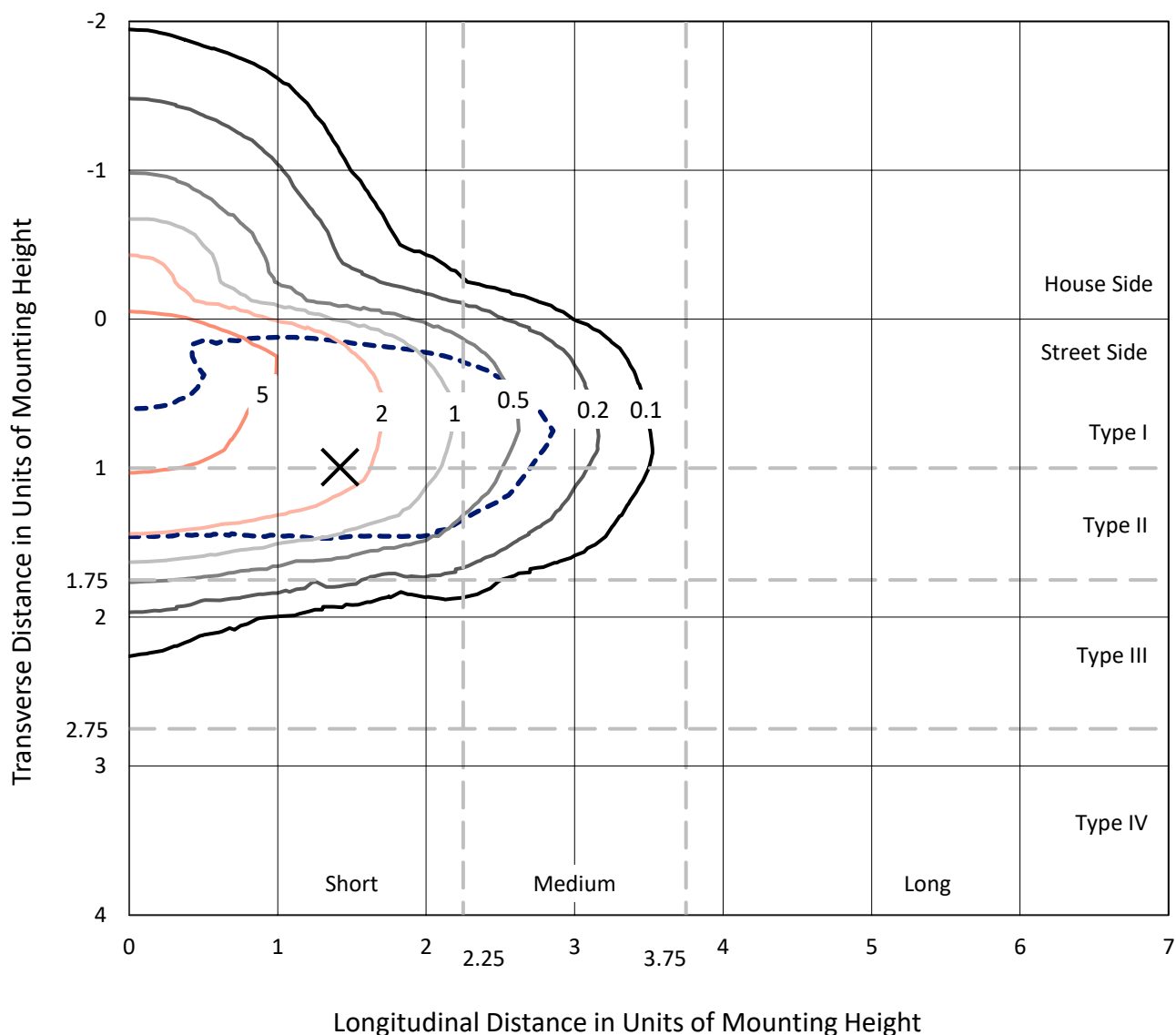
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



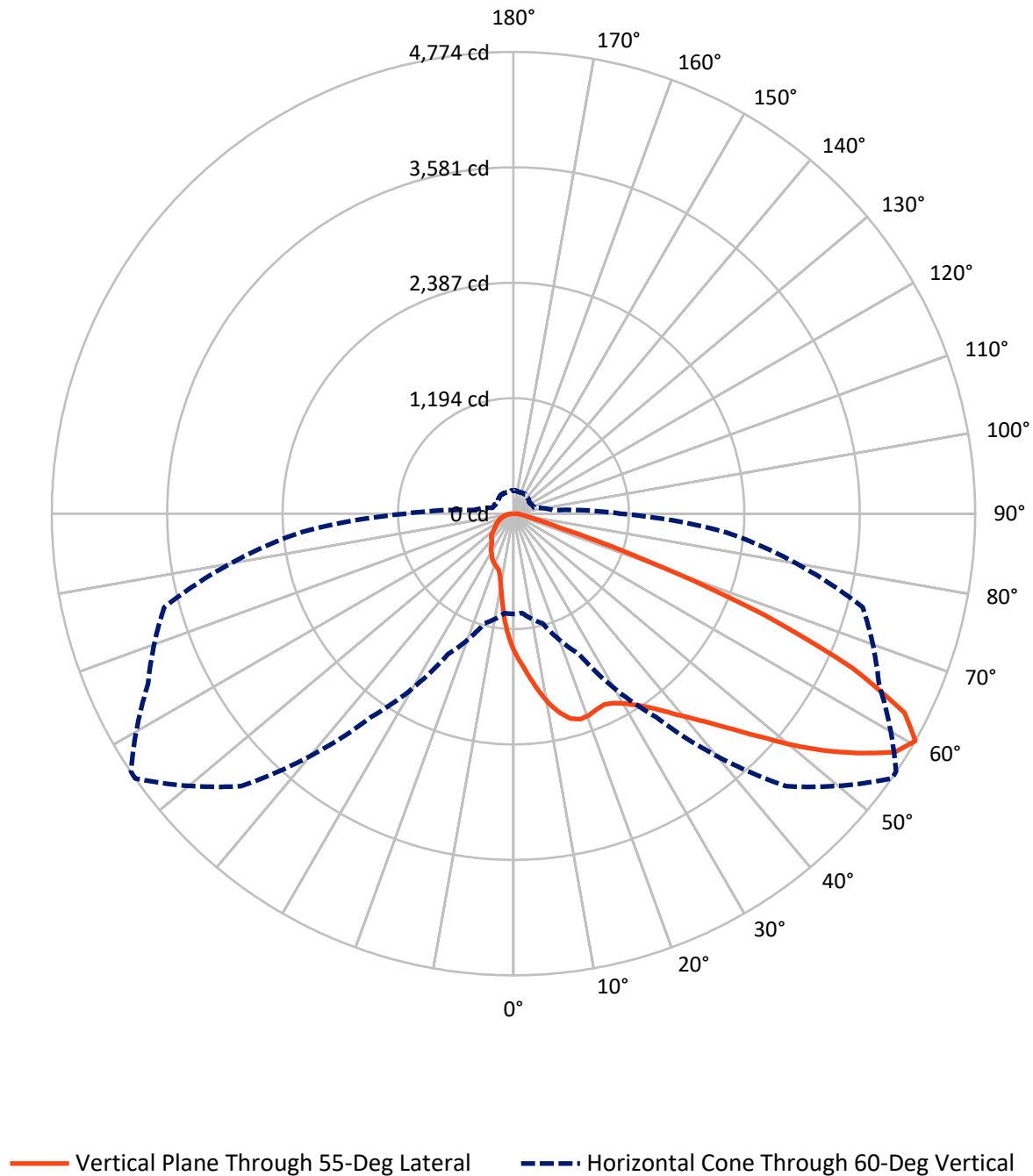
Based on 15 foot mounting height. Maximum calculated value = 9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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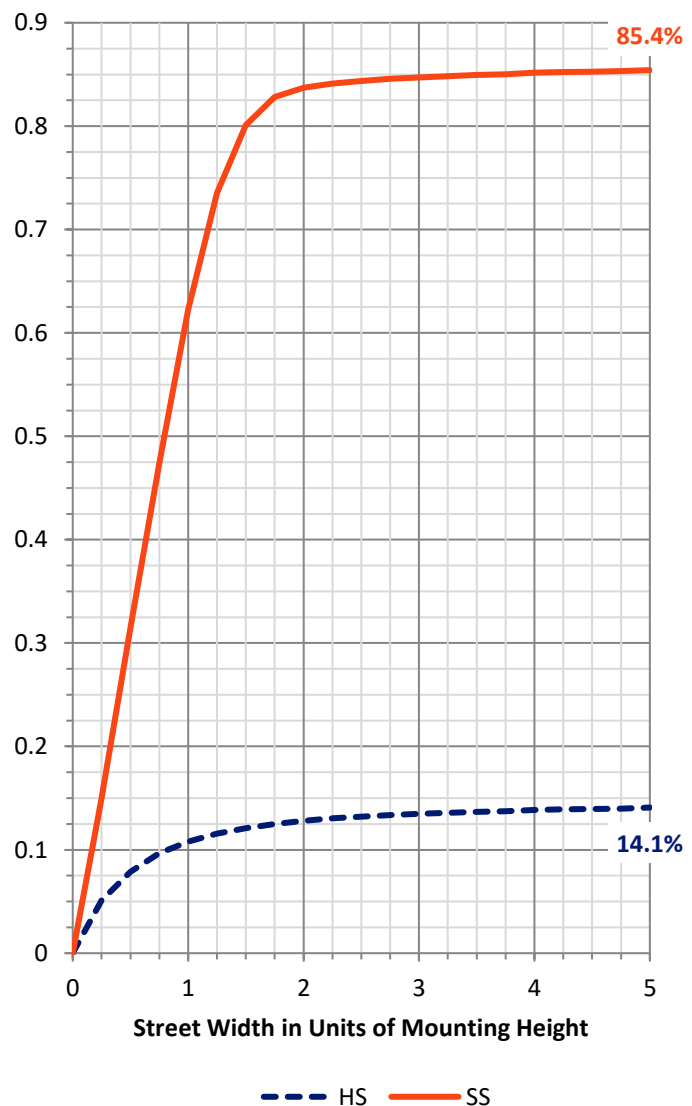
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.4	0.0	927.4
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	5523.7	0.0	5523.7
	% Fixture	85.6	0.0	85.6
Total	Lumens	6451.0	0.0	6451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	2.1
10°-20°	379.3	5.9
20°-30°	617.6	9.6
30°-40°	923.1	14.3
40°-50°	1356.7	21.0
50°-60°	1590.2	24.6
60°-70°	1048.5	16.3
70°-80°	333.9	5.2
80°-90°	67.9	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°	6451.0	100.0
0°-180°	6451.0	100.0

Coefficient of Utilization



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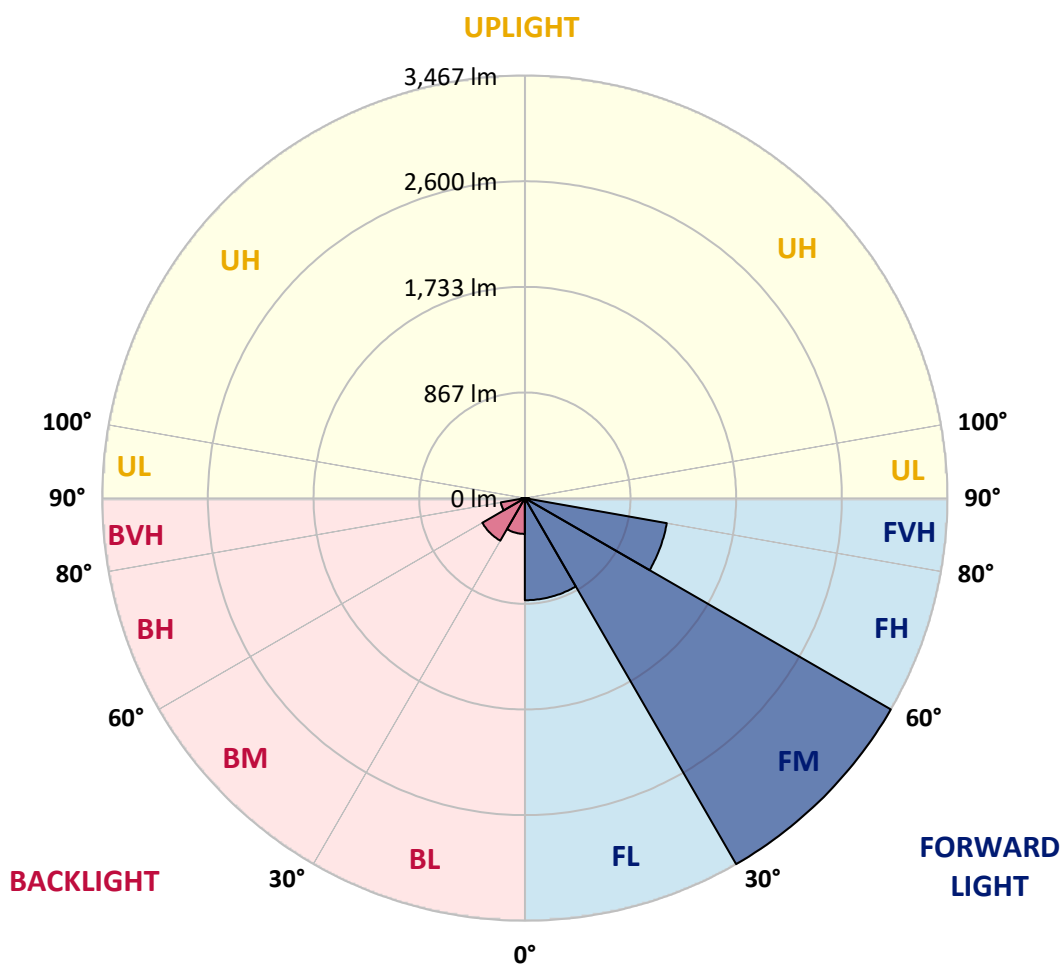
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	837.3	13.0			
FM	(30°-60°)	3466.9	53.7			
FH	(60°-80°)	1182.2	18.3			G1/1800
FVH	(80°-90°)	37.2	0.6			G1/100
