

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: P957339

Luminaire Tested: **GALN-SB9D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957339
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-SB9D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77988 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

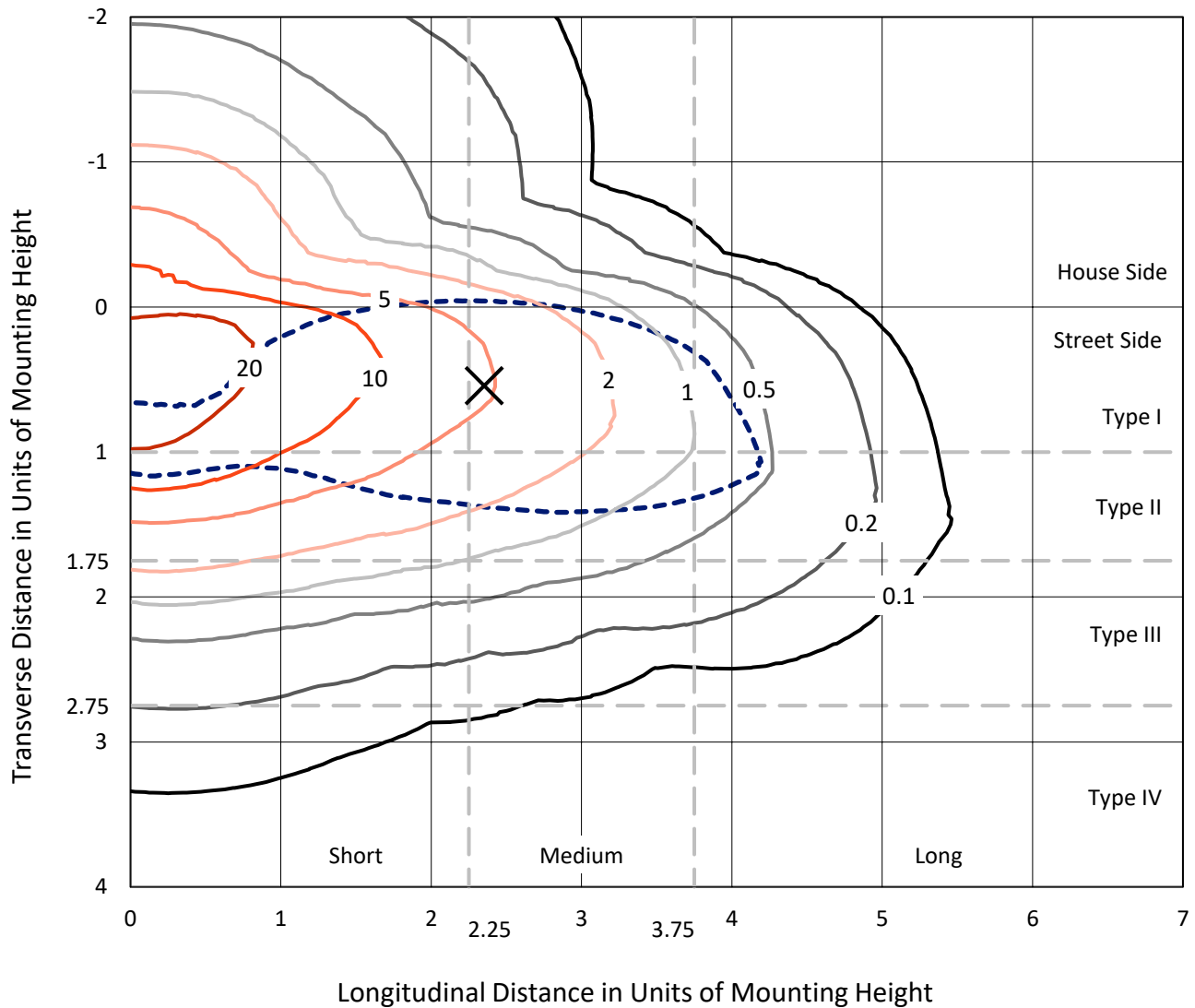


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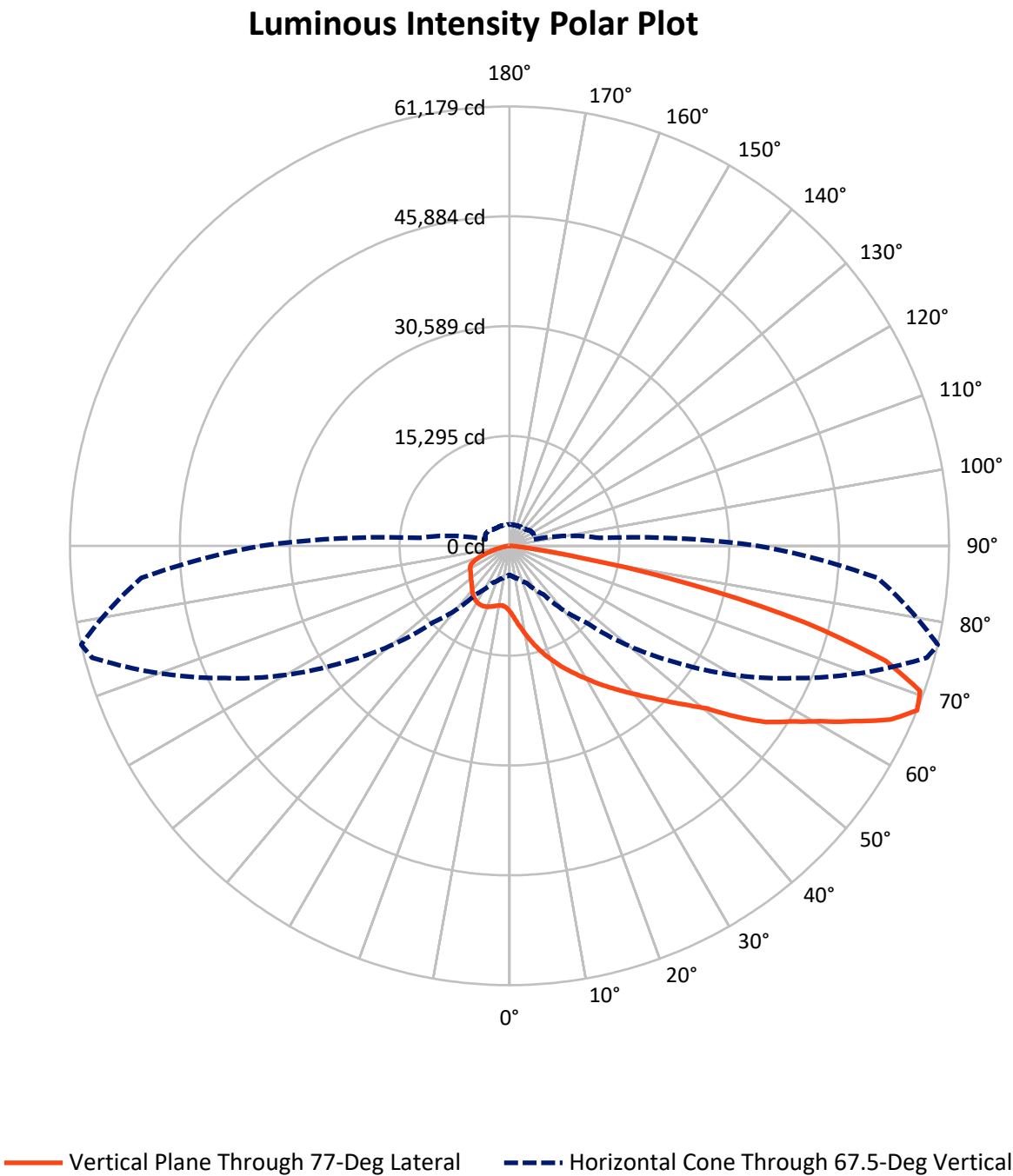
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
Type II - Medium - N/A

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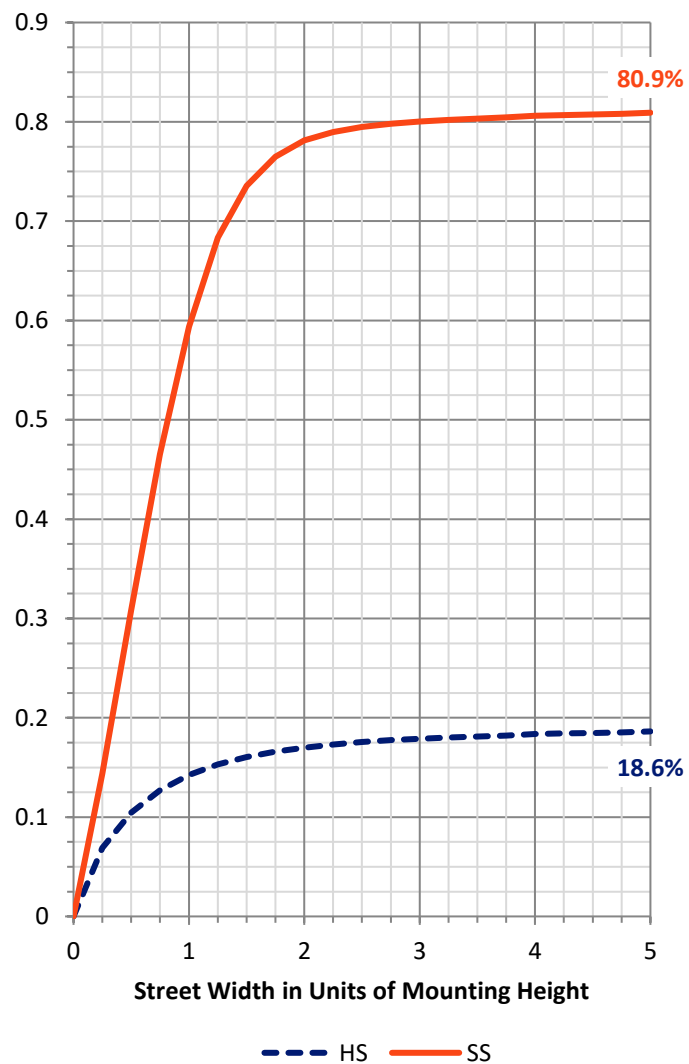
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14752.2	0.0	14752.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	63235.8	0.0	63235.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	77988.0	0.0	77988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.8	1.3
10°-20°	3523.6	4.5
20°-30°	6652.9	8.5
30°-40°	10717.8	13.7
40°-50°	14660.0	18.8
50°-60°	16536.6	21.2
60°-70°	15434.8	19.8
70°-80°	8460.9	10.8
80°-90°	1020.6	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°	77988.0	100.0
0°-180°	77988.0	100.0

Coefficient of Utilization



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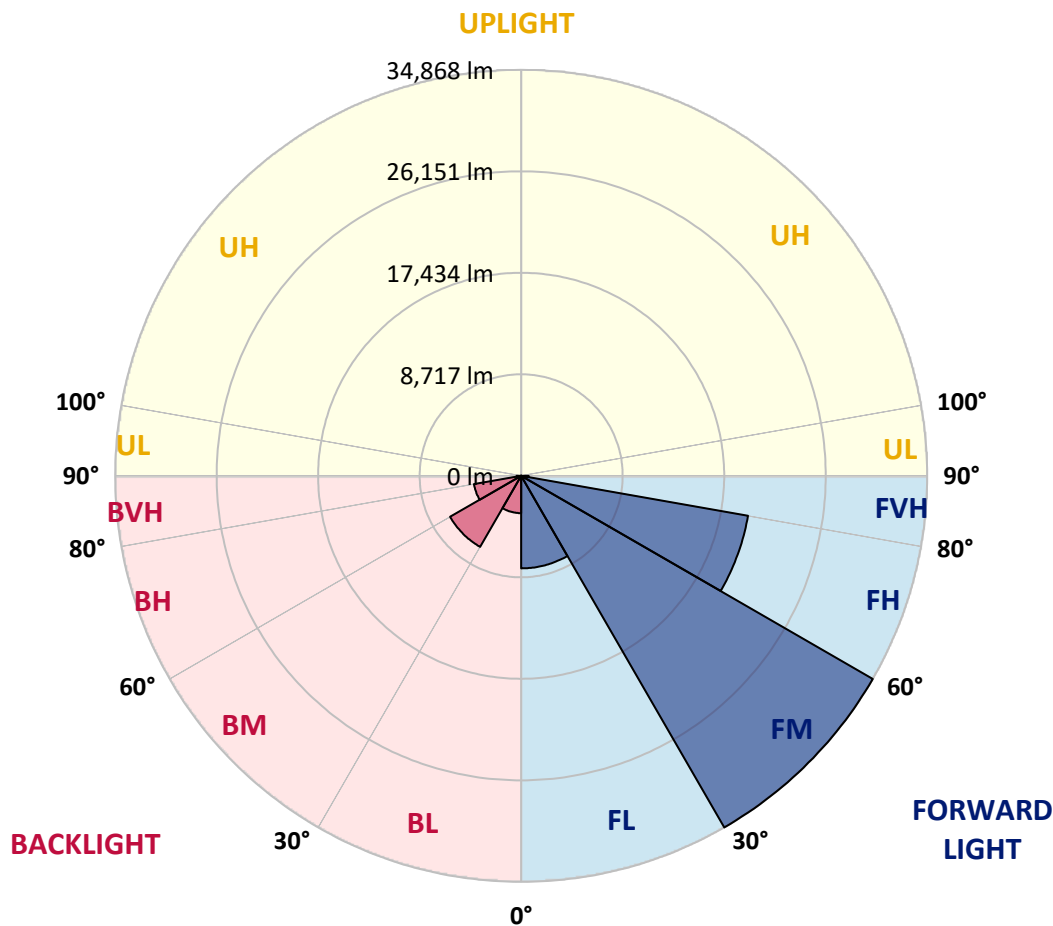
