

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: P951997

Luminaire Tested: **GALN-SB6A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951997
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-SB6A-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25078 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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

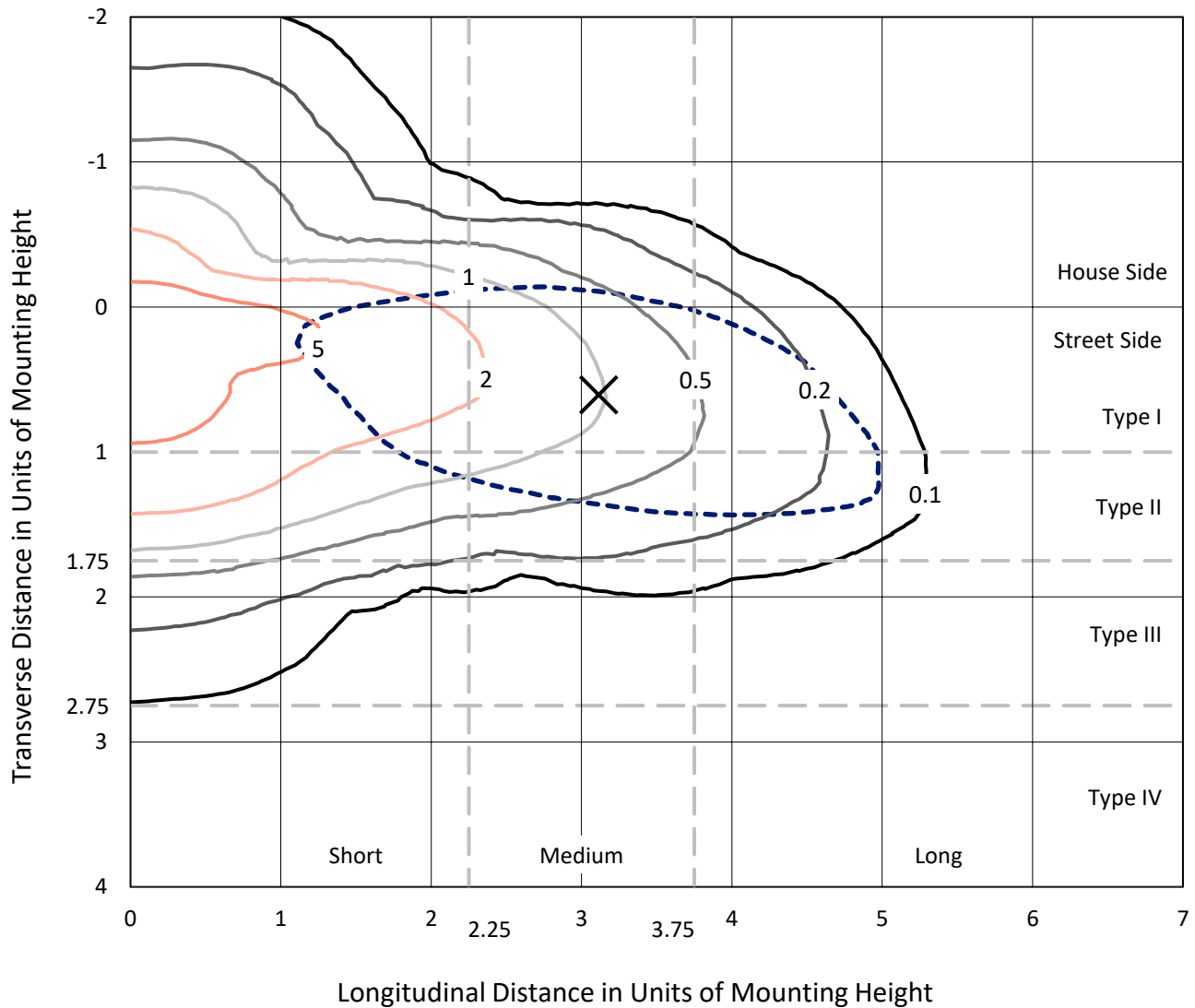


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Iso-Footcandle Lines of Horizontal Illumination

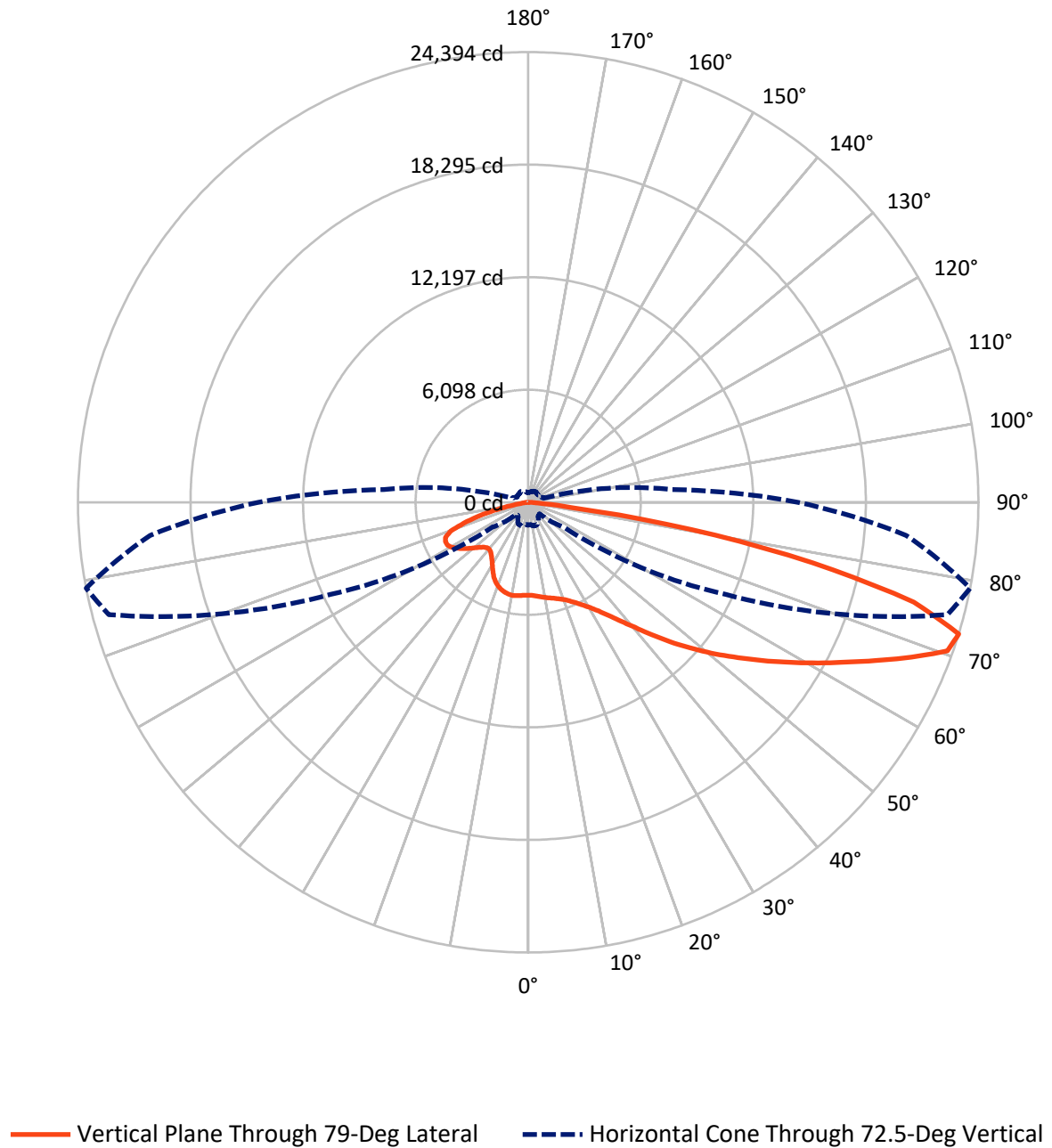
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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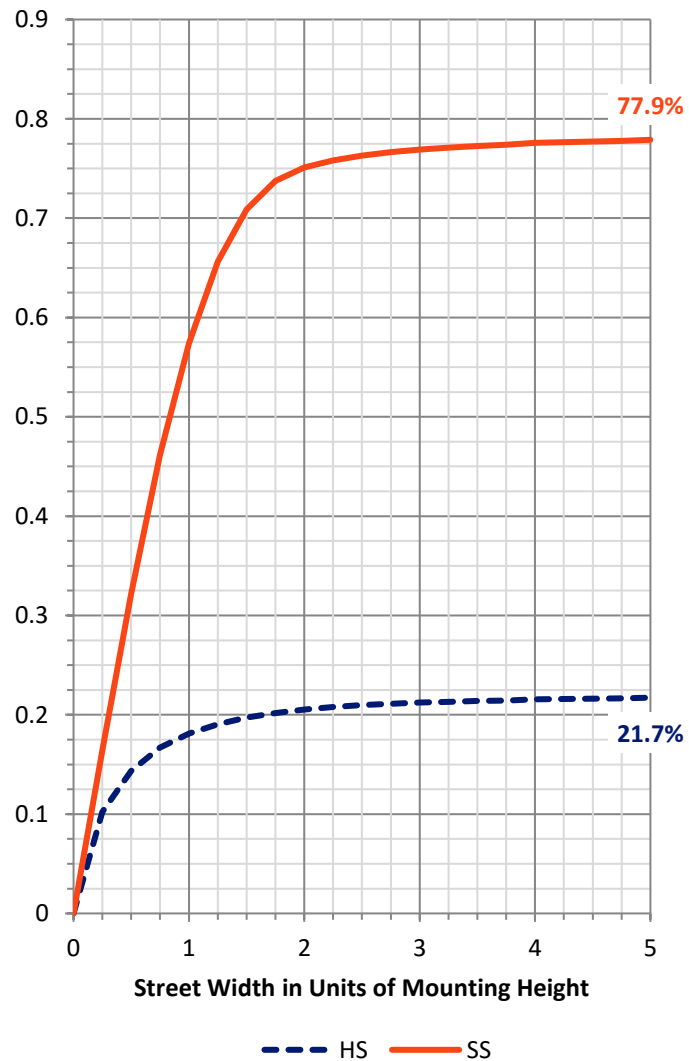
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5518.5	0.0	5518.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19559.5	0.0	19559.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	25078.0	0.0	25078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	1.8
10°-20°	1194.7	4.8
20°-30°	1927.8	7.7
30°-40°	2893.3	11.5
40°-50°	4104.3	16.4
50°-60°	5183.2	20.7
60°-70°	5264.3	21.0
70°-80°	3587.8	14.3
80°-90°	465.5	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°	25078.0	100.0
0°-180°	25078.0	100.0

Coefficient of Utilization



