

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: P565306

Luminaire Tested: **MSA-SA2C-730-U-T1**

Issue Date: 8/19/2021

Test Information

Test Method: LM-79-08
Report Number: P565306
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-SA2C-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: 10157 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

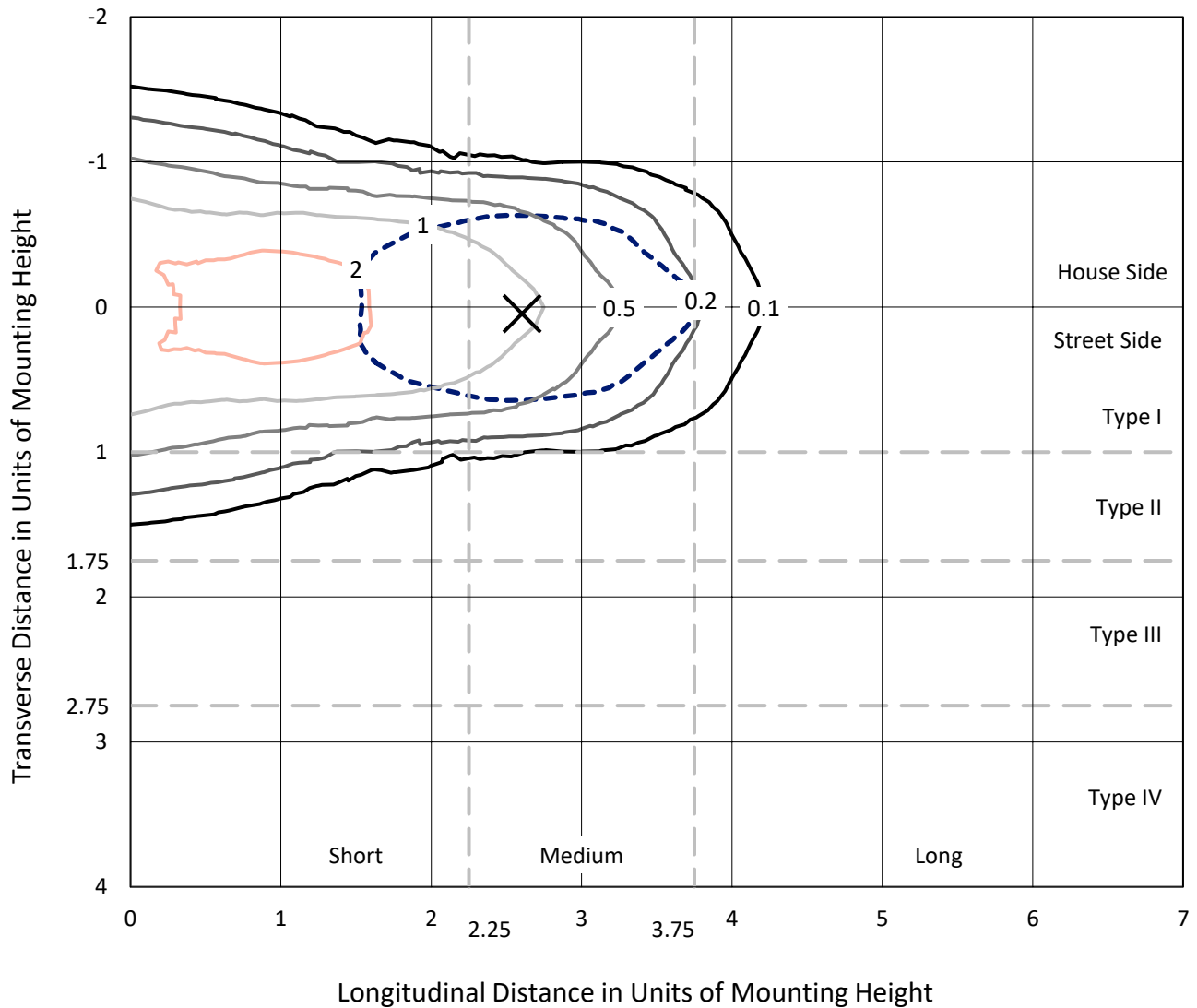
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

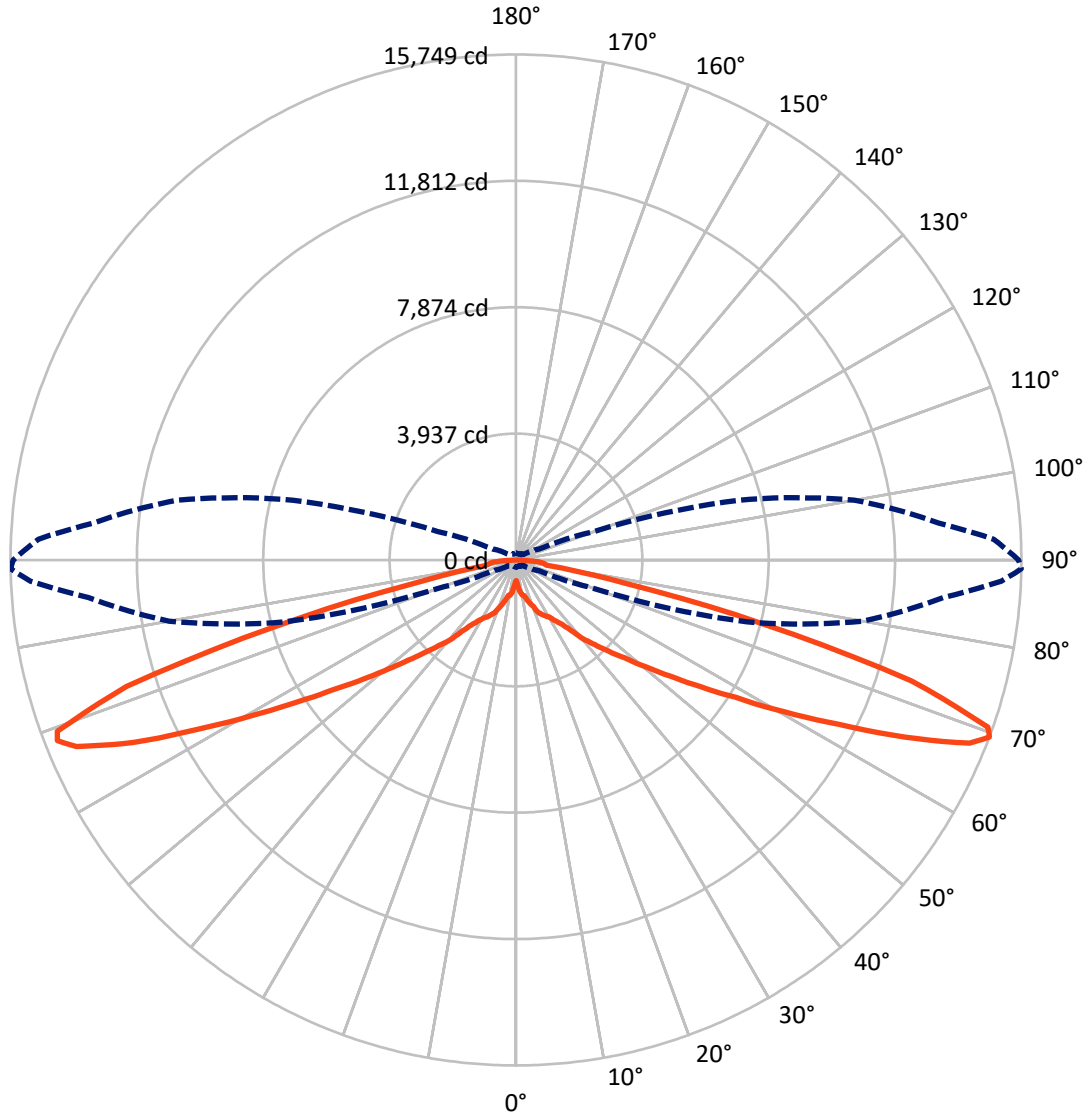
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
House Side	Lumens	5078.4	0.0	5078.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5078.6	0.0	5078.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10157.0	0.0	10157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	0.8
10°-20°	372.4	3.7
20°-30°	743.0	7.3
30°-40°	1123.8	11.1
40°-50°	1631.3	16.1
50°-60°	2143.3	21.1
60°-70°	2614.5	25.7
70°-80°	1321.8	13.0
80°-90°	126.0	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°	10157.0	100.0
0°-180°	10157.0	100.0

Coefficient of Utilization



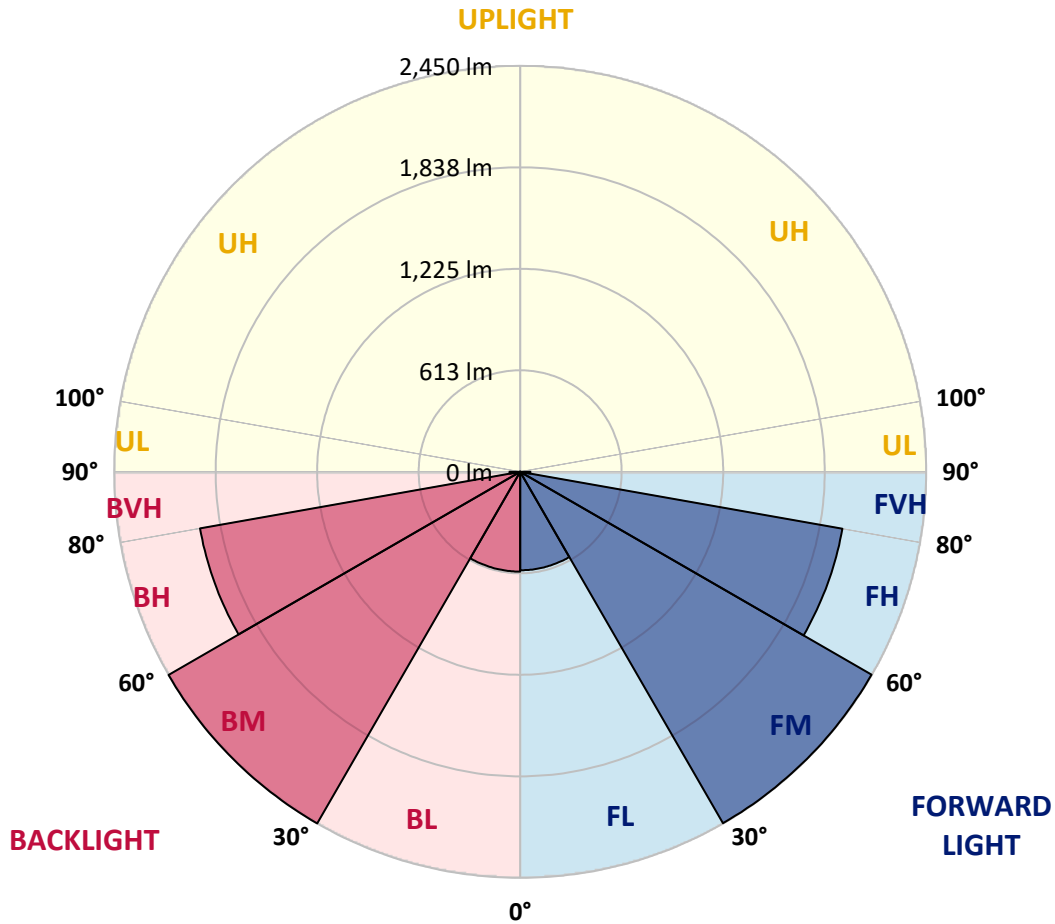
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.0	5.8			
FM (30°-60°)	2448.4	24.1			
FH (60°-80°)	1974.4	19.4			G2/5000
FVH (80°-90°)	61.8	0.6			G1/100
BL (0°-30°)	602.3	5.9	B2/1000		
BM (30°-60°)	2450.0	24.1	B2/2500		
BH (60°-80°)	1961.8	19.3	B3/2500		G3/2500
BVH (80°-90°)	64.2	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°	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3
