

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: P949519

Luminaire Tested: **GALN-SB4B-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-730-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22431 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

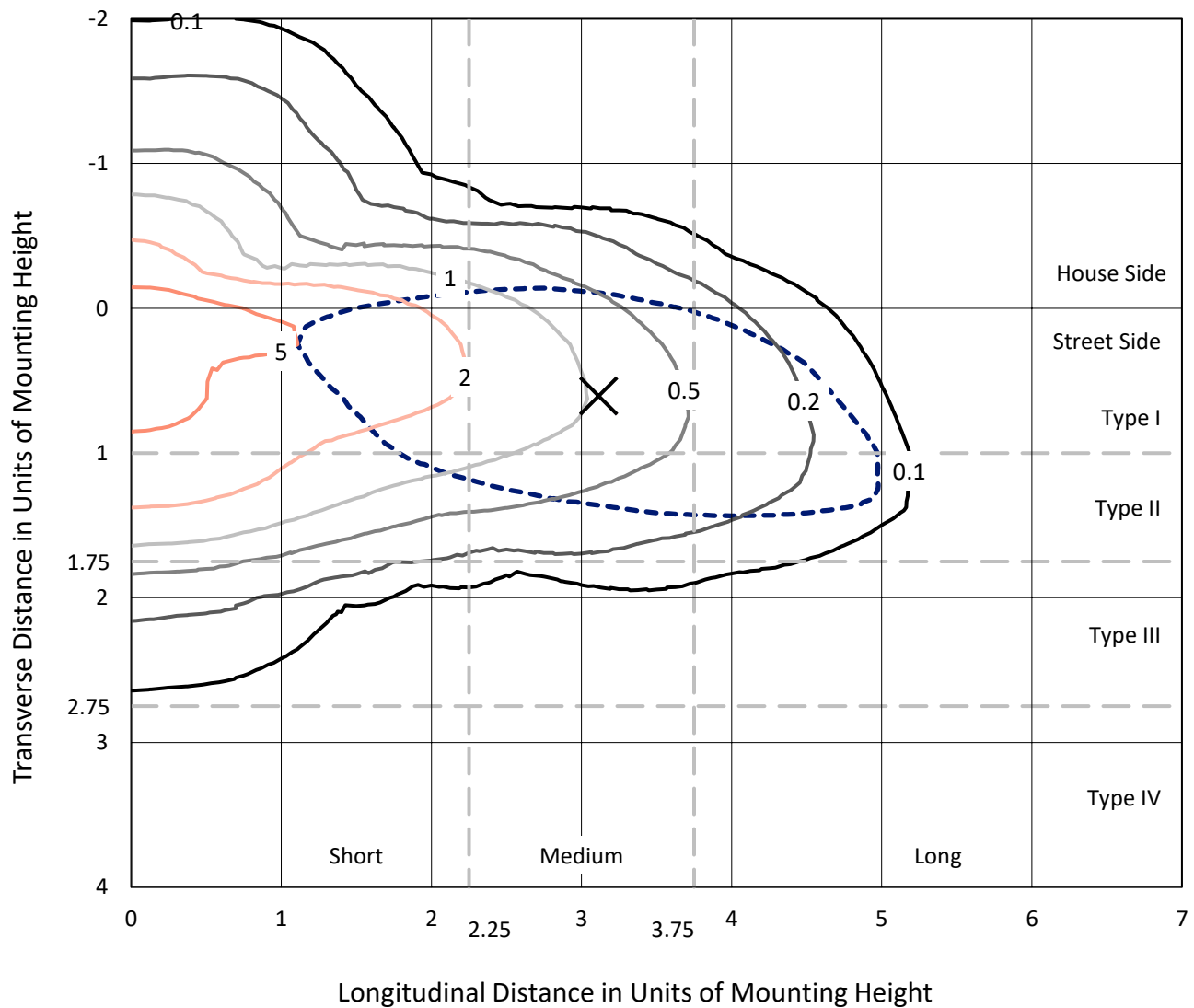


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Iso-Footcandle Lines of Horizontal Illumination

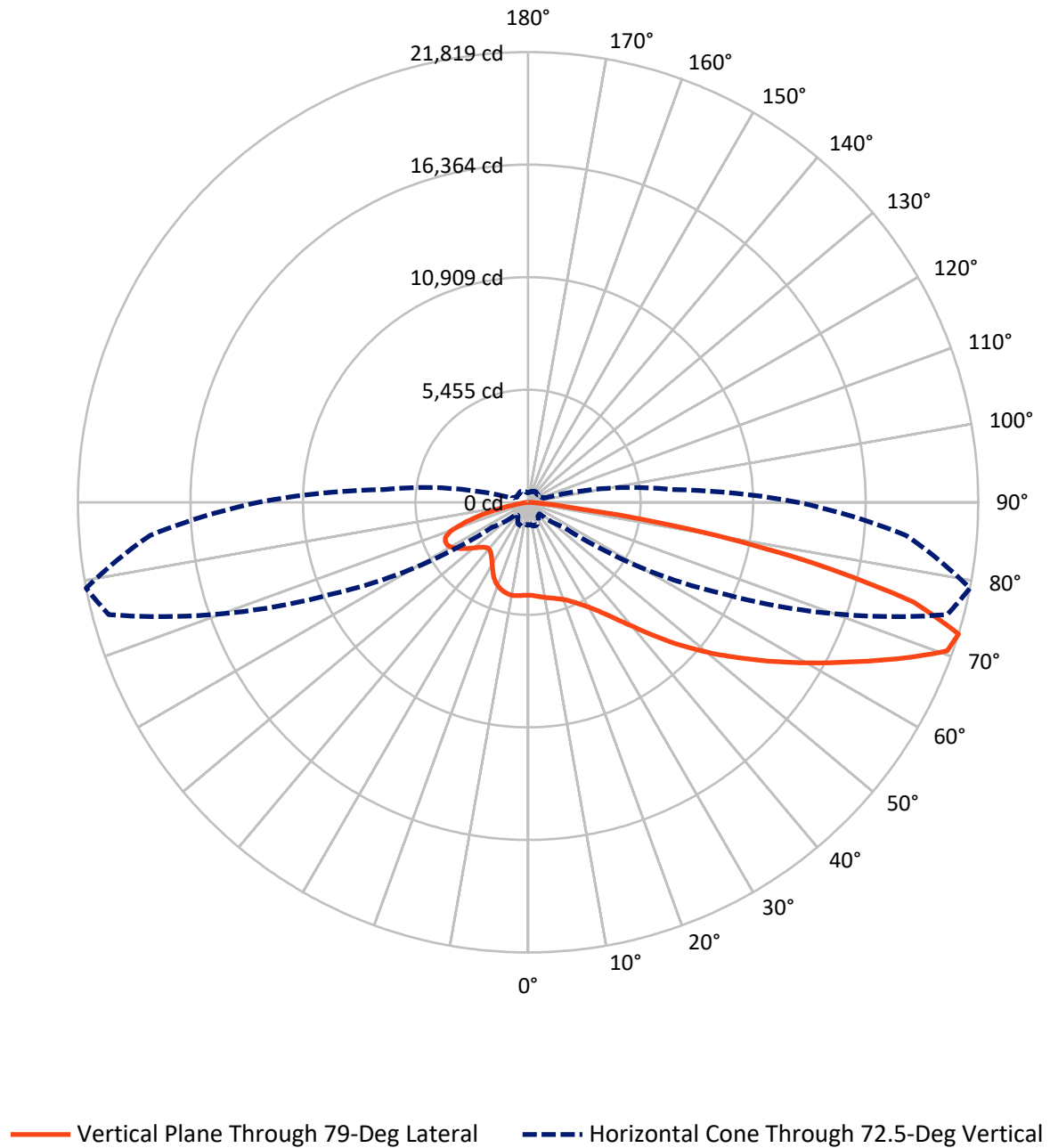
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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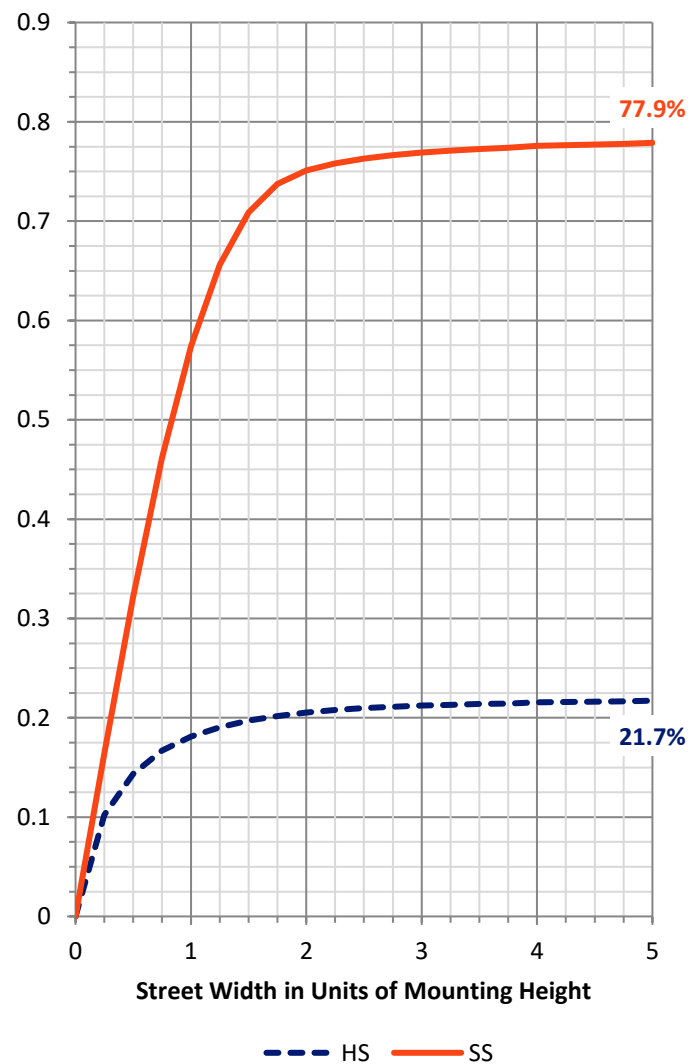
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4936.0	0.0	4936.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17494.9	0.0	17494.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	22431.0	0.0	22431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.8
10°-20°	1068.6	4.8
20°-30°	1724.3	7.7
30°-40°	2587.9	11.5
40°-50°	3671.1	16.4
50°-60°	4636.1	20.7
60°-70°	4708.6	21.0
70°-80°	3209.1	14.3
80°-90°	416.4	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°	22431.0	100.0
0°-180°	22431.0	100.0

Coefficient of Utilization



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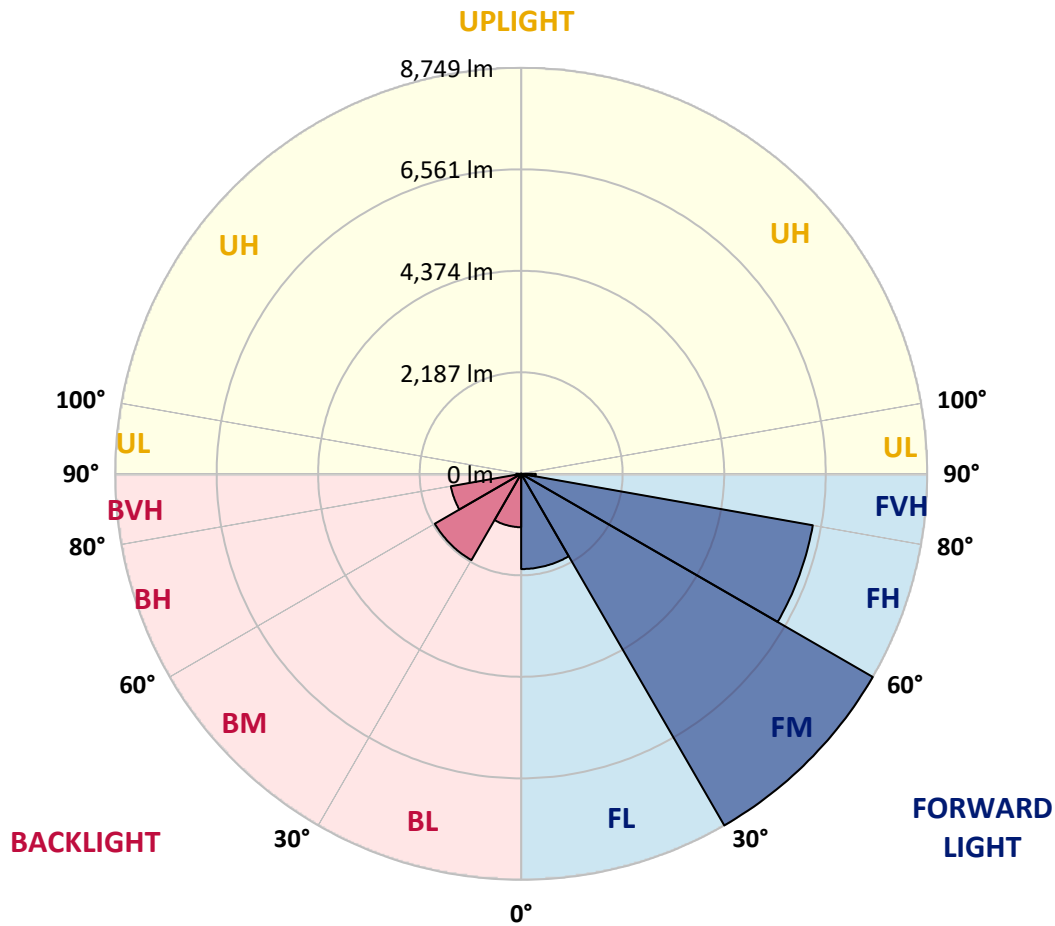
