

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: P672006

Luminaire Tested: **CCP-SA-2B-827-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672006
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL
distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5123.2 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

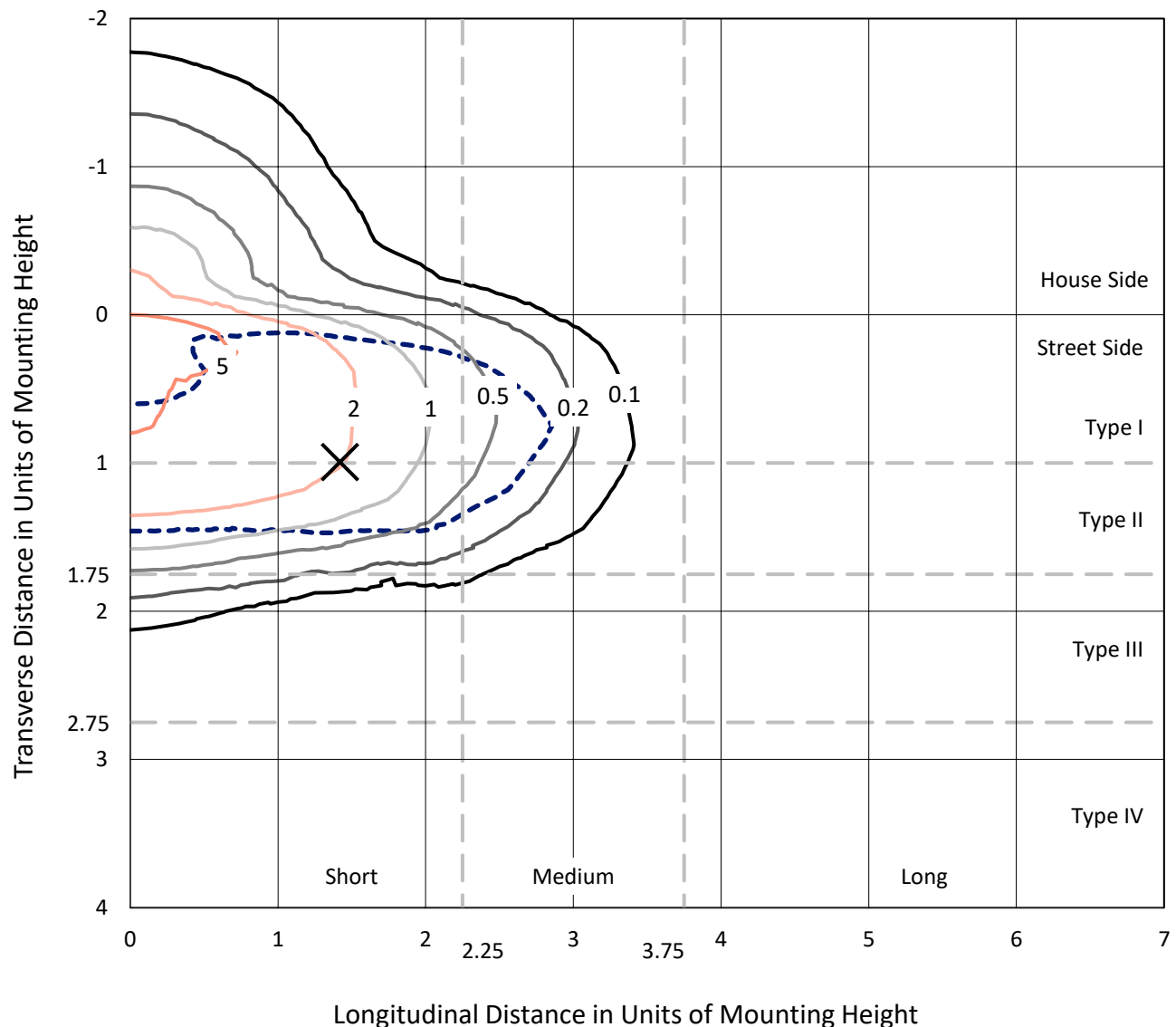
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

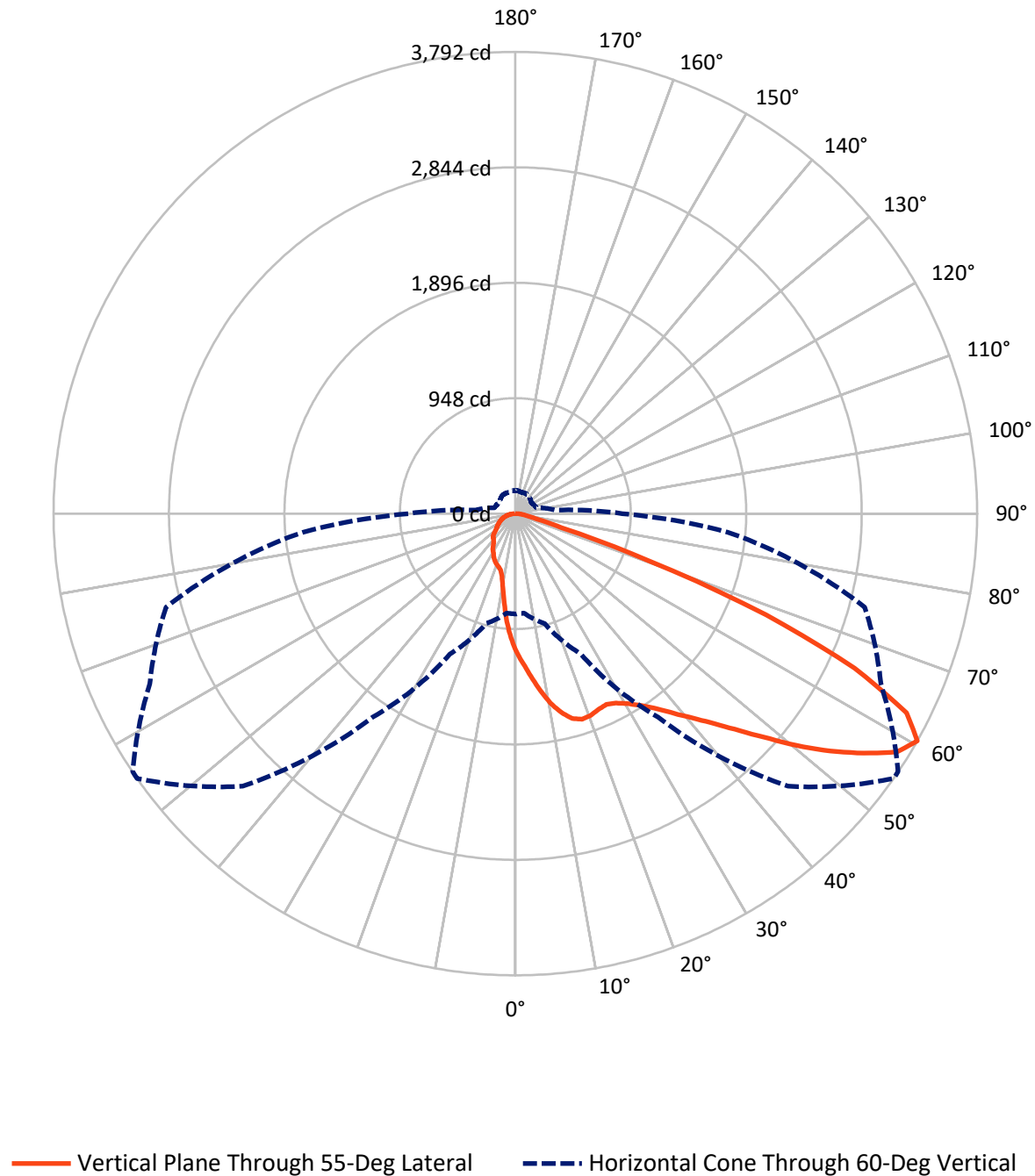
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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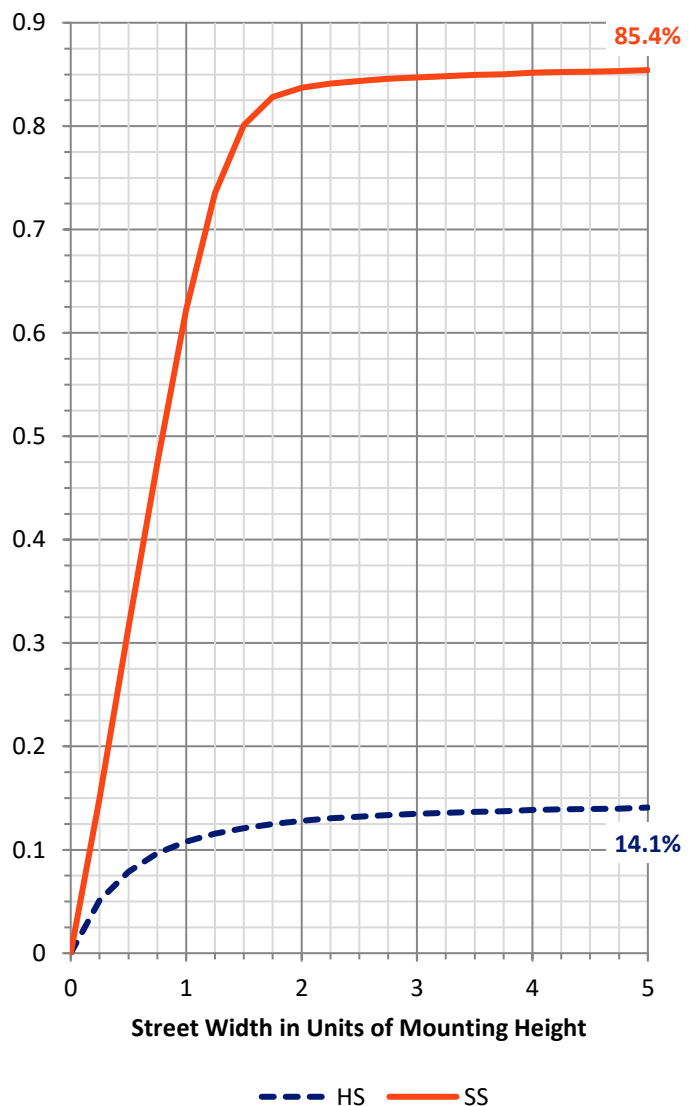
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	736.5	0.0	736.5
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4386.7	0.0	4386.7
	% Fixture	85.6	0.0	85.6
Total	Lumens	5123.2	0.0	5123.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.1
10°-20°	301.2	5.9
20°-30°	490.5	9.6
30°-40°	733.1	14.3
40°-50°	1077.5	21.0
50°-60°	1262.9	24.6
60°-70°	832.7	16.3
70°-80°	265.1	5.2
80°-90°	53.9	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°	5123.2	100.0
0°-180°	5123.2	100.0



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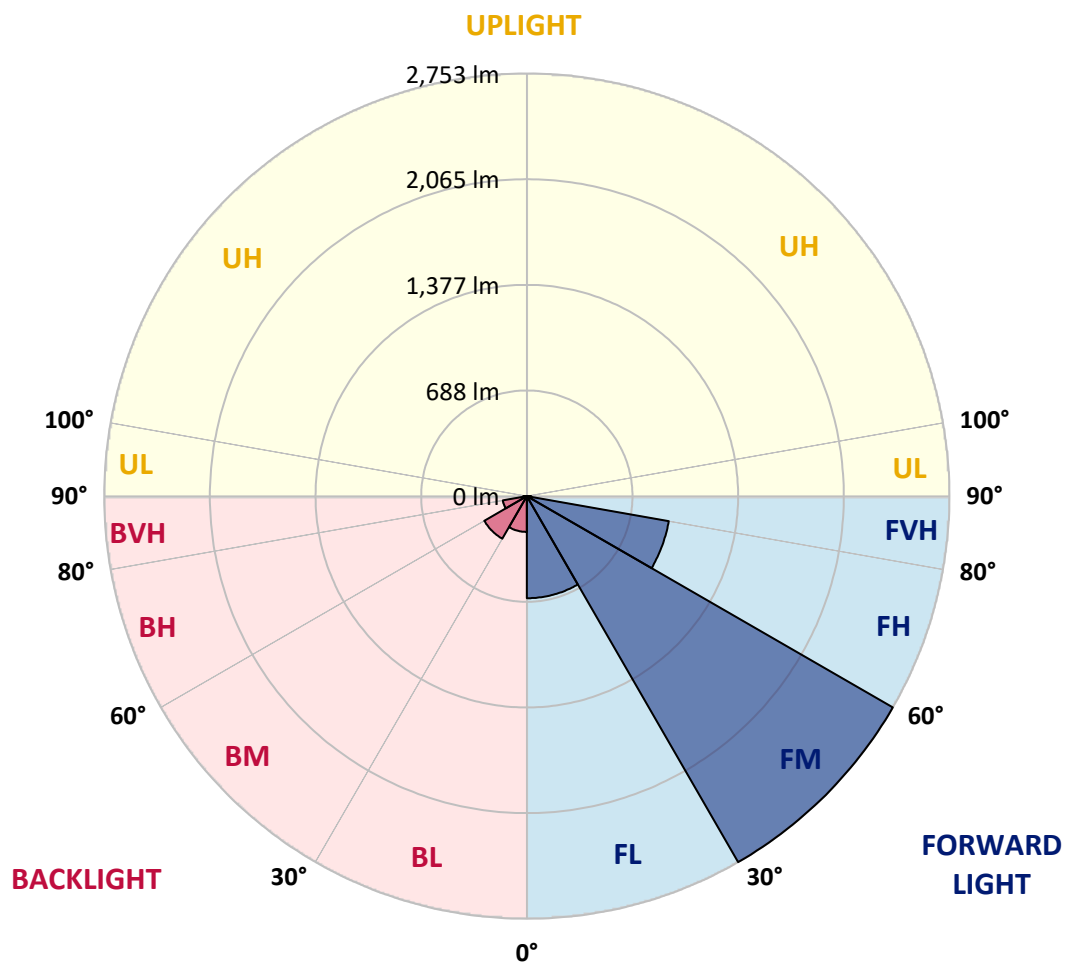