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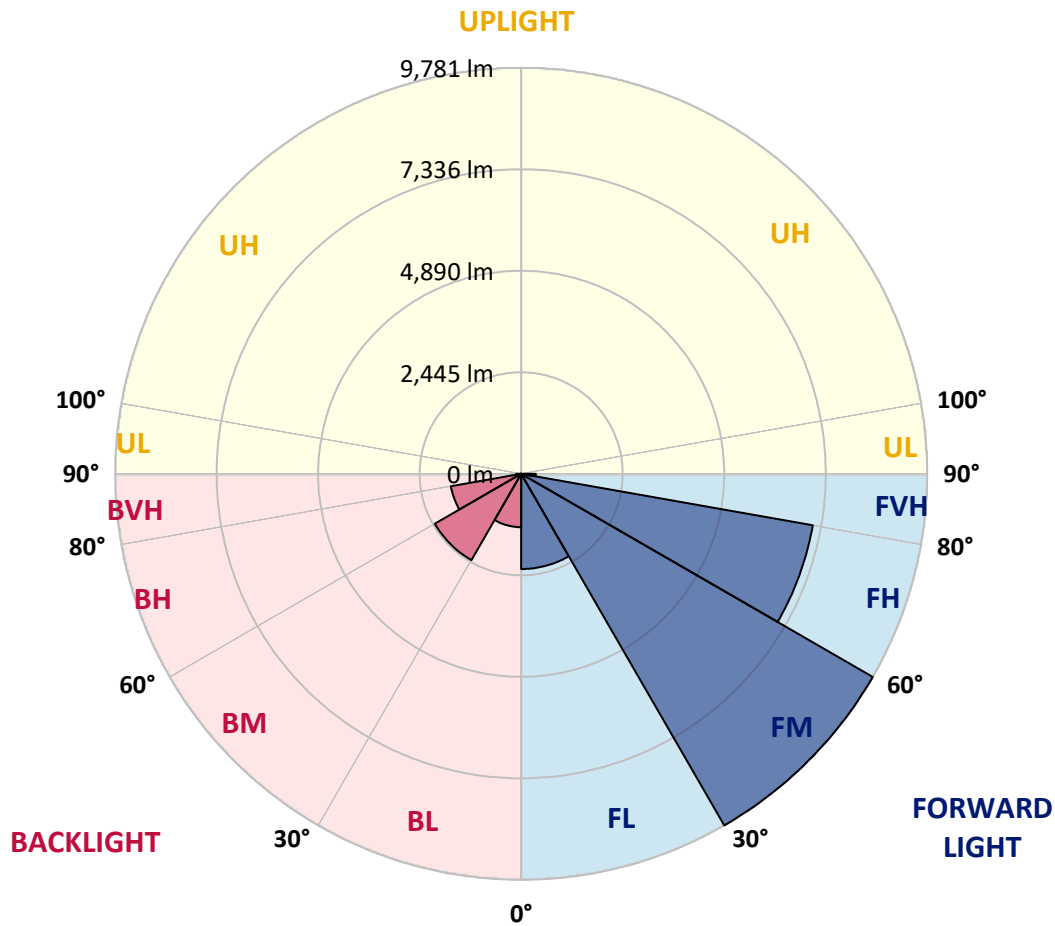
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2294.0	9.1			
FM	(30°-60°)	9780.9	39.0			
FH	(60°-80°)	7133.8	28.4			G3/7500
FVH	(80°-90°)	350.7	1.4			G3/500
BL	(0°-30°)	1285.4	5.1	B3/2500		
BM	(30°-60°)	2400.0	9.6	B2/2500		
BH	(60°-80°)	1718.3	6.9	B3/2500		G3/2500
BVH	(80°-90°)	114.8	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°	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2
2.5°	5036.8	5012.9	5027.5	5022.2	5028.9	5036.8	5039.5	5043.5	5056.7	5055.4	5054.1
5°	5026.2	5002.3	5022.2	5015.6	5032.8	5051.4	5067.3	5081.9	5103.1	5112.4	5099.2
7.5°	5003.7	4987.7	5007.6	5027.5	5059.4	5087.2	5109.8	5142.9	5173.5	5178.8	5188.0
10°	4872.3	4860.4	4906.8	4958.6	5046.1	5121.7	5170.8	5209.3	5242.4	5247.7	5261.0
12.5°	4735.7	4721.1	4772.8	4843.2	4985.1	5121.7	5225.2	5275.6	5304.8	5322.0	5341.9
15°	4713.2	4701.2	4730.4	4791.4	4909.5	5085.9	5262.3	5355.2	5380.4	5400.3	5408.3
17.5°	4821.9	4799.4	4811.3	4832.5	4901.5	5052.7	5291.5	5445.4	5483.9	5505.1	5505.1
20°	5074.0	5042.1	5023.6	4981.1	4969.2	5058.0	5288.9	5554.2	5604.6	5631.1	5637.7
22.5°	5409.6	5388.4	5348.6	5241.1	5124.4	5123.0	5339.3	5693.5	5787.6	5812.8	5796.9