2.5°	755.0	667.9	660.4	639.6	654.7	660.4	647.1	628.2	649.0	660.4	639.6
5°	951.8	823.1	779.6	743.6	671.7	641.5	671.7	749.3	758.8	806.1	792.8
7.5°	1048.3	1027.5	972.6	853.4	738.0	673.6	755.0	866.6	923.4	968.8	1016.1
10°	1120.2	1108.8	1012.3	927.2	879.9	883.7	885.5	921.5	970.7	1046.4	1072.9
12.5°	1137.2	1133.4	1148.6	1129.6	1133.4	1154.2	1133.4	1124.0	1152.3	1176.9	1150.5
15°	1247.0	1245.1	1250.7	1254.5	1330.2	1362.4	1330.2	1301.8	1281.0	1260.2	1303.7
17.5°	1322.6	1313.2	1315.1	1351.0	1436.2	1525.1	1508.1	1470.2	1422.9	1451.3	1487.3
20°	1364.3	1347.2	1358.6	1373.7	1517.5	1615.9	1627.3	1576.2	1547.8	1583.8	1614.0
22.5°	1404.0	1377.5	1337.8	1352.9	1485.4	1627.3	1682.2	1668.9	1689.7	1701.1	1695.4
25°	1356.7	1373.7	1330.2	1373.7	1508.1	1638.6	1748.4	1826.0	1827.9	1822.2	1863.8
27.5°	1328.3	1315.1	1241.3	1352.9	1464.6	1545.9	1826.0	1956.5	1996.3	1875.2	1956.5
30°	1279.1	1299.9	1199.6	1292.4	1434.3	1570.5	1914.9	2102.2	2043.6	2028.4	2047.3
32.5°	1248.8	1235.6	1188.3	1239.4	1347.2	1644.3	1971.7	2187.4	2261.2	2225.2	2221.4
35°	1199.6	1209.1	1135.3	1190.2	1341.6	1581.9	2009.5	2401.2	2514.7	2486.3	2463.6
37.5°	1207.2	1175.0	1122.1	1161.8	1305.6	1615.9	2104.1	2607.4	2787.2	2802.3	2698.3
40°	1150.5	1131.5	1052.1	1118.3	1237.5	1595.1	2126.8	2842.1	3146.7	3214.8	3065.3
42.5°	1069.1	1044.5	999.1	1072.9	1197.8	1492.9	2159.0	3124.0	3511.9	3653.8	3517.6
45°	951.8	919.6	896.9	995.3	1110.7	1466.4	2124.9	3358.6	3862.0	4056.9	4053.1
47.5°	809.9	789.0	777.7	881.8	1038.8	1400.2	2054.9	3506.2	4106.0	4605.6	4529.9
