

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: P949149

Luminaire Tested: **GALN-SB4A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16985 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 114
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



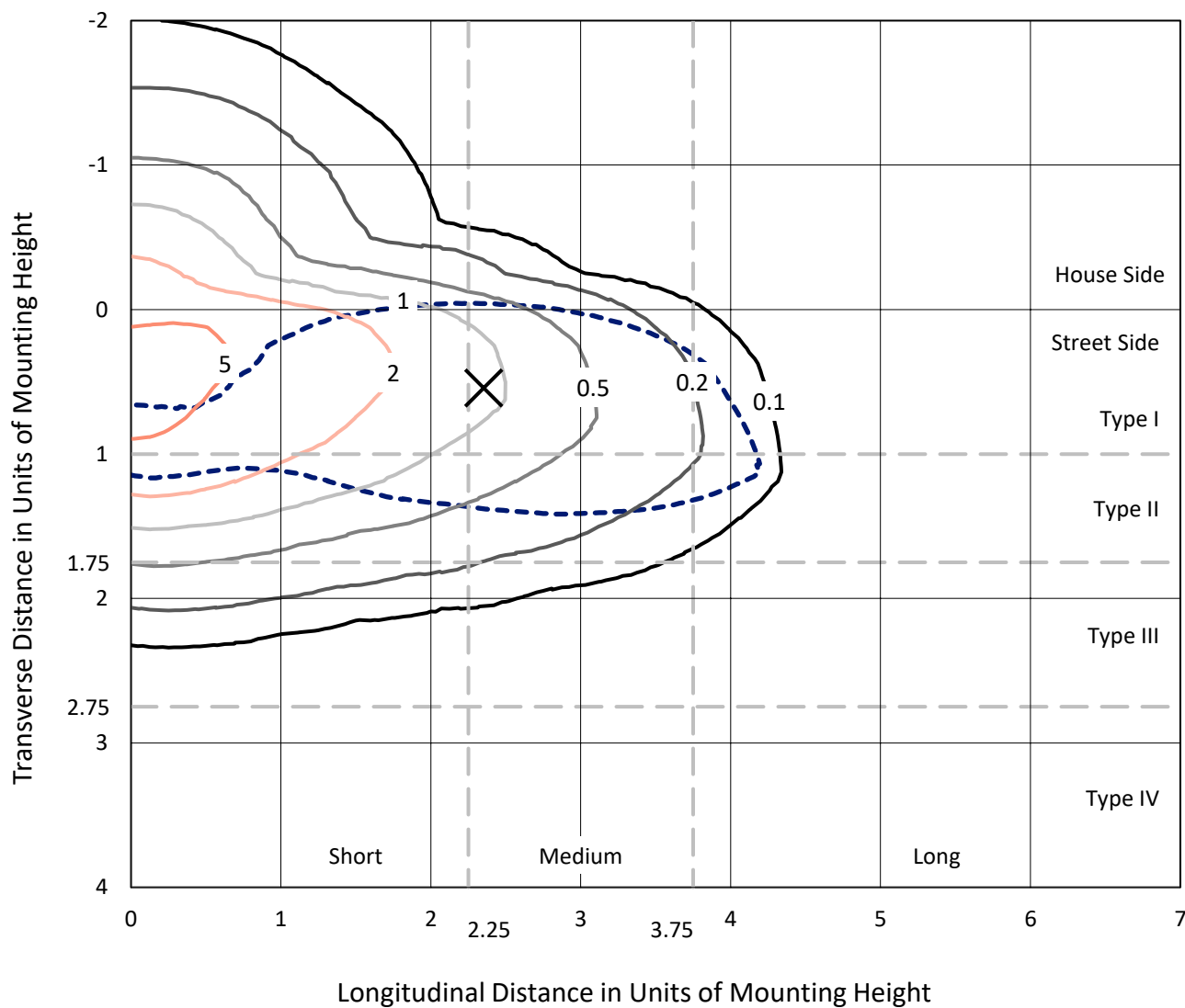
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

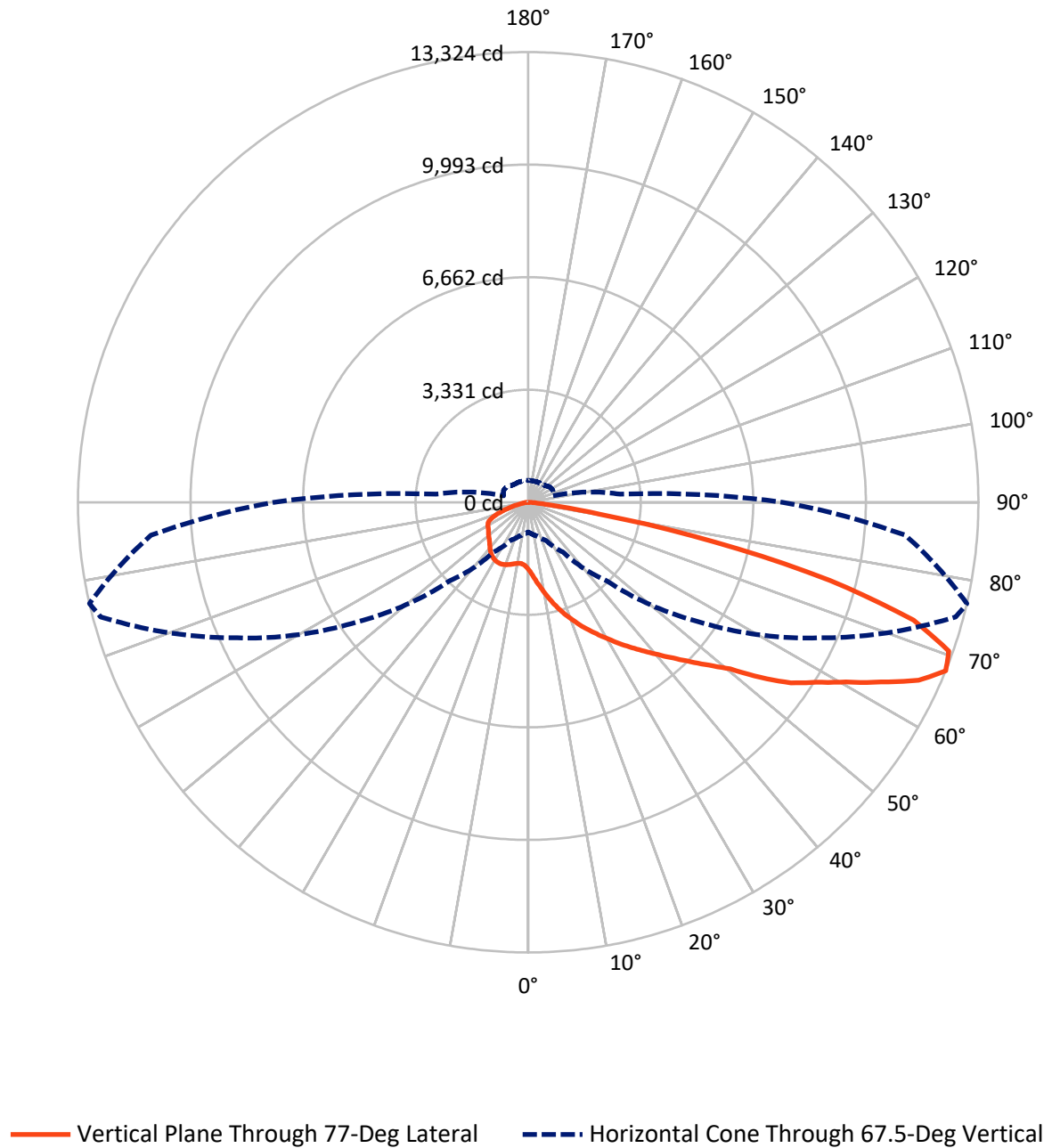


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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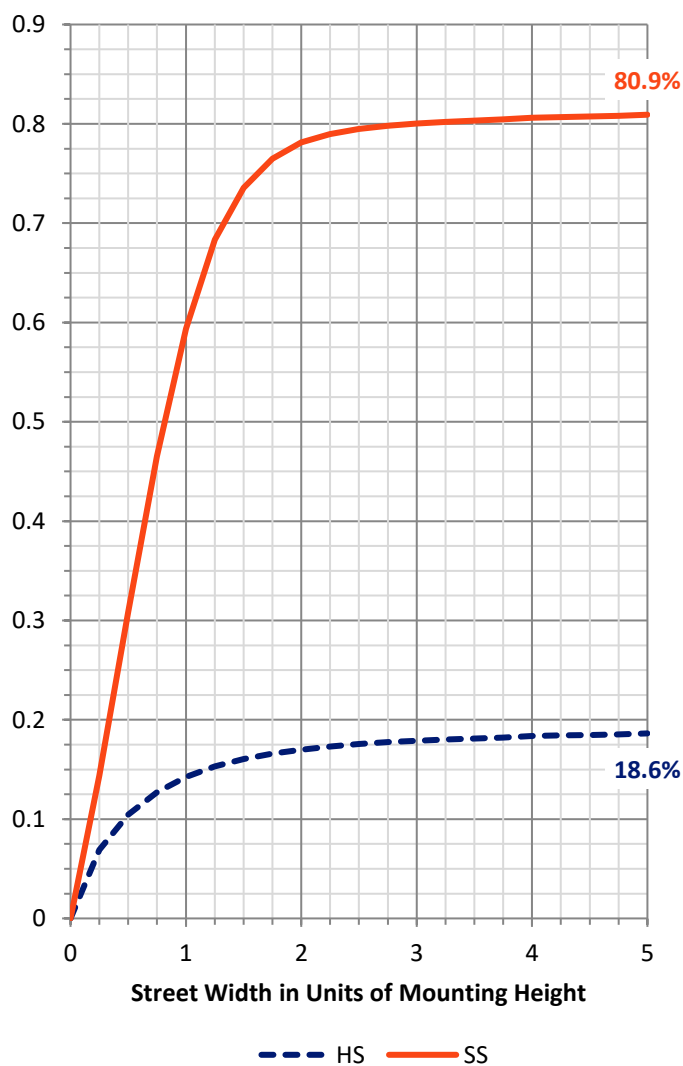
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.9	0.0	3212.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13772.1	0.0	13772.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	16985.0	0.0	16985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.3
10°-20°	767.4	4.5
20°-30°	1448.9	8.5
30°-40°	2334.2	13.7
40°-50°	3192.8	18.8
50°-60°	3601.5	21.2
60°-70°	3361.6	19.8
70°-80°	1842.7	10.8
80°-90°	222.3	1.3
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°	16985.0	100.0
0°-180°	16985.0	100.0

Coefficient of Utilization



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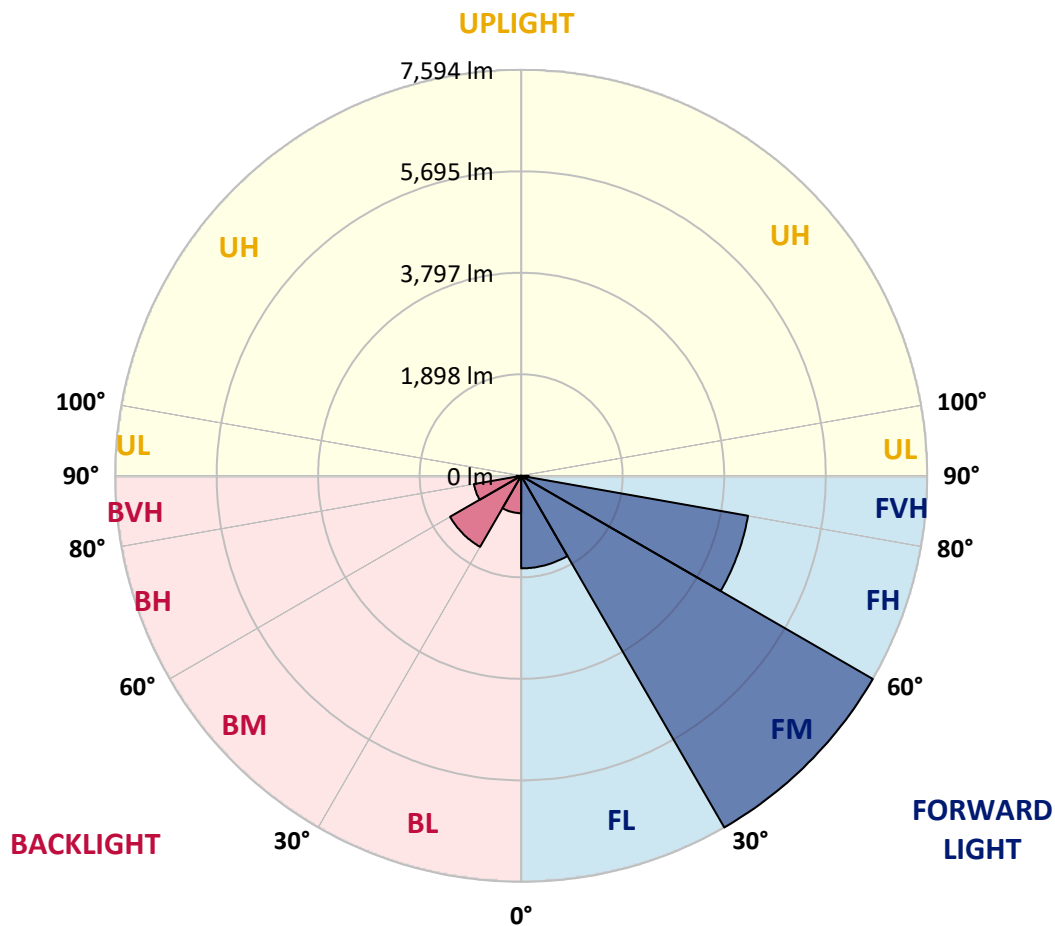
