

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: P941772

Luminaire Tested: **GALN-SB5C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30978 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 249.5
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

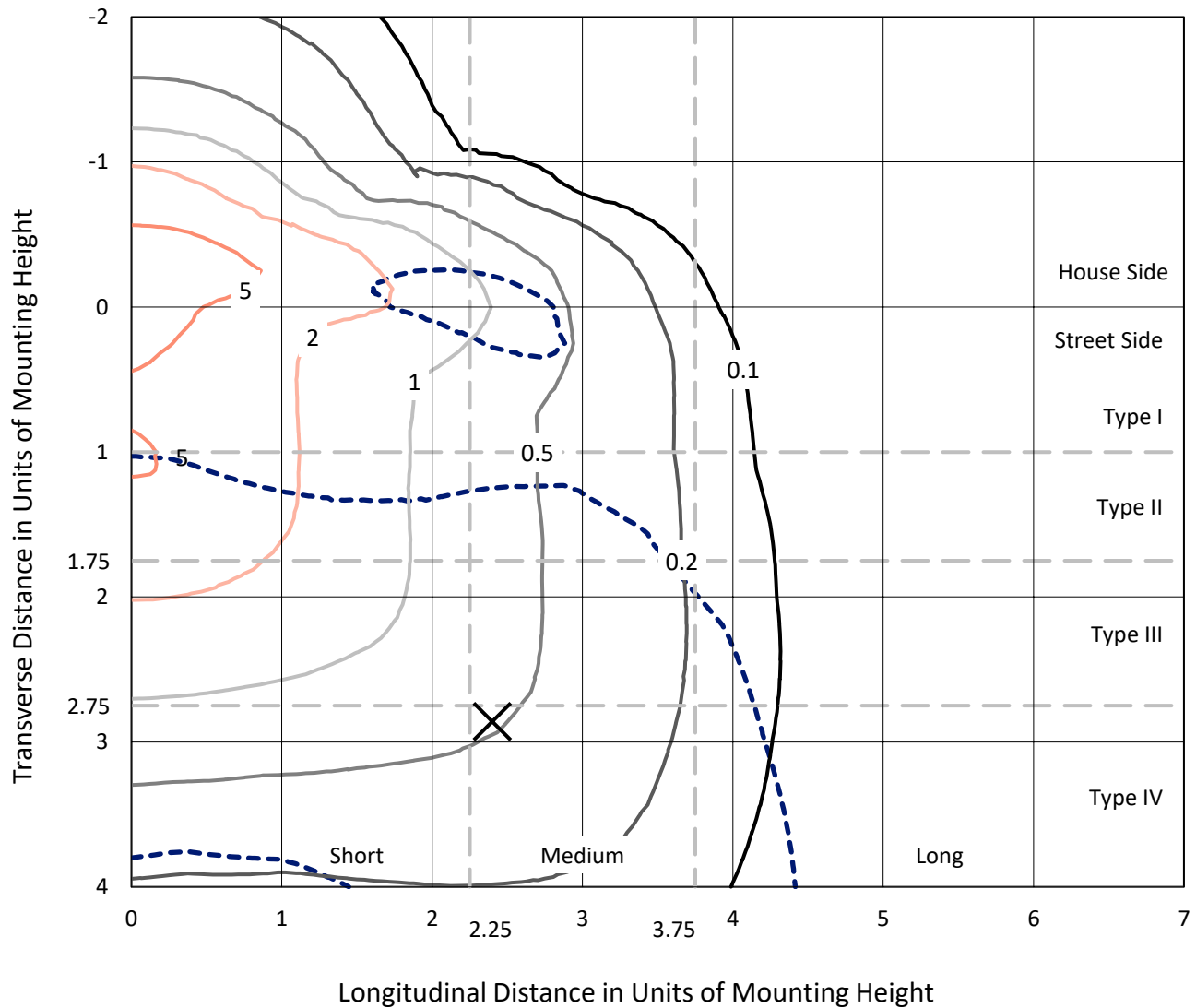


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

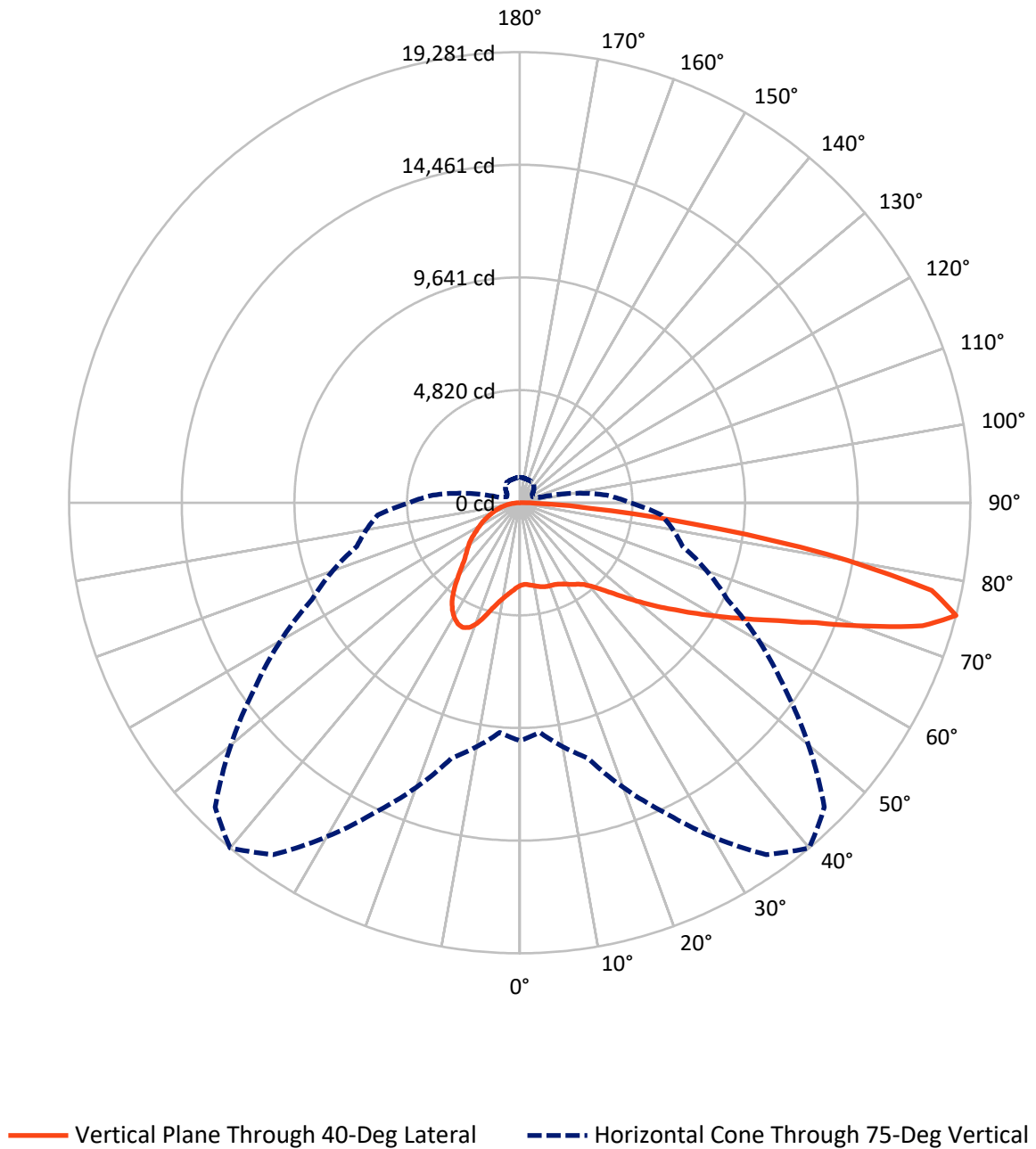


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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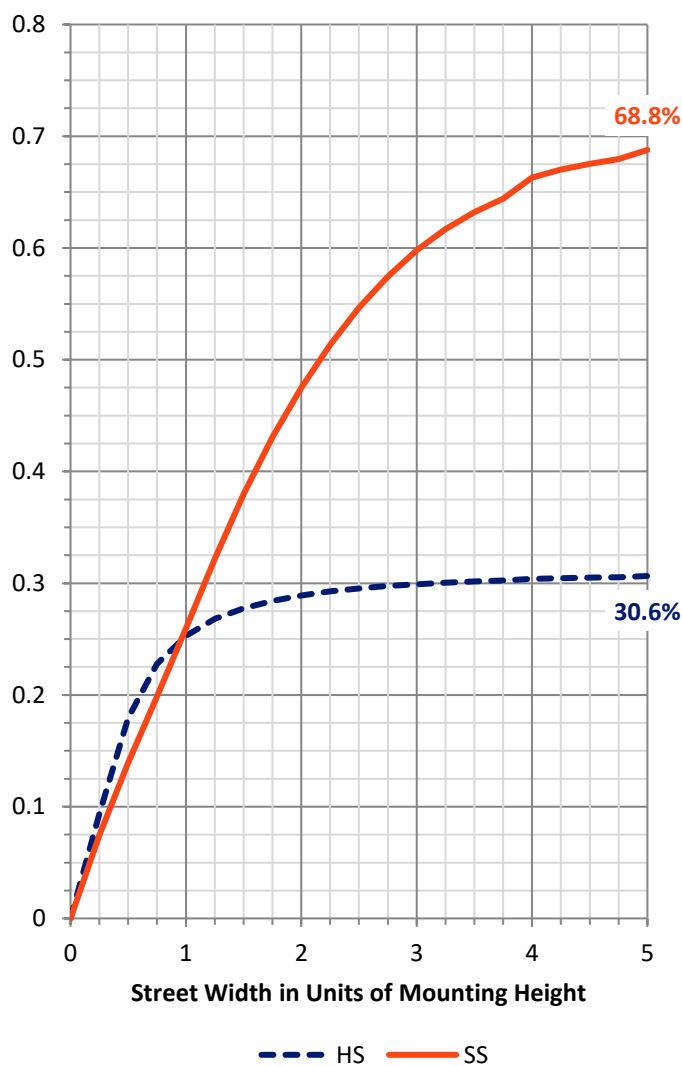
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9598.0	0.0	9598.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21380.0	0.0	21380.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	30978.0	0.0	30978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	1.1
10°-20°	1187.2	3.8
20°-30°	2167.7	7.0
30°-40°	3074.4	9.9
40°-50°	4151.4	13.4
50°-60°	5584.7	18.0
60°-70°	7088.3	22.9
70°-80°	6433.0	20.8
80°-90°	937.7	3.0
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°	30978.0	100.0
0°-180°	30978.0	100.0

Coefficient of Utilization



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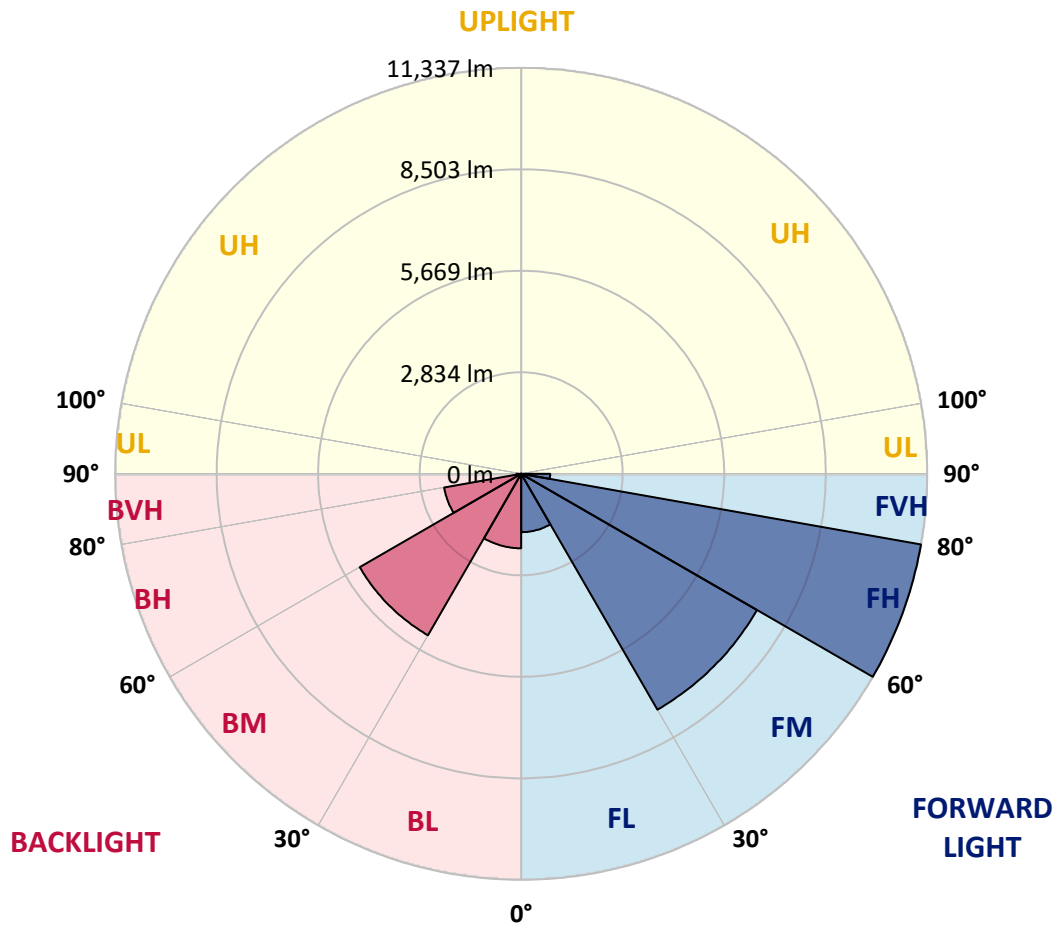
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1629.5	5.3			