BL	(0°-30°)	293.5	4.6	B1/500		
BM	(30°-60°)	403.1	6.2	B1/1000		
BH	(60°-80°)	200.1	3.1	B1/500		G1/500
BVH	(80°-90°)	30.7	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°	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7
2.5°	1664.9	1658.9	1658.9	1643.4	1620.5	1588.7	1550.9	1541.5	1527.0	1490.1	1442.4
5°	1918.8	1912.3	1903.4	1876.3	1833.7	1770.1	1690.2	1675.7	1623.8	1547.6	1461.5
7.5°	2086.7	2082.9	2080.1	2056.7	2014.7	1952.0	1844.9	1828.6	1740.7	1614.4	1479.8
10°	2069.4	2080.6	2100.2	2116.6	2125.0	2092.7	1992.2	1973.0	1864.1	1692.0	1506.9
12.5°	1907.1	1923.0	1959.5	2026.3	2103.5	2165.7	2108.6	2097.9	1996.0	1774.3	1541.0
15°	1786.5	1793.0	1810.8	1860.4	1975.4	2141.4	2198.9	2189.1	2118.9	1880.0	1580.3
17.5°	1749.1	1751.9	1756.1	1772.5	1851.0	2046.4	2235.8	2245.2	2238.1	1989.9	1624.7
20°	1767.8	1769.7	1770.1	1772.9	1810.3	1967.0	2226.0	2241.9	2342.9	2099.7	1668.7
22.5°	1839.8	1837.5	1834.2	1823.4	1844.5	1952.9	2199.8	2225.1	2423.8	2199.8	1709.3
25°	1965.6	1962.3	1939.4	1916.9	1925.8	2003.4	2185.8	2212.9	2486.9	2294.2	1739.3
27.5°	2115.2	2111.9	2088.5	2046.0	2036.6	2087.6	2218.5	2235.3	2533.2	2377.9	1752.4
