

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: P672017

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

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672017
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5537.9 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

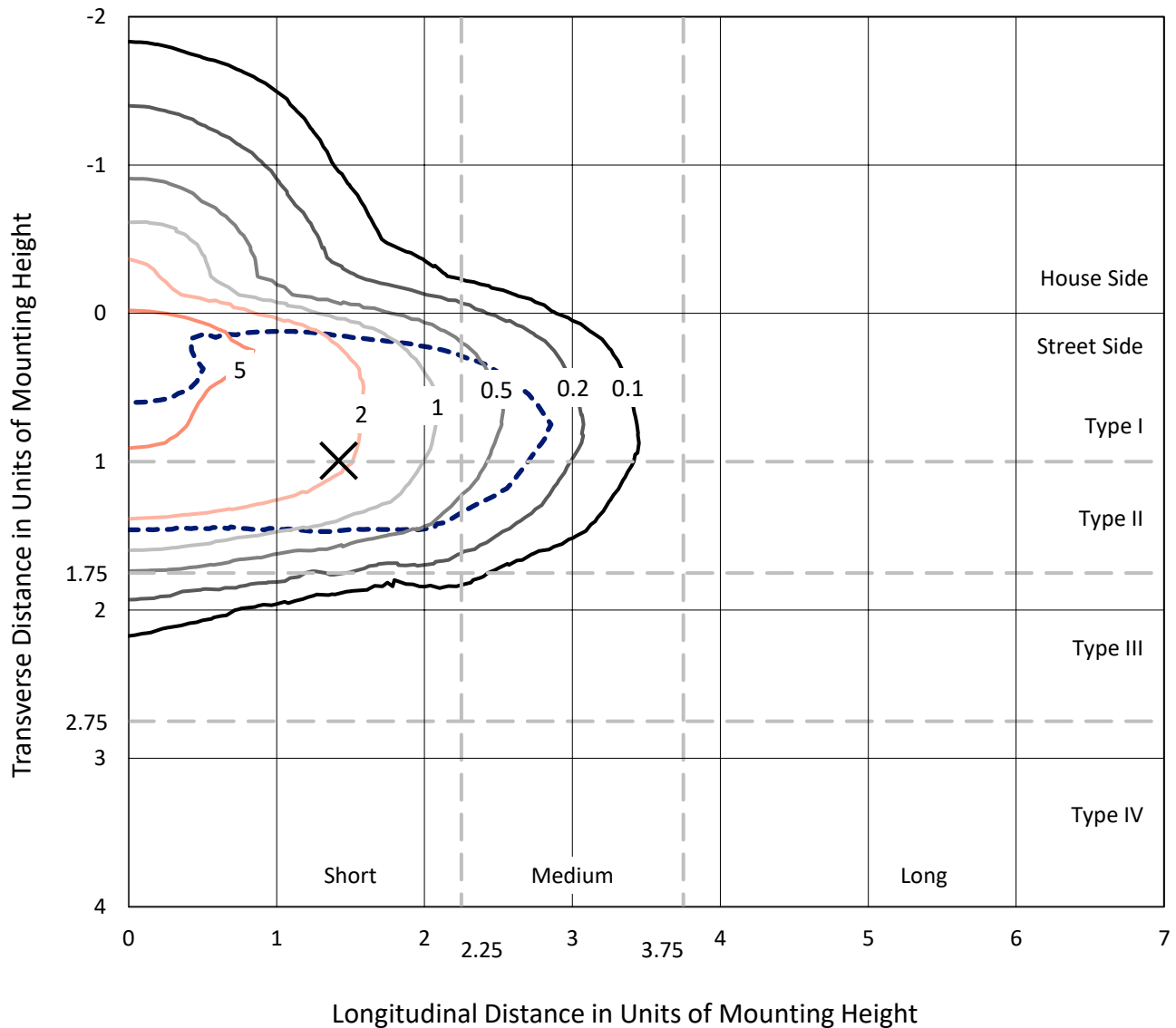
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

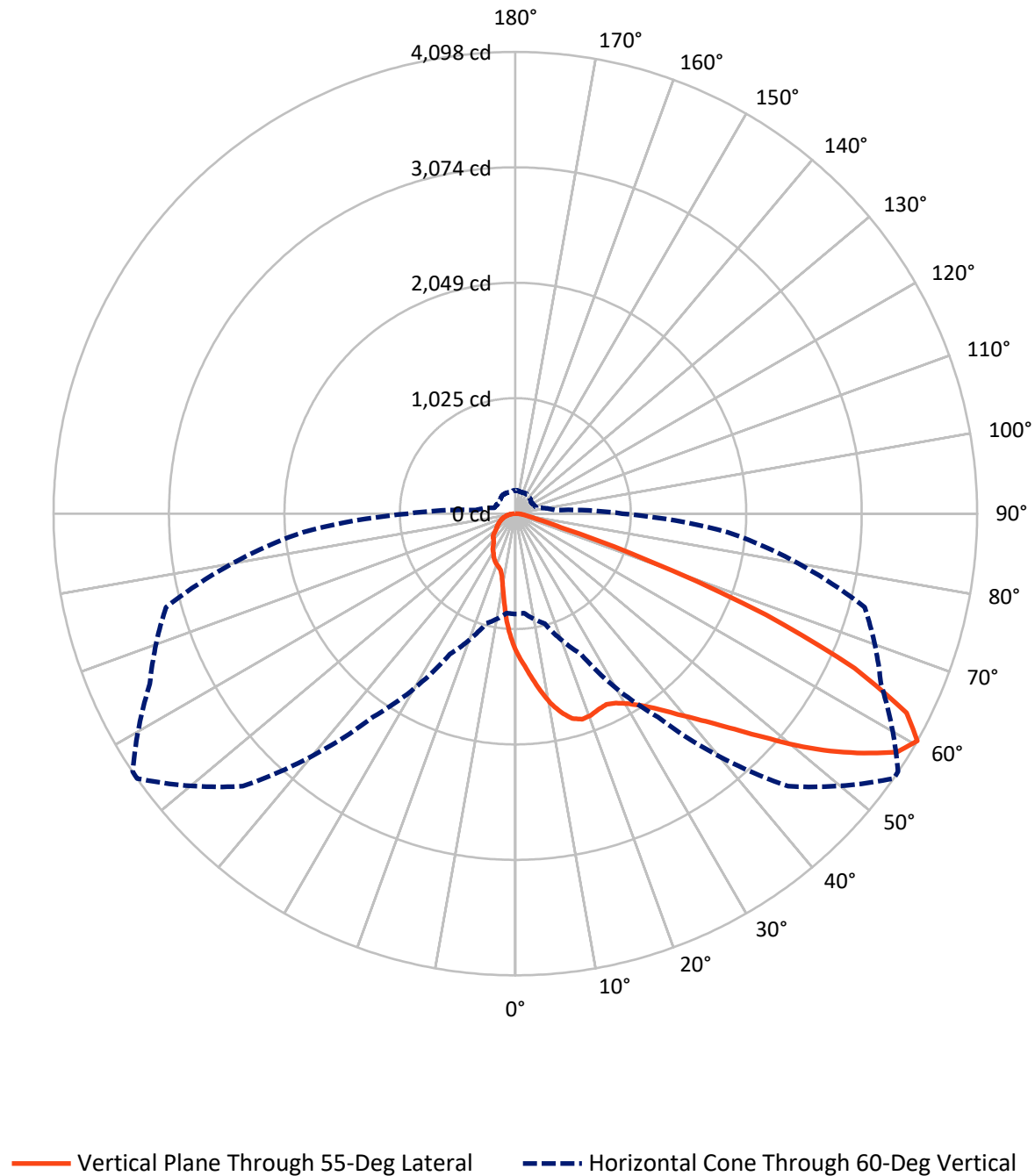


Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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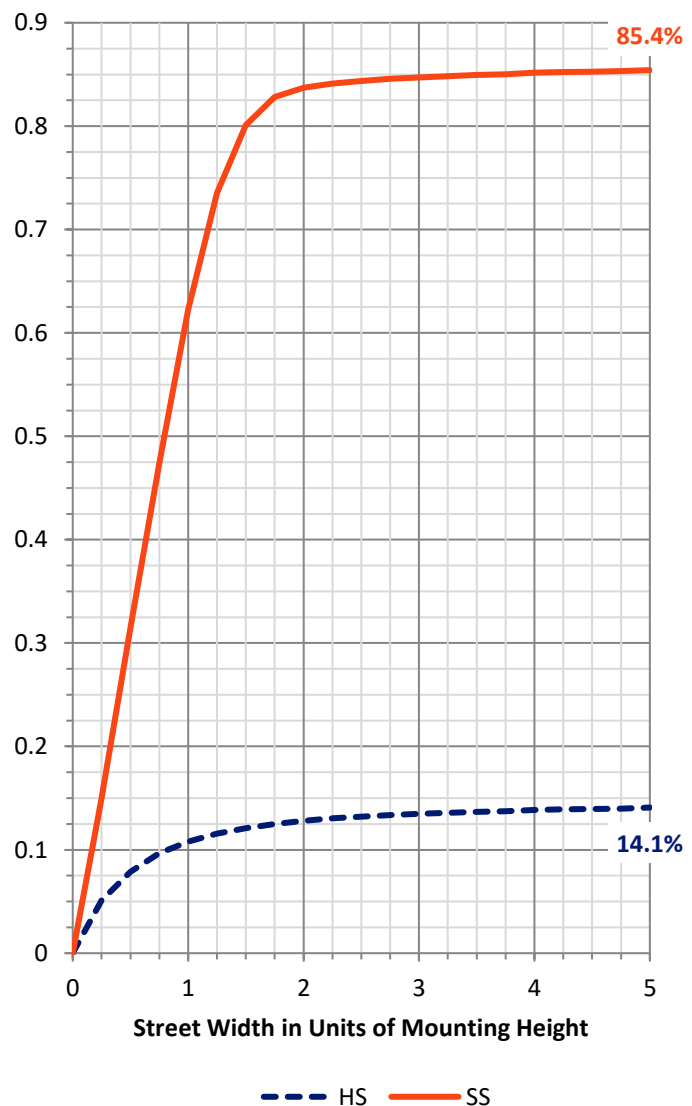
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.1	0.0	796.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4741.8	0.0	4741.8
	% Fixture	85.6	0.0	85.6
Total	Lumens	5537.9	0.0	5537.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.1
10°-20°	325.6	5.9
20°-30°	530.2	9.6
30°-40°	792.4	14.3
40°-50°	1164.7	21.0
50°-60°	1365.1	24.6
60°-70°	900.1	16.3
70°-80°	286.6	5.2
80°-90°	58.3	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°	5537.9	100.0
0°-180°	5537.9	100.0

Coefficient of Utilization



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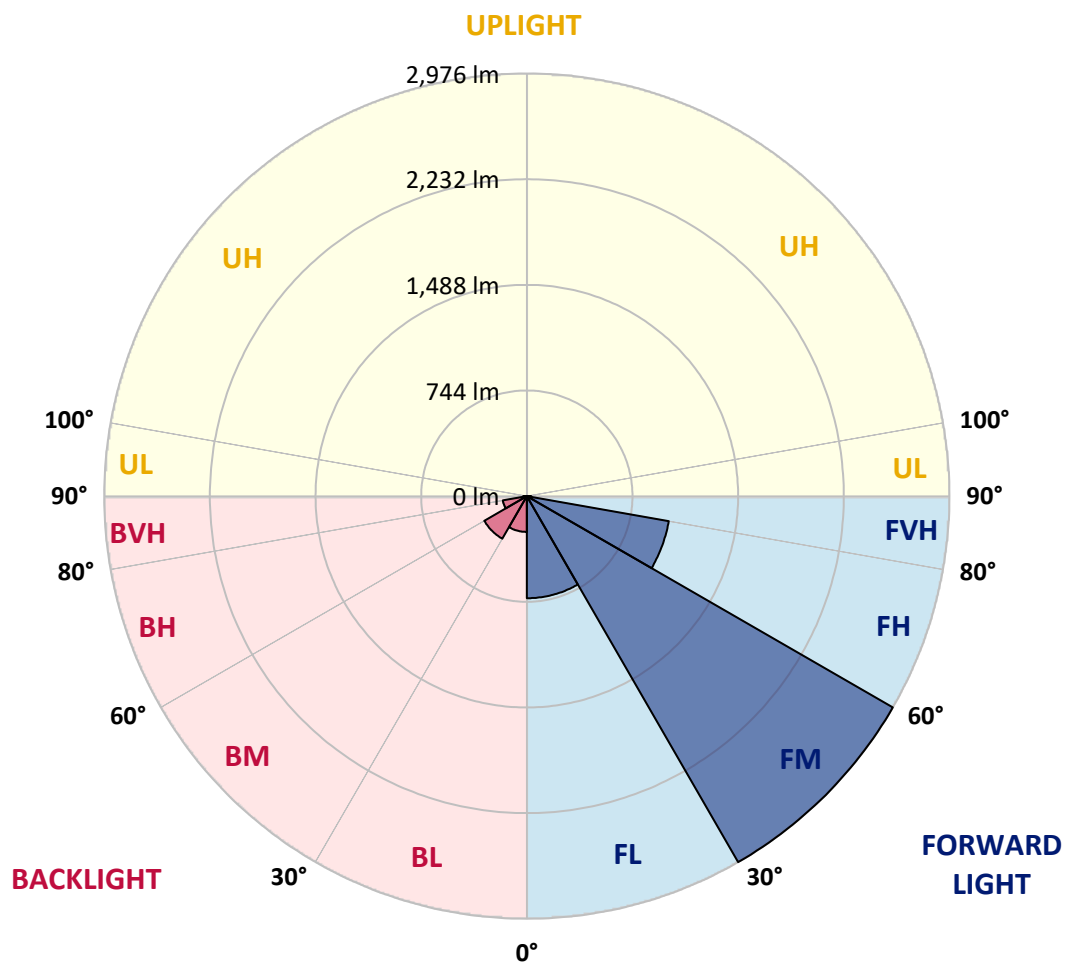
