

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: P565305

Luminaire Tested: **MSA-SA2B-730-U-T1**

Issue Date: 8/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P565305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 8/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA2B-730-U-T1  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8202 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3

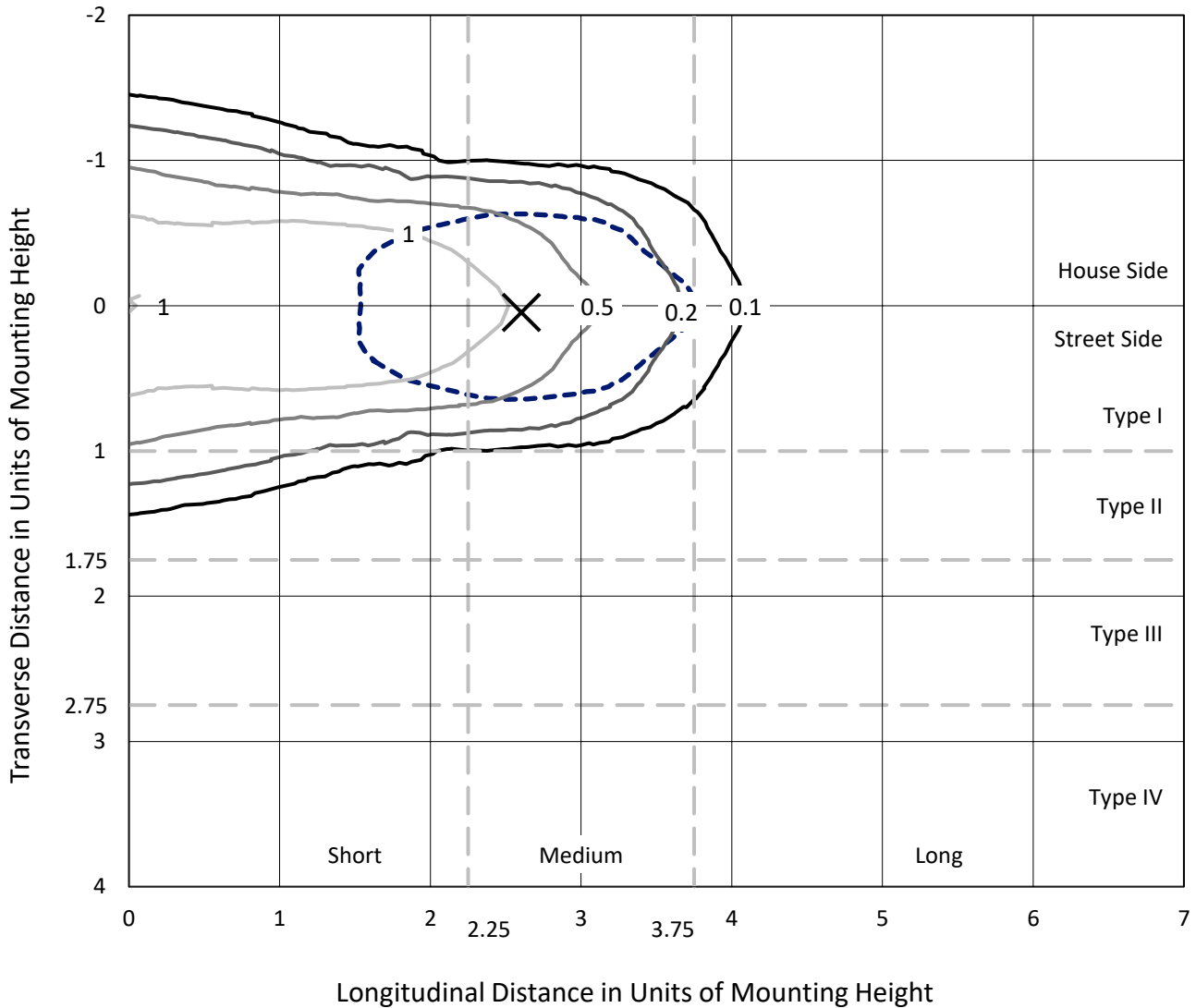
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

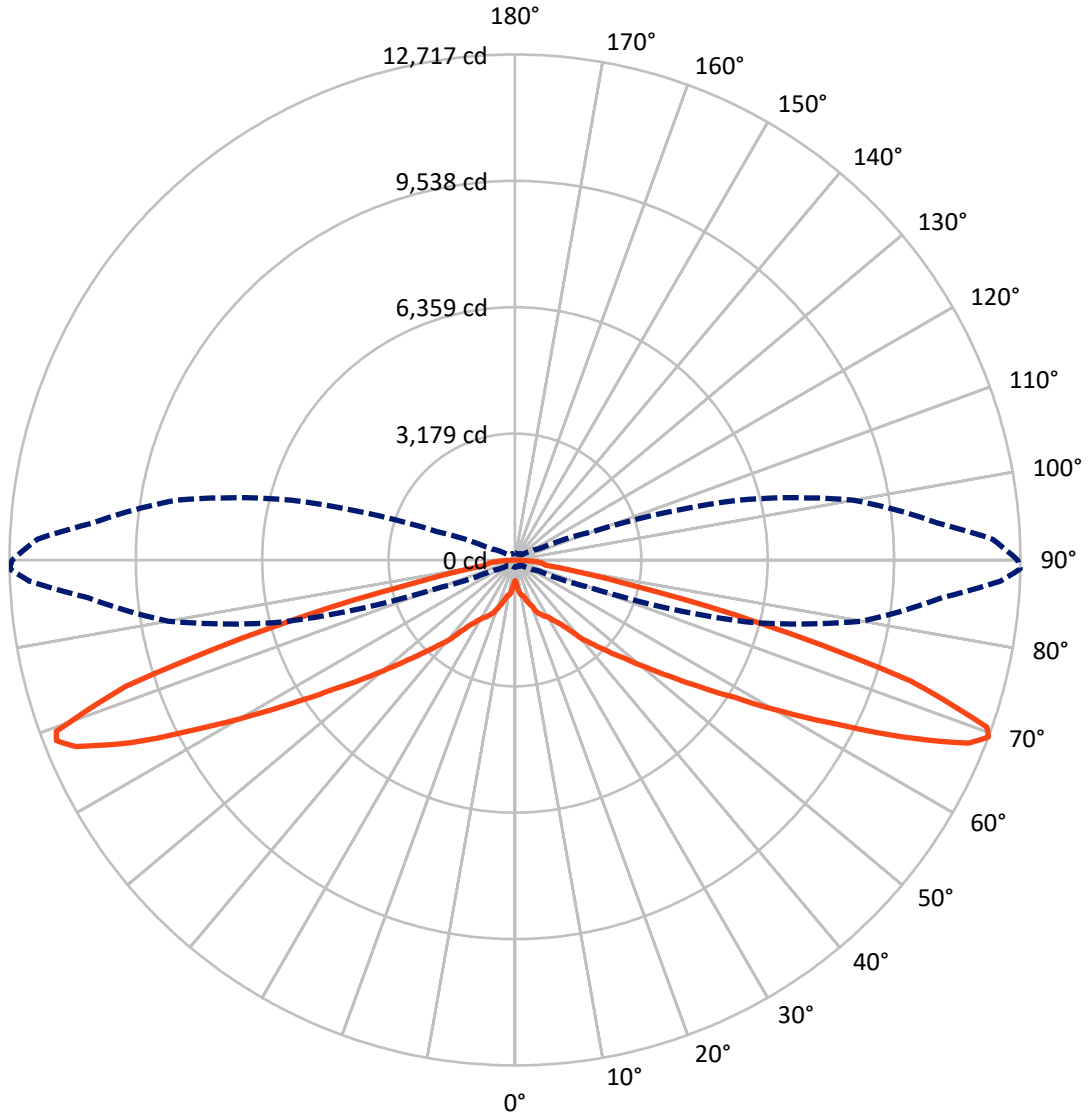
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4100.9	0.0	4100.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4101.1	0.0	4101.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8202.0	0.0	8202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	0.8
10°-20°	300.8	3.7
20°-30°	600.0	7.3
30°-40°	907.5	11.1
40°-50°	1317.3	16.1
50°-60°	1730.7	21.1
60°-70°	2111.2	25.7
70°-80°	1067.4	13.0
80°-90°	101.7	1.2
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°	8202.0	100.0
0°-180°	8202.0	100.0

**Coefficient of Utilization**



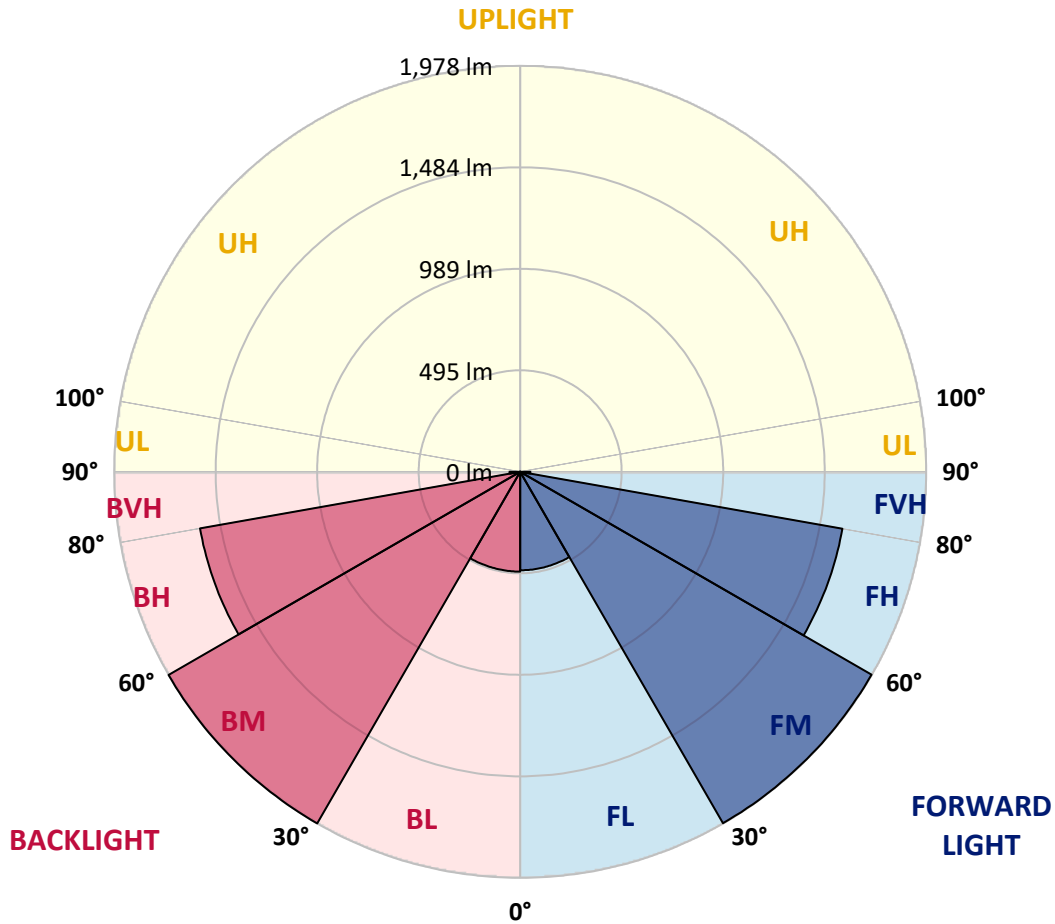
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.7	5.8			
FM (30°-60°)	1977.1	24.1			
FH (60°-80°)	1594.4	19.4			G1/1800
FVH (80°-90°)	49.9	0.6			G1/100
BL (0°-30°)	486.4	5.9	B1/500		
BM (30°-60°)	1978.4	24.1	B2/2500		
BH (60°-80°)	1584.2	19.3	B3/2500		G3/2500
BVH (80°-90°)	51.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5