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7949.9	10.2			
FM	(30°-60°)	34867.6	44.7			
FH	(60°-80°)	19780.1	25.4			G5
FVH	(80°-90°)	638.2	0.8			G4/750
BL	(0°-30°)	3207.5	4.1	B4/5000		
BM	(30°-60°)	7046.8	9.0	B4/8500		
BH	(60°-80°)	4115.6	5.3	B4/5000		G4/5000
BVH	(80°-90°)	382.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4
2.5°	11457.1	11537.7	11437.0	11437.0	11098.9	10921.7	10583.6	10325.9	9863.0	9782.5	9476.5
5°	13542.5	13643.1	13502.2	13441.8	13043.3	12676.9	12109.3	11549.7	10724.5	10639.9	9919.3
7.5°	15156.8	15285.6	15160.8	15096.4	14742.1	14331.5	13667.3	12886.3	11722.8	11557.8	10515.1
10°	16473.2	16493.3	16453.0	16477.2	16199.4	15861.3	15180.9	14271.1	12817.8	12592.4	11235.7
12.5°	17217.9	17310.5	17391.0	17535.9	17487.6	17278.3	16666.4	15579.5	13977.2	13687.4	12020.7
15°	17568.2	17729.2	17910.3	18244.5	18514.2	18566.5	18099.5	16984.4	15156.8	14806.5	12813.8
17.5°	17692.9	17845.9	18131.8	18614.8	19194.5	19585.0	19375.7	18349.1	16324.2	15921.6	13647.1
20°	18325.0	18369.3	18542.4	19001.3	19629.3	20277.4	20434.5	19661.5	17479.6	17024.7	14508.6
22.5°	19677.6	19589.1	19637.4	19846.7	20297.6	20925.6	21283.9	20820.9	18667.2	18143.8	15378.2
25°	21911.9	21654.2	21396.6	21155.1	21384.5	21738.8	22145.4	21980.3	19911.1	19246.9	16255.8
27.5°	24733.9	24419.9	23852.3	23059.2	22781.4	22906.2	23087.4	23055.2	21062.5	20390.2	17161.6
