

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: P944667

Luminaire Tested: **GALN-SB9D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76619 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - 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



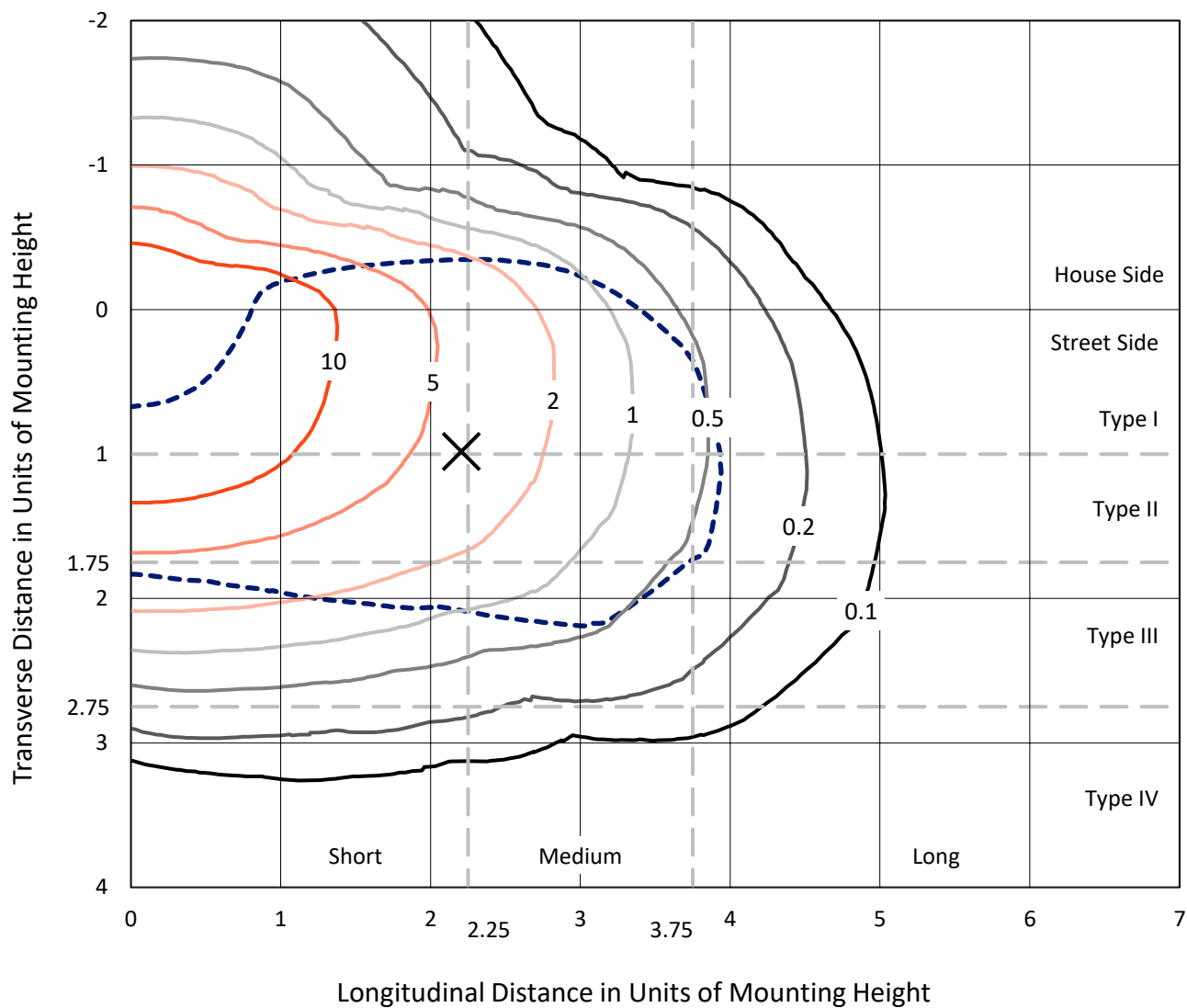
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

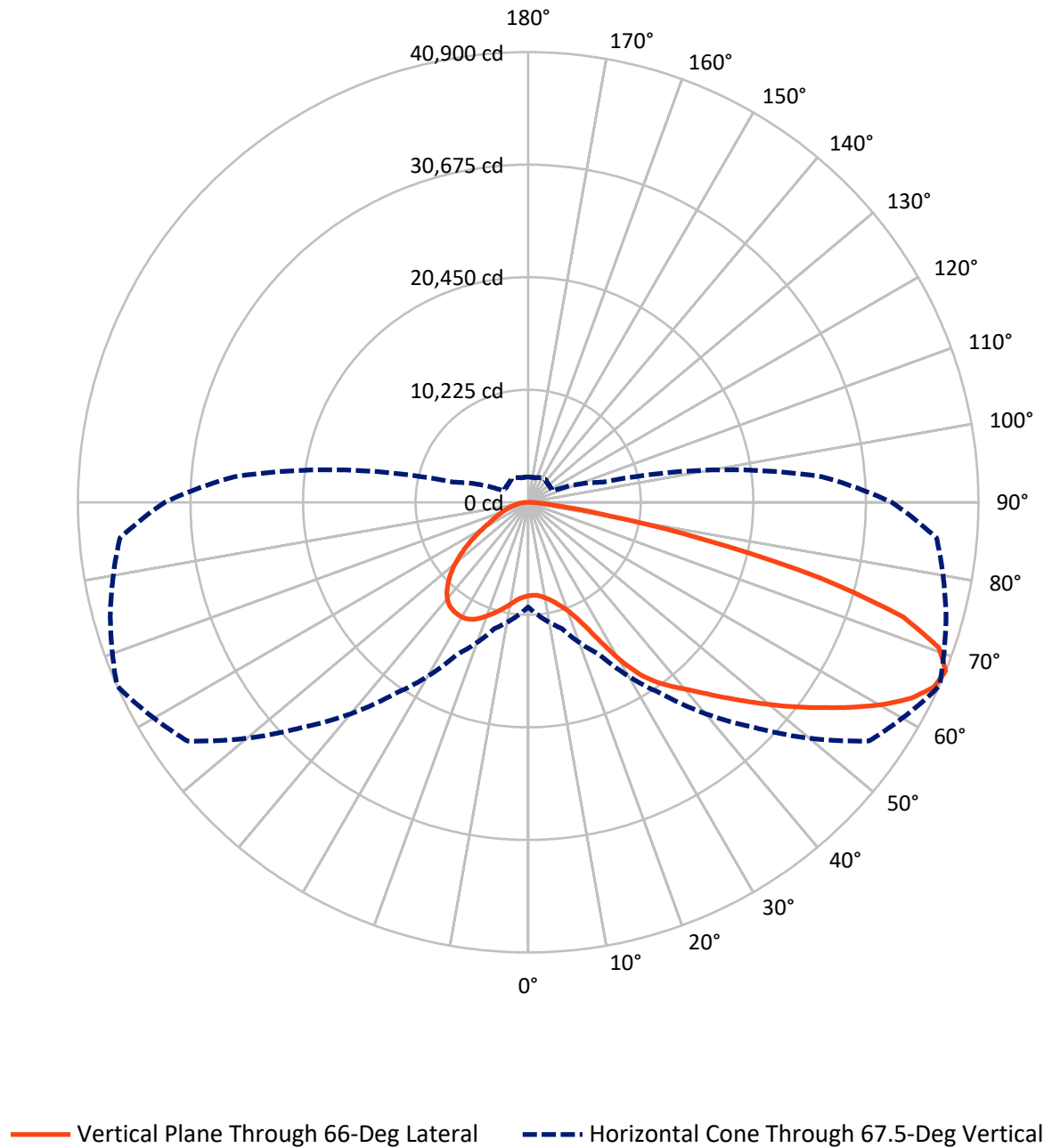


Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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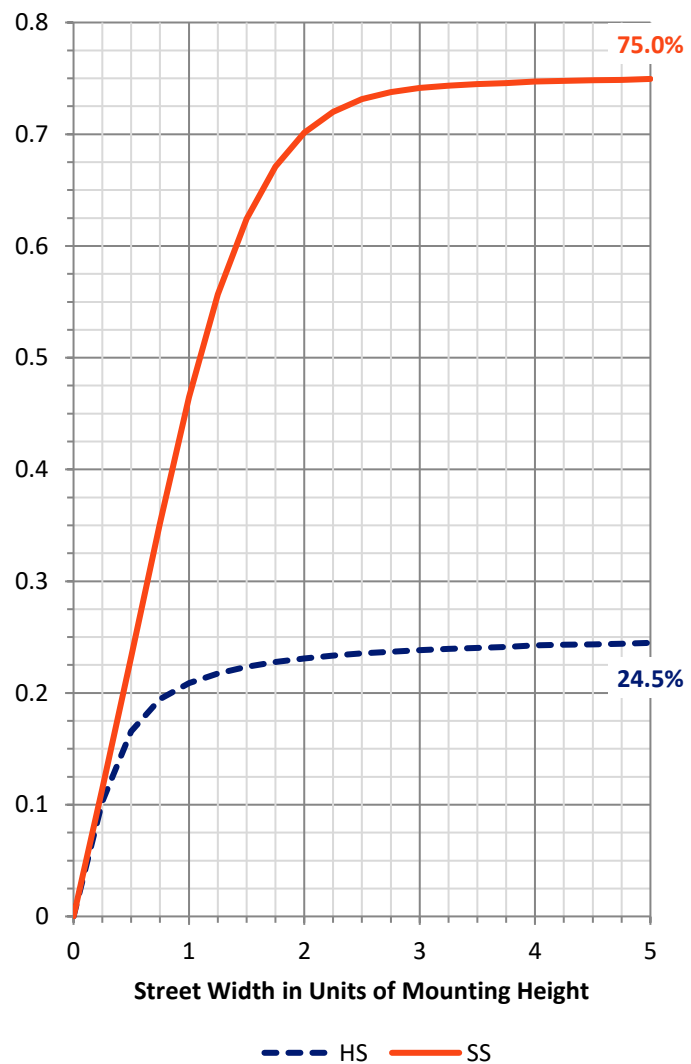
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19051.1	0.0	19051.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	57567.9	0.0	57567.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	76619.0	0.0	76619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.5	1.1
10°-20°	2783.7	3.6
20°-30°	5365.4	7.0
30°-40°	9407.5	12.3
40°-50°	13985.8	18.3
50°-60°	17728.4	23.1
60°-70°	17346.8	22.6
70°-80°	8274.6	10.8
80°-90°	884.3	1.2
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°	76619.0	100.0
0°-180°	76619.0	100.0

Coefficient of Utilization



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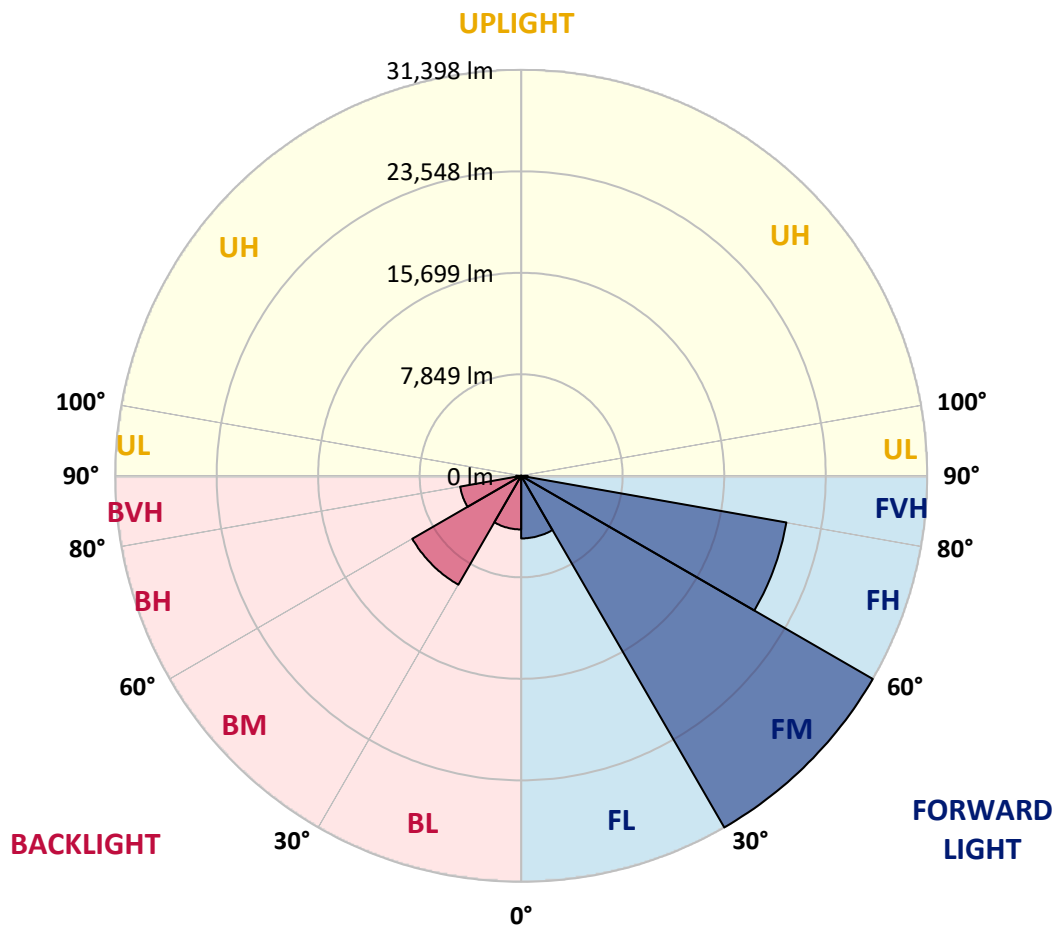
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4841.6	6.3			
FM	(30°-60°)	31397.8	41.0			