25°	5815.5	5783.7	5733.2	5587.3	5363.1	5251.7	5424.2	5871.2	6029.1	6035.7	5989.3
27.5°	6282.4	6234.7	6165.7	5973.4	5670.9	5453.4	5554.2	6075.5	6306.3	6303.7	6208.1
30°	6774.6	6726.8	6653.9	6420.4	6039.7	5725.3	5734.6	6295.7	6635.3	6620.7	6457.5
32.5°	7134.1	7098.2	7083.7	6903.2	6464.2	6046.3	5941.5	6539.8	7041.2	7027.9	6799.8
35°	7410.0	7363.6	7380.8	7289.3	6927.1	6405.8	6194.9	6830.3	7534.7	7533.3	7249.5
37.5°	7683.2	7642.1	7656.7	7595.7	7355.6	6862.1	6504.0	7185.8	8146.2	8175.4	7793.3
40°	7932.6	7888.9	7947.2	7890.2	7688.6	7347.6	6855.5	7587.7	8854.6	8910.3	8451.3
42.5°	8082.5	8048.0	8144.9	8146.2	7977.7	7757.5	7241.5	8030.8	9674.4	9799.1	9260.5
45°	8134.3	8122.3	8268.2	8298.8	8233.8	7995.0	7589.1	8513.7	10557.8	10780.7	10182.4
47.5°	8078.5	8056.0	8257.6	8370.4	8422.1	8106.4	7876.9	9036.3	11459.9	11786.2	11187.9
50°	7797.3	7753.6	8053.3	8290.8	8475.2	8179.4	8167.4	9639.9	12485.3	12842.1	12198.7
52.5°	7291.9	7258.8	7599.7	8012.2	8358.4	8215.2	8493.8	10299.2	13458.9	13920.6	13234.8
55°	6645.9	6602.1	6977.5	7516.1	8067.9	8203.2	8820.1	11036.7	14607.7	15076.0	14305.3
57.5°	5621.8	5534.3	6009.2	6645.9	7594.4	8188.7	9159.7	11770.3	15775.1	16336.2	15447.4
60°	4128.2	3998.2	4580.5	5335.3	6668.5	8046.7	9580.2	12592.7	17175.9	17681.3	16694.3