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.9	13.0			
FM	(30°-60°)	2753.3	53.7			
FH	(60°-80°)	938.9	18.3			G1/1800
FVH	(80°-90°)	29.6	0.6			G1/100
BL	(0°-30°)	233.1	4.6	B1/500		
BM	(30°-60°)	320.1	6.2	B1/1000		
BH	(60°-80°)	158.9	3.1	B1/500		G1/500
BVH	(80°-90°)	24.3	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°	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2
2.5°	1322.2	1317.4	1317.4	1305.2	1287.0	1261.7	1231.6	1224.2	1212.7	1183.4	1145.5
5°	1523.9	1518.7	1511.6	1490.1	1456.3	1405.8	1342.3	1330.8	1289.6	1229.0	1160.7
7.5°	1657.2	1654.2	1652.0	1633.4	1600.0	1550.2	1465.2	1452.2	1382.4	1282.1	1175.2
10°	1643.4	1652.3	1667.9	1680.9	1687.6	1662.0	1582.2	1566.9	1480.4	1343.8	1196.7
12.5°	1514.6	1527.2	1556.2	1609.3	1670.5	1719.9	1674.6	1666.1	1585.1	1409.1	1223.8
15°	1418.8	1424.0	1438.1	1477.4	1568.8	1700.6	1746.3	1738.5	1682.8	1493.0	1255.0
17.5°	1389.1	1391.3	1394.6	1407.6	1470.0	1625.2	1775.6	1783.0	1777.5	1580.3	1290.3
20°	1403.9	1405.4	1405.8	1408.0	1437.7	1562.1	1767.8	1780.4	1860.6	1667.6	1325.2
22.5°	1461.1	1459.3	1456.7	1448.1	1464.8	1551.0	1747.0	1767.1	1924.9	1747.0	1357.5