FM	(30°-60°)	7604.4	24.5			
FH	(60°-80°)	11337.5	36.6			G4/12000
FVH	(80°-90°)	808.6	2.6			G5
BL	(0°-30°)	2079.0	6.7	B3/2500		
BM	(30°-60°)	5206.1	16.8	B4/8500		
BH	(60°-80°)	2183.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	129.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4
2.5°	3488.2	3507.9	3502.9	3496.4	3496.4	3498.0	3496.4	3507.9	3519.4	3530.9	3548.9
5°	3524.3	3544.0	3534.2	3525.9	3519.4	3517.7	3512.8	3511.2	3517.7	3532.5	3557.2
7.5°	3595.0	3614.7	3599.9	3585.1	3572.0	3565.4	3558.8	3548.9	3544.0	3552.2	3586.7
10°	3673.8	3693.5	3675.5	3649.2	3627.8	3619.6	3613.0	3603.2	3596.6	3601.5	3639.3
12.5°	3752.7	3772.4	3747.8	3711.6	3683.7	3678.7	3670.5	3667.2	3665.6	3664.0	3701.7
15°	3826.6	3843.1	3811.8	3769.1	3739.5	3731.3	3723.1	3728.0	3736.3	3746.1	3788.8
17.5°	3884.1	3900.6	3854.6	3798.7	3770.8	3767.5	3762.5	3779.0	3802.0	3826.6	3879.2
20°	3936.7	3953.1	3894.0	3818.4	3785.5	3785.5	3787.2	3821.7	3854.6	3890.7	3963.0
22.5°	4010.6	4023.8	3951.5	3848.0	3800.3	3803.6	3816.8	3851.3	3892.3	3941.6	4041.9
25°	4120.7	4130.6	4041.9	3903.8	3849.6	3859.5	3871.0	3887.4	3926.8	3984.4	4119.1
27.5°	4298.2	4306.4	4189.7	4002.4	3920.3	3936.7	3953.1	3941.6	3959.7	4009.0	4181.5