62.5°	2403.7	2328.1	2708.8	3413.2	5026.2	7211.0	9816.3	13549.1	18552.8	19083.4	17920.1
65°	1866.4	1845.2	1878.4	1932.7	2797.6	5399.0	9088.0	14481.7	20303.8	20675.3	19197.5
67.5°	1707.2	1691.3	1705.9	1603.8	1419.4	3007.2	7189.8	14717.8	22179.5	22405.0	20315.8
70°	1517.5	1499.0	1546.7	1459.2	1116.9	1367.6	4645.5	13860.9	23671.9	24095.0	21166.1
72.5°	1236.3	1215.1	1326.5	1286.7	940.5	878.2	2333.4	11824.7	23515.3	24393.5	20557.2
75°	949.8	937.9	1070.5	1103.7	766.7	691.1	1119.6	8789.6	20693.8	21578.6	17717.1
77.5°	737.5	728.3	795.9	916.6	618.2	535.9	688.5	5575.4	15594.7	15749.9	12209.4
80°	553.2	526.6	589.0	709.7	481.5	391.3	466.9	3251.3	9857.4	8935.5	5314.1
82.5°	346.2	333.0	384.7	473.6	339.6	269.3	303.8	1796.1	3950.4	2326.7	1025.4
85°	197.7	192.3	209.6	270.6	184.4	155.2	173.8	793.3	721.6	496.1	309.1
87.5°	79.6	76.9	95.5	120.7	67.7	57.0	61.0	191.0	159.2	147.2	102.1
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°	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2	5034.2
2.5°	5048.8	5048.8	5030.2	5001.0	4967.8	4946.6	4912.1	4902.8	4867.0	4856.4	4873.7
5°	5109.8	5099.2	5042.1	4959.9	4847.1	4743.7	4629.6	4557.9	4457.1	4421.3	4447.8
7.5°	5186.7	5157.5	5059.4	4879.0	4642.8	4410.7	4169.3	3986.2	3811.1	3748.8	3756.7
10°	5257.0	5215.9	5048.8	4733.0	4324.5	3922.5	3537.8	3268.6	3064.3	2980.7	2999.3
