

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: P672002

Luminaire Tested: **CCP-SA-1D-827-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

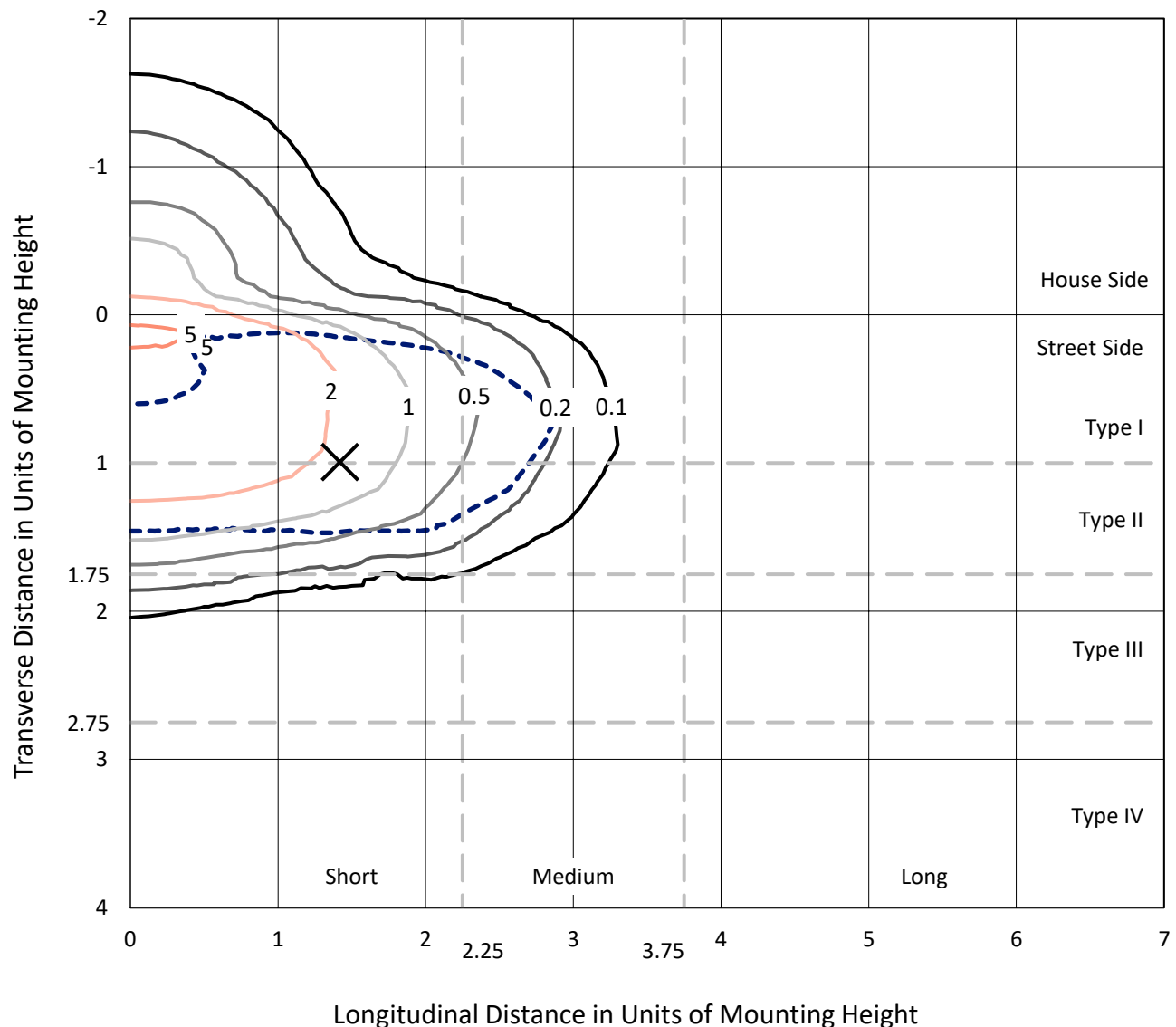
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

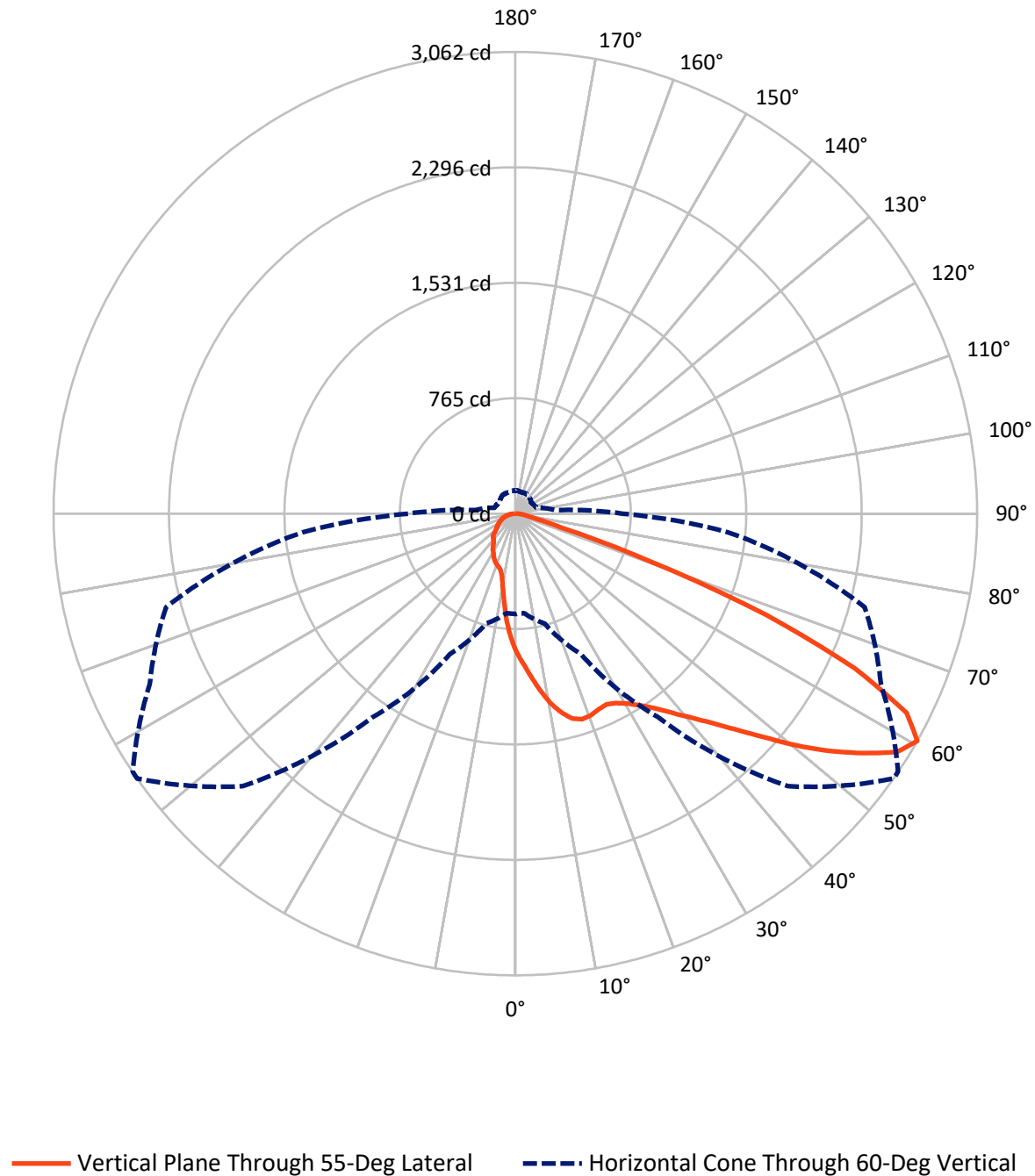
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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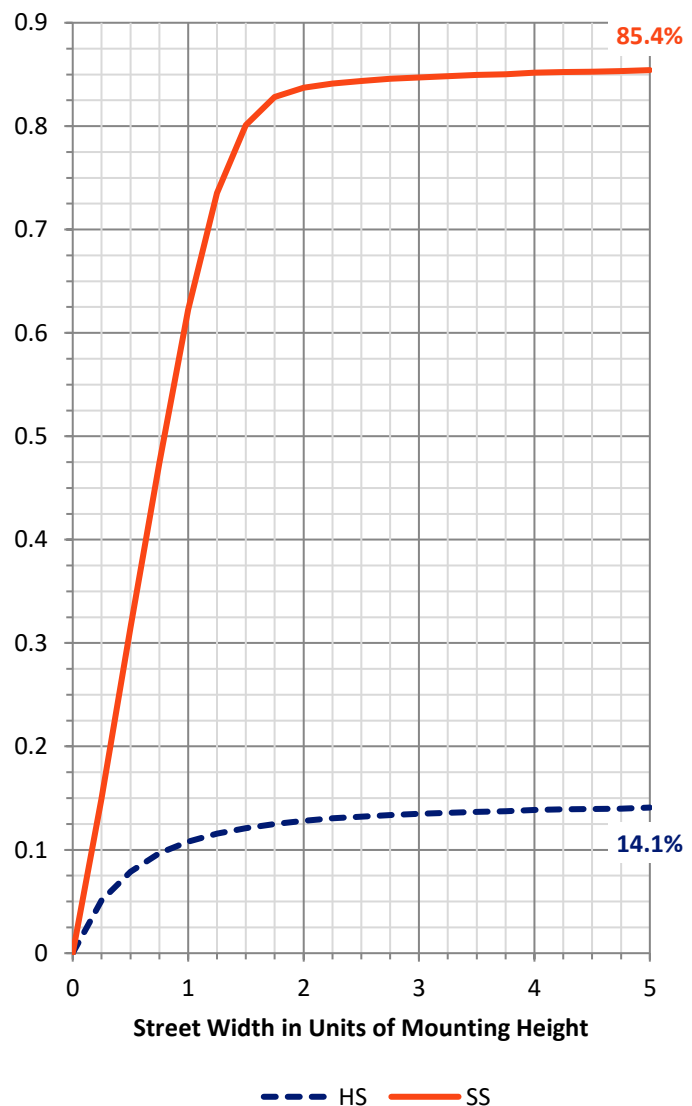
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.7	0.0	594.7
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	3542.4	0.0	3542.4
	% Fixture	85.6	0.0	85.6
Total	Lumens	4137.1	0.0	4137.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.1
10°-20°	243.3	5.9
20°-30°	396.1	9.6
30°-40°	592.0	14.3
40°-50°	870.1	21.0
50°-60°	1019.8	24.6
60°-70°	672.4	16.3
70°-80°	214.1	5.2
80°-90°	43.6	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°	4137.1	100.0
0°-180°	4137.1	100.0

Coefficient of Utilization



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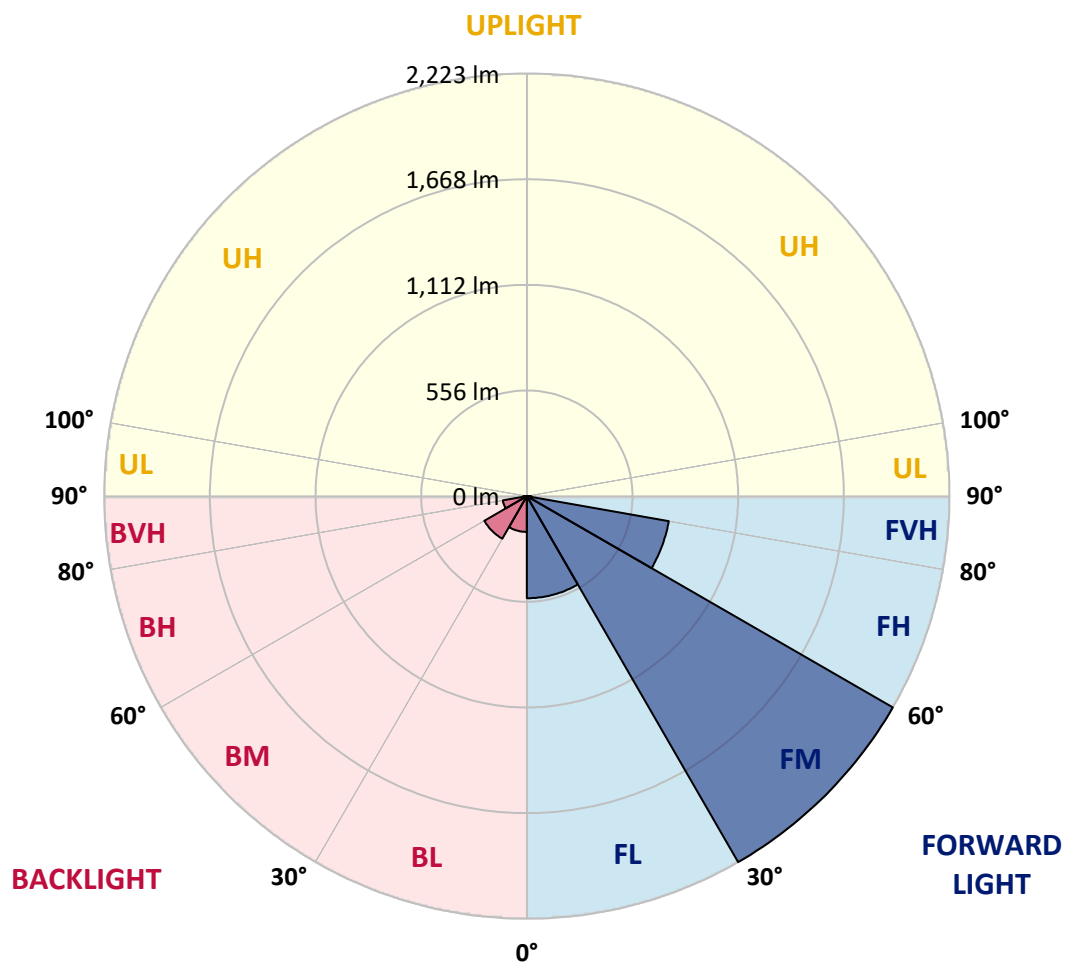
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.0	13.0			