2.5°	609.7	539.4	533.3	516.5	528.7	533.3	522.6	507.3	524.1	533.3	516.5
5°	768.6	664.7	629.5	600.5	542.4	518.0	542.4	605.1	612.7	650.9	640.2
7.5°	846.5	829.7	785.4	689.1	595.9	544.0	609.7	699.8	745.7	782.3	820.5
10°	904.6	895.4	817.5	748.7	710.5	713.6	715.1	744.1	783.9	845.0	866.4
12.5°	918.3	915.3	927.5	912.2	915.3	932.1	915.3	907.6	930.5	950.4	929.0
15°	1006.9	1005.4	1010.0	1013.1	1074.2	1100.1	1074.2	1051.3	1034.4	1017.6	1052.8
17.5°	1068.1	1060.4	1061.9	1091.0	1159.7	1231.6	1217.8	1187.2	1149.0	1172.0	1201.0
20°	1101.7	1087.9	1097.1	1109.3	1225.4	1304.9	1314.1	1272.8	1249.9	1278.9	1303.4
22.5°	1133.8	1112.4	1080.3	1092.5	1199.5	1314.1	1358.4	1347.7	1364.5	1373.7	1369.1
25°	1095.6	1109.3	1074.2	1109.3	1217.8	1323.2	1411.9	1474.5	1476.0	1471.4	1505.1
27.5°	1072.6	1061.9	1002.4	1092.5	1182.7	1248.4	1474.5	1579.9	1612.0	1514.2	1579.9
30°	1032.9	1049.7	968.7	1043.6	1158.2	1268.2	1546.3	1697.6	1650.2	1638.0	1653.3
32.5°	1008.5	997.8	959.6	1000.8	1087.9	1327.8	1592.2	1766.3	1825.9	1796.9	1793.9
35°	968.7	976.4	916.8	961.1	1083.3	1277.4	1622.7	1939.0	2030.7	2007.8	1989.4
37.5°	974.9	948.9	906.1	938.2	1054.3	1304.9	1699.1	2105.6	2250.7	2262.9	2178.9
40°	929.0	913.7	849.6	903.0	999.3	1288.1	1717.5	2295.0	2541.0	2596.0	2475.3
42.5°	863.3	843.4	806.8	866.4	967.2	1205.6	1743.4	2522.7	2835.9	2950.5	2840.5
45°	768.6	742.6	724.3	803.7	896.9	1184.2	1715.9	2712.2	3118.6	3276.0	3272.9
47.5°	654.0	637.2	628.0	712.0	838.9	1130.7	1659.4	2831.4	3315.7	3719.1	3658.0
