

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: P672024

Luminaire Tested: **CCP-SA-1D-835-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-835-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4637.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

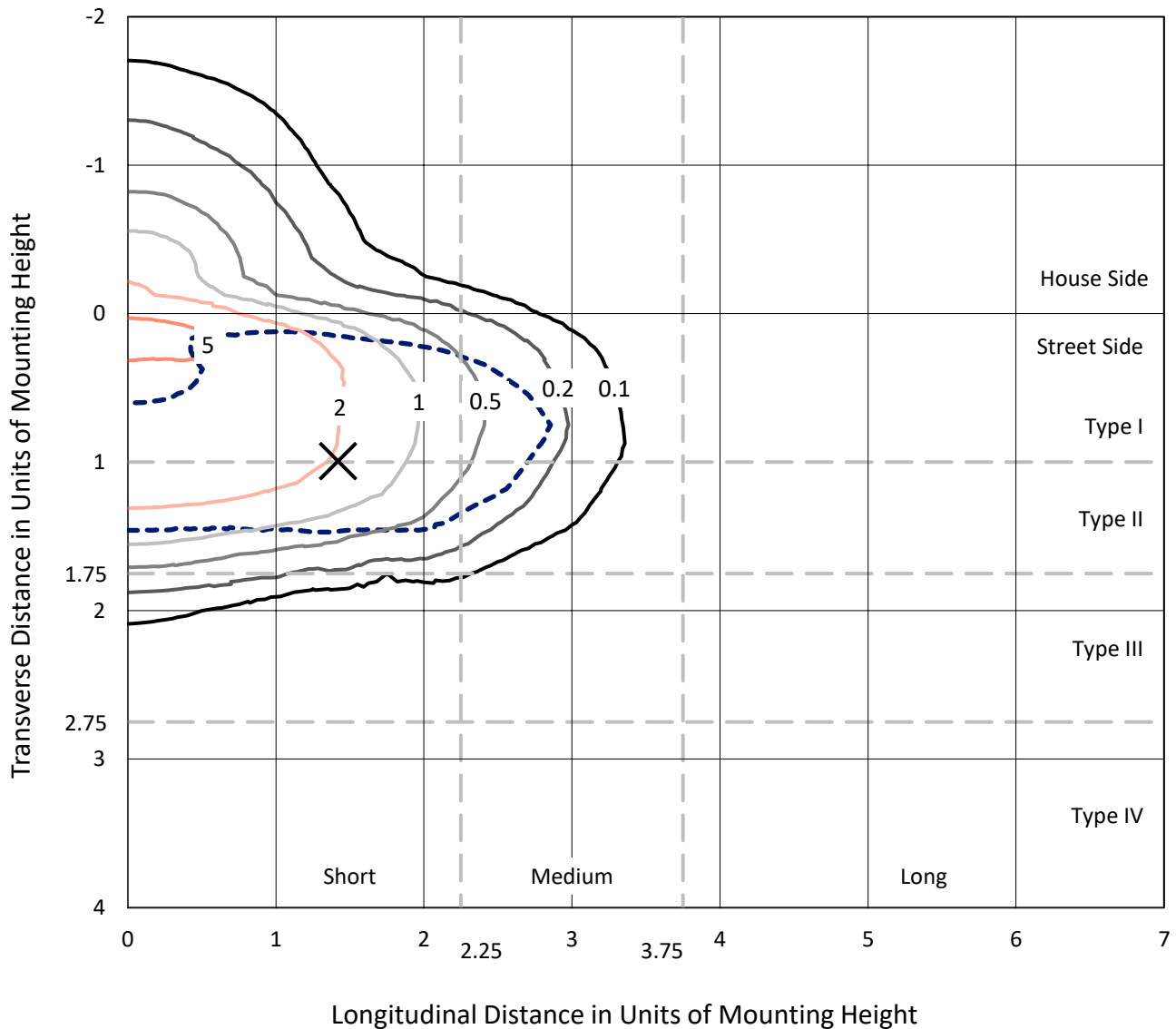
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

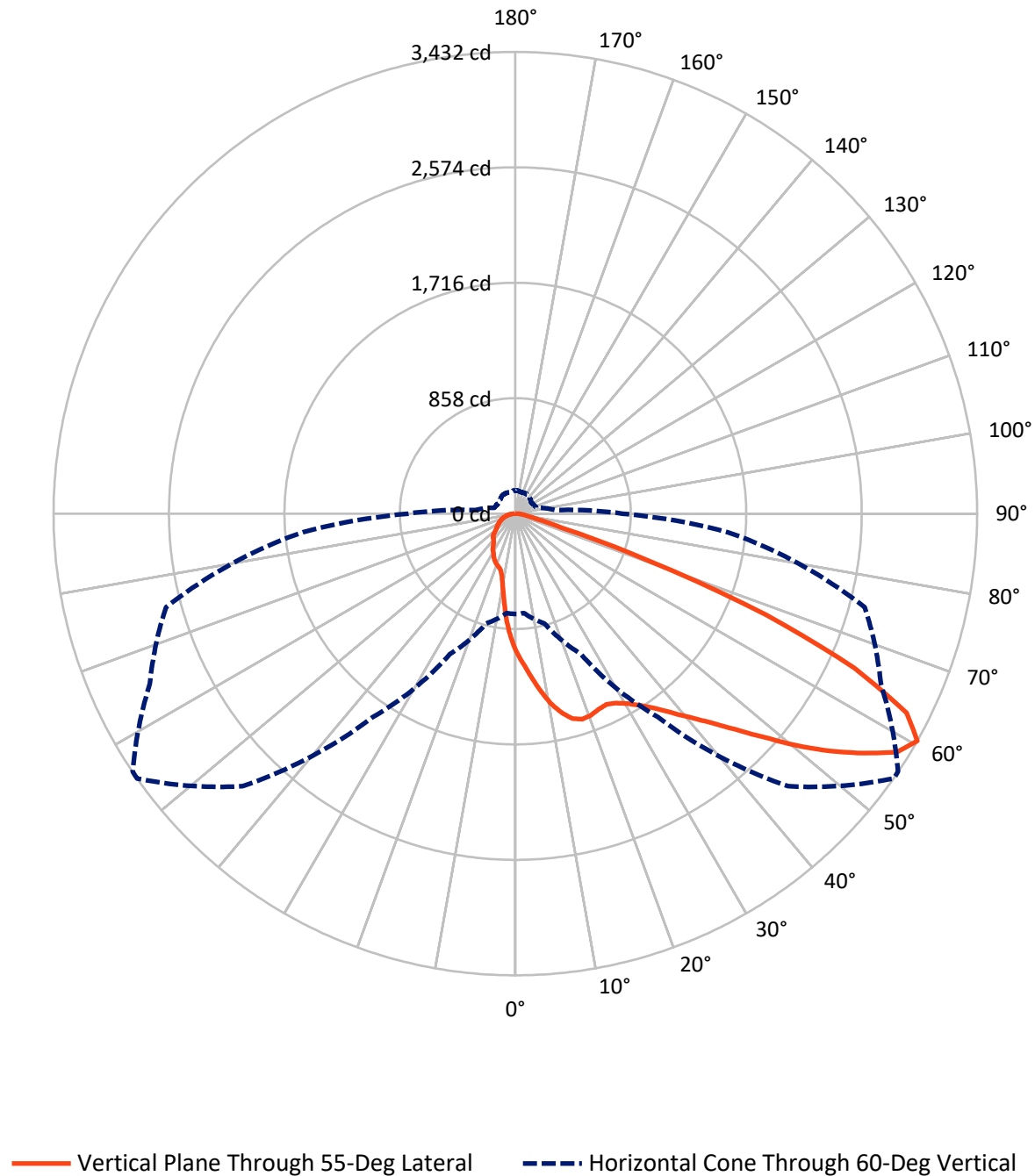
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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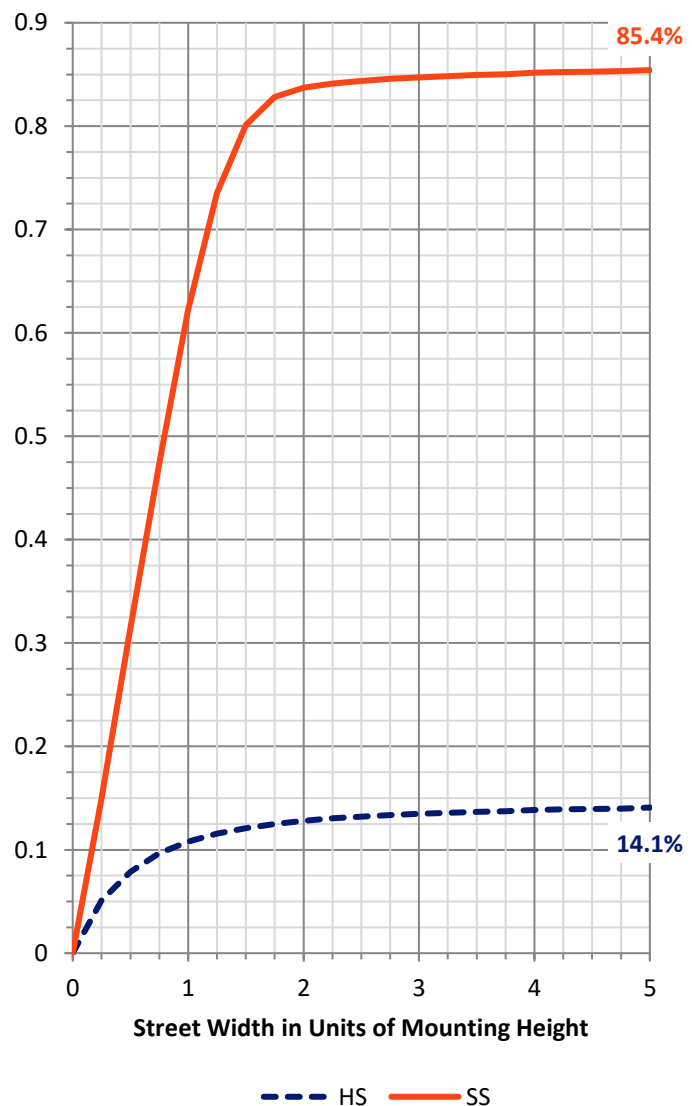
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.6	0.0	666.6
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	3970.8	0.0	3970.8
	% Fixture	85.6	0.0	85.6
Total	Lumens	4637.4	0.0	4637.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	2.1
10°-20°	272.7	5.9
20°-30°	444.0	9.6
30°-40°	663.6	14.3
40°-50°	975.3	21.0
50°-60°	1143.1	24.6
60°-70°	753.7	16.3
70°-80°	240.0	5.2
80°-90°	48.8	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°	4637.4	100.0
0°-180°	4637.4	100.0

Coefficient of Utilization



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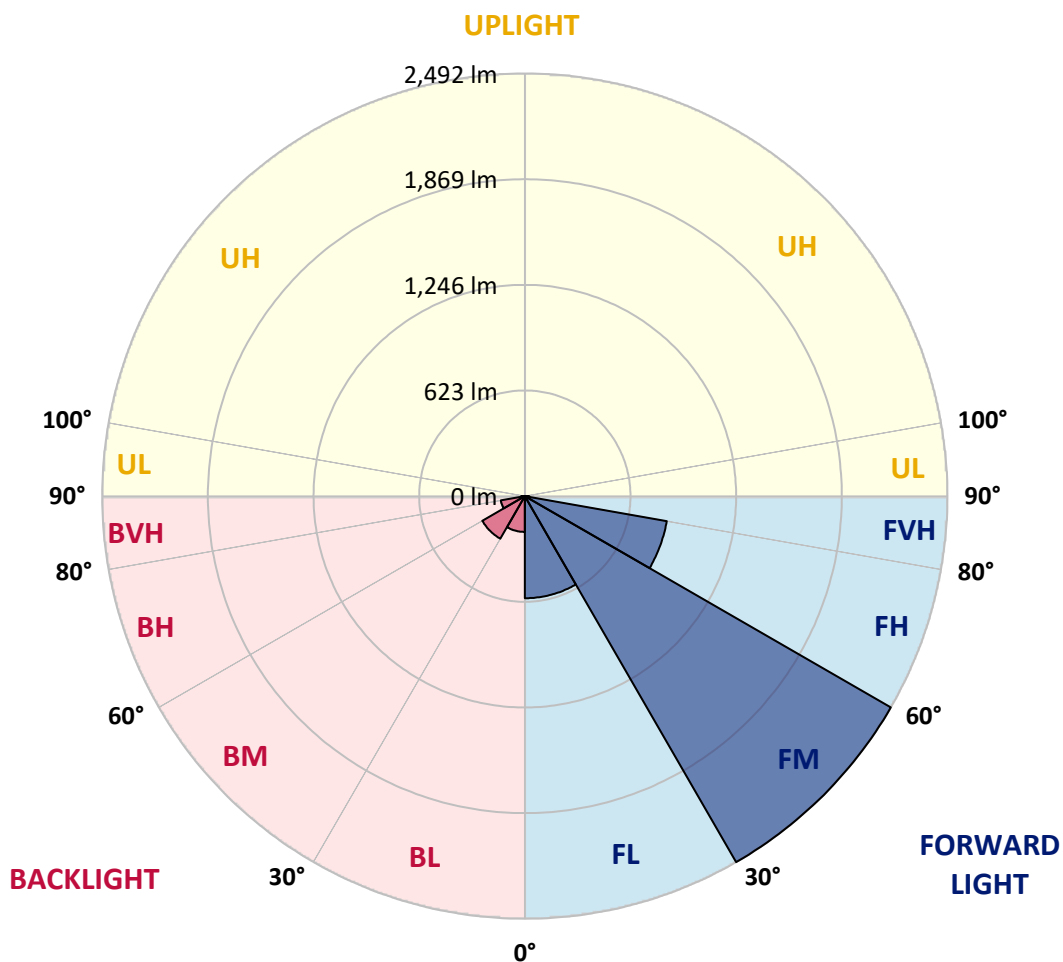