30°	4547.9	4552.8	4405.0	4156.9	4040.2	4048.4	4051.7	4004.1	3969.6	4009.0	4225.9
32.5°	4843.7	4842.0	4666.2	4344.2	4176.6	4168.4	4140.4	4046.8	3966.3	4000.8	4265.3
35°	5302.1	5284.0	5057.3	4607.1	4331.0	4280.1	4214.4	4094.4	3982.7	3992.6	4299.8
37.5°	6061.1	6005.3	5691.5	5037.5	4561.1	4431.3	4334.3	4171.7	4018.9	3989.3	4340.9
40°	6917.2	6846.5	6501.5	5627.4	4906.1	4697.4	4541.3	4281.7	4078.0	4004.1	4401.7
42.5°	7932.6	7832.3	7461.0	6322.4	5343.1	5040.8	4805.9	4421.4	4165.1	4051.7	4483.8
45°	9179.6	9046.5	8520.8	7106.1	5893.6	5491.0	5177.2	4633.3	4298.2	4143.7	4607.1
47.5°	10439.8	10472.7	9725.1	8003.2	6554.1	6046.4	5642.2	4952.1	4492.0	4291.6	4805.9
50°	11778.9	11801.9	10922.9	8997.2	7303.3	6674.0	6164.7	5308.6	4761.5	4501.9	5103.3
52.5°	12823.9	12827.1	12010.6	10037.3	8083.7	7364.1	6728.2	5716.1	5073.7	4781.2	5499.2
55°	13477.8	13469.6	12772.9	11021.5	8980.8	8088.6	7352.6	6179.4	5454.9	5109.8	5997.1
57.5°	13952.6	13928.0	13298.7	11867.6	9937.1	8944.7	8059.1	6705.2	5905.1	5500.9	6652.6
60°	14133.4	14118.6	13655.2	12598.8	10942.6	9891.0	8874.0	7293.4	6416.0	5962.6	7495.5
62.5°	14202.4	14230.3	14005.2	13306.9	12018.8	10939.3	9769.5	7996.6	6991.1	6485.0	8384.4
65°	14445.5	14496.5	14450.5	14233.6	13234.6	12166.6	10957.4	8832.9	7618.7	7045.3	9312.7