30°	2270.4	2270.4	2241.4	2192.3	2162.4	2183.9	2278.8	2292.4	2568.2	2458.8	1760.8
32.5°	2439.7	2444.3	2399.4	2343.3	2310.1	2297.5	2363.4	2375.1	2619.2	2554.2	1778.5
35°	2657.1	2646.8	2592.1	2518.2	2464.9	2436.4	2468.2	2481.7	2694.0	2673.0	1807.1
37.5°	2901.6	2883.4	2816.0	2727.7	2634.6	2586.9	2608.0	2611.2	2804.8	2827.7	1859.0
40°	3103.6	3100.3	3043.3	2959.6	2842.2	2778.2	2767.9	2769.7	2958.6	3011.0	1937.5
42.5°	3273.8	3261.6	3251.3	3221.9	3097.5	2992.3	2950.2	2950.7	3125.5	3200.4	2016.5
45°	3349.0	3346.7	3377.1	3452.8	3363.5	3239.6	3179.8	3188.2	3316.8	3394.9	2092.7
47.5°	3316.8	3318.6	3400.0	3598.7	3651.5	3556.6	3450.5	3445.3	3501.9	3544.0	2160.1
50°	3028.8	3059.2	3279.4	3612.3	3840.4	3887.6	3768.0	3748.8	3664.2	3662.8	2201.2
52.5°	2811.4	2810.0	2945.1	3474.3	3907.3	4186.4	4078.9	4035.9	3798.3	3729.6	2204.5
55°	2517.7	2515.9	2616.4	3070.8	3774.5	4394.9	4372.0	4318.3	3921.3	3751.6	2182.0
57.5°	1906.7	1942.2	2042.2	2458.4	3353.7	4361.7	4652.1	4607.2	4041.5	3741.8	2177.8
60°	1037.5	1033.3	1178.2	1602.3	2567.8	3984.9	4774.1	4771.8	4169.1	3738.0	2203.5
62.5°	478.3	473.6	502.6	713.5	1472.3	3192.4	4538.5	4572.1	4287.4	3703.9	2201.2