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.9	13.0			
FM	(30°-60°)	2492.3	53.7			
FH	(60°-80°)	849.9	18.3			G1/1800
FVH	(80°-90°)	26.8	0.6			G1/100
BL	(0°-30°)	211.0	4.6	B1/500		
BM	(30°-60°)	289.7	6.2	B1/1000		
BH	(60°-80°)	143.8	3.1	B1/500		G1/500
BVH	(80°-90°)	22.0	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°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1196.9	1192.5	1192.5	1181.4	1164.9	1142.1	1114.9	1108.1	1097.7	1071.2	1036.9
5°	1379.4	1374.7	1368.3	1348.8	1318.2	1272.5	1215.0	1204.6	1167.3	1112.5	1050.7
7.5°	1500.0	1497.3	1495.3	1478.5	1448.3	1403.2	1326.3	1314.5	1251.3	1160.6	1063.8
10°	1487.6	1495.7	1509.8	1521.5	1527.6	1504.4	1432.1	1418.4	1340.0	1216.4	1083.3
12.5°	1371.0	1382.4	1408.6	1456.7	1512.1	1556.8	1515.8	1508.1	1434.8	1275.5	1107.8
15°	1284.2	1289.0	1301.7	1337.4	1420.0	1539.3	1580.7	1573.6	1523.2	1351.5	1136.0
17.5°	1257.4	1259.4	1262.4	1274.2	1330.6	1471.1	1607.2	1614.0	1608.9	1430.5	1168.0
20°	1270.8	1272.1	1272.5	1274.5	1301.4	1414.0	1600.2	1611.6	1684.2	1509.4	1199.6
22.5°	1322.6	1320.9	1318.5	1310.8	1325.9	1403.9	1581.4	1599.5	1742.4	1581.4	1228.8