67.5°	14926.9	14977.9	14997.6	15342.6	14719.9	13696.3	12439.4	9874.6	8353.2	7627.0	10011.0
70°	14915.4	14900.7	15249.0	16224.9	16579.8	15814.2	14437.3	11156.2	9228.9	8110.0	10099.7
72.5°	13576.4	13458.1	14281.2	16215.1	18127.6	18025.7	16877.2	12809.1	9984.7	8169.2	8763.9
75°	10185.2	9869.7	11323.8	14613.1	18385.5	19281.0	18428.2	13834.3	9805.6	7217.8	6098.9
77.5°	4355.7	4038.6	5752.3	10817.7	16455.0	18024.1	17005.4	12069.7	7827.4	4773.0	2995.2
80°	1140.3	1138.6	1738.3	4904.4	11190.7	13310.2	11677.0	7794.5	4472.3	1705.5	826.4
82.5°	471.5	460.0	639.1	1907.6	5468.0	7469.2	6095.6	3476.7	1615.1	461.7	274.4
85°	175.8	174.2	310.5	658.9	1928.9	3080.7	2229.6	888.9	402.5	225.1	123.2
87.5°	49.3	47.6	67.4	228.4	469.9	713.1	381.2	146.2	113.4	88.7	36.1
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°	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4	3542.4
2.5°	3553.9	3562.1	3576.9	3588.4	3603.2	3619.6	3642.6	3657.4	3672.2	3682.0	3675.5
5°	3568.7	3586.7	3624.5	3662.3	3706.7	3747.8	3795.4	3829.9	3857.8	3866.1	3869.3
7.5°	3601.5	3631.1	3695.2	3759.3	3829.9	3897.3	3966.3	4025.4	4073.1	4091.1	4092.8
10°	3659.0	3698.5	3788.8	3879.2	3972.8	4076.4	4165.1	4250.5	4317.9	4345.8	4347.5
12.5°	3731.3	3780.6	3898.9	4023.8	4153.6	4296.5	4411.5	4516.7	4600.5	4638.3	4638.3