FM	(30°-60°)	2223.4	53.7			
FH	(60°-80°)	758.2	18.3			G1/1800
FVH	(80°-90°)	23.9	0.6			G1/100
BL	(0°-30°)	188.3	4.6	B1/500		
BM	(30°-60°)	258.5	6.2	B1/1000		
BH	(60°-80°)	128.3	3.1	B1/500		G1/500
BVH	(80°-90°)	19.7	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°	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5
2.5°	1067.7	1063.8	1063.8	1053.9	1039.2	1018.9	994.6	988.6	979.3	955.6	925.0
5°	1230.5	1226.3	1220.7	1203.3	1176.0	1135.2	1083.9	1074.6	1041.3	992.5	937.3
7.5°	1338.2	1335.8	1334.0	1319.0	1292.0	1251.8	1183.2	1172.7	1116.3	1035.4	949.0
10°	1327.1	1334.3	1346.9	1357.4	1362.8	1342.1	1277.6	1265.3	1195.5	1085.1	966.4
12.5°	1223.1	1233.2	1256.6	1299.5	1349.0	1388.9	1352.3	1345.4	1280.0	1137.9	988.3
15°	1145.7	1149.9	1161.3	1193.1	1266.8	1373.3	1410.2	1403.9	1358.9	1205.7	1013.5
17.5°	1121.7	1123.5	1126.2	1136.7	1187.1	1312.4	1433.8	1439.8	1435.3	1276.1	1041.9
20°	1133.7	1134.9	1135.2	1137.0	1161.0	1261.4	1427.5	1437.7	1502.5	1346.6	1070.1
22.5°	1179.9	1178.4	1176.3	1169.4	1182.9	1252.4	1410.8	1426.9	1554.4	1410.8	1096.2
25°	1260.5	1258.4	1243.7	1229.3	1235.0	1284.8	1401.8	1419.1	1594.9	1471.3	1115.4