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2051.9	9.1			
FM	(30°-60°)	8748.5	39.0			
FH	(60°-80°)	6380.9	28.4			G3/7500
FVH	(80°-90°)	313.6	1.4			G3/500
BL	(0°-30°)	1149.7	5.1	B3/2500		
BM	(30°-60°)	2146.7	9.6	B2/2500		
BH	(60°-80°)	1536.9	6.9	B3/2500		G3/2500
BVH	(80°-90°)	102.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8
2.5°	4505.2	4483.8	4496.9	4492.1	4498.1	4505.2	4507.6	4511.1	4523.0	4521.8	4520.6
5°	4495.7	4474.3	4492.1	4486.2	4501.6	4518.2	4532.5	4545.5	4564.5	4572.8	4560.9
7.5°	4475.5	4461.3	4479.1	4496.9	4525.4	4550.3	4570.4	4600.1	4627.4	4632.1	4640.4
10°	4358.1	4347.4	4388.9	4435.2	4513.5	4581.1	4625.0	4659.4	4689.1	4693.8	4705.7
12.5°	4235.8	4222.8	4269.1	4332.0	4458.9	4581.1	4673.7	4718.8	4744.9	4760.3	4778.1
15°	4215.7	4205.0	4231.1	4285.7	4391.3	4549.1	4706.9	4789.9	4812.5	4830.3	4837.4
17.5°	4313.0	4292.8	4303.5	4322.5	4384.2	4519.4	4733.0	4870.6	4905.0	4924.0	4924.0
20°	4538.4	4509.9	4493.3	4455.3	4444.7	4524.2	4730.6	4967.9	5013.0	5036.7	5042.7
22.5°	4838.6	4819.6	4784.0	4687.9	4583.5	4582.3	4775.7	5092.5	5176.7	5199.3	5185.1
25°	5201.7	5173.2	5128.1	4997.6	4797.1	4697.4	4851.6	5251.5	5392.7	5398.6	5357.1
27.5°	5619.3	5576.6	5514.9	5342.9	5072.3	4877.7	4967.9	5434.2	5640.7	5638.3	5552.9
