

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: McGRAW-EDISON

Report Number: P945950

Luminaire Tested: **GALN-SB1D-730-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8198 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

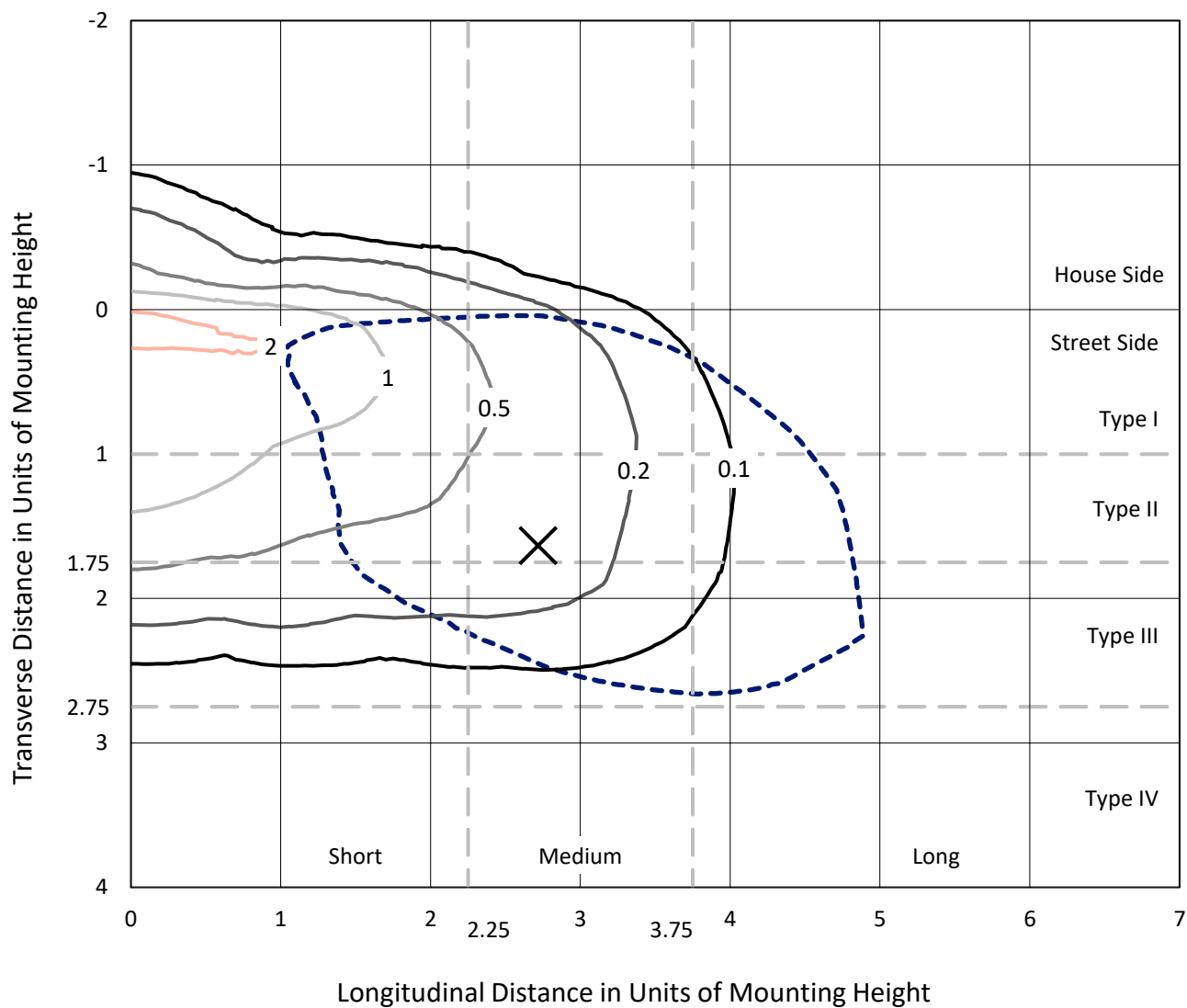
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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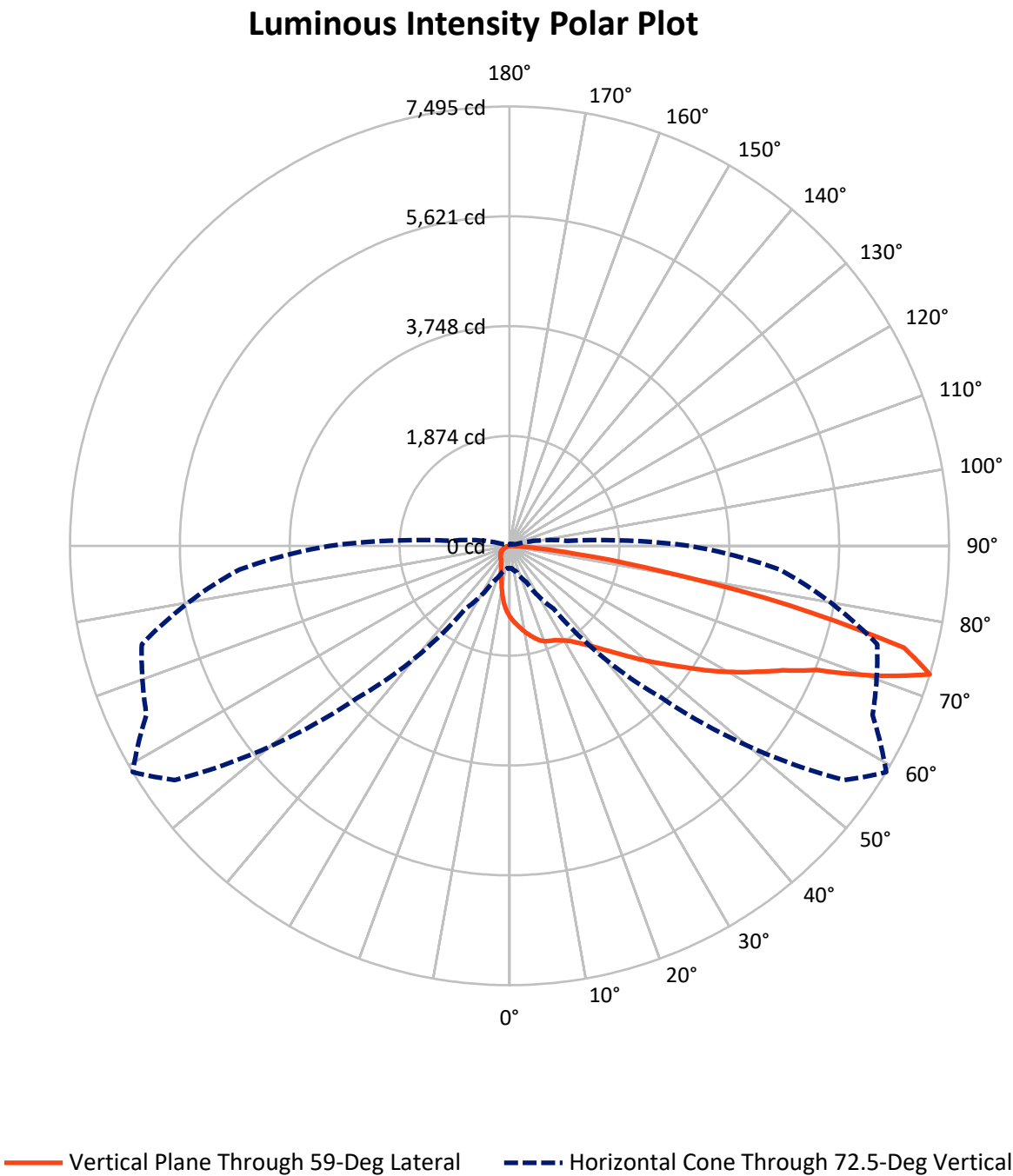
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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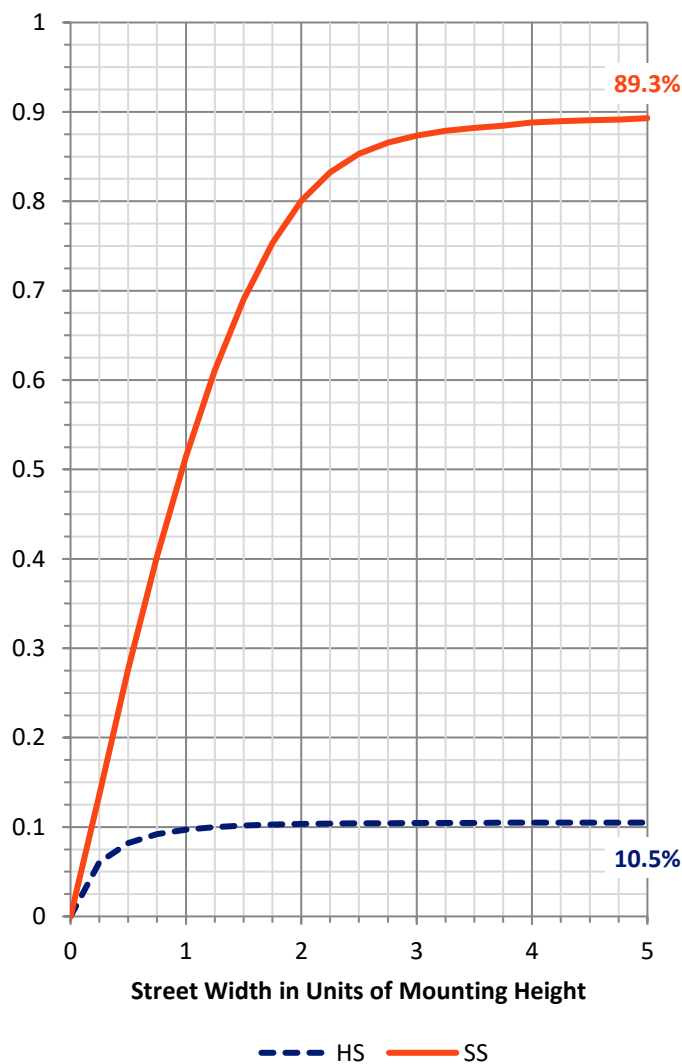
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.9	0.0	865.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7332.1	0.0	7332.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	8198.0	0.0	8198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.3
10°-20°	291.3	3.6
20°-30°	461.7	5.6
30°-40°	741.0	9.0
40°-50°	1183.5	14.4
50°-60°	1713.5	20.9
60°-70°	2033.5	24.8
70°-80°	1509.6	18.4
80°-90°	154.3	1.9
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°	8198.0	100.0
0°-180°	8198.0	100.0

Coefficient of Utilization



