

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: P957333

Luminaire Tested: **GALN-SB9D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74832 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - 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

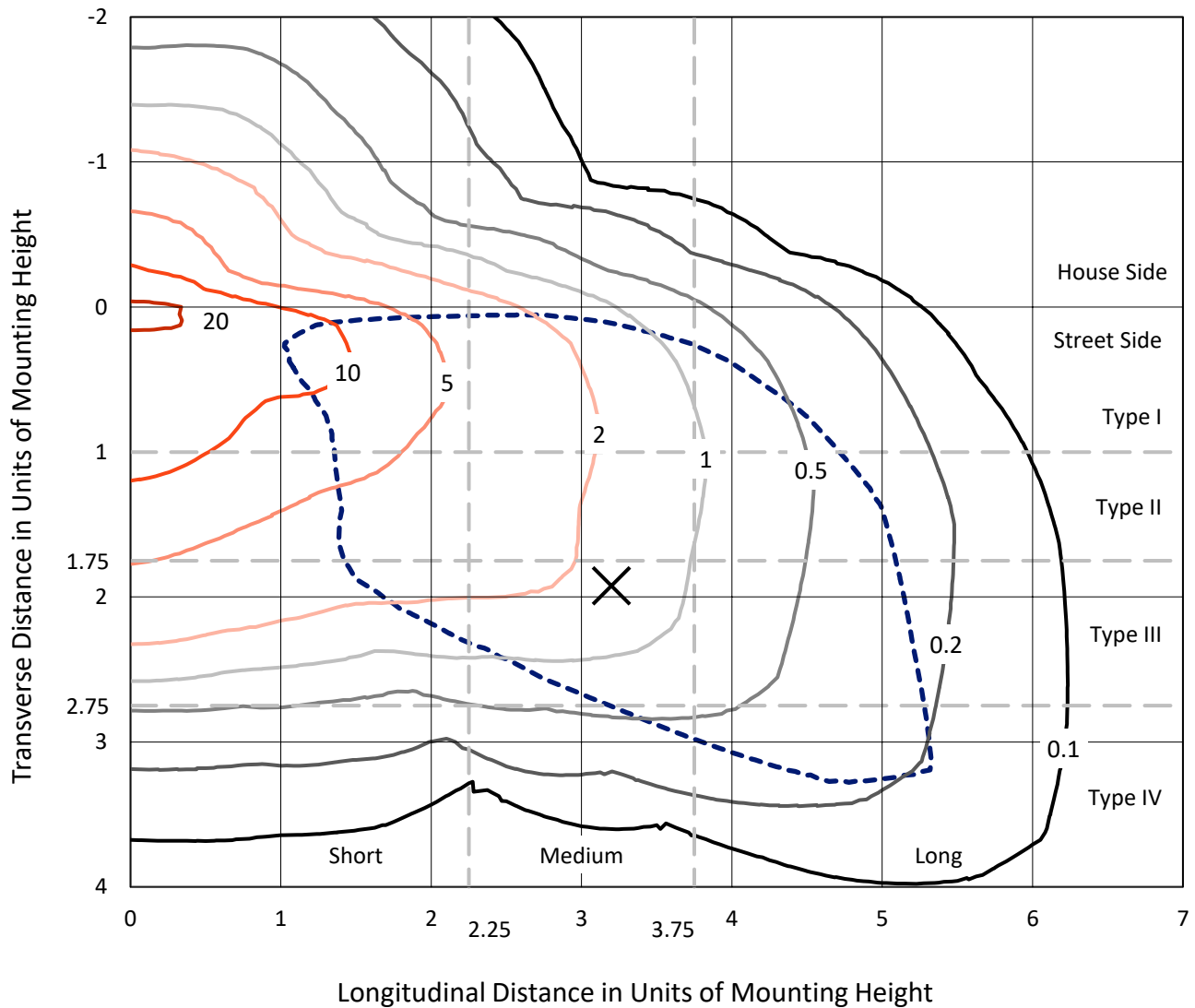


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

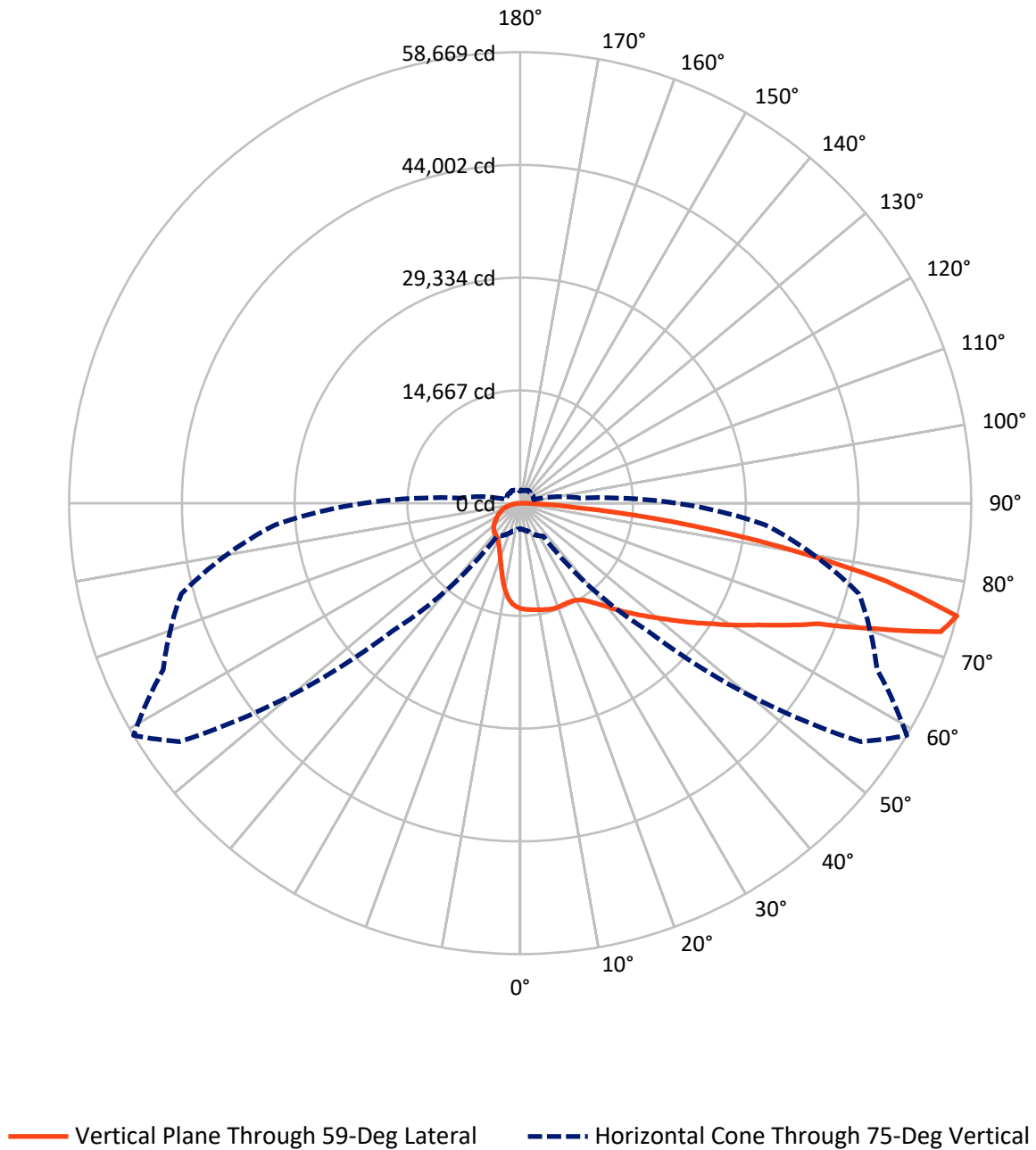


Based on 25 foot mounting height. Maximum calculated value = 22 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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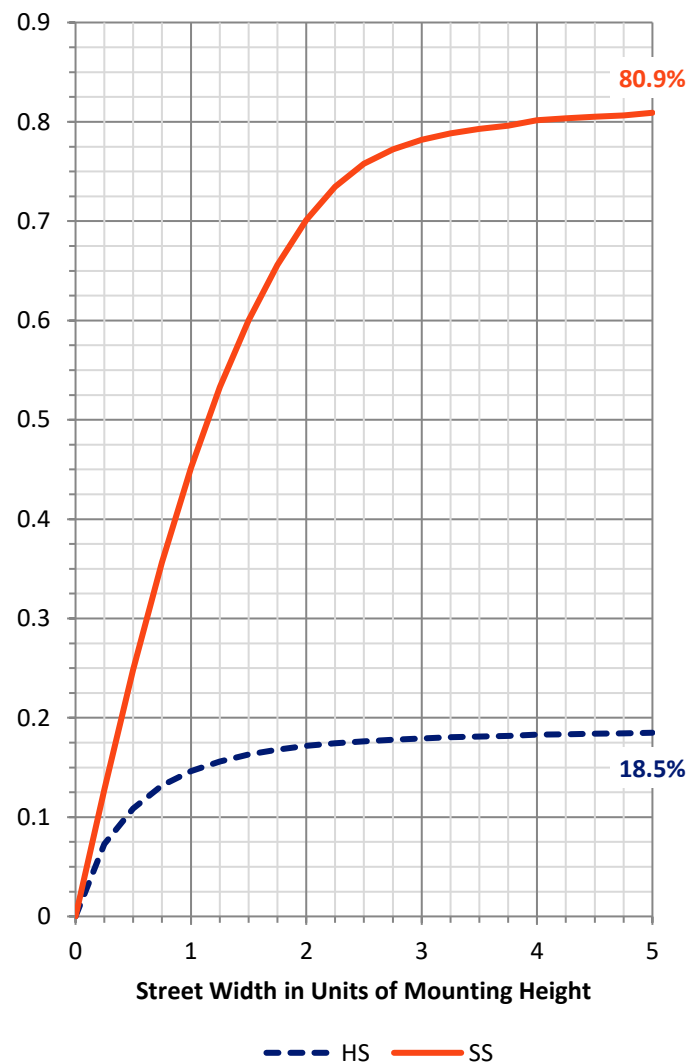
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14035.3	0.0	14035.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	60796.7	0.0	60796.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	74832.0	0.0	74832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.6	1.6
10°-20°	3148.0	4.2
20°-30°	4781.6	6.4
30°-40°	7107.7	9.5
40°-50°	10570.4	14.1
50°-60°	14348.0	19.2
60°-70°	17516.6	23.4
70°-80°	13746.8	18.4
80°-90°	2381.3	3.2
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°	74832.0	100.0
0°-180°	74832.0	100.0

Coefficient of Utilization



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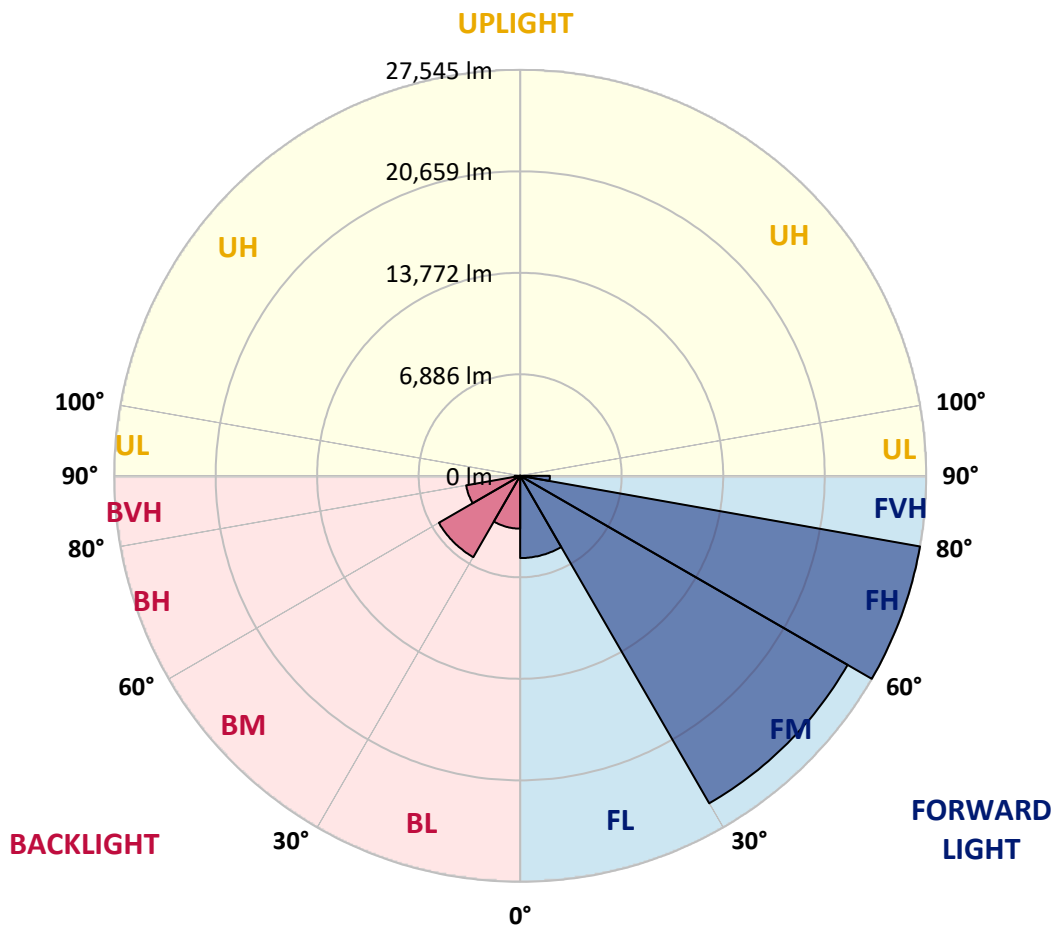
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5579.5	7.5			
