

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: P672050

Luminaire Tested: **CCP-SA-2B-850-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL
distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6081.5 lumens
Efficiency: N/A
Efficacy: 132.2 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): 46
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

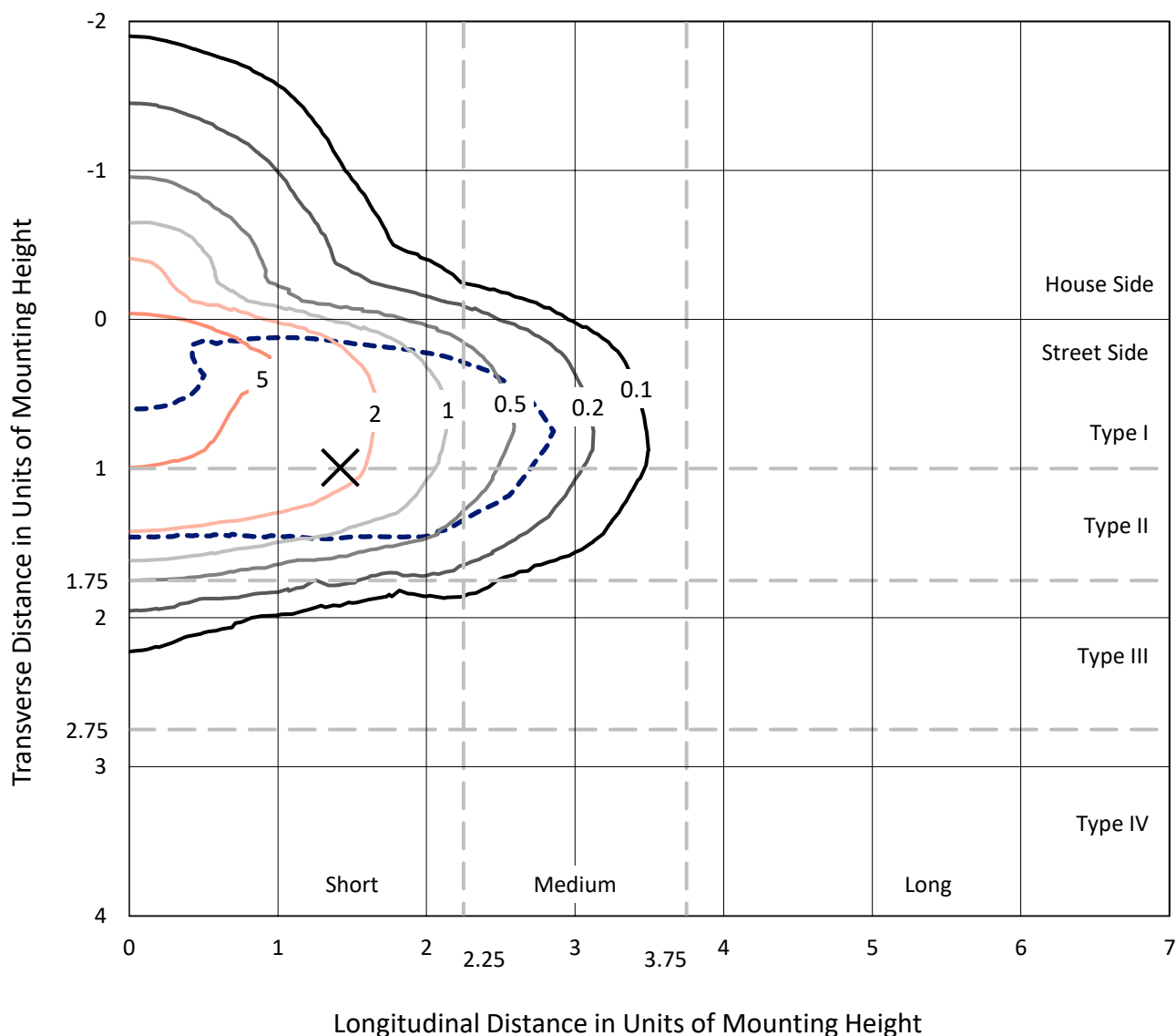
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

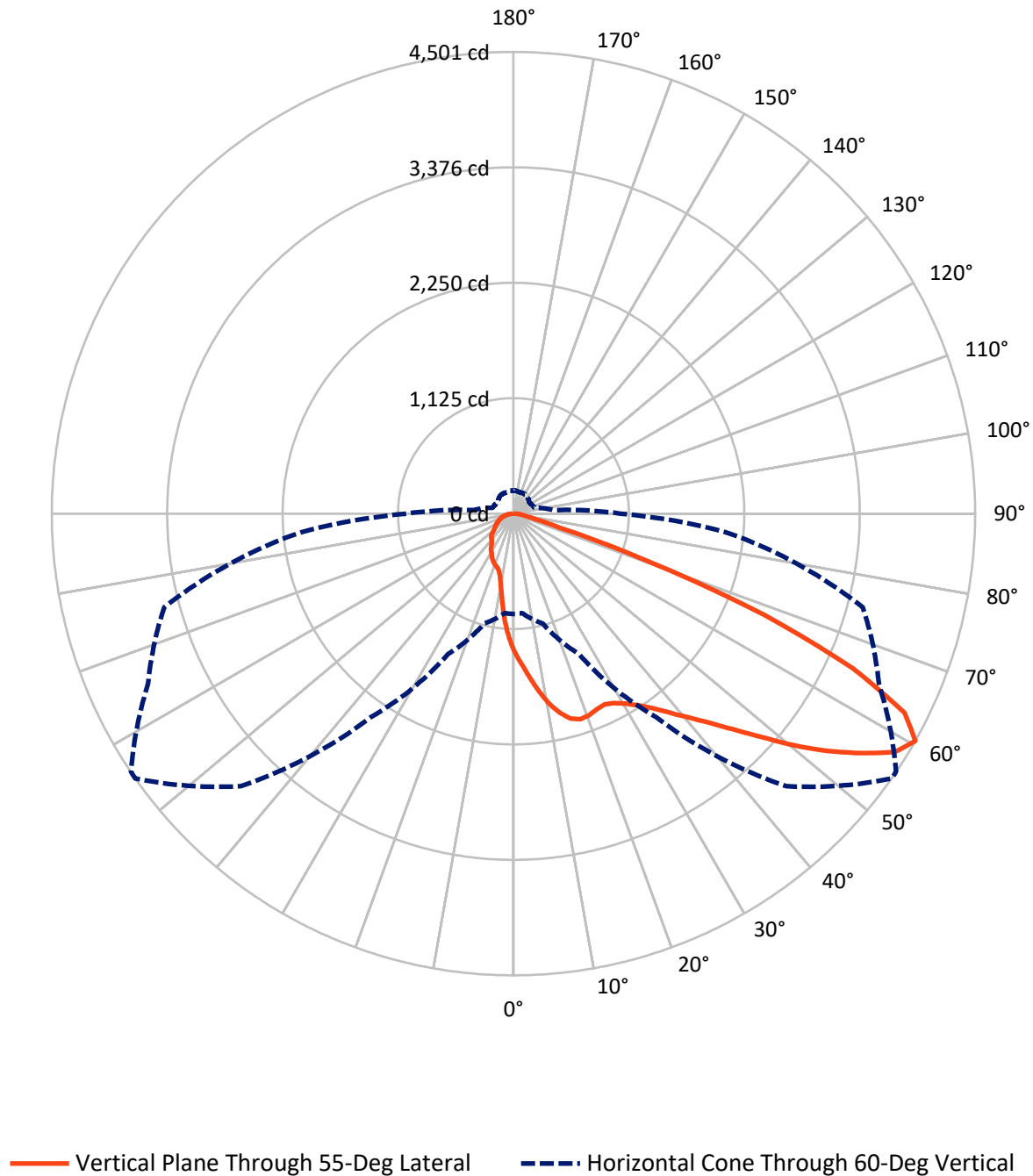


Based on 15 foot mounting height. Maximum calculated value = 8.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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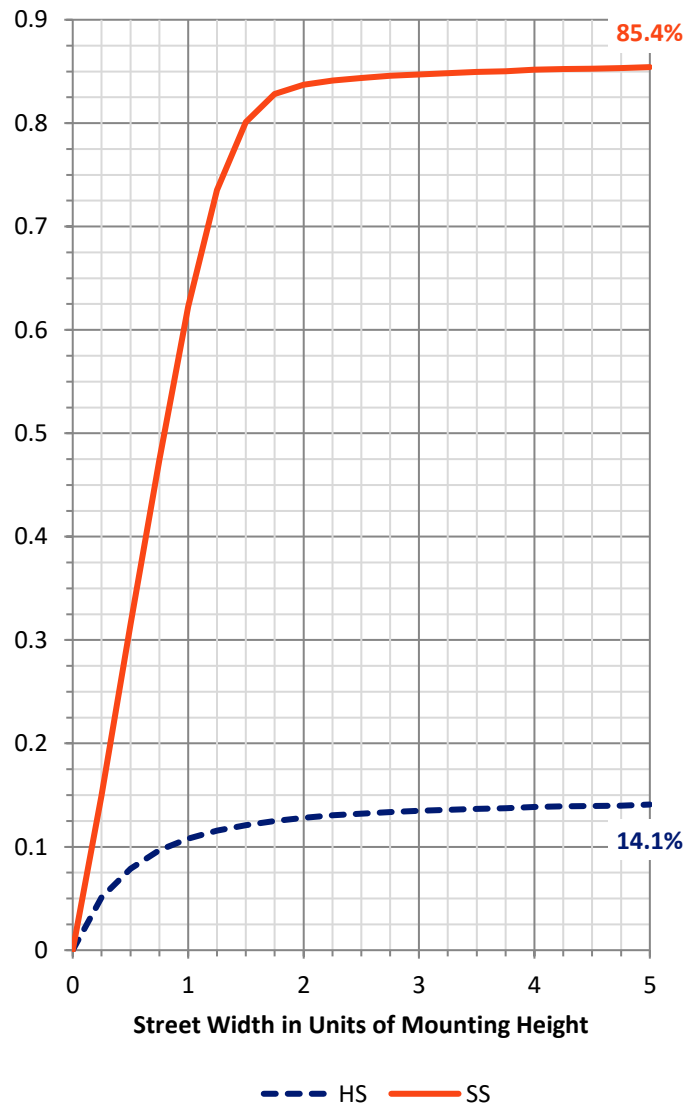
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.2	0.0	874.2
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	5207.3	0.0	5207.3
	% Fixture	85.6	0.0	85.6
Total	Lumens	6081.5	0.0	6081.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.1
10°-20°	357.6	5.9
20°-30°	582.2	9.6
30°-40°	870.2	14.3
40°-50°	1279.0	21.0
50°-60°	1499.1	24.6
60°-70°	988.4	16.3
70°-80°	314.7	5.2
80°-90°	64.0	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°	6081.5	100.0