FH	(60°-80°)	20827.1	27.2			G5
FVH	(80°-90°)	501.4	0.7			G4/750
BL	(0°-30°)	4150.0	5.4	B4/5000		
BM	(30°-60°)	9723.9	12.7	B5		
BH	(60°-80°)	4794.2	6.3	B4/5000		G4/5000
BVH	(80°-90°)	382.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1
2.5°	8409.5	8457.8	8445.7	8425.6	8421.6	8429.6	8441.7	8453.8	8449.8	8469.9	8502.1
5°	8385.3	8433.6	8429.6	8429.6	8445.7	8477.9	8498.1	8518.2	8498.1	8522.2	8566.5
7.5°	8401.4	8437.7	8453.8	8469.9	8510.1	8570.5	8618.8	8663.1	8639.0	8667.1	8723.5
10°	8606.8	8634.9	8651.0	8651.0	8679.2	8747.6	8796.0	8876.5	8856.3	8900.6	8973.1
12.5°	8981.1	9009.3	9009.3	8993.2	9013.3	9057.6	9073.7	9162.3	9126.1	9198.5	9271.0
15°	9440.1	9496.4	9452.1	9423.9	9432.0	9476.3	9472.3	9540.7	9504.5	9564.8	9629.3
17.5°	9947.3	10019.7	9947.3	9943.3	9927.2	9975.5	9979.5	10039.9	9975.5	10019.7	10064.0
20°	10547.1	10647.7	10587.4	10607.5	10571.2	10591.4	10611.5	10700.1	10599.4	10631.6	10619.6
22.5°	11392.5	11513.2	11448.8	11525.3	11501.2	11485.1	11481.0	11638.0	11481.0	11493.1	11376.4
25°	12624.3	12769.2	12656.5	12761.2	12761.2	12813.5	12873.9	13075.2	12813.5	12737.0	12435.1
27.5°	14443.9	14588.8	14367.4	14431.8	14411.7	14540.5	14476.1	14975.3	14693.5	14568.7	13960.8
30°	16633.8	16891.5	16472.8	16456.7	16436.6	16641.9	16734.5	17064.6	16778.7	16653.9	15921.3