FM	(30°-60°)	25655.5	34.3			
FH	(60°-80°)	27544.9	36.8			G5
FVH	(80°-90°)	2016.8	2.7			G5
BL	(0°-30°)	3581.6	4.8	B4/5000		
BM	(30°-60°)	6370.6	8.5	B4/8500		
BH	(60°-80°)	3718.5	5.0	B4/5000		G4/5000
BVH	(80°-90°)	364.5	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2
2.5°	13852.0	13803.7	13852.0	13831.9	13823.8	13807.7	13811.7	13839.9	13823.8	13843.9	13775.5
5°	13759.4	13731.2	13779.5	13767.5	13819.8	13827.8	13880.2	13912.4	13932.5	13936.5	13884.2
7.5°	13606.4	13578.2	13646.7	13703.0	13815.8	13848.0	13956.7	14009.0	14037.2	14085.5	14009.0
10°	13046.9	13034.8	13203.9	13417.2	13682.9	13848.0	14013.0	14101.6	14145.9	14274.7	14186.1
12.5°	12056.6	12072.7	12294.1	12704.7	13236.1	13767.5	14077.4	14206.2	14274.7	14435.7	14395.4
15°	11110.6	11106.5	11348.1	11786.9	12531.6	13413.2	14109.6	14331.0	14447.8	14685.3	14653.1
17.5°	10563.1	10547.0	10716.1	11050.2	11742.6	12869.7	14029.1	14399.5	14649.1	14946.9	14918.8
20°	10462.5	10430.3	10518.8	10683.9	11175.0	12274.0	13819.8	14399.5	14810.1	15196.5	15180.4
22.5°	10828.8	10776.5	10740.2	10720.1	10937.5	11782.8	13582.3	14351.2	15047.6	15554.8	15526.6
25°	11565.5	11485.0	11299.8	11118.6	11054.2	11561.4	13372.9	14339.1	15401.8	16037.9	15933.2
27.5°	12757.0	12656.4	12282.0	11847.3	11456.8	11674.2	13280.4	14411.5	15792.3	16549.1	16339.8