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1731.4	10.2			
FM	(30°-60°)	7593.8	44.7			
FH	(60°-80°)	4307.9	25.4			G2/5000
FVH	(80°-90°)	139.0	0.8			G2/225
BL	(0°-30°)	698.6	4.1	B2/1000		
BM	(30°-60°)	1534.7	9.0	B2/2500		
BH	(60°-80°)	896.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	83.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9
2.5°	2495.2	2512.8	2490.9	2490.9	2417.2	2378.6	2305.0	2248.9	2148.1	2130.5	2063.9
5°	2949.4	2971.3	2940.6	2927.5	2840.7	2760.9	2637.3	2515.4	2335.7	2317.3	2160.3
7.5°	3301.0	3329.0	3301.9	3287.8	3210.7	3121.3	2976.6	2806.5	2553.1	2517.2	2290.1
10°	3587.7	3592.1	3583.3	3588.6	3528.1	3454.4	3306.2	3108.1	2791.6	2742.5	2447.0
12.5°	3749.9	3770.1	3787.6	3819.2	3808.6	3763.0	3629.8	3393.0	3044.1	2981.0	2618.0
15°	3826.2	3861.2	3900.7	3973.5	4032.2	4043.6	3941.9	3699.0	3301.0	3224.7	2790.7
17.5°	3853.3	3886.7	3948.9	4054.1	4180.4	4265.4	4219.8	3996.3	3555.2	3467.6	2972.2
20°	3991.0	4000.6	4038.3	4138.3	4275.1	4416.2	4450.4	4282.1	3806.9	3707.8	3159.8
22.5°	4285.6	4266.3	4276.8	4322.4	4420.6	4557.4	4635.4	4534.6	4065.5	3951.5	3349.2
25°	4772.2	4716.1	4660.0	4607.4	4657.3	4734.5	4823.0	4787.1	4336.4	4191.8	3540.3
27.5°	5386.8	5318.4	5194.8	5022.1	4961.6	4988.7	5028.2	5021.2	4587.2	4440.8	3737.6