27.5°	1356.5	1354.4	1339.4	1312.1	1306.1	1338.8	1422.7	1433.5	1624.5	1525.0	1123.8
30°	1456.0	1456.0	1437.4	1406.0	1386.8	1400.6	1461.4	1470.1	1647.0	1576.9	1129.2
32.5°	1564.6	1567.6	1538.8	1502.8	1481.5	1473.4	1515.7	1523.2	1679.7	1638.0	1140.6
35°	1704.0	1697.4	1662.3	1614.9	1580.8	1562.5	1582.9	1591.6	1727.7	1714.2	1158.9
37.5°	1860.8	1849.1	1805.9	1749.3	1689.6	1659.0	1672.5	1674.6	1798.7	1813.4	1192.2
40°	1990.3	1988.2	1951.7	1898.0	1822.7	1781.7	1775.1	1776.3	1897.4	1931.0	1242.5
42.5°	2099.5	2091.7	2085.1	2066.2	1986.4	1919.0	1892.0	1892.3	2004.4	2052.4	1293.2
45°	2147.8	2146.3	2165.8	2214.3	2157.1	2077.6	2039.2	2044.6	2127.1	2177.1	1342.1
47.5°	2127.1	2128.3	2180.4	2307.9	2341.8	2280.9	2212.8	2209.5	2245.8	2272.8	1385.3
50°	1942.4	1961.9	2103.1	2316.6	2462.9	2493.2	2416.4	2404.1	2349.9	2349.0	1411.7
52.5°	1802.9	1802.0	1888.7	2228.1	2505.8	2684.8	2615.8	2588.2	2435.9	2391.8	1413.8
55°	1614.6	1613.4	1677.9	1969.4	2420.6	2818.5	2803.8	2769.3	2514.8	2405.9	1399.4
57.5°	1222.8	1245.5	1309.7	1576.6	2150.8	2797.2	2983.4	2954.6	2591.8	2399.6	1396.7
60°	665.3	662.6	755.6	1027.6	1646.7	2555.5	3061.7	3060.2	2673.7	2397.2	1413.2