25°	1413.0	1410.6	1394.2	1378.0	1384.4	1440.2	1571.3	1590.8	1787.7	1649.3	1250.3
27.5°	1520.5	1518.2	1501.4	1470.8	1464.1	1500.7	1594.8	1606.9	1821.0	1709.4	1259.7
30°	1632.1	1632.1	1611.3	1576.0	1554.5	1569.9	1638.2	1647.9	1846.2	1767.6	1265.8
32.5°	1753.8	1757.1	1724.9	1684.5	1660.7	1651.6	1699.0	1707.4	1882.8	1836.1	1278.5
35°	1910.1	1902.7	1863.4	1810.2	1771.9	1751.4	1774.3	1784.0	1936.6	1921.5	1299.0
37.5°	2085.9	2072.7	2024.3	1960.8	1893.9	1859.7	1874.8	1877.1	2016.3	2032.7	1336.3
40°	2231.0	2228.7	2187.7	2127.5	2043.2	1997.1	1989.7	1991.1	2126.9	2164.5	1392.8
42.5°	2353.4	2344.7	2337.3	2316.1	2226.7	2151.1	2120.8	2121.1	2246.8	2300.6	1449.6
45°	2407.5	2405.8	2427.7	2482.1	2417.9	2328.9	2285.8	2291.9	2384.3	2440.4	1504.4
47.5°	2384.3	2385.7	2444.1	2587.0	2625.0	2556.7	2480.4	2476.7	2517.4	2547.7	1552.8
50°	2177.3	2199.1	2357.4	2596.7	2760.7	2794.7	2708.7	2694.9	2634.0	2633.0	1582.4
52.5°	2021.0	2020.0	2117.1	2497.6	2808.8	3009.5	2932.2	2901.2	2730.5	2681.1	1584.7
55°	1809.9	1808.6	1880.8	2207.5	2713.4	3159.4	3142.9	3104.2	2818.9	2696.9	1568.6
57.5°	1370.6	1396.2	1468.1	1767.2	2410.9	3135.5	3344.2	3312.0	2905.3	2689.8	1565.6