25°	1561.0	1558.4	1540.2	1522.4	1529.4	1591.1	1735.9	1757.4	1975.0	1822.0	1381.3
27.5°	1679.8	1677.2	1658.6	1624.9	1617.4	1657.9	1761.9	1775.2	2011.8	1888.5	1391.7
30°	1803.1	1803.1	1780.1	1741.1	1717.3	1734.4	1809.8	1820.5	2039.6	1952.7	1398.4
32.5°	1937.5	1941.2	1905.6	1861.0	1834.6	1824.6	1877.0	1886.3	2080.1	2028.5	1412.5
35°	2110.2	2102.0	2058.6	1999.9	1957.6	1934.9	1960.2	1970.9	2139.5	2122.8	1435.1
37.5°	2304.4	2289.9	2236.4	2166.2	2092.3	2054.5	2071.2	2073.8	2227.5	2245.7	1476.3
40°	2464.8	2462.2	2416.9	2350.4	2257.2	2206.3	2198.2	2199.6	2349.7	2391.2	1538.7
42.5°	2599.9	2590.3	2582.1	2558.7	2459.9	2376.4	2343.0	2343.3	2482.2	2541.6	1601.5
45°	2659.7	2657.8	2682.0	2742.1	2671.2	2572.8	2525.3	2532.0	2634.1	2696.1	1662.0
47.5°	2634.1	2635.6	2700.2	2858.0	2899.9	2824.6	2740.3	2736.2	2781.1	2814.5	1715.5
50°	2405.4	2429.5	2604.4	2868.8	3050.0	3087.5	2992.4	2977.2	2910.0	2908.9	1748.1
52.5°	2232.7	2231.6	2338.9	2759.2	3103.0	3324.7	3239.3	3205.2	3016.5	2962.0	1750.7
55°	1999.5	1998.0	2077.9	2438.8	2997.6	3490.3	3472.1	3429.4	3114.2	2979.4	1732.9
57.5°	1514.2	1542.4	1621.9	1952.4	2663.4	3464.0	3694.5	3658.9	3209.6	2971.6	1729.6