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.8	13.0			
FM	(30°-60°)	2976.2	53.7			
FH	(60°-80°)	1014.9	18.3			G1/1800
FVH	(80°-90°)	32.0	0.6			G1/100
BL	(0°-30°)	252.0	4.6	B1/500		
BM	(30°-60°)	346.0	6.2	B1/1000		
BH	(60°-80°)	171.8	3.1	B1/500		G1/500
BVH	(80°-90°)	26.3	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°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1429.3	1424.0	1424.0	1410.8	1391.1	1363.8	1331.3	1323.3	1310.9	1279.2	1238.2
5°	1647.2	1641.6	1634.0	1610.7	1574.2	1519.6	1450.9	1438.5	1393.9	1328.5	1254.7
7.5°	1791.3	1788.1	1785.7	1765.6	1729.5	1675.7	1583.8	1569.7	1494.3	1385.9	1270.3
10°	1776.4	1786.1	1802.9	1817.0	1824.2	1796.5	1710.2	1693.8	1600.2	1452.5	1293.6
12.5°	1637.2	1650.8	1682.1	1739.5	1805.7	1859.1	1810.2	1800.9	1713.4	1523.2	1322.9
15°	1533.6	1539.2	1554.5	1597.0	1695.8	1838.3	1887.6	1879.2	1819.0	1613.9	1356.6
17.5°	1501.5	1503.9	1507.5	1521.6	1589.0	1756.8	1919.3	1927.4	1921.3	1708.2	1394.7
20°	1517.6	1519.2	1519.6	1522.0	1554.1	1688.5	1910.9	1924.5	2011.2	1802.5	1432.5
22.5°	1579.4	1577.4	1574.6	1565.3	1583.4	1676.5	1888.4	1910.1	2080.7	1888.4	1467.4