50°	649.0	633.9	632.0	741.7	917.7	1264.0	1975.4	3580.0	4476.9	5108.9	5175.1
52.5°	520.4	509.0	507.1	596.0	768.2	1080.4	1808.9	3636.8	4830.8	5680.4	6020.9
55°	406.8	395.5	397.4	471.2	611.2	883.7	1555.4	3572.5	5141.1	6265.0	6910.3
57.5°	333.0	321.7	323.6	365.2	467.4	675.5	1239.4	3432.4	5281.1	6987.9	7947.2
60°	293.3	281.9	276.3	295.2	359.5	509.0	921.5	2887.5	5303.8	7587.7	9073.0
62.5°	272.5	261.1	255.4	261.1	297.1	389.8	664.2	2287.7	5173.2	8100.5	10104.3
65°	253.6	244.1	236.5	242.2	261.1	310.3	484.4	1566.7	4490.2	8335.1	10853.6
67.5°	232.7	225.2	217.6	225.2	238.4	261.1	376.5	991.5	3366.2	8030.4	11165.8
69°	221.4	210.0	206.2	211.9	225.2	240.3	325.5	790.9	2560.1	7451.4	10976.6
70°	210.0	202.5	196.8	206.2	217.6	229.0	293.3	671.7	2007.6	6707.8	10507.3
72.5°	185.4	179.8	176.0	185.4	194.9	202.5	240.3	478.7	1163.7	4567.7	8333.2
75°	162.7	157.1	155.2	162.7	170.3	174.1	202.5	329.2	686.9	2389.8	4999.2
77.5°	136.2	128.7	130.6	140.0	145.7	147.6	170.3	236.5	404.9	1082.3	2316.0
80°	100.3	100.3	107.9	115.4	115.4	115.4	136.2	172.2	246.0	497.6	961.2
82.5°	70.0	71.9	73.8	85.1	87.0	79.5	104.1	124.9	153.3	217.6	333.0
85°	39.7	41.6	43.5	51.1	53.0	47.3	68.1	79.5	88.9	107.9	174.1
87.5°	15.1	17.0	22.7	26.5	28.4	20.8	32.2	37.8	37.8	45.4	77.6
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°	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3
2.5°	683.1	696.3	720.9	726.6	705.8	683.1	632.0	664.2	677.4	652.8	660.4
5°	845.8	874.2	904.5	868.5	845.8	830.7	806.1	808.0	794.7	751.2	679.3