0°-180°	6081.5	100.0

Coefficient of Utilization



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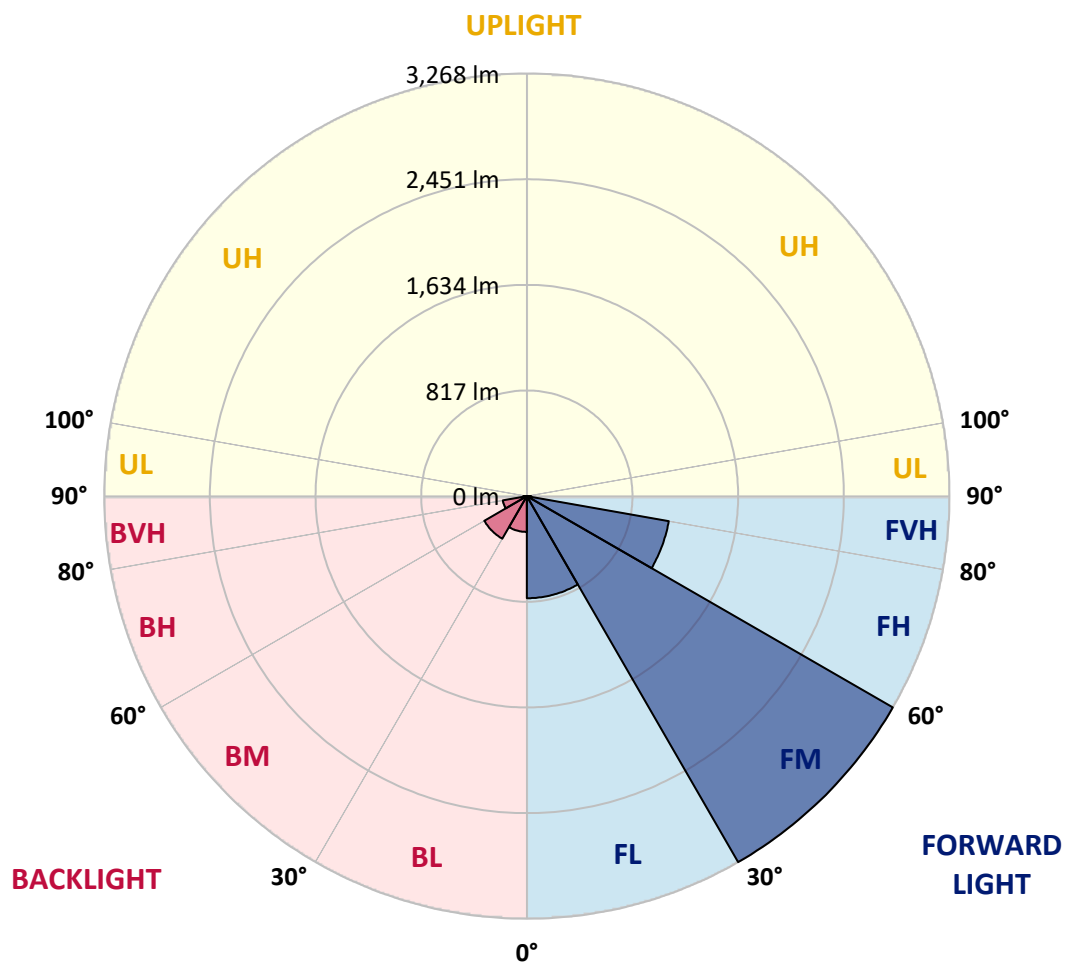
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.3	13.0			
FM	(30°-60°)	3268.3	53.7			
FH	(60°-80°)	1114.5	18.3			G1/1800
FVH	(80°-90°)	35.1	0.6			G1/100
BL	(0°-30°)	276.7	4.6	B1/500		
BM	(30°-60°)	380.0	6.2	B1/1000		
BH	(60°-80°)	188.6	3.1	B1/500		G1/500
BVH	(80°-90°)	28.9	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°	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7
2.5°	1569.6	1563.8	1563.8	1549.3	1527.7	1497.7	1462.0	1453.2	1439.5	1404.7	1359.8
5°	1808.9	1802.7	1794.4	1768.8	1728.7	1668.7	1593.4	1579.7	1530.8	1458.9	1377.8
7.5°	1967.1	1963.6	1961.0	1938.9	1899.3	1840.2	1739.3	1723.8	1641.0	1522.0	1395.0
10°	1950.8	1961.4	1979.9	1995.3	2003.3	1972.9	1878.1	1860.0	1757.3	1595.1	1420.6
12.5°	1797.9	1812.9	1847.2	1910.3	1983.0	2041.6	1987.8	1977.7	1881.6	1672.7	1452.8
15°	1684.2	1690.3	1707.1	1753.8	1862.2	2018.7	2072.9	2063.7	1997.5	1772.3	1489.8
17.5°	1648.9	1651.5	1655.5	1670.9	1745.0	1929.2	2107.7	2116.6	2109.9	1875.9	1531.7
20°	1666.5	1668.3	1668.7	1671.4	1706.6	1854.3	2098.5	2113.5	2208.7	1979.5	1573.1