60°	745.8	742.8	847.0	1151.8	1845.9	2864.6	3431.9	3430.3	2997.0	2687.1	1584.1
62.5°	343.8	340.5	361.3	512.9	1058.4	2294.9	3262.5	3286.7	3082.1	2662.6	1582.4
65°	257.1	248.4	220.1	238.6	405.0	1370.0	2771.2	2835.7	2951.0	2561.8	1509.1
67.5°	229.2	220.8	187.9	176.1	203.3	483.3	2010.2	2069.7	2467.7	2372.9	1390.5
70°	210.1	202.7	169.7	151.2	152.6	214.1	1052.3	1169.3	1808.6	1980.3	1185.1
72.5°	191.6	185.2	155.3	133.1	128.4	141.5	358.6	432.6	1124.9	1443.2	883.6
75°	172.1	166.0	139.8	119.3	110.2	104.9	170.7	183.8	594.9	796.9	474.2
77.5°	149.6	146.2	124.7	105.2	97.5	79.3	113.6	119.3	254.8	312.9	225.9
80°	130.1	127.4	111.2	95.5	87.4	61.2	78.3	82.3	125.7	156.3	126.4
82.5°	84.7	91.4	92.1	82.0	77.0	49.1	51.8	54.8	83.4	92.1	55.1
85°	35.0	42.3	63.5	56.5	53.4	41.7	34.3	35.0	51.1	53.8	19.8
87.5°	15.8	17.5	31.3	31.6	27.6	15.8	17.1	18.8	26.2	25.9	8.7
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°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1027.5	1012.0	984.4	949.2	923.9	905.5	885.3	870.5	854.0	839.6	841.9
5°	1025.1	995.2	933.4	867.8	804.0	751.5	707.8	675.6	642.3	629.2	627.5
7.5°	1027.1	976.4	874.9	767.7	670.5	603.6	552.9	522.3	503.1	492.1	492.7