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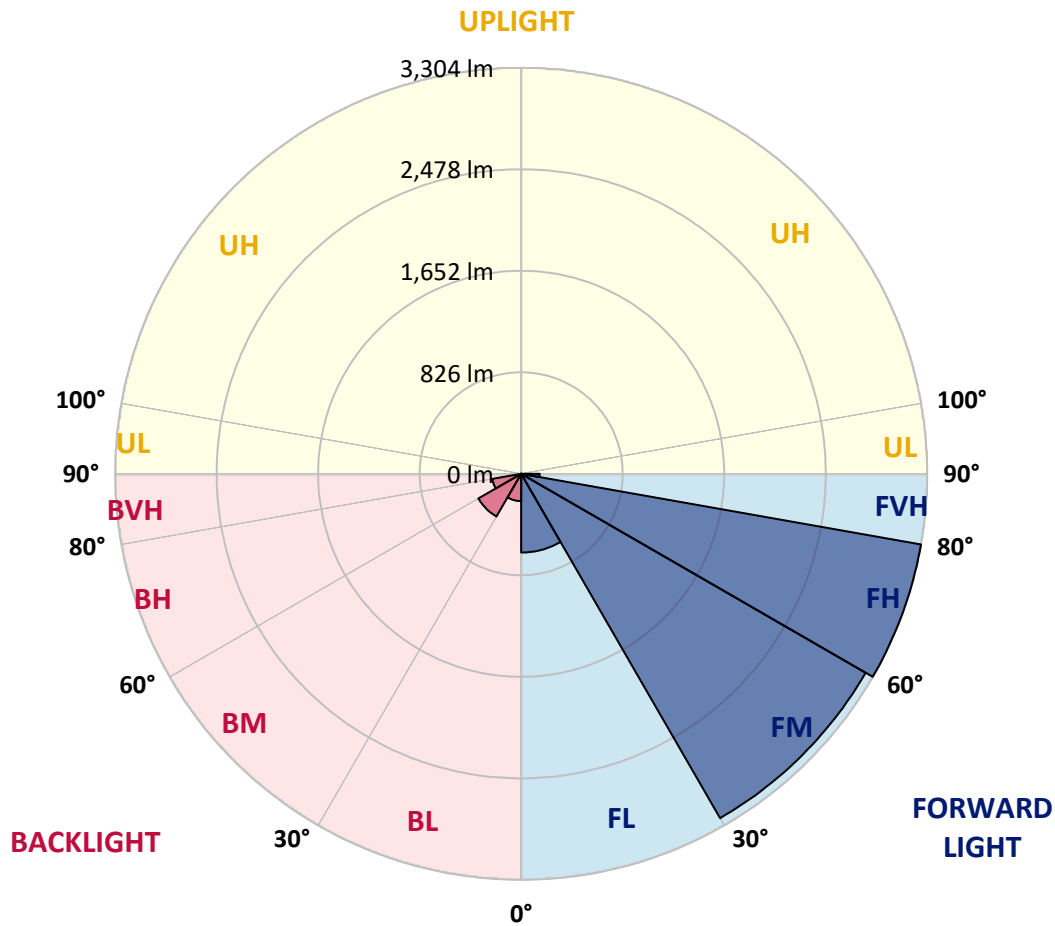
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.9	7.8			
FM	(30°-60°)	3236.5	39.5			
FH	(60°-80°)	3304.3	40.3			G2/5000
FVH	(80°-90°)	150.5	1.8			G2/225
BL	(0°-30°)	221.8	2.7	B1/500		
BM	(30°-60°)	401.4	4.9	B1/1000		
BH	(60°-80°)	238.8	2.9	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1345.0	1337.5	1338.6	1325.8	1316.7	1307.0	1288.3	1285.6	1272.2	1248.7	1224.6
5°	1462.2	1457.4	1453.1	1438.7	1420.0	1396.4	1364.8	1353.6	1329.0	1288.3	1241.2
7.5°	1547.9	1542.0	1544.1	1529.7	1514.7	1488.5	1445.1	1424.2	1391.6	1329.5	1258.3
10°	1564.5	1561.3	1575.2	1580.5	1580.5	1563.9	1521.7	1500.8	1453.1	1373.9	1276.0
12.5°	1471.3	1471.9	1506.7	1548.4	1603.0	1618.5	1590.2	1567.7	1520.6	1421.0	1298.5
15°	1362.7	1363.2	1396.9	1450.5	1539.8	1629.2	1651.7	1637.3	1588.6	1471.9	1324.7
17.5°	1297.4	1294.7	1317.2	1361.1	1454.7	1580.5	1689.2	1698.8	1659.2	1528.1	1353.6
20°	1288.3	1283.5	1295.2	1317.2	1384.1	1519.5	1693.5	1739.0	1732.0	1591.8	1386.8
22.5°	1344.0	1336.5	1330.0	1331.1	1359.5	1468.7	1682.8	1761.4	1806.9	1668.3	1432.3