25°	1687.3	1684.5	1664.9	1645.6	1653.2	1719.9	1876.4	1899.7	2134.9	1969.5	1493.1
27.5°	1815.8	1813.0	1792.9	1756.4	1748.3	1792.1	1904.5	1918.9	2174.6	2041.3	1504.3
30°	1949.0	1949.0	1924.1	1882.0	1856.3	1874.8	1956.3	1967.9	2204.7	2110.8	1511.5
32.5°	2094.3	2098.3	2059.8	2011.6	1983.1	1972.3	2028.9	2038.9	2248.5	2192.7	1526.8
35°	2281.0	2272.1	2225.2	2161.8	2116.0	2091.5	2118.8	2130.4	2312.7	2294.6	1551.3
37.5°	2490.9	2475.2	2417.4	2341.6	2261.7	2220.8	2238.8	2241.6	2407.8	2427.5	1595.8
40°	2664.3	2661.5	2612.5	2540.6	2439.9	2384.9	2376.1	2377.7	2539.8	2584.8	1663.3
42.5°	2810.4	2799.9	2791.1	2765.8	2659.0	2568.7	2532.6	2533.0	2683.1	2747.3	1731.1
45°	2875.0	2873.0	2899.1	2964.1	2887.4	2781.1	2729.7	2736.9	2847.3	2914.3	1796.5
47.5°	2847.3	2848.9	2918.7	3089.3	3134.7	3053.2	2962.1	2957.7	3006.2	3042.4	1854.3
50°	2600.0	2626.1	2815.2	3101.0	3296.8	3337.4	3234.6	3218.2	3145.5	3144.3	1889.6
52.5°	2413.4	2412.2	2528.2	2982.5	3354.2	3593.8	3501.5	3464.6	3260.7	3201.7	1892.4
55°	2161.4	2159.7	2246.0	2636.2	3240.2	3772.8	3753.2	3707.0	3366.3	3220.6	1873.2
57.5°	1636.8	1667.3	1753.2	2110.4	2879.0	3744.3	3993.6	3955.1	3469.4	3212.1	1869.6