7.5°	1029.4	997.2	1019.9	1044.5	1008.5	1010.4	1033.1	985.8	949.9	876.1	741.7
10°	1114.5	1114.5	1120.2	1120.2	1105.0	1105.0	1103.1	1027.5	983.9	951.8	913.9
12.5°	1120.2	1118.3	1141.0	1124.0	1127.7	1131.5	1141.0	1175.0	1163.7	1122.1	1156.1
15°	1277.2	1269.7	1277.2	1275.3	1281.0	1298.0	1290.5	1282.9	1284.8	1315.1	1366.2
17.5°	1424.8	1428.6	1421.0	1434.3	1434.3	1445.6	1472.1	1445.6	1422.9	1479.7	1519.4
20°	1595.1	1581.9	1551.6	1574.3	1580.0	1581.9	1625.4	1593.2	1561.1	1581.9	1629.2
22.5°	1767.3	1765.4	1769.2	1771.1	1778.7	1750.3	1691.6	1682.2	1703.0	1674.6	1680.3
25°	1873.3	1875.2	1884.6	1886.5	1854.3	1884.6	1905.4	1843.0	1843.0	1837.3	1799.5
27.5°	2001.9	1973.6	1984.9	2000.0	1986.8	1994.4	1969.8	1878.9	1975.4	1988.7	1837.3
30°	2089.0	2075.7	2062.5	2077.6	2090.9	2124.9	2054.9	2045.5	2053.0	2123.0	1924.4
32.5°	2272.5	2291.4	2266.8	2242.2	2266.8	2259.3	2229.0	2215.8	2310.4	2217.6	1984.9
35°	2442.8	2450.4	2452.3	2448.5	2463.6	2437.1	2437.1	2486.3	2514.7	2414.4	2003.8
37.5°	2853.4	2826.9	2772.1	2745.6	2792.9	2832.6	2715.3	2773.9	2762.6	2592.3	2145.7
40°	3148.6	3209.2	3226.2	3218.6	3226.2	3112.7	3137.2	3180.8	3129.7	2847.7	2096.5
42.5°	3580.0	3617.9	3604.6	3587.6	3595.2	3574.3	3500.5	3661.4	3477.8	3133.5	2172.2
45°	3973.6	4058.7	4064.4	4005.8	4053.1	3979.3	4009.5	4066.3	3880.9	3347.3	2151.4
47.5°	4442.9	4618.8	4552.6	4552.6	4599.9	4441.0	4512.9	4588.6	4096.6	3491.1	2037.9
50°	5137.3	5231.9	5228.1	5211.1	5231.9	5146.8	5135.4	5125.9	4427.7	3627.3	1967.9