60°	823.9	820.6	935.7	1272.5	2039.2	3164.7	3791.5	3789.6	3311.0	2968.6	1750.0
62.5°	379.9	376.1	399.2	566.6	1169.3	2535.3	3604.3	3631.1	3404.9	2941.5	1748.1
65°	284.1	274.4	243.2	263.6	447.4	1513.5	3061.5	3132.8	3260.1	2830.1	1667.2
67.5°	253.2	244.0	207.6	194.6	224.6	533.9	2220.8	2286.5	2726.2	2621.5	1536.1
70°	232.1	223.9	187.5	167.1	168.6	236.5	1162.6	1291.8	1998.0	2187.8	1309.2
72.5°	211.6	204.6	171.5	147.0	141.8	156.3	396.2	477.9	1242.8	1594.4	976.2
75°	190.1	183.4	154.5	131.8	121.8	115.8	188.6	203.1	657.2	880.4	523.9
77.5°	165.2	161.5	137.8	116.2	107.7	87.6	125.5	131.8	281.5	345.7	249.5
80°	143.7	140.7	122.9	105.5	96.5	67.6	86.5	91.0	138.9	172.7	139.6
82.5°	93.6	101.0	101.7	90.6	85.0	54.2	57.2	60.5	92.1	101.7	60.9
85°	38.6	46.8	70.2	62.4	59.0	46.0	37.9	38.6	56.4	59.4	21.9
87.5°	17.5	19.3	34.5	34.9	30.4	17.5	18.9	20.8	29.0	28.6	9.7
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°	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2
2.5°	1135.1	1118.0	1087.6	1048.6	1020.7	1000.3	978.0	961.7	943.5	927.5	930.1
5°	1132.5	1099.5	1031.1	958.7	888.2	830.3	782.0	746.3	709.6	695.1	693.2
7.5°	1134.7	1078.7	966.5	848.1	740.8	666.9	610.8	577.0	555.9	543.6	544.3