30°	5991.8	5912.0	5764.7	5514.8	5355.2	5283.3	5253.5	5233.4	4859.9	4703.8	3936.6
32.5°	6474.8	6411.7	6267.1	5987.4	5755.9	5633.2	5534.1	5462.2	5144.8	4988.7	4147.1
35°	6897.4	6838.7	6673.0	6367.9	6116.3	5985.6	5855.9	5702.4	5441.2	5283.3	4373.3
37.5°	7283.2	7224.5	6997.4	6680.0	6426.6	6336.3	6220.6	5960.2	5738.4	5589.3	4612.6
40°	7527.0	7513.8	7301.6	6942.2	6679.1	6634.4	6595.8	6259.2	6068.0	5929.5	4875.6
42.5°	7589.2	7618.1	7449.8	7154.3	6903.6	6867.6	6957.9	6597.6	6438.0	6305.6	5173.7
45°	7439.3	7522.6	7412.1	7211.3	7063.2	7043.9	7278.8	6967.6	6847.5	6726.5	5533.2
47.5°	7059.6	7200.8	7155.2	7127.2	7106.1	7189.4	7561.2	7360.4	7311.3	7206.1	5943.5
50°	6293.4	6560.8	6640.6	6817.7	7021.1	7302.5	7818.0	7789.1	7853.1	7747.0	6443.3
52.5°	4968.6	5336.8	5799.7	6243.4	6759.8	7264.8	8100.4	8404.6	8674.6	8616.8	7237.6
55°	4101.5	4267.2	4623.1	5436.8	6253.0	7106.1	8227.5	8901.7	9490.0	9438.3	7840.0
57.5°	3435.1	3583.3	3802.5	4482.0	5486.7	6745.8	8306.4	9205.1	10048.5	10043.2	8434.4
60°	2720.6	2877.5	3102.0	3583.3	4591.6	6123.3	8288.9	9550.5	10761.3	10805.2	9159.5
62.5°	1914.0	2086.7	2335.7	2784.6	3677.1	5316.7	7931.1	9800.4	11600.4	11719.6	10031.9