52.5°	5922.6	6051.2	6002.0	6020.9	6049.3	5888.5	6015.3	5669.0	4842.1	3678.4	1808.9
55°	6925.4	7014.3	6965.1	6868.6	6997.3	6895.1	6936.8	6261.3	5129.7	3532.7	1544.0
57.5°	8119.4	8164.8	8083.4	8074.0	8159.1	8049.4	7979.4	6927.3	5279.2	3423.0	1233.7
60°	9513.9	9655.8	9604.7	9523.4	9601.0	9504.5	8974.7	7493.1	5248.9	2910.2	955.6
62.5°	11186.6	11330.4	11273.7	11218.8	11268.0	11016.3	9909.4	7939.6	5112.7	2306.6	698.2
65°	12567.9	13216.9	13302.1	13304.0	13065.6	12482.8	10654.9	8113.7	4393.7	1610.3	510.9
67.5°	13476.2	14825.3	15245.4	15094.0	14547.1	13216.9	10955.8	7773.1	3392.7	1018.0	382.2
69°	13372.1	15141.3	15748.7	15663.5	14895.3	13205.6	10721.1	7199.8	2592.3	809.9	323.6
70°	12891.5	14882.1	15603.0	15640.8	14673.9	12698.5	10303.0	6541.3	2096.5	690.6	297.1
72.5°	10287.8	12263.3	12897.2	13145.0	12185.7	10168.6	8448.6	4615.0	1214.8	482.5	240.3
75°	6372.9	7436.3	7962.3	8106.1	7525.2	6333.2	5127.8	2567.7	739.8	340.6	202.5
77.5°	2857.2	3165.6	3468.4	3468.4	3241.3	2891.3	2350.1	1241.3	420.1	242.2	170.3
80°	957.4	993.4	966.9	976.4	938.5	902.6	944.2	535.5	259.2	181.7	138.1
82.5°	650.9	817.4	868.5	868.5	815.5	643.3	363.3	246.0	158.9	130.6	106.0
85°	529.8	647.1	694.4	715.2	673.6	543.1	191.1	119.2	94.6	83.3	71.9
87.5°	177.9	166.5	157.1	153.3	160.8	168.4	94.6	51.1	43.5	39.7	37.8
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):

	135°	145°	155°	165°	175°	180°
0°	643.3	643.3	643.3	643.3	643.3	643.3
2.5°	673.6	650.9	660.4	669.8	738.0	789.0
5°	669.8	702.0	773.9	864.7	906.4	1008.5