50°	524.1	511.9	510.3	599.0	741.1	1020.7	1595.2	2890.9	3615.2	4125.6	4179.0
52.5°	420.2	411.0	409.5	481.3	620.4	872.5	1460.8	2936.8	3900.9	4587.0	4862.0
55°	328.5	319.3	320.9	380.5	493.5	713.6	1256.0	2884.8	4151.5	5059.2	5580.2
57.5°	268.9	259.8	261.3	294.9	377.4	545.5	1000.8	2771.8	4264.6	5642.8	6417.5
60°	236.8	227.7	223.1	238.4	290.3	411.0	744.1	2331.7	4282.9	6127.2	7326.7
62.5°	220.0	210.9	206.3	210.9	239.9	314.8	536.3	1847.3	4177.5	6541.3	8159.4
65°	204.7	197.1	191.0	195.6	210.9	250.6	391.2	1265.2	3625.9	6730.8	8764.5
67.5°	187.9	181.8	175.7	181.8	192.5	210.9	304.1	800.7	2718.3	6484.8	9016.6
69°	178.8	169.6	166.6	171.1	181.8	194.1	262.8	638.7	2067.4	6017.2	8863.8
70°	169.6	163.5	158.9	166.6	175.7	184.9	236.8	542.4	1621.2	5416.7	8484.9
72.5°	149.7	145.2	142.1	149.7	157.4	163.5	194.1	386.6	939.7	3688.6	6729.2
75°	131.4	126.8	125.3	131.4	137.5	140.6	163.5	265.9	554.7	1929.8	4036.9
77.5°	110.0	103.9	105.4	113.1	117.7	119.2	137.5	191.0	327.0	874.0	1870.3
80°	81.0	81.0	87.1	93.2	93.2	93.2	110.0	139.0	198.6	401.9	776.2
82.5°	56.5	58.1	59.6	68.8	70.3	64.2	84.0	100.8	123.8	175.7	268.9
85°	32.1	33.6	35.1	41.3	42.8	38.2	55.0	64.2	71.8	87.1	140.6
87.5°	12.2	13.8	18.3	21.4	22.9	16.8	26.0	30.6	30.6	36.7	62.6
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):**

	85°	87.5°	89°	90°	92.5°	95°	100°	105°	110°	115°	125°
0°	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5	519.5
2.5°	551.6	562.3	582.2	586.7	569.9	551.6	510.3	536.3	547.0	527.2	533.3