30°	14234.4	14125.7	13654.7	12986.5	12286.0	12092.8	13397.1	14624.9	16291.5	17229.4	16818.8
32.5°	15558.8	15438.1	15035.5	14355.2	13409.2	12817.4	13767.5	15031.5	17076.5	18175.5	17539.4
35°	16734.3	16593.4	16231.1	15603.1	14785.9	13835.9	14435.7	15752.1	18191.6	19713.2	18517.6
37.5°	17885.6	17720.6	17326.1	16661.8	16090.2	15192.5	15357.6	16677.9	19673.0	21581.1	19813.9
40°	19173.8	18936.3	18457.2	17801.1	17245.5	16782.6	16569.2	17813.1	21178.5	23666.3	21432.1
42.5°	20421.7	20196.3	19624.7	19065.1	18368.7	18235.8	17974.2	19141.6	22825.0	25956.9	23074.6
45°	21766.3	21496.5	20804.1	20095.6	19656.9	19202.0	19334.8	20470.0	24439.2	28291.7	24797.5
47.5°	23026.3	22724.3	21907.2	21118.1	20876.6	20015.1	20582.7	21931.3	26117.9	30658.7	26504.4
50°	23706.6	23408.7	22728.4	22015.8	21826.6	21017.5	21935.3	23537.5	27877.1	33017.7	28142.8
52.5°	24274.2	23952.1	23062.5	22668.0	22611.6	22108.4	23601.9	25373.2	29636.3	35103.0	29724.8
55°	24878.0	24519.8	23384.5	23030.3	23287.9	23332.2	25578.5	27454.4	31496.1	37135.9	31218.3
57.5°	25574.4	25119.6	23694.5	23336.2	23948.1	24765.3	27848.9	29612.1	33323.7	39019.9	32546.7
60°	26230.6	25771.7	24290.3	23823.3	24660.6	26427.9	30453.4	32224.7	35392.8	40698.5	33802.7
62.5°	26359.4	25981.0	24765.3	24761.3	25626.8	28368.2	33537.0	34861.4	37200.3	42357.1	34929.9