30°	27511.6	27145.3	26469.0	25321.7	24589.0	24258.9	24122.0	24029.4	22314.5	21597.9	18075.4
32.5°	29729.8	29439.9	28775.7	27491.5	26428.7	25865.1	25410.2	25080.1	23622.8	22906.2	19041.6
35°	31670.2	31400.5	30639.6	29238.7	28083.3	27483.5	26887.6	26183.2	24983.5	24258.9	20080.2
37.5°	33441.5	33171.8	32129.1	30671.8	29508.4	29093.7	28562.3	27366.7	26348.2	25663.8	21179.2
40°	34560.6	34500.2	33526.0	31875.5	30667.8	30462.5	30285.3	28739.5	27861.9	27225.8	22386.9
42.5°	34846.5	34979.3	34206.4	32849.7	31698.4	31533.3	31948.0	30293.4	29560.7	28952.8	23755.7
45°	34158.1	34540.5	34033.3	33111.4	32431.0	32342.5	33421.4	31992.2	31440.7	30885.2	25406.2
47.5°	32414.9	33063.1	32853.7	32724.9	32628.3	33010.7	34717.6	33795.7	33570.3	33087.2	27290.2
50°	28896.5	30124.3	30490.6	31303.8	32237.8	33530.1	35897.2	35764.3	36058.2	35571.1	29584.9
52.5°	22813.6	24504.4	26630.0	28667.0	31038.1	33356.9	37193.4	38590.4	39830.3	39564.6	33232.2
55°	18832.2	19593.1	21227.5	24963.4	28711.3	32628.3	37777.2	40872.9	43574.2	43336.7	35997.8
57.5°	15772.7	16453.0	17459.5	20579.4	25192.8	30973.7	38139.5	42265.8	46138.5	46114.4	38727.2
60°	12491.7	13212.3	14242.9	16453.0	21082.6	28115.5	38059.0	43851.9	49411.4	49612.7	42056.5
62.5°	8788.1	9581.2	10724.5	12785.6	16883.8	24411.8	36416.5	44999.3	53264.0	53811.5	46062.1