10°	1134.0	1059.0	896.7	733.3	616.0	548.4	514.3	503.1	501.3	502.8	505.0
12.5°	1135.1	1032.2	818.4	630.1	526.5	492.0	493.5	503.5	509.8	513.9	516.5
15°	1139.9	1010.3	738.2	548.8	479.7	480.8	496.8	512.4	521.7	526.1	528.4
17.5°	1147.0	982.9	666.9	487.2	460.1	477.1	497.9	514.6	521.7	524.3	526.1
20°	1147.7	951.3	594.8	444.8	447.1	469.3	487.5	500.9	509.8	512.8	514.3
22.5°	1144.4	908.6	520.9	414.0	432.2	454.5	470.1	485.3	473.4	463.8	461.2
25°	1130.3	854.8	457.8	388.8	413.6	434.4	452.3	435.5	430.0	422.6	423.3
27.5°	1099.8	787.6	398.4	365.0	391.7	421.4	408.4	406.2	399.2	391.7	391.7
30°	1059.7	716.6	348.7	340.1	365.4	380.2	383.2	379.9	375.8	366.1	366.9
32.5°	1023.7	641.6	313.4	319.3	348.7	348.7	361.7	361.7	346.8	319.7	319.7
35°	988.1	571.1	287.4	301.9	321.2	327.5	345.3	321.9	300.8	288.5	287.8
37.5°	960.2	510.9	270.3	287.0	294.4	310.4	310.8	293.7	286.7	275.5	274.4
40°	943.9	460.4	259.9	279.6	280.3	295.2	270.7	275.5	274.0	265.5	264.4
42.5°	935.0	421.4	252.1	273.3	269.6	255.1	250.6	258.8	261.4	256.9	255.1
45°	927.9	391.0	245.8	251.4	261.0	234.7	232.8	239.1	244.7	244.3	242.8
47.5°	924.2	369.8	240.2	237.6	239.5	222.4	218.7	221.7	228.7	233.2	232.8