62.5°	306.7	303.7	322.3	457.6	944.2	2047.3	2910.6	2932.1	2749.5	2375.3	1411.7
65°	229.4	221.6	196.4	212.9	361.3	1222.2	2472.2	2529.8	2632.6	2285.4	1346.3
67.5°	204.5	197.0	167.6	157.1	181.4	431.2	1793.3	1846.4	2201.4	2116.9	1240.4
70°	187.4	180.8	151.4	134.9	136.1	191.0	938.8	1043.1	1613.4	1766.7	1057.2
72.5°	170.9	165.2	138.5	118.7	114.5	126.2	319.9	385.9	1003.6	1287.5	788.3
75°	153.5	148.1	124.7	106.4	98.3	93.6	152.3	164.0	530.7	710.9	423.1
77.5°	133.4	130.4	111.2	93.9	87.0	70.8	101.3	106.4	227.3	279.2	201.5
80°	116.0	113.6	99.2	85.2	78.0	54.6	69.9	73.5	112.1	139.4	112.7
82.5°	75.6	81.6	82.2	73.2	68.7	43.8	46.2	48.9	74.4	82.2	49.2
85°	31.2	37.8	56.7	50.4	47.7	37.2	30.6	31.2	45.6	48.0	17.7
87.5°	14.1	15.6	27.9	28.2	24.6	14.1	15.3	16.8	23.4	23.1	7.8
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°	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5	917.5
2.5°	916.6	902.8	878.2	846.8	824.3	807.8	789.8	776.6	761.9	749.0	751.1
5°	914.5	887.8	832.7	774.2	717.2	670.4	631.5	602.7	573.0	561.3	559.8
7.5°	916.3	871.0	780.5	684.8	598.2	538.5	493.2	466.0	448.9	439.0	439.6