30°	6059.5	6016.8	5951.5	5742.7	5402.2	5121.0	5129.3	5631.2	5934.9	5921.9	5775.9
32.5°	6381.1	6349.0	6336.0	6174.6	5781.9	5408.1	5314.4	5849.5	6298.0	6286.1	6082.1
35°	6627.9	6586.3	6601.7	6519.9	6196.0	5729.7	5541.0	6109.3	6739.4	6738.2	6484.3
37.5°	6872.3	6835.5	6848.5	6794.0	6579.2	6137.8	5817.5	6427.3	7286.4	7312.5	6970.8
40°	7095.3	7056.2	7108.4	7057.4	6877.0	6572.1	6131.9	6786.8	7920.0	7969.8	7559.3
42.5°	7229.4	7198.6	7285.2	7286.4	7135.7	6938.7	6477.2	7183.1	8653.2	8764.8	8283.0
45°	7275.7	7265.0	7395.5	7422.8	7364.7	7151.1	6788.0	7615.0	9443.4	9642.8	9107.7
47.5°	7225.9	7205.7	7386.0	7486.9	7533.2	7250.8	7045.5	8082.5	10250.3	10542.2	10007.0
50°	6974.3	6935.2	7203.3	7415.7	7580.6	7316.0	7305.3	8622.4	11167.4	11486.6	10911.2
52.5°	6522.3	6492.6	6797.5	7166.5	7476.2	7348.1	7597.2	9212.1	12038.3	12451.2	11837.8
55°	5944.4	5905.3	6241.0	6722.8	7216.4	7337.4	7889.1	9871.8	13065.9	13484.7	12795.3
57.5°	5028.4	4950.1	5374.9	5944.4	6792.8	7324.3	8192.9	10527.9	14110.0	14611.9	13816.9
60°	3692.4	3576.1	4097.0	4772.1	5964.6	7197.4	8569.0	11263.6	15362.9	15815.0	14932.2
62.5°	2150.0	2082.3	2422.9	3052.9	4495.7	6449.9	8780.2	12119.0	16594.5	17069.2	16028.6