32.5°	19000.9	19270.6	18771.4	18626.5	18550.0	18674.8	18598.3	18864.0	18666.7	18473.5	17567.8
35°	21504.8	21770.5	21295.5	21013.7	20707.7	20446.1	20172.3	20240.8	20055.6	19761.7	18823.7
37.5°	23871.9	24359.0	23855.8	23553.8	22990.3	22479.0	21714.1	21396.1	21223.0	20953.3	20007.3
40°	26283.2	26561.0	26178.5	25920.9	25309.0	24507.9	23284.1	22611.8	22378.4	22116.7	21315.6
42.5°	28058.5	28324.2	28118.9	27941.7	27462.7	26532.8	24950.7	24109.4	23771.2	23477.3	22797.0
45°	29467.5	29664.7	29535.9	29600.3	29395.0	28493.3	26677.7	25715.6	25365.4	25007.1	24471.7
47.5°	30035.1	30244.4	30449.7	30832.1	31182.4	30518.1	28533.5	27454.7	27084.3	26718.0	26190.6
50°	29970.7	30184.0	30779.8	31593.0	32679.9	32458.5	30490.0	29306.4	28964.3	28545.6	28058.5
52.5°	29455.4	29696.9	30461.8	31814.4	33545.4	33911.7	32482.6	31218.6	30896.5	30397.4	29910.3
55°	28102.8	28247.7	29395.0	31311.2	33750.7	34926.2	34435.1	33255.6	32933.5	32237.1	31705.7
57.5°	25594.8	25804.2	27474.8	29954.6	33235.4	35614.6	36150.0	35397.2	35087.2	34084.8	33529.3
60°	22322.0	22656.1	24568.3	27676.1	31923.1	35610.5	37707.9	37502.6	37244.9	35904.4	35324.7
62.5°	18618.4	19004.9	20844.6	24455.6	29628.5	34600.1	38682.1	39265.8	39132.9	37583.1	36842.4
65°	14299.0	14564.7	16396.3	20289.1	26057.8	32430.3	38794.8	40469.4	40493.6	38859.2	37635.4