12.5°	5327.3	5251.7	4978.5	4490.3	3872.1	3326.9	2917.0	2707.4	2581.4	2480.6	2513.8
15°	5393.7	5287.5	4869.7	4165.3	3376.0	2822.8	2520.4	2353.3	2252.4	2186.1	2198.1
17.5°	5470.6	5318.0	4706.5	3752.7	2903.8	2474.0	2227.2	2126.4	2106.5	2098.6	2103.9
20°	5578.0	5345.9	4491.6	3291.1	2556.2	2195.4	2068.1	2058.8	2057.4	2053.5	2066.7
22.5°	5693.5	5379.1	4207.7	2871.9	2260.4	2021.6	1999.1	1980.5	1968.6	1967.2	1981.8
25°	5830.1	5389.7	3852.2	2528.4	2008.4	1939.4	1912.9	1885.0	1877.0	1877.0	1885.0
27.5°	5962.7	5353.9	3438.4	2229.9	1866.4	1863.8	1829.3	1820.0	1818.7	1822.6	1833.3
30°	6095.4	5286.2	3027.1	1954.0	1784.2	1784.2	1772.2	1778.9	1784.2	1797.4	1806.7
32.5°	6274.5	5214.6	2683.6	1749.7	1712.5	1699.3	1711.2	1724.5	1729.8	1747.0	1761.6
35°	6537.1	5164.2	2410.3	1638.3	1638.3	1621.0	1627.6	1625.0	1613.1	1605.1	1623.7
37.5°	6884.7	5161.5	2184.8	1586.5	1575.9	1573.3	1574.6	1557.3	1510.9	1455.2	1456.5
40°	7302.5	5233.1	2011.0	1550.7	1542.8	1558.7	1550.7	1504.3	1376.9	1280.1	1277.4
42.5°	7863.7	5437.4	1899.6	1506.9	1530.8	1550.7	1518.9	1358.4	1272.1	1207.1	1204.5
45°	8524.3	5769.1	1842.5	1460.5	1508.3	1532.1	1378.3	1308.0	1239.0	1160.7	1155.4
47.5°	9272.4	6186.9	1829.3	1416.7	1457.9	1472.4	1318.6	1286.7	1208.5	1123.6	1116.9