22.5°	1734.4	1732.2	1729.1	1719.0	1738.8	1841.1	2073.8	2097.6	2284.9	2073.8	1611.4
25°	1853.0	1849.9	1828.3	1807.1	1815.5	1888.7	2060.6	2086.1	2344.4	2162.8	1639.6
27.5°	1994.0	1990.9	1968.9	1928.8	1920.0	1968.0	2091.4	2107.3	2388.1	2241.7	1652.0
30°	2140.4	2140.4	2113.0	2066.7	2038.5	2058.8	2148.3	2161.1	2421.1	2318.0	1659.9
32.5°	2299.9	2304.3	2262.0	2209.1	2177.8	2165.9	2228.1	2239.1	2469.2	2407.9	1676.7
35°	2504.9	2495.2	2443.6	2374.0	2323.7	2296.8	2326.8	2339.6	2539.7	2519.9	1703.6
37.5°	2735.4	2718.2	2654.7	2571.4	2483.7	2438.8	2458.6	2461.7	2644.1	2665.7	1752.5
40°	2925.8	2922.7	2868.9	2790.0	2679.4	2619.0	2609.3	2611.1	2789.2	2838.5	1826.5
42.5°	3086.2	3074.8	3065.1	3037.3	2920.1	2820.9	2781.2	2781.7	2946.5	3017.0	1901.0
45°	3157.2	3155.0	3183.6	3255.0	3170.9	3054.1	2997.6	3005.6	3126.8	3200.4	1972.9
47.5°	3126.8	3128.5	3205.2	3392.6	3442.4	3352.9	3252.8	3248.0	3301.3	3341.0	2036.3
50°	2855.3	2883.9	3091.5	3405.3	3620.4	3665.0	3552.1	3534.1	3454.3	3453.0	2075.1
52.5°	2650.3	2649.0	2776.4	3275.3	3683.5	3946.6	3845.2	3804.7	3580.8	3516.0	2078.2
55°	2373.5	2371.8	2466.5	2894.9	3558.3	4143.2	4121.6	4070.9	3696.7	3536.7	2057.0
57.5°	1797.4	1830.9	1925.3	2317.5	3161.6	4111.9	4385.6	4343.3	3810.0	3527.4	2053.1