65°	357.7	345.5	306.2	332.0	563.4	1905.7	3854.9	3944.7	4105.1	3563.6	2099.3
67.5°	318.9	307.2	261.4	245.0	282.9	672.3	2796.4	2879.1	3432.7	3300.9	1934.2
70°	292.2	281.9	236.1	210.4	212.3	297.8	1463.9	1626.6	2515.9	2754.8	1648.6
72.5°	266.5	257.6	216.0	185.1	178.6	196.8	498.9	601.7	1564.9	2007.6	1229.2
75°	239.4	231.0	194.5	166.0	153.4	145.9	237.5	255.7	827.6	1108.6	659.7
77.5°	208.1	203.4	173.5	146.3	135.6	110.3	158.0	166.0	354.4	435.3	314.2
80°	180.9	177.2	154.8	132.8	121.6	85.1	108.9	114.5	174.9	217.4	175.8
82.5°	117.8	127.2	128.1	114.1	107.1	68.3	72.0	76.2	116.0	128.1	76.7
85°	48.6	58.9	88.4	78.5	74.3	58.0	47.7	48.6	71.1	74.8	27.6
87.5°	22.0	24.3	43.5	43.9	38.3	22.0	23.8	26.2	36.5	36.0	12.2
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°	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7	1430.7
2.5°	1429.3	1407.8	1369.4	1320.4	1285.3	1259.6	1231.5	1210.9	1188.0	1167.9	1171.2
5°	1426.0	1384.4	1298.4	1207.2	1118.4	1045.4	984.7	939.8	893.5	875.2	872.9
7.5°	1428.8	1358.2	1217.0	1067.9	932.8	839.7	769.1	726.6	699.9	684.5	685.4
10°	1427.9	1333.4	1129.1	923.4	775.7	690.6	647.6	633.5	631.2	633.1	635.9