10°	1026.5	958.6	811.7	663.8	557.6	496.4	465.5	455.4	453.7	455.1	457.1
12.5°	1027.5	934.4	740.8	570.4	476.6	445.3	446.7	455.8	461.5	465.2	467.5
15°	1031.8	914.5	668.2	496.8	434.2	435.3	449.7	463.8	472.2	476.3	478.3
17.5°	1038.2	889.7	603.6	441.0	416.4	431.9	450.7	465.8	472.2	474.6	476.3
20°	1038.9	861.1	538.4	402.7	404.7	424.8	441.3	453.4	461.5	464.2	465.5
22.5°	1035.9	822.4	471.6	374.8	391.2	411.4	425.5	439.3	428.5	419.8	417.4
25°	1023.1	773.7	414.4	351.9	374.4	393.2	409.4	394.2	389.2	382.5	383.2
27.5°	995.5	712.9	360.6	330.4	354.6	381.5	369.7	367.7	361.3	354.6	354.6
30°	959.2	648.7	315.6	307.9	330.7	344.2	346.9	343.8	340.1	331.4	332.1
32.5°	926.6	580.8	283.7	289.0	315.6	315.6	327.4	327.4	313.9	289.4	289.4
35°	894.4	516.9	260.1	273.3	290.7	296.4	312.6	291.4	272.2	261.2	260.5
37.5°	869.2	462.5	244.7	259.8	266.5	281.0	281.3	265.9	259.5	249.4	248.4
40°	854.4	416.8	235.3	253.1	253.8	267.2	245.0	249.4	248.0	240.3	239.3
42.5°	846.3	381.5	228.2	247.4	244.0	230.9	226.9	234.3	236.6	232.6	230.9
45°	839.9	353.9	222.5	227.5	236.3	212.4	210.7	216.5	221.5	221.2	219.8
47.5°	836.6	334.8	217.5	215.1	216.8	201.3	198.0	200.7	207.0	211.1	210.7