65°	1669.4	1650.4	1680.1	1728.7	2502.4	4829.1	8128.8	12953.1	18160.7	18493.0	17171.2
67.5°	1527.0	1512.8	1525.9	1434.5	1269.6	2689.8	6430.9	13164.3	19838.5	20040.2	18171.4
70°	1357.4	1340.8	1383.5	1305.2	999.0	1223.3	4155.2	12397.9	21173.3	21551.8	18932.0
72.5°	1105.8	1086.8	1186.5	1150.9	841.2	785.5	2087.1	10576.6	21033.3	21818.8	18387.4
75°	849.5	838.9	957.5	987.2	685.8	618.2	1001.4	7861.8	18509.6	19301.0	15847.0
77.5°	659.7	651.4	711.9	819.9	552.9	479.4	615.8	4986.9	13948.6	14087.4	10920.6
80°	494.8	471.0	526.8	634.8	430.7	350.0	417.7	2908.1	8817.0	7992.3	4753.2
82.5°	309.7	297.8	344.1	423.6	303.7	240.9	271.7	1606.5	3533.4	2081.1	917.2
85°	176.8	172.0	187.5	242.0	164.9	138.8	155.4	709.5	645.5	443.8	276.5
87.5°	71.2	68.8	85.4	108.0	60.5	51.0	54.6	170.9	142.4	131.7	91.4
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°	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8	4502.8
2.5°	4515.9	4515.9	4499.3	4473.1	4443.5	4424.5	4393.7	4385.3	4353.3	4343.8	4359.2
5°	4570.4	4560.9	4509.9	4436.4	4335.5	4243.0	4140.9	4076.9	3986.7	3954.6	3978.4
7.5°	4639.3	4613.2	4525.4	4364.0	4152.8	3945.1	3729.2	3565.5	3408.8	3353.1	3360.2
10°	4702.1	4665.4	4515.9	4233.5	3868.0	3508.5	3164.4	2923.6	2740.8	2666.1	2682.7