65°	5776.9	6300.2	7161.7	8941.1	12580.3	19649.4	33280.5	45148.2	57386.3	58312.3	49822.1
67.5°	4049.9	4251.1	4758.4	5724.5	8292.9	15068.2	28284.6	43606.4	60135.9	61178.6	51452.5
70°	3160.2	3260.8	3518.5	3904.9	5209.3	10132.7	21674.4	39596.8	59548.1	60635.1	49749.6
72.5°	2729.4	2826.0	2922.7	2971.0	3494.3	6255.9	14681.7	33107.4	54012.8	54749.5	43256.1
75°	2475.8	2500.0	2580.5	2564.4	2665.0	4057.9	8474.1	24122.0	42616.1	42362.4	31931.8
77.5°	2081.3	2113.5	2246.3	2226.2	2367.1	2773.7	4400.1	15567.4	27628.4	25905.4	17773.5
80°	1763.3	1779.4	1924.3	1900.1	2057.1	2008.8	2246.3	7934.7	11718.8	9927.4	5124.7
82.5°	611.9	756.8	1469.4	1513.7	1570.0	1215.8	1296.3	3236.7	3578.8	2741.5	1074.9
85°	297.9	318.0	748.8	1062.8	1058.8	611.9	632.0	1155.4	1127.2	885.7	358.3
87.5°	48.3	60.4	88.6	414.6	330.1	161.0	217.4	225.4	233.5	201.3	80.5
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°	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4
2.5°	9251.1	9049.8	8627.1	8236.6	7930.6	7636.8	7471.7	7330.8	7250.3	7234.2	7234.2
5°	9500.7	9086.0	8317.1	7669.0	7246.3	6932.3	6767.2	6662.5	6610.2	6578.0	6574.0
7.5°	9858.9	9251.1	8156.1	7419.4	6976.5	6751.1	6666.6	6650.5	6646.4	6650.5	6662.5
10°	10354.1	9520.8	8140.0	7359.0	6988.6	6863.8	6859.8	6863.8	6879.9	6883.9	6888.0