65°	1258.1	1372.1	1559.8	1947.3	2739.9	4279.4	7248.1	9832.8	12498.2	12699.8	10850.7
67.5°	882.0	925.9	1036.3	1246.7	1806.1	3281.7	6160.1	9497.0	13097.0	13324.1	11205.8
70°	688.3	710.2	766.3	850.5	1134.5	2206.8	4720.5	8623.8	12969.0	13205.7	10835.0
72.5°	594.4	615.5	636.5	647.0	761.0	1362.5	3197.5	7210.4	11763.4	11923.9	9420.8
75°	539.2	544.5	562.0	558.5	580.4	883.8	1845.6	5253.5	9281.3	9226.1	6954.4
77.5°	453.3	460.3	489.2	484.8	515.5	604.1	958.3	3390.4	6017.2	5641.9	3870.9
80°	384.0	387.5	419.1	413.8	448.0	437.5	489.2	1728.1	2552.2	2162.1	1116.1
82.5°	133.3	164.8	320.0	329.7	341.9	264.8	282.3	704.9	779.4	597.1	234.1
85°	64.9	69.3	163.1	231.5	230.6	133.3	137.7	251.6	245.5	192.9	78.0
87.5°	10.5	13.2	19.3	90.3	71.9	35.1	47.3	49.1	50.9	43.8	17.5
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°	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9	1992.9
2.5°	2014.8	1970.9	1878.9	1793.8	1727.2	1663.2	1627.3	1596.6	1579.0	1575.5	1575.5
5°	2069.1	1978.8	1811.4	1670.2	1578.2	1509.8	1473.8	1451.0	1439.6	1432.6	1431.7
7.5°	2147.2	2014.8	1776.3	1615.9	1519.4	1470.3	1451.9	1448.4	1447.5	1448.4	1451.0
10°	2255.0	2073.5	1772.8	1602.7	1522.0	1494.9	1494.0	1494.9	1498.4	1499.3	1500.1