15°	3825.0	3889.1	4040.2	4207.8	4398.4	4597.2	4743.4	4860.1	4953.7	4999.7	4996.5
17.5°	3926.8	4012.3	4202.9	4455.9	4728.6	4989.9	5160.8	5246.2	5343.1	5387.5	5385.9
20°	4025.4	4130.6	4403.3	4771.4	5134.5	5412.1	5550.2	5573.2	5579.7	5584.7	5597.8
22.5°	4127.3	4268.6	4654.7	5169.0	5558.4	5750.6	5770.3	5671.7	5533.7	5469.7	5487.7
25°	4239.0	4426.3	4983.3	5607.7	5923.1	5946.1	5795.0	5555.1	5293.8	5173.9	5192.0
27.5°	4347.5	4608.7	5377.6	6026.6	6186.0	5983.9	5658.6	5318.5	5003.0	4876.5	4891.3
30°	4455.9	4817.4	5813.0	6393.0	6306.0	5890.3	5443.4	5063.8	4746.7	4613.6	4628.4
32.5°	4566.0	5060.5	6314.2	6657.6	6284.6	5691.5	5175.5	4777.9	4498.6	4359.0	4377.0
35°	4690.9	5359.6	6789.0	6802.1	6141.7	5399.0	4822.3	4436.2	4193.0	4081.3	4105.9
37.5°	4853.5	5739.1	7208.0	6838.3	5891.9	4970.2	4383.6	4032.0	3831.5	3780.6	3816.8
40°	5055.6	6195.9	7528.4	6780.8	5522.2	4449.3	3903.8	3622.9	3509.5	3521.0	3560.4
42.5°	5318.5	6706.9	7753.5	6632.9	5008.0	3912.1	3483.2	3358.4	3412.6	3458.6	3501.3
45°	5660.2	7237.6	7893.1	6381.5	4426.3	3456.9	3235.1	3264.7	3305.8	3310.7	3343.6
47.5°	6097.3	7774.8	7985.1	6002.0	3833.2	3136.5	3077.4	3084.0	3075.8	3041.3	3067.5
50°	6642.8	8297.3	8067.3	5499.2	3328.8	2936.1	2857.2	2834.2	2720.9	2609.1	2623.9