12.5°	10889.5	9798.6	8204.4	7411.3	7141.6	7073.2	7061.1	7057.1	7069.1	7077.2	7081.2
15°	11473.2	10164.9	8313.1	7524.0	7310.7	7238.2	7226.1	7202.0	7198.0	7193.9	7189.9
17.5°	12073.1	10527.2	8433.8	7644.8	7419.4	7318.7	7274.4	7218.1	7173.8	7161.7	7173.8
20°	12681.0	10885.5	8518.4	7705.2	7427.4	7286.5	7198.0	7101.3	7024.8	6980.6	6996.7
22.5°	13329.1	11259.9	8570.7	7689.1	7355.0	7161.7	7000.7	6888.0	6771.2	6694.7	6698.8
25°	13961.1	11586.0	8566.7	7604.5	7214.1	6968.5	6763.2	6618.3	6457.2	6376.7	6376.7
27.5°	14569.0	11879.8	8466.0	7455.6	7012.8	6739.0	6493.5	6320.3	6163.3	6086.9	6082.8
30°	15197.0	12125.4	8309.0	7238.2	6775.3	6473.3	6203.6	6054.7	5913.8	5841.3	5837.3
32.5°	15821.0	12350.8	8087.6	6968.5	6501.5	6211.7	5946.0	5809.1	5724.5	5724.5	5728.6
35°	16481.2	12507.8	7793.8	6654.5	6211.7	5933.9	5724.5	5644.0	5636.0	5587.7	5575.6
37.5°	17177.7	12608.5	7435.5	6332.4	5925.8	5664.2	5599.7	5503.1	5422.6	5317.9	5301.8
40°	17910.3	12709.1	7004.7	5998.3	5623.9	5479.0	5450.8	5322.0	5092.5	4834.9	4798.6
42.5°	18800.0	12777.6	6557.9	5664.2	5305.9	5257.6	5297.8	5076.4	4710.1	4516.8	4520.9
45°	19830.6	12890.3	6147.2	5334.1	4979.8	4979.8	5148.9	4859.0	4557.1	4436.3	4456.4
47.5°	21167.1	13152.0	5764.8	4971.7	4677.9	4758.4	4818.8	4597.3	4428.3	4279.3	4275.3
50°	23099.5	13780.0	5370.3	4605.4	4448.4	4609.4	4524.9	4396.1	4198.8	4078.0	4066.0