60°	978.1	974.1	1110.7	1510.5	2420.7	3756.6	4500.7	4498.4	3930.3	3523.9	2077.3
62.5°	450.9	446.5	473.8	672.6	1388.0	3009.5	4278.5	4310.2	4041.8	3491.7	2075.1
65°	337.2	325.7	288.7	312.9	531.1	1796.6	3634.1	3718.7	3869.9	3359.5	1979.0
67.5°	300.6	289.6	246.4	231.0	266.7	633.8	2636.2	2714.2	3236.1	3111.8	1823.4
70°	275.5	265.8	222.6	198.3	200.1	280.8	1380.0	1533.4	2371.8	2597.0	1554.1
72.5°	251.2	242.9	203.6	174.5	168.4	185.6	470.3	567.3	1475.2	1892.6	1158.8
75°	225.7	217.7	183.4	156.5	144.6	137.5	223.9	241.1	780.2	1045.1	621.9
77.5°	196.1	191.7	163.5	138.0	127.8	104.0	149.0	156.5	334.1	410.4	296.2
80°	170.6	167.0	145.9	125.2	114.6	80.2	102.7	108.0	164.8	205.0	165.7
82.5°	111.1	119.9	120.8	107.5	100.9	64.4	67.9	71.8	109.3	120.8	72.3
85°	45.8	55.5	83.3	74.0	70.1	54.7	45.0	45.8	67.0	70.5	26.0
87.5°	20.7	22.9	41.0	41.4	36.1	20.7	22.5	24.7	34.4	33.9	11.5
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°	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7	1348.7
2.5°	1347.4	1327.1	1291.0	1244.7	1211.7	1187.4	1161.0	1141.6	1120.0	1101.0	1104.1
5°	1344.3	1305.1	1224.0	1138.1	1054.3	985.6	928.3	885.9	842.3	825.1	822.9