7.5°	688.8	806.1	940.4	1035.0	1072.9	1105.0
10°	921.5	942.3	987.7	1078.5	1154.2	1167.5
12.5°	1190.2	1184.5	1152.3	1194.0	1156.1	1182.6
15°	1400.2	1337.8	1294.3	1288.6	1275.3	1275.3
17.5°	1515.6	1460.8	1400.2	1385.1	1345.3	1377.5
20°	1651.9	1557.3	1405.9	1390.8	1377.5	1347.2
22.5°	1625.4	1530.8	1373.7	1354.8	1424.8	1421.0
25°	1657.6	1530.8	1381.3	1360.5	1392.7	1392.7
27.5°	1578.1	1474.0	1366.2	1241.3	1339.7	1362.4
30°	1557.3	1440.0	1315.1	1203.4	1303.7	1282.9
32.5°	1667.0	1354.8	1231.8	1197.8	1271.6	1256.4
35°	1581.9	1339.7	1211.0	1148.6	1235.6	1220.5
37.5°	1617.8	1320.7	1175.0	1122.1	1192.1	1214.8
40°	1610.3	1231.8	1133.4	1065.3	1135.3	1146.7
42.5°	1483.5	1163.7	1063.4	995.3	1031.2	1069.1
45°	1445.6	1122.1	995.3	900.7	902.6	946.1
47.5°	1375.6	1027.5	870.4	783.4	783.4	819.3
50°	1258.3	900.7	728.5	649.0	647.1	675.5
52.5°	1084.2	777.7	615.0	527.9	522.2	550.6
55°	887.4	626.3	484.4	427.6	416.3	427.6
57.5°	690.6	488.2	382.2	336.8	334.9	344.4
60°	535.5	382.2	304.6	278.2	281.9	297.1
62.5°	404.9	304.6	259.2	249.8	255.4	270.6
65°	321.7	263.0	236.5	230.8	236.5	251.7
67.5°	261.1	238.4	219.5	211.9	215.7	230.8
69°	240.3	225.2	210.0	200.6	204.4	215.7
70°	229.0	217.6	202.5	193.0	196.8	208.1
72.5°	200.6	194.9	183.5	174.1	176.0	185.4
75°	176.0	172.2	164.6	153.3	153.3	164.6
77.5°	147.6	149.5	141.9	130.6	128.7	134.3
80°	117.3	121.1	117.3	106.0	102.2	102.2
82.5°	85.1	92.7	88.9	77.6	75.7	75.7
85°	53.0	58.7	56.8	49.2	49.2	43.5
87.5°	24.6	32.2	30.3	26.5	24.6	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)