25°	1454.2	1442.4	1421.6	1394.8	1388.9	1458.0	1675.3	1786.1	1876.5	1766.2	1492.2
27.5°	1589.1	1572.5	1532.4	1492.2	1458.0	1487.9	1690.8	1825.1	1955.2	1880.3	1561.8
30°	1737.3	1717.0	1676.9	1600.9	1546.3	1554.8	1727.7	1876.5	2055.8	2009.2	1649.0
32.5°	1955.2	1908.1	1838.0	1721.8	1649.6	1627.1	1783.4	1941.8	2180.5	2181.0	1775.3
35°	2142.0	2115.8	2045.1	1900.6	1752.3	1722.9	1856.7	2033.9	2353.4	2408.5	1952.0
37.5°	2264.5	2228.7	2166.6	2057.9	1911.8	1821.4	1954.6	2146.8	2536.4	2667.6	2169.8
40°	2401.6	2366.2	2283.8	2181.6	2097.0	1990.5	2078.3	2276.9	2737.2	2933.6	2418.7
42.5°	2566.9	2520.9	2423.5	2313.3	2224.9	2213.2	2239.9	2439.0	2943.2	3222.6	2677.7
45°	2761.2	2717.9	2606.0	2466.9	2389.3	2368.4	2443.3	2628.0	3172.8	3539.5	2939.5
47.5°	2943.2	2892.9	2772.5	2645.6	2559.5	2493.6	2659.5	2851.2	3432.9	3870.8	3186.7
50°	3097.9	3046.5	2936.3	2800.8	2742.5	2656.3	2872.0	3100.0	3690.9	4207.4	3412.6
52.5°	3203.9	3158.4	3028.8	2936.8	2897.2	2853.8	3120.9	3363.9	3947.8	4515.7	3635.8
55°	3179.8	3139.1	3025.1	3018.7	3016.0	3061.5	3418.5	3663.1	4209.6	4807.4	3857.9
57.5°	3103.2	3057.2	2914.8	3012.8	3107.5	3246.7	3740.7	4016.9	4496.4	5082.5	4072.0