10°	915.7	855.1	724.1	592.2	497.4	442.9	415.3	406.3	404.8	406.0	407.8
12.5°	916.6	833.6	660.8	508.8	425.2	397.3	398.5	406.6	411.7	415.0	417.1
15°	920.5	815.9	596.1	443.2	387.4	388.3	401.2	413.8	421.3	424.9	426.7
17.5°	926.2	793.7	538.5	393.4	371.5	385.3	402.1	415.6	421.3	423.4	424.9
20°	926.8	768.2	480.3	359.2	361.0	379.0	393.7	404.5	411.7	414.1	415.3
22.5°	924.1	733.7	420.7	334.3	349.0	367.0	379.6	391.9	382.3	374.5	372.4
25°	912.7	690.2	369.7	313.9	334.0	350.8	365.2	351.7	347.2	341.2	341.8
27.5°	888.1	636.0	321.7	294.7	316.3	340.3	329.8	328.0	322.3	316.3	316.3
30°	855.7	578.7	281.6	274.7	295.0	307.0	309.4	306.7	303.4	295.6	296.2
32.5°	826.7	518.1	253.1	257.9	281.6	281.6	292.0	292.0	280.1	258.2	258.2
35°	797.9	461.2	232.1	243.8	259.4	264.5	278.9	260.0	242.9	233.0	232.4
37.5°	775.4	412.6	218.3	231.8	237.8	250.7	251.0	237.2	231.5	222.5	221.6
40°	762.2	371.8	209.9	225.8	226.4	238.4	218.6	222.5	221.3	214.4	213.5
42.5°	755.0	340.3	203.6	220.7	217.7	206.0	202.4	209.0	211.1	207.5	206.0
45°	749.3	315.7	198.5	203.0	210.8	189.5	188.0	193.1	197.6	197.3	196.1
47.5°	746.3	298.6	194.0	191.9	193.4	179.6	176.6	179.0	184.7	188.3	188.0