67.5°	9520.6	10285.4	11875.5	15224.9	21275.3	28883.7	37804.5	40666.7	40900.2	39298.0	37236.9
70°	4645.6	5652.0	7209.9	9894.9	15224.9	23445.1	35216.0	39048.4	39567.7	38017.8	34861.8
72.5°	1928.3	2254.3	3103.7	4883.1	8739.6	15820.6	30014.9	34660.5	35622.6	33686.3	29310.5
75°	1300.3	1409.0	1775.3	2503.9	3981.3	7801.6	21645.7	25844.4	27394.3	25441.8	20796.3
77.5°	1002.4	1070.8	1292.2	1751.1	2367.1	2950.8	11585.7	15575.1	16376.2	15160.4	10820.8
80°	789.0	841.4	966.1	1276.1	1678.7	1578.0	3949.1	7056.9	7519.8	6308.1	3478.1
82.5°	684.4	704.5	692.4	865.5	1115.1	921.9	1296.2	2604.6	2874.3	2085.3	1135.2
85°	495.1	551.5	575.7	535.4	591.8	467.0	531.4	921.9	1014.5	905.8	640.1
87.5°	201.3	297.9	366.3	346.2	217.4	132.8	165.0	269.7	310.0	338.2	209.3
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°	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1	8498.1
2.5°	8506.1	8534.3	8554.4	8578.6	8594.7	8618.8	8667.1	8695.3	8699.3	8719.5	8715.4
5°	8582.6	8622.9	8667.1	8731.5	8804.0	8864.4	8957.0	9021.4	9045.5	9065.7	9061.6
7.5°	8747.6	8804.0	8884.5	8997.2	9101.9	9182.4	9295.1	9371.6	9448.1	9476.3	9480.3
10°	8993.2	9073.7	9190.5	9343.4	9456.2	9560.8	9677.6	9742.0	9818.5	9850.7	9866.8
12.5°	9299.2	9383.7	9536.7	9750.0	9854.7	9927.2	9967.4	9951.3	9967.4	9995.6	10003.6
