

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: P944517

Luminaire Tested: **GALN-SB9C-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944517
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-SB9C-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68260 lumens
Efficiency: N/A
Efficacy: 151.8 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): 449.8
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

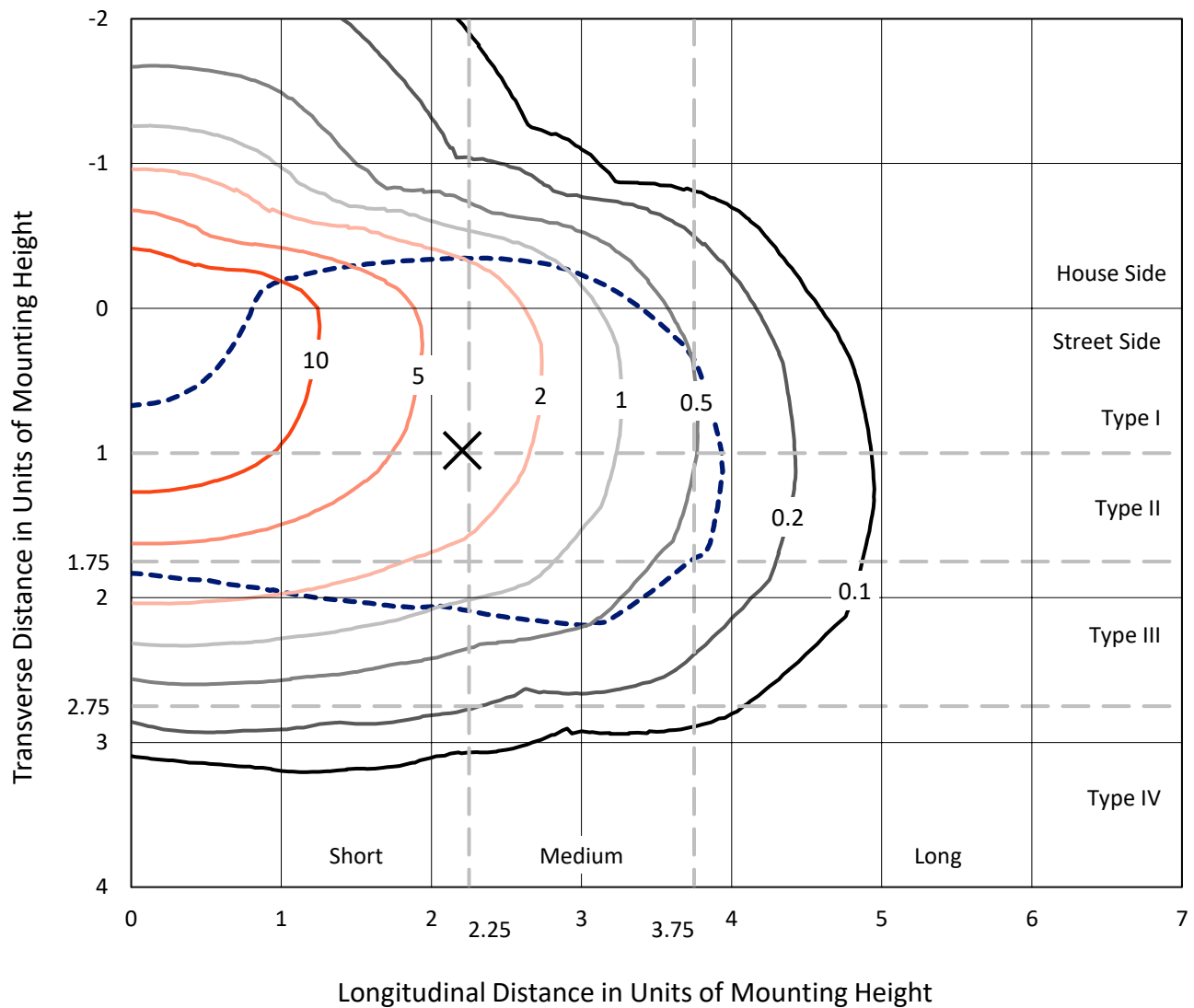


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

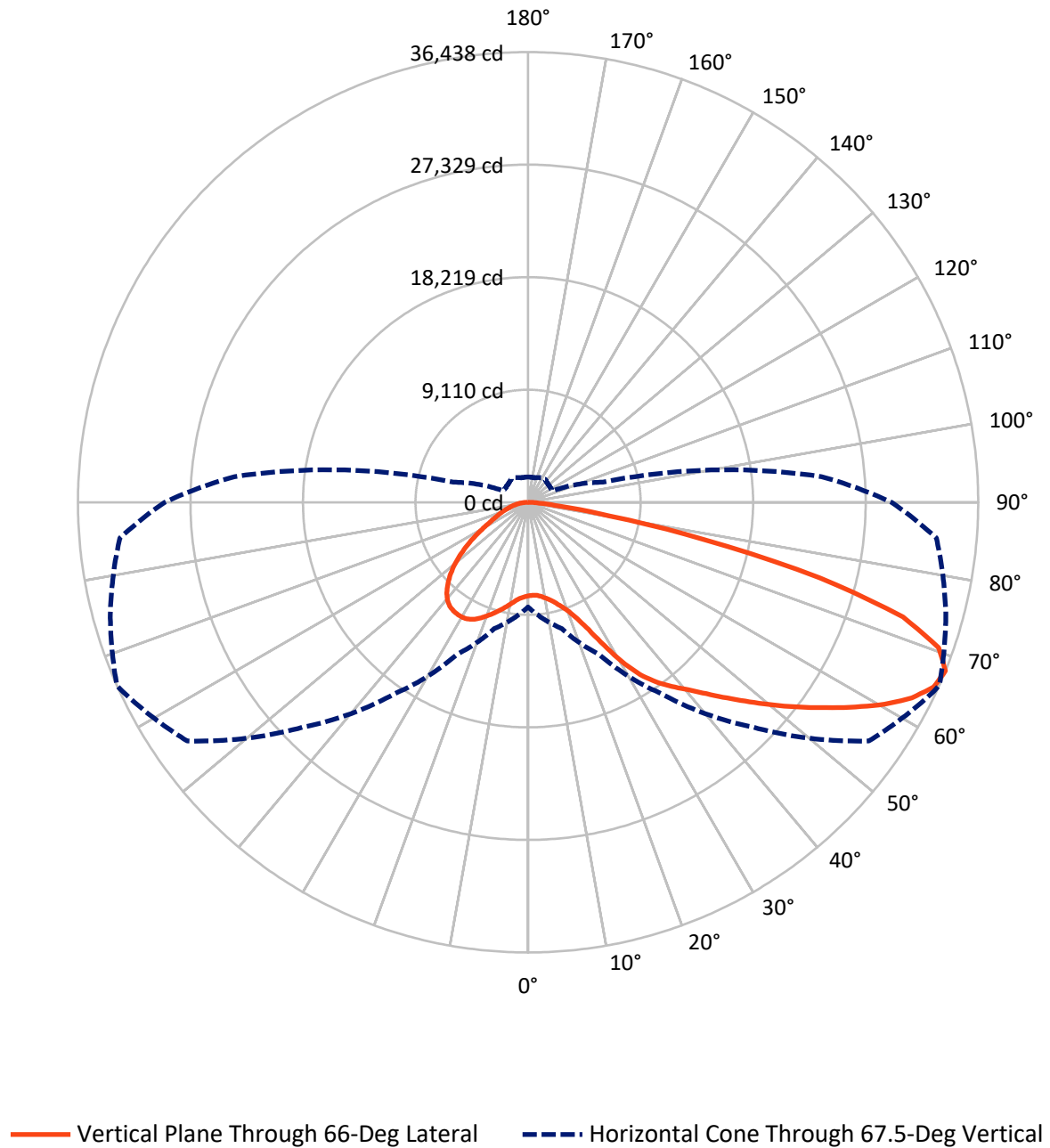


Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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