12.5°	2371.6	2134.0	1786.8	1614.1	1555.4	1540.5	1537.8	1537.0	1539.6	1541.3	1542.2
15°	2498.8	2213.8	1810.5	1638.7	1592.2	1576.4	1573.8	1568.5	1567.6	1566.8	1565.9
17.5°	2629.4	2292.7	1836.8	1665.0	1615.9	1593.9	1584.3	1572.0	1562.4	1559.8	1562.4
20°	2761.8	2370.8	1855.2	1678.1	1617.6	1586.9	1567.6	1546.6	1529.9	1520.3	1523.8
22.5°	2902.9	2452.3	1866.6	1674.6	1601.8	1559.8	1524.7	1500.1	1474.7	1458.0	1458.9
25°	3040.6	2523.3	1865.7	1656.2	1571.1	1517.7	1473.0	1441.4	1406.3	1388.8	1388.8
27.5°	3173.0	2587.3	1843.8	1623.8	1527.3	1467.7	1414.2	1376.5	1342.3	1325.7	1324.8
30°	3309.8	2640.8	1809.6	1576.4	1475.6	1409.8	1351.1	1318.6	1288.0	1272.2	1271.3
32.5°	3445.7	2689.9	1761.4	1517.7	1416.0	1352.8	1295.0	1265.2	1246.7	1246.7	1247.6
35°	3589.4	2724.1	1697.4	1449.3	1352.8	1292.3	1246.7	1229.2	1227.5	1216.9	1214.3
37.5°	3741.1	2746.0	1619.4	1379.1	1290.6	1233.6	1219.6	1198.5	1181.0	1158.2	1154.7
40°	3900.7	2767.9	1525.6	1306.4	1224.8	1193.3	1187.1	1159.1	1109.1	1053.0	1045.1
42.5°	4094.5	2782.8	1428.2	1233.6	1155.6	1145.0	1153.8	1105.6	1025.8	983.7	984.6
45°	4318.9	2807.4	1338.8	1161.7	1084.5	1084.5	1121.4	1058.2	992.5	966.2	970.6
47.5°	4610.0	2864.4	1255.5	1082.8	1018.8	1036.3	1049.5	1001.3	964.4	932.0	931.1