5°	683.0	705.9	730.4	701.3	683.0	670.8	650.9	652.4	641.8	606.6	548.5
7.5°	831.2	805.2	823.6	843.4	814.4	815.9	834.3	796.1	767.0	707.5	599.0
10°	900.0	900.0	904.6	904.6	892.3	892.3	890.8	829.7	794.6	768.6	738.0
12.5°	904.6	903.0	921.4	907.6	910.7	913.7	921.4	948.9	939.7	906.1	933.6
15°	1031.4	1025.3	1031.4	1029.9	1034.4	1048.2	1042.1	1036.0	1037.5	1061.9	1103.2
17.5°	1150.6	1153.6	1147.5	1158.2	1158.2	1167.4	1188.8	1167.4	1149.0	1194.9	1227.0
20°	1288.1	1277.4	1252.9	1271.3	1275.9	1277.4	1312.5	1286.6	1260.6	1277.4	1315.6
22.5°	1427.1	1425.6	1428.7	1430.2	1436.3	1413.4	1366.0	1358.4	1375.2	1352.3	1356.8
25°	1512.7	1514.2	1521.9	1523.4	1497.4	1521.9	1538.7	1488.3	1488.3	1483.7	1453.1
27.5°	1616.6	1593.7	1602.9	1615.1	1604.4	1610.5	1590.6	1517.3	1595.2	1605.9	1483.7
30°	1686.9	1676.2	1665.5	1677.7	1688.4	1715.9	1659.4	1651.8	1657.9	1714.4	1554.0
32.5°	1835.1	1850.4	1830.5	1810.7	1830.5	1824.4	1800.0	1789.3	1865.7	1790.8	1602.9
35°	1972.6	1978.7	1980.3	1977.2	1989.4	1968.0	1968.0	2007.8	2030.7	1949.7	1618.1
37.5°	2304.2	2282.8	2238.5	2217.1	2255.3	2287.4	2192.7	2240.0	2230.9	2093.3	1732.7
40°	2542.6	2591.5	2605.2	2599.1	2605.2	2513.5	2533.4	2568.5	2527.3	2299.6	1693.0
42.5°	2890.9	2921.5	2910.8	2897.1	2903.2	2886.4	2826.8	2956.6	2808.4	2530.3	1754.1
45°	3208.8	3277.5	3282.1	3234.7	3272.9	3213.3	3237.8	3283.6	3133.9	2703.0	1737.3
47.5°	3587.7	3729.8	3676.3	3676.3	3714.5	3586.2	3644.2	3705.4	3308.1	2819.1	1645.6
50°	4148.5	4224.9	4221.8	4208.1	4224.9	4156.1	4146.9	4139.3	3575.5	2929.1	1589.1