50°	823.5	320.0	210.1	202.3	191.6	191.6	189.9	189.9	197.6	205.7	206.4
52.5°	800.3	302.5	199.3	190.2	177.8	183.2	183.8	182.5	190.6	199.3	200.0
55°	774.7	289.4	184.9	179.1	166.4	175.4	178.5	177.1	182.5	188.6	188.2
57.5°	775.1	289.0	172.4	168.1	155.6	165.7	173.1	173.4	173.1	177.5	177.5
60°	794.5	295.8	162.7	153.3	143.2	155.3	167.4	167.4	165.0	171.4	172.1
62.5°	800.3	295.1	156.6	139.1	132.1	145.9	159.0	161.0	159.3	168.4	169.4
65°	749.8	279.3	150.6	126.4	122.0	135.4	148.6	154.3	152.6	164.4	165.7
67.5°	679.9	258.8	141.2	114.9	111.6	125.4	137.8	143.9	143.5	159.0	159.6
70°	586.2	233.6	129.4	103.2	101.5	113.6	124.7	131.1	134.1	151.9	151.6
72.5°	454.1	200.3	111.6	90.7	90.4	101.5	111.2	118.3	124.0	141.2	141.2
75°	292.7	157.6	91.1	78.6	77.3	87.7	97.8	105.9	123.3	150.6	150.2
77.5°	178.8	120.3	73.3	65.5	65.2	74.6	84.7	98.5	134.8	134.1	130.4
80°	107.2	86.4	58.5	52.4	52.4	61.2	72.3	105.5	111.9	127.7	120.7
82.5°	55.8	53.1	43.7	38.7	40.3	48.1	65.9	84.4	91.4	77.6	71.3
85°	22.9	28.2	26.9	24.5	25.5	33.3	63.5	67.6	54.1	56.8	57.1
87.5°	7.7	12.4	12.4	9.7	10.8	23.5	37.6	22.5	27.2	16.1	12.1
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)