12.5°	1429.3	1299.8	1030.5	793.4	663.0	619.5	621.4	634.0	641.9	647.1	650.4
15°	1435.4	1272.2	929.5	691.0	604.1	605.5	625.6	645.2	656.9	662.5	665.3
17.5°	1444.3	1237.6	839.7	613.4	579.3	600.8	627.0	648.0	656.9	660.2	662.5
20°	1445.2	1197.9	749.0	560.1	562.9	591.0	613.9	630.7	641.9	645.7	647.6
22.5°	1441.0	1144.1	656.0	521.3	544.2	572.3	591.9	611.1	596.1	584.0	580.7
25°	1423.2	1076.3	576.5	489.5	520.8	547.0	569.5	548.4	541.4	532.1	533.0
27.5°	1384.9	991.7	501.7	459.6	493.3	530.7	514.3	511.5	502.6	493.3	493.3
30°	1334.4	902.4	439.0	428.3	460.1	478.8	482.5	478.3	473.2	461.0	461.9
32.5°	1289.0	807.9	394.6	402.1	439.0	439.0	455.4	455.4	436.7	402.6	402.6
35°	1244.1	719.1	361.9	380.1	404.4	412.4	434.8	405.4	378.7	363.3	362.3
37.5°	1209.1	643.3	340.4	361.4	370.8	390.9	391.3	369.8	360.9	346.9	345.5
40°	1188.5	579.8	327.3	352.1	353.0	371.7	340.8	346.9	345.0	334.3	332.9
42.5°	1177.3	530.7	317.5	344.1	339.4	321.2	315.6	325.9	329.2	323.5	321.2
45°	1168.4	492.3	309.5	316.5	328.7	295.5	293.2	301.1	308.1	307.6	305.8
47.5°	1163.7	465.7	302.5	299.2	301.6	280.1	275.4	279.1	288.0	293.6	293.2