52.5°	25498.8	14150.3	5020.0	4275.3	4251.1	4412.2	4291.4	4170.6	4021.7	3860.6	3828.4
55°	27133.2	14218.8	4726.2	4033.8	4118.3	4102.2	4057.9	3949.2	3868.7	3655.3	3659.4
57.5°	28960.9	14355.6	4484.6	3888.8	4033.8	3856.6	3840.5	3747.9	3643.3	3498.3	3450.0
60°	31146.8	14569.0	4275.3	3832.5	3961.3	3695.6	3615.1	3578.8	3474.2	3401.7	3421.8
62.5°	33530.1	14762.2	4061.9	3840.5	3876.7	3538.6	3417.8	3405.7	3341.3	3317.2	3317.2
65°	35156.4	14234.9	3796.2	3832.5	3743.9	3377.6	3224.6	3220.6	3168.2	3160.2	3156.1
67.5°	34588.8	12564.2	3437.9	3719.7	3607.0	3216.5	3047.5	3031.4	2962.9	2966.9	2966.9
70°	31746.7	10181.0	2942.8	3442.0	3437.9	3071.6	2862.3	2809.9	2717.3	2733.5	2749.6
72.5°	26416.6	7544.2	2278.5	2979.0	3168.2	2938.8	2648.9	2564.4	2447.6	2463.7	2459.7
75°	19077.8	5128.7	1658.6	2266.5	2757.6	2781.8	2439.6	2294.6	2153.7	2177.9	2186.0
77.5°	9762.3	2906.6	1219.8	1562.0	2165.8	2528.1	2250.4	2057.1	2024.9	2250.4	2218.2
80°	3184.3	1457.3	845.4	1095.0	1421.1	2069.2	1972.6	1751.2	1743.1	1795.5	1541.8
82.5°	950.1	615.9	543.5	720.6	785.0	1586.1	1702.9	1324.5	1139.3	1199.7	1239.9
85°	326.1	297.9	310.0	358.3	374.4	929.9	1191.6	877.6	829.3	913.8	901.8
87.5°	76.5	104.7	88.6	80.5	80.5	225.4	463.0	366.3	507.2	338.2	326.1
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)