12.5°	4765.0	4697.4	4453.0	4016.3	3463.4	2975.8	2609.1	2421.7	2309.0	2218.8	2248.4
15°	4824.4	4729.4	4355.7	3725.6	3019.7	2524.9	2254.4	2104.9	2014.7	1955.4	1966.0
17.5°	4893.2	4756.7	4209.7	3356.6	2597.3	2212.8	1992.2	1902.0	1884.2	1877.1	1881.8
20°	4989.3	4781.6	4017.5	2943.7	2286.4	1963.7	1849.8	1841.5	1840.3	1836.7	1848.6
22.5°	5092.5	4811.3	3763.6	2568.8	2021.8	1808.2	1788.1	1771.5	1760.8	1759.6	1772.6
25°	5214.7	4820.8	3445.6	2261.5	1796.4	1734.7	1710.9	1686.0	1678.9	1678.9	1686.0
27.5°	5333.4	4788.8	3075.4	1994.5	1669.4	1667.0	1636.2	1627.9	1626.7	1630.3	1639.8
30°	5452.0	4728.2	2707.6	1747.7	1595.9	1595.9	1585.2	1591.1	1595.9	1607.7	1616.0
32.5°	5612.2	4664.2	2400.3	1565.0	1531.8	1519.9	1530.6	1542.5	1547.2	1562.6	1575.7
35°	5847.1	4619.1	2155.9	1465.3	1465.3	1449.9	1455.8	1453.5	1442.8	1435.7	1452.3
37.5°	6158.0	4616.7	1954.2	1419.1	1409.6	1407.2	1408.4	1393.0	1351.4	1301.6	1302.8
40°	6531.7	4680.8	1798.8	1387.0	1379.9	1394.2	1387.0	1345.5	1231.6	1145.0	1142.6
42.5°	7033.6	4863.5	1699.1	1347.9	1369.2	1387.0	1358.6	1215.0	1137.9	1079.7	1077.4
45°	7624.5	5160.1	1648.1	1306.3	1349.1	1370.4	1232.8	1169.9	1108.2	1038.2	1033.5
47.5°	8293.7	5533.9	1636.2	1267.2	1304.0	1317.0	1179.4	1150.9	1080.9	1005.0	999.0