15°	9649.4	9742.0	9915.1	10144.5	10217.0	10152.6	10064.0	9983.5	9971.4	9979.5	10007.7
17.5°	10064.0	10132.5	10333.7	10527.0	10474.6	10208.9	10015.7	9886.9	9822.5	9802.4	9830.5
20°	10643.7	10643.7	10808.8	10929.5	10579.3	10128.4	9826.5	9617.2	9484.3	9428.0	9415.9
22.5°	11348.2	11283.8	11388.4	11303.9	10559.2	9903.0	9484.3	9122.0	8920.7	8840.2	8828.2
25°	12241.9	12165.4	12137.2	11613.9	10414.2	9544.7	8864.4	8425.6	8248.5	8204.2	8212.2
27.5°	13590.5	13397.2	13030.9	11783.0	10148.6	8981.1	8139.8	7733.2	7632.6	7636.6	7648.7
30°	15385.9	14999.4	14101.7	11811.1	9713.8	8184.1	7399.1	7109.2	7060.9	7081.0	7149.5
32.5°	17048.5	16682.1	15196.7	11682.3	9045.5	7403.1	6734.8	6541.6	6469.2	6493.3	6525.5
35°	18352.7	18252.1	16211.1	11501.2	8224.3	6670.4	6139.1	5974.0	5833.1	5800.9	5825.1
37.5°	19584.6	19544.3	16972.0	11247.6	7411.1	6151.1	5660.0	5442.6	5237.3	5124.6	5128.6
40°	20937.2	20896.9	17471.1	10857.1	6690.6	5700.3	5229.3	4943.4	4689.8	4484.5	4504.7
42.5°	22458.9	22221.4	17708.7	10297.5	6078.7	5317.8	4879.0	4492.6	4158.5	3969.3	3981.3
45°	24121.4	23586.0	17704.6	9585.0	5563.4	4967.6	4504.7	3957.2	3647.2	3470.1	3462.0
47.5°	25884.7	24890.3	17487.2	8796.0	5064.2	4581.1	3925.0	3506.3	3301.0	3192.3	3168.2
50°	27704.2	26110.1	17116.9	7890.2	4553.0	4142.4	3562.7	3276.8	3119.8	3019.2	2983.0