50°	734.6	285.4	187.4	180.5	170.9	170.9	169.4	169.4	176.3	183.5	184.1
52.5°	713.9	269.9	177.8	169.7	158.6	163.4	164.0	162.8	170.0	177.8	178.4
55°	691.1	258.2	164.9	159.8	148.4	156.5	159.2	158.0	162.8	168.2	167.9
57.5°	691.4	257.9	153.8	149.9	138.8	147.8	154.4	154.7	154.4	158.3	158.3
60°	708.8	263.9	145.1	136.7	127.7	138.5	149.3	149.3	147.2	152.9	153.5
62.5°	713.9	263.3	139.7	124.1	117.8	130.1	141.8	143.6	142.1	150.2	151.1
65°	668.9	249.2	134.3	112.7	108.8	120.8	132.5	137.6	136.1	146.6	147.8
67.5°	606.6	230.9	125.9	102.5	99.5	111.8	122.9	128.3	128.0	141.8	142.4
70°	522.9	208.4	115.4	92.1	90.6	101.3	111.2	116.9	119.6	135.5	135.2
72.5°	405.1	178.7	99.5	81.0	80.7	90.6	99.2	105.5	110.6	125.9	125.9
75°	261.2	140.6	81.3	70.2	69.0	78.3	87.3	94.4	110.0	134.3	134.0
77.5°	159.5	107.3	65.4	58.5	58.2	66.6	75.6	87.9	120.2	119.6	116.3
80°	95.6	77.1	52.2	46.8	46.8	54.6	64.5	94.2	99.8	113.9	107.6
82.5°	49.8	47.4	39.0	34.5	36.0	42.9	58.8	75.3	81.6	69.3	63.6
85°	20.4	25.2	24.0	21.9	22.8	29.7	56.7	60.3	48.3	50.7	51.0
87.5°	6.9	11.1	11.1	8.7	9.6	21.0	33.6	20.1	24.3	14.4	10.8
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)