60°	2877.9	2861.9	2775.2	3001.6	3146.1	3428.1	4108.9	4372.3	4806.9	5324.4	4262.0
62.5°	2401.0	2414.9	2414.4	3025.1	3215.6	3634.7	4443.5	4731.9	5110.3	5557.3	4431.1
65°	1797.8	1846.0	1907.5	2813.2	3308.8	4003.5	4843.3	5122.1	5418.6	5828.1	4603.0
67.5°	1208.0	1246.5	1288.3	2307.9	3031.5	4391.0	5507.5	5656.8	5787.9	6128.3	4796.2
70°	691.5	703.8	762.2	1441.4	2336.8	4284.0	6589.2	6643.2	6338.7	6498.2	4936.9
72.5°	387.5	383.2	460.3	684.0	1306.0	3668.4	6968.1	7495.3	6831.6	6492.3	4622.8
75°	259.0	259.6	316.9	431.4	509.0	2568.0	6004.7	6949.9	6536.2	5756.9	3777.1
77.5°	176.6	182.5	232.8	333.4	235.5	1253.0	3972.5	4868.4	5291.8	4445.6	2607.6
80°	76.5	77.1	153.6	239.2	159.0	398.7	2059.6	2608.2	3318.9	2496.3	1033.0
82.5°	39.6	45.0	97.9	154.7	100.1	139.7	973.0	1139.5	1392.7	732.7	211.9
85°	13.9	16.6	60.5	76.0	50.3	49.8	338.8	345.2	294.9	110.3	58.3
87.5°	0.0	2.7	23.5	18.7	6.4	5.9	40.1	33.7	26.8	15.5	19.3
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°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1213.4	1198.9	1175.4	1146.5	1112.7	1094.5	1068.3	1052.3	1037.8	1038.3	1050.1
5°	1215.0	1190.9	1130.9	1067.2	996.6	944.7	886.9	846.2	815.2	807.7	818.9