50°	909.7	353.5	232.1	223.5	211.6	211.6	209.8	209.8	218.3	227.2	228.0
52.5°	884.1	334.2	220.2	210.2	196.4	202.4	203.1	201.6	210.5	220.2	220.9
55°	855.9	319.7	204.2	197.9	183.8	193.8	197.2	195.7	201.6	208.3	207.9
57.5°	856.2	319.3	190.5	185.7	171.9	183.1	191.2	191.6	191.2	196.1	196.1
60°	877.8	326.8	179.7	169.3	158.2	171.5	184.9	184.9	182.3	189.4	190.1
62.5°	884.1	326.0	173.0	153.7	145.9	161.1	175.6	177.9	176.0	186.0	187.1
65°	828.4	308.6	166.3	139.6	134.8	149.6	164.1	170.4	168.6	181.6	183.1
67.5°	751.2	285.9	156.0	127.0	123.3	138.5	152.2	158.9	158.5	175.6	176.4
70°	647.6	258.1	143.0	114.0	112.1	125.5	137.8	144.8	148.2	167.8	167.5
72.5°	501.6	221.3	123.3	100.3	99.9	112.1	122.9	130.7	137.0	156.0	156.0
75°	323.4	174.1	100.6	86.9	85.4	96.9	108.1	117.0	136.3	166.3	166.0
77.5°	197.5	132.9	80.9	72.4	72.0	82.4	93.6	108.8	148.9	148.2	144.1
80°	118.4	95.4	64.6	57.9	57.9	67.6	79.8	116.6	123.6	141.1	133.3
82.5°	61.6	58.7	48.3	42.7	44.6	53.1	72.8	93.2	101.0	85.8	78.7
85°	25.2	31.2	29.7	27.1	28.2	36.8	70.2	74.6	59.8	62.8	63.1
87.5°	8.5	13.7	13.7	10.8	11.9	26.0	41.6	24.9	30.1	17.8	13.4
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)