52.5°	4782.6	4886.5	4846.8	4862.0	4885.0	4755.1	4857.5	4577.8	3910.1	2970.4	1460.8
55°	5592.4	5664.2	5624.5	5546.6	5650.5	5568.0	5601.6	5056.1	4142.4	2852.7	1246.8
57.5°	6556.6	6593.2	6527.5	6519.9	6588.7	6500.0	6443.5	5593.9	4263.1	2764.1	996.2
60°	7682.7	7797.3	7756.0	7690.3	7753.0	7675.1	7247.2	6050.8	4238.6	2350.0	771.6
62.5°	9033.4	9149.6	9103.7	9059.4	9099.1	8895.9	8002.1	6411.4	4128.6	1862.6	563.8
65°	10148.9	10673.0	10741.7	10743.3	10550.7	10080.1	8604.1	6552.0	3548.0	1300.3	412.6
67.5°	10882.3	11971.8	12311.0	12188.7	11747.1	10673.0	8847.0	6277.0	2739.7	822.1	308.7
69°	10798.3	12226.9	12717.4	12648.6	12028.3	10663.8	8657.6	5814.0	2093.3	654.0	261.3
70°	10410.2	12017.6	12599.8	12630.3	11849.5	10254.3	8319.9	5282.2	1693.0	557.7	239.9
72.5°	8307.6	9902.9	10414.7	10614.9	9840.2	8211.4	6822.4	3726.8	981.0	389.6	194.1
75°	5146.2	6005.0	6429.8	6545.9	6076.8	5114.2	4140.8	2073.5	597.4	275.0	163.5
77.5°	2307.3	2556.3	2800.8	2800.8	2617.4	2334.8	1897.8	1002.4	339.2	195.6	137.5
80°	773.2	802.2	780.8	788.4	757.9	728.8	762.5	432.4	209.3	146.7	111.5
82.5°	525.6	660.1	701.3	701.3	658.6	519.5	293.4	198.6	128.4	105.4	85.6
85°	427.8	522.6	560.8	577.6	544.0	438.5	154.3	96.3	76.4	67.2	58.1
87.5°	143.6	134.5	126.8	123.8	129.9	136.0	76.4	41.3	35.1	32.1	30.6
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):**

	135°	145°	155°	165°	175°	180°
0°	519.5	519.5	519.5	519.5	519.5	519.5
2.5°	544.0	525.6	533.3	540.9	595.9	637.2
5°	540.9	566.9	624.9	698.3	731.9	814.4