50°	10086.9	6681.7	1865.1	1365.0	1384.9	1334.5	1298.7	1269.5	1188.6	1105.0	1095.7
52.5°	10929.3	7226.9	1936.7	1294.7	1311.9	1256.2	1290.7	1265.5	1176.6	1063.9	1055.9
55°	11757.0	7776.1	2005.7	1212.4	1237.6	1185.9	1268.2	1249.6	1122.2	994.9	988.3
57.5°	12598.0	8322.6	2073.4	1139.5	1166.0	1118.3	1232.3	1207.1	1061.2	931.2	928.6
60°	13472.2	8853.2	2105.2	1069.2	1087.8	1055.9	1178.0	1134.2	992.2	866.2	862.2
62.5°	14290.7	9295.0	2053.5	998.9	1010.8	997.5	1106.3	1048.0	923.3	793.3	791.9
65°	15111.8	9557.6	1894.3	929.9	932.5	925.9	1005.5	955.1	842.3	729.6	721.6
67.5°	15856.0	9704.9	1640.9	855.6	849.0	846.3	911.3	854.3	764.1	665.9	658.0
70°	16013.8	9330.8	1253.6	768.1	768.1	761.4	807.9	749.5	677.9	598.3	595.6
72.5°	14626.3	7849.1	890.1	668.6	679.2	665.9	704.4	655.3	590.3	537.2	521.3
75°	11794.2	5755.8	647.3	566.4	585.0	562.4	598.3	563.8	508.1	506.7	456.3
77.5°	8103.8	3559.1	469.6	466.9	480.2	451.0	492.1	473.6	423.2	400.6	375.4
80°	3458.3	1419.4	342.2	360.8	360.8	334.3	382.0	387.3	343.6	333.0	333.0
82.5°	688.5	403.3	240.1	248.1	233.5	225.5	270.6	299.8	413.9	460.3	461.6
85°	206.9	148.6	144.6	135.3	119.4	120.7	159.2	301.1	371.4	212.2	183.1
87.5°	57.0	37.1	38.5	30.5	25.2	33.2	54.4	228.2	124.7	53.1	45.1
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)