65°	24129.3	23891.8	23171.2	24725.1	27011.6	31161.9	36970.8	38234.9	39498.9	43806.3	35920.2
67.5°	18364.7	18396.9	18344.5	21343.6	25892.5	35175.4	41942.4	41845.8	42336.9	45432.6	37059.4
70°	8397.3	8586.5	9818.4	14733.6	20743.8	35638.4	50162.6	48910.7	45899.6	47538.0	38045.7
72.5°	4536.8	4681.7	5184.9	7137.3	12471.2	31685.3	56305.7	57195.3	50637.7	48955.0	36962.8
75°	3329.1	3409.7	3759.9	4536.8	5237.3	23549.6	54103.7	58668.7	51229.4	45650.0	31918.7
77.5°	2491.8	2528.1	2813.9	3594.8	2681.0	12414.9	43230.6	48588.6	43854.6	37506.2	23577.8
80°	1807.5	1847.7	2061.1	2697.1	1879.9	4540.8	29684.6	34104.6	30034.8	23907.9	11750.6
82.5°	1247.9	1264.0	1356.6	1835.7	1312.3	1763.2	16843.0	19999.0	16766.5	8389.3	3172.1
85°	752.8	772.9	813.2	1070.8	744.7	837.3	7270.2	7519.8	5011.8	2004.7	986.3
87.5°	310.0	330.1	362.3	450.9	293.9	233.5	1199.6	1505.6	938.0	587.7	305.9
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°	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2	13735.2
2.5°	13755.4	13727.2	13650.7	13546.0	13449.4	13328.7	13276.3	13232.1	13191.8	13115.3	13079.1
5°	13839.9	13763.4	13558.1	13292.4	12990.5	12660.4	12338.4	12117.0	11927.8	11786.9	11670.1
7.5°	13968.7	13823.8	13449.4	12906.0	12213.6	11505.1	10865.0	10410.1	10068.0	9943.2	9725.8
10°	14101.6	13928.5	13276.3	12318.2	11122.7	10031.7	9182.3	8715.4	8441.6	8353.1	8216.2