7.5°	1219.8	1179.1	1081.2	975.2	857.4	770.2	690.4	640.1	611.8	604.3	611.8
10°	1226.2	1166.3	1025.0	862.8	716.7	611.8	545.4	513.3	500.4	490.8	496.7
12.5°	1231.6	1152.9	954.3	746.6	591.4	509.5	459.2	432.5	421.2	414.3	418.0
15°	1240.7	1135.2	877.8	638.5	506.9	440.0	392.3	372.5	369.3	370.4	372.0
17.5°	1249.8	1118.1	792.1	554.0	444.8	378.9	350.0	346.8	351.1	355.4	357.0
20°	1259.9	1093.5	705.4	490.3	387.5	336.7	329.2	331.3	333.4	340.9	343.1
22.5°	1274.9	1062.4	629.4	436.2	339.9	316.3	312.6	314.2	315.8	323.3	325.4
25°	1296.3	1029.2	567.9	386.4	309.9	299.7	296.0	296.0	298.1	305.1	307.8
27.5°	1318.8	982.1	518.1	340.4	292.2	281.5	275.1	275.1	277.8	285.8	289.0
30°	1344.0	939.3	479.0	306.1	277.2	263.3	254.8	252.6	255.8	266.0	268.7
32.5°	1389.4	911.5	451.2	290.1	263.9	246.7	235.0	229.1	232.3	244.1	247.3
35°	1458.5	905.1	431.9	282.1	251.0	231.8	215.2	206.1	208.7	221.0	224.8
37.5°	1539.3	918.4	413.2	271.4	238.7	217.3	195.4	183.6	187.9	199.1	202.3
40°	1655.5	974.1	398.7	263.3	226.4	200.2	175.6	163.8	170.7	180.4	182.0
42.5°	1795.7	1073.1	395.0	255.8	211.4	182.0	157.4	148.8	154.1	163.2	164.8