50°	9022.2	5976.5	1668.2	1220.9	1238.7	1193.6	1161.6	1135.5	1063.1	988.4	980.1
52.5°	9775.7	6464.1	1732.3	1158.0	1173.5	1123.6	1154.5	1131.9	1052.4	951.6	944.5
55°	10516.0	6955.3	1794.0	1084.5	1107.0	1060.7	1134.3	1117.7	1003.8	889.9	884.0
57.5°	11268.3	7444.2	1854.5	1019.2	1042.9	1000.2	1102.3	1079.7	949.2	832.9	830.6
60°	12050.2	7918.8	1883.0	956.3	972.9	944.5	1053.6	1014.5	887.5	774.8	771.2
62.5°	12782.3	8313.9	1836.7	893.4	904.1	892.3	989.6	937.3	825.8	709.5	708.3
65°	13516.7	8548.8	1694.3	831.7	834.1	828.2	899.4	854.3	753.4	652.6	645.5
67.5°	14182.4	8680.5	1467.7	765.3	759.4	757.0	815.1	764.1	683.4	595.6	588.5
70°	14323.6	8345.9	1121.3	687.0	687.0	681.1	722.6	670.4	606.3	535.1	532.7
72.5°	13082.5	7020.6	796.1	598.0	607.5	595.6	630.0	586.1	528.0	480.5	466.3
75°	10549.3	5148.3	579.0	506.6	523.3	503.1	535.1	504.3	454.4	453.2	408.2
77.5°	7248.4	3183.4	420.0	417.7	429.5	403.4	440.2	423.6	378.5	358.3	335.8
80°	3093.2	1269.6	306.1	322.7	322.7	299.0	341.7	346.5	307.3	297.8	297.8
82.5°	615.8	360.7	214.8	221.9	208.8	201.7	242.0	268.2	370.2	411.7	412.9
85°	185.1	132.9	129.3	121.0	106.8	108.0	142.4	269.3	332.2	189.8	163.7
87.5°	51.0	33.2	34.4	27.3	22.5	29.7	48.6	204.1	111.5	47.5	40.3
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)