52.5°	29415.1	27217.1	16670.0	6863.7	4033.7	3715.6	3401.6	3180.2	3015.2	2902.5	2854.2
55°	31005.2	28171.2	16038.0	5813.0	3611.0	3429.8	3325.2	3140.0	2950.8	2817.9	2765.6
57.5°	32418.2	28791.2	14947.1	4826.7	3309.1	3232.6	3244.6	3071.5	2854.2	2741.4	2669.0
60°	33593.7	29246.0	13332.8	3912.9	3063.5	3039.3	3119.8	2942.7	2689.1	2560.3	2503.9
62.5°	34298.2	29238.0	11352.2	3204.4	2854.2	2862.2	2954.8	2781.7	2524.1	2403.3	2367.1
65°	34237.8	28521.4	9178.4	2741.4	2652.9	2660.9	2781.7	2604.6	2387.2	2314.7	2310.7
67.5°	33026.1	26774.3	7040.8	2439.5	2431.5	2467.7	2608.6	2483.8	2302.6	2294.6	2306.7
70°	29745.2	23147.2	5072.3	2198.0	2202.0	2254.3	2439.5	2407.3	2258.4	2274.5	2270.4
72.5°	23851.7	17648.3	3405.7	1944.4	1948.4	2032.9	2278.5	2346.9	2214.1	2427.4	2459.6
75°	15885.1	11006.0	2189.9	1674.7	1678.7	1787.4	2137.6	2230.2	2093.3	2419.4	2439.5
77.5°	7632.6	4947.5	1586.1	1409.0	1409.0	1509.6	1847.8	1996.7	1783.3	1880.0	1723.0
80°	2636.8	1859.8	1247.9	1135.2	1111.1	1179.5	1557.9	1731.0	1537.8	1417.0	1328.5
82.5°	1038.6	966.1	1002.4	881.6	801.1	845.4	1211.7	1429.1	1131.2	1022.5	1018.5
85°	595.8	628.0	708.5	583.7	462.9	519.3	889.7	1026.5	853.4	752.8	768.9
87.5°	161.0	221.4	326.1	301.9	209.3	221.4	422.7	567.6	491.1	378.4	390.5
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)