45°	1969.6	1199.4	412.1	246.2	194.8	164.3	142.9	138.1	139.7	148.8	153.1
47.5°	2156.4	1329.0	459.2	237.6	180.4	149.9	131.7	127.4	126.3	134.9	140.2
50°	2345.4	1444.0	514.9	231.2	170.2	138.1	123.1	117.7	115.1	120.4	122.6
52.5°	2532.2	1535.6	551.3	220.5	160.0	126.3	115.6	107.6	102.8	105.4	107.6
55°	2721.6	1615.9	553.4	204.5	150.4	118.8	108.1	99.0	93.1	93.1	94.2
57.5°	2898.8	1686.5	521.8	183.0	137.0	111.9	97.9	90.5	84.0	81.9	82.4
60°	3055.6	1739.0	469.4	159.0	125.2	102.8	87.8	81.9	73.9	69.6	68.5
62.5°	3195.3	1764.6	397.7	134.3	110.8	92.1	78.1	71.7	61.0	55.7	55.1
65°	3313.6	1738.4	322.7	111.3	98.5	80.3	66.9	60.5	48.7	42.3	42.3
67.5°	3430.8	1618.5	244.1	93.7	85.6	67.4	55.1	49.2	40.7	35.3	35.3
70°	3445.8	1366.4	170.7	78.7	71.2	51.9	44.4	40.7	33.2	28.4	27.8
72.5°	3067.4	983.2	103.8	64.2	55.7	36.9	35.3	32.1	24.6	21.4	20.9
75°	2451.9	602.7	61.0	48.2	36.9	26.2	26.2	23.0	16.6	13.9	13.9
77.5°	1694.5	315.2	35.9	31.0	21.9	15.5	17.1	13.9	8.0	6.4	6.4
80°	678.7	119.9	19.3	14.5	10.2	7.0	5.9	3.2	1.6	1.1	1.6
82.5°	135.4	31.6	6.4	3.7	3.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	34.8	7.0	1.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)