60°	890.6	887.0	1011.4	1375.5	2204.3	3420.8	4098.3	4096.3	3579.0	3208.9	1891.6
62.5°	410.6	406.6	431.5	612.5	1263.9	2740.5	3896.1	3925.0	3680.5	3179.6	1889.6
65°	307.0	296.6	262.9	285.0	483.6	1636.0	3309.3	3386.3	3524.0	3059.2	1802.1
67.5°	273.7	263.7	224.4	210.3	242.8	577.2	2400.6	2471.6	2946.8	2833.6	1660.5
70°	250.9	242.0	202.7	180.6	182.2	255.7	1256.7	1396.4	2159.7	2364.8	1415.2
72.5°	228.8	221.2	185.4	158.9	153.3	169.0	428.3	516.6	1343.4	1723.5	1055.2
75°	205.5	198.3	167.0	142.5	131.6	125.2	203.9	219.5	710.4	951.6	566.3
77.5°	178.6	174.6	148.9	125.6	116.4	94.7	135.7	142.5	304.2	373.7	269.7
80°	155.3	152.1	132.9	114.0	104.4	73.0	93.5	98.3	150.1	186.6	150.9
82.5°	101.1	109.2	110.0	97.9	91.9	58.6	61.8	65.4	99.5	110.0	65.8
85°	41.7	50.6	75.9	67.4	63.8	49.8	40.9	41.7	61.0	64.2	23.7
87.5°	18.9	20.9	37.3	37.7	32.9	18.9	20.5	22.5	31.3	30.9	10.4
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°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1227.0	1208.5	1175.6	1133.5	1103.4	1081.3	1057.2	1039.5	1019.9	1002.6	1005.4
5°	1224.2	1188.4	1114.6	1036.3	960.1	897.5	845.3	806.7	767.0	751.4	749.3
7.5°	1226.6	1166.0	1044.8	916.7	800.7	720.9	660.2	623.7	600.8	587.6	588.4