50°	5030.8	3001.1	1169.6	1003.0	968.8	1003.9	985.5	957.4	914.5	888.2	885.5
52.5°	5553.4	3081.8	1093.3	931.1	925.9	960.9	934.6	908.3	875.9	840.8	833.8
55°	5909.3	3096.7	1029.3	878.5	896.9	893.4	883.8	860.1	842.6	796.1	797.0
57.5°	6307.4	3126.5	976.7	846.9	878.5	839.9	836.4	816.3	793.5	761.9	751.4
60°	6783.5	3173.0	931.1	834.7	862.7	804.9	787.3	779.4	756.6	740.9	745.2
62.5°	7302.5	3215.1	884.6	836.4	844.3	770.7	744.4	741.7	727.7	722.4	722.4
65°	7656.7	3100.2	826.8	834.7	815.4	735.6	702.3	701.4	690.0	688.3	687.4
67.5°	7533.1	2736.4	748.8	810.1	785.6	700.5	663.7	660.2	645.3	646.2	646.2
70°	6914.1	2217.3	640.9	749.6	748.8	669.0	623.4	612.0	591.8	595.3	598.8
72.5°	5753.3	1643.0	496.2	648.8	690.0	640.0	576.9	558.5	533.1	536.6	535.7
75°	4155.0	1117.0	361.2	493.6	600.6	605.8	531.3	499.8	469.1	474.3	476.1
77.5°	2126.1	633.0	265.7	340.2	471.7	550.6	490.1	448.0	441.0	490.1	483.1
80°	693.5	317.4	184.1	238.5	309.5	450.7	429.6	381.4	379.6	391.0	335.8
82.5°	206.9	134.1	118.4	156.9	171.0	345.4	370.9	288.5	248.1	261.3	270.0
85°	71.0	64.9	67.5	78.0	81.5	202.5	259.5	191.1	180.6	199.0	196.4
87.5°	16.7	22.8	19.3	17.5	17.5	49.1	100.8	79.8	110.5	73.6	71.0
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)