12.5°	14258.6	14005.0	13006.6	11501.1	9902.9	8707.3	7966.6	7692.9	7552.0	7503.7	7515.7
15°	14488.0	14069.4	12600.0	10478.6	8739.5	7741.2	7262.1	7072.9	7000.5	6996.4	7012.5
17.5°	14661.1	14081.4	11968.0	9383.6	7845.8	7157.5	6763.0	6690.5	6738.8	6811.3	6839.4
20°	14854.4	13972.8	11138.8	8385.3	7217.8	6646.2	6481.2	6529.5	6646.2	6750.9	6787.1
22.5°	14991.2	13775.5	10136.4	7608.3	6674.4	6352.4	6344.3	6444.9	6509.3	6561.7	6589.9
25°	15112.0	13441.4	9073.6	6956.2	6227.6	6175.2	6263.8	6231.6	6187.3	6231.6	6259.8
27.5°	15200.6	12914.0	8123.6	6384.6	5913.6	6054.5	6002.1	5929.7	5925.6	5949.8	5990.0
30°	15172.4	12209.6	7342.6	5841.1	5692.2	5829.0	5704.2	5692.2	5680.1	5692.2	5736.4
32.5°	15172.4	11408.5	6742.8	5466.7	5551.3	5498.9	5486.9	5458.7	5410.4	5406.3	5458.7
35°	15256.9	10607.4	6227.6	5265.4	5434.5	5309.7	5317.8	5249.3	5148.7	5100.4	5148.7
37.5°	15430.0	9963.3	5716.3	5168.8	5229.2	5225.2	5193.0	5076.2	4899.1	4746.1	4798.5
40°	15848.7	9774.1	5366.1	5124.6	5132.6	5180.9	5096.4	4870.9	4468.4	4218.8	4251.0
42.5°	16504.8	10092.1	5289.6	5015.9	5068.2	5116.5	4951.5	4428.1	4142.3	3993.4	3993.4
45°	17338.1	10647.6	5454.6	4858.9	4915.2	4999.8	4508.6	4259.1	4130.2	4134.3	4154.4
47.5°	18392.8	11231.3	5760.6	4722.0	4693.8	4742.1	4214.8	4061.8	3884.7	3929.0	4041.7
50°	19612.6	11823.1	6050.4	4536.8	4448.3	4291.3	4025.6	3880.7	3655.2	3550.6	3578.7