10°	1225.8	1144.7	969.3	792.7	665.9	592.8	555.9	543.9	541.8	543.4	545.9
12.5°	1227.0	1115.8	884.6	681.1	569.1	531.8	533.4	544.3	551.1	555.5	558.3
15°	1232.2	1092.1	797.9	593.2	518.6	519.8	537.0	553.9	563.9	568.7	571.1
17.5°	1239.8	1062.4	720.9	526.6	497.3	515.8	538.2	556.3	563.9	566.7	568.7
20°	1240.6	1028.3	643.0	480.8	483.2	507.3	527.0	541.4	551.1	554.3	555.9
22.5°	1237.0	982.1	563.1	447.5	467.2	491.3	508.1	524.6	511.7	501.3	498.5
25°	1221.8	923.9	494.9	420.2	447.1	469.6	488.9	470.8	464.8	456.8	457.6
27.5°	1188.8	851.3	430.7	394.5	423.4	455.6	441.5	439.1	431.5	423.4	423.4
30°	1145.5	774.6	376.9	367.7	394.9	411.0	414.2	410.6	406.2	395.7	396.5
32.5°	1106.6	693.6	338.8	345.2	376.9	376.9	390.9	390.9	374.9	345.6	345.6
35°	1068.0	617.3	310.7	326.3	347.2	354.0	373.3	348.0	325.1	311.9	311.1
37.5°	1037.9	552.3	292.2	310.3	318.3	335.5	335.9	317.5	309.9	297.8	296.6
40°	1020.3	497.7	281.0	302.2	303.0	319.1	292.6	297.8	296.2	287.0	285.8
42.5°	1010.6	455.6	272.5	295.4	291.4	275.7	270.9	279.8	282.6	277.7	275.7
45°	1003.0	422.6	265.7	271.7	282.2	253.7	251.7	258.5	264.5	264.1	262.5
47.5°	999.0	399.8	259.7	256.9	258.9	240.4	236.4	239.6	247.2	252.1	251.7