52.5°	7263.8	8777.1	8101.8	4874.9	2936.1	2768.5	2640.4	2495.8	2283.8	2249.3	2260.8
55°	7953.9	9220.7	8013.1	4107.6	2605.8	2553.3	2359.4	2185.2	2162.2	2132.7	2137.6
57.5°	8778.7	9698.8	7832.3	3251.6	2267.4	2301.9	2112.9	2132.7	2091.6	2045.6	2037.4
60°	9680.7	10193.4	7515.2	2471.1	1917.4	1988.1	2048.9	2047.2	2035.7	1997.9	1984.8
62.5°	10492.4	10518.7	6890.9	1892.8	1610.2	1744.9	1910.8	1909.2	1899.3	1878.0	1869.8
65°	10975.4	10469.4	5849.2	1490.2	1357.1	1544.4	1723.5	1736.7	1738.3	1736.7	1736.7
67.5°	10890.0	9892.7	4419.8	1186.3	1148.5	1340.7	1537.9	1556.0	1569.1	1572.4	1575.7
70°	9923.9	8625.9	2881.9	946.4	962.8	1161.6	1362.1	1380.1	1391.6	1404.8	1411.4
72.5°	7735.4	6342.1	1649.6	765.7	800.2	1007.2	1187.9	1209.3	1215.8	1240.5	1250.3
75°	4713.9	3729.7	890.5	603.0	657.2	860.9	1015.4	1040.0	1051.5	1081.1	1084.4
77.5°	2241.1	1615.1	507.7	469.9	529.1	703.2	857.7	885.6	854.4	870.8	857.7
80°	757.4	599.7	320.4	358.2	404.2	548.8	686.8	714.7	649.0	645.7	639.1
82.5°	264.5	243.2	203.7	238.2	261.2	392.7	519.2	555.3	483.1	481.4	458.4
85°	103.5	98.6	113.4	129.8	156.1	241.5	341.8	359.8	297.4	239.9	236.6
87.5°	21.4	23.0	27.9	29.6	47.6	83.8	123.2	151.2	119.9	101.9	93.7
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)