52.5°	20933.0	12394.7	6167.2	4311.4	4182.6	4001.4	3896.8	3719.6	3445.9	3272.8	3268.8
55°	22184.9	12914.0	6038.4	4041.7	3916.9	3776.0	3759.9	3651.2	3357.3	3115.8	3115.8
57.5°	23368.4	13348.8	5716.3	3767.9	3647.2	3562.6	3671.3	3619.0	3248.6	2938.7	2922.6
60°	24370.8	13646.7	5249.3	3490.2	3405.6	3361.4	3526.4	3510.3	3095.7	2749.5	2737.4
62.5°	25167.9	13763.4	4734.1	3224.5	3204.4	3123.8	3325.1	3325.1	2902.4	2564.3	2552.2
65°	25791.8	13650.7	4210.7	2962.8	3003.1	2882.3	3079.6	3055.4	2697.1	2399.2	2383.1
67.5°	26343.3	13280.4	3631.1	2705.2	2797.8	2644.8	2821.9	2765.6	2471.7	2234.2	2218.1
70°	26588.9	12418.9	2970.9	2447.5	2560.3	2411.3	2564.3	2459.6	2218.1	2057.1	2024.9
72.5°	24616.4	10321.6	2338.9	2177.8	2274.4	2153.7	2286.5	2165.8	1944.4	1871.9	1811.5
75°	20365.4	7745.2	1799.4	1884.0	1956.4	1863.8	1952.4	1863.8	1662.6	1714.9	1565.9
77.5°	14789.9	5229.2	1376.7	1574.0	1606.2	1557.9	1634.4	1533.7	1352.6	1340.5	1280.1
80°	7354.7	3063.5	1078.9	1243.9	1231.8	1199.6	1288.2	1239.9	1086.9	1151.3	1139.2
82.5°	2129.5	1312.3	785.0	873.5	849.4	857.4	921.9	946.0	1417.0	1404.9	1437.1
85°	668.2	515.3	471.0	487.1	462.9	475.0	543.5	1078.9	998.3	583.7	632.0
87.5°	173.1	177.1	116.7	124.8	128.8	153.0	173.1	656.2	314.0	205.3	217.4
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)