50°	1145.5	445.1	292.2	281.5	266.5	266.5	264.2	264.2	274.9	286.1	287.1
52.5°	1113.2	420.8	277.3	264.6	247.3	254.8	255.7	253.9	265.1	277.3	278.2
55°	1077.7	402.6	257.2	249.2	231.4	244.1	248.3	246.4	253.9	262.3	261.8
57.5°	1078.2	402.1	239.9	233.8	216.5	230.5	240.8	241.3	240.8	246.9	246.9
60°	1105.3	411.4	226.3	213.2	199.2	216.0	232.8	232.8	229.6	238.4	239.4
62.5°	1113.2	410.5	217.9	193.6	183.7	202.9	221.1	224.0	221.6	234.2	235.6
65°	1043.1	388.5	209.5	175.8	169.7	188.4	206.7	214.6	212.3	228.6	230.5
67.5°	945.8	360.0	196.4	159.9	155.2	174.4	191.7	200.1	199.6	221.1	222.1
70°	815.4	324.9	180.0	143.5	141.2	158.0	173.5	182.3	186.6	211.3	210.9
72.5°	631.7	278.7	155.2	126.2	125.8	141.2	154.8	164.6	172.5	196.4	196.4
75°	407.2	219.3	126.7	109.4	107.5	122.0	136.1	147.3	171.6	209.5	209.0
77.5°	248.7	167.4	101.9	91.2	90.7	103.8	117.8	137.0	187.5	186.6	181.4
80°	149.1	120.2	81.4	72.9	72.9	85.1	100.5	146.8	155.7	177.7	167.8
82.5°	77.6	73.9	60.8	53.8	56.1	66.9	91.6	117.4	127.2	108.0	99.1
85°	31.8	39.3	37.4	34.1	35.5	46.3	88.4	94.0	75.3	79.0	79.5
87.5°	10.8	17.3	17.3	13.6	15.0	32.7	52.4	31.3	37.9	22.4	16.8
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)