50°	983.3	382.1	250.9	241.6	228.8	228.8	226.8	226.8	236.0	245.6	246.4
52.5°	955.7	361.2	238.0	227.2	212.3	218.7	219.5	217.9	227.6	238.0	238.8
55°	925.1	345.6	220.8	213.9	198.7	209.5	213.1	211.5	217.9	225.2	224.8
57.5°	925.5	345.2	205.9	200.7	185.8	197.9	206.7	207.1	206.7	211.9	211.9
60°	948.8	353.2	194.3	183.0	171.0	185.4	199.9	199.9	197.1	204.7	205.5
62.5°	955.7	352.4	187.0	166.2	157.7	174.2	189.8	192.3	190.2	201.1	202.3
65°	895.4	333.5	179.8	150.9	145.7	161.8	177.4	184.2	182.2	196.3	197.9
67.5°	812.0	309.1	168.6	137.3	133.3	149.7	164.6	171.8	171.4	189.8	190.6
70°	700.0	278.9	154.5	123.2	121.2	135.7	148.9	156.5	160.1	181.4	181.0
72.5°	542.2	239.2	133.3	108.4	108.0	121.2	132.9	141.3	148.1	168.6	168.6
75°	349.6	188.2	108.8	93.9	92.3	104.8	116.8	126.4	147.3	179.8	179.4
77.5°	213.5	143.7	87.5	78.3	77.9	89.1	101.1	117.6	160.9	160.1	155.7
80°	128.0	103.2	69.8	62.6	62.6	73.0	86.3	126.0	133.7	152.5	144.1
82.5°	66.6	63.4	52.2	46.2	48.2	57.4	78.7	100.7	109.2	92.7	85.1
85°	27.3	33.7	32.1	29.3	30.5	39.7	75.9	80.7	64.6	67.8	68.2
87.5°	9.2	14.9	14.9	11.6	12.8	28.1	45.0	26.9	32.5	19.3	14.4
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)