7.5°	1347.0	1280.4	1147.3	1006.7	879.3	791.6	725.1	684.9	659.8	645.3	646.2
10°	1346.1	1257.1	1064.4	870.5	731.2	651.0	610.5	597.2	595.0	596.8	599.4
12.5°	1347.4	1225.3	971.4	748.0	625.0	584.0	585.8	597.7	605.2	610.0	613.1
15°	1353.1	1199.3	876.2	651.5	569.5	570.8	589.7	608.3	619.3	624.6	627.2
17.5°	1361.5	1166.7	791.6	578.3	546.1	566.4	591.1	610.9	619.3	622.4	624.6
20°	1362.4	1129.2	706.1	528.0	530.7	557.1	578.7	594.6	605.2	608.7	610.5
22.5°	1358.4	1078.6	618.4	491.5	513.1	539.5	558.0	576.1	562.0	550.5	547.4
25°	1341.7	1014.6	543.5	461.5	491.0	515.7	536.9	517.0	510.4	501.6	502.5
27.5°	1305.5	934.9	472.9	433.3	465.0	500.3	484.8	482.2	473.8	465.0	465.0
30°	1257.9	850.7	413.9	403.7	433.7	451.3	454.9	450.9	446.1	434.6	435.5
32.5°	1215.2	761.6	372.0	379.1	413.9	413.9	429.3	429.3	411.7	379.5	379.5
35°	1172.9	677.9	341.2	358.3	381.3	388.8	409.9	382.1	357.0	342.5	341.6
37.5°	1139.8	606.5	320.9	340.7	349.5	368.5	368.9	348.6	340.3	327.0	325.7
40°	1120.4	546.5	308.5	331.9	332.8	350.4	321.3	327.0	325.3	315.1	313.8
42.5°	1109.8	500.3	299.3	324.4	320.0	302.8	297.5	307.2	310.3	305.0	302.8
45°	1101.5	464.1	291.8	298.4	309.9	278.6	276.4	283.9	290.5	290.0	288.3
47.5°	1097.1	439.0	285.2	282.1	284.3	264.0	259.6	263.1	271.5	276.8	276.4