7.5°	556.2	650.9	759.4	835.8	866.4	892.3
10°	744.1	760.9	797.6	871.0	932.1	942.8
12.5°	961.1	956.5	930.5	964.2	933.6	955.0
15°	1130.7	1080.3	1045.1	1040.6	1029.9	1029.9
17.5°	1223.9	1179.6	1130.7	1118.5	1086.4	1112.4
20°	1333.9	1257.5	1135.3	1123.1	1112.4	1087.9
22.5°	1312.5	1236.1	1109.3	1094.0	1150.6	1147.5
25°	1338.5	1236.1	1115.4	1098.6	1124.6	1124.6
27.5°	1274.3	1190.3	1103.2	1002.4	1081.8	1100.1
30°	1257.5	1162.8	1061.9	971.8	1052.8	1036.0
32.5°	1346.2	1094.0	994.7	967.2	1026.8	1014.6
35°	1277.4	1081.8	977.9	927.5	997.8	985.5
37.5°	1306.4	1066.5	948.9	906.1	962.6	981.0
40°	1300.3	994.7	915.3	860.3	916.8	926.0
42.5°	1197.9	939.7	858.7	803.7	832.8	863.3
45°	1167.4	906.1	803.7	727.3	728.8	764.0
47.5°	1110.8	829.7	702.9	632.6	632.6	661.6
50°	1016.1	727.3	588.3	524.1	522.6	545.5
52.5°	875.5	628.0	496.6	426.3	421.7	444.6
55°	716.6	505.8	391.2	345.3	336.2	345.3
57.5°	557.7	394.2	308.7	272.0	270.5	278.1
60°	432.4	308.7	246.0	224.6	227.7	239.9
62.5°	327.0	246.0	209.3	201.7	206.3	218.5
65°	259.8	212.4	191.0	186.4	191.0	203.2
67.5°	210.9	192.5	177.2	171.1	174.2	186.4
69°	194.1	181.8	169.6	162.0	165.0	174.2
70°	184.9	175.7	163.5	155.9	158.9	168.1
72.5°	162.0	157.4	148.2	140.6	142.1	149.7
75°	142.1	139.0	132.9	123.8	123.8	132.9
77.5°	119.2	120.7	114.6	105.4	103.9	108.5
80°	94.7	97.8	94.7	85.6	82.5	82.5
82.5°	68.8	74.9	71.8	62.6	61.1	61.1
85°	42.8	47.4	45.8	39.7	39.7	35.1
87.5°	19.9	26.0	24.4	21.4	19.9	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)