50°	1079.9	419.6	275.5	265.3	251.2	251.2	249.0	249.0	259.2	269.7	270.6
52.5°	1049.5	396.7	261.4	249.5	233.2	240.2	241.1	239.3	249.9	261.4	262.3
55°	1016.0	379.5	242.4	234.9	218.2	230.1	234.0	232.3	239.3	247.3	246.8
57.5°	1016.4	379.1	226.1	220.4	204.1	217.3	227.0	227.4	227.0	232.7	232.7
60°	1042.0	387.9	213.3	201.0	187.8	203.6	219.5	219.5	216.4	224.8	225.7
62.5°	1049.5	387.0	205.4	182.5	173.2	191.3	208.5	211.1	208.9	220.8	222.1
65°	983.3	366.3	197.5	165.7	160.0	177.6	194.8	202.3	200.1	215.5	217.3
67.5°	891.7	339.4	185.1	150.7	146.3	164.4	180.7	188.6	188.2	208.5	209.4
70°	768.7	306.3	169.7	135.3	133.1	149.0	163.5	171.9	175.9	199.2	198.8
72.5°	595.5	262.7	146.3	119.0	118.6	133.1	145.9	155.1	162.6	185.1	185.1
75°	383.9	206.7	119.4	103.1	101.4	115.0	128.3	138.8	161.8	197.5	197.0
77.5°	234.5	157.8	96.1	85.9	85.5	97.8	111.1	129.1	176.7	175.9	171.0
80°	140.6	113.3	76.7	68.8	68.8	80.2	94.8	138.4	146.8	167.5	158.2
82.5°	73.2	69.6	57.3	50.7	52.9	63.0	86.4	110.6	119.9	101.8	93.4
85°	30.0	37.0	35.3	32.2	33.5	43.6	83.3	88.6	71.0	74.5	74.9
87.5°	10.1	16.3	16.3	12.8	14.1	30.9	49.4	29.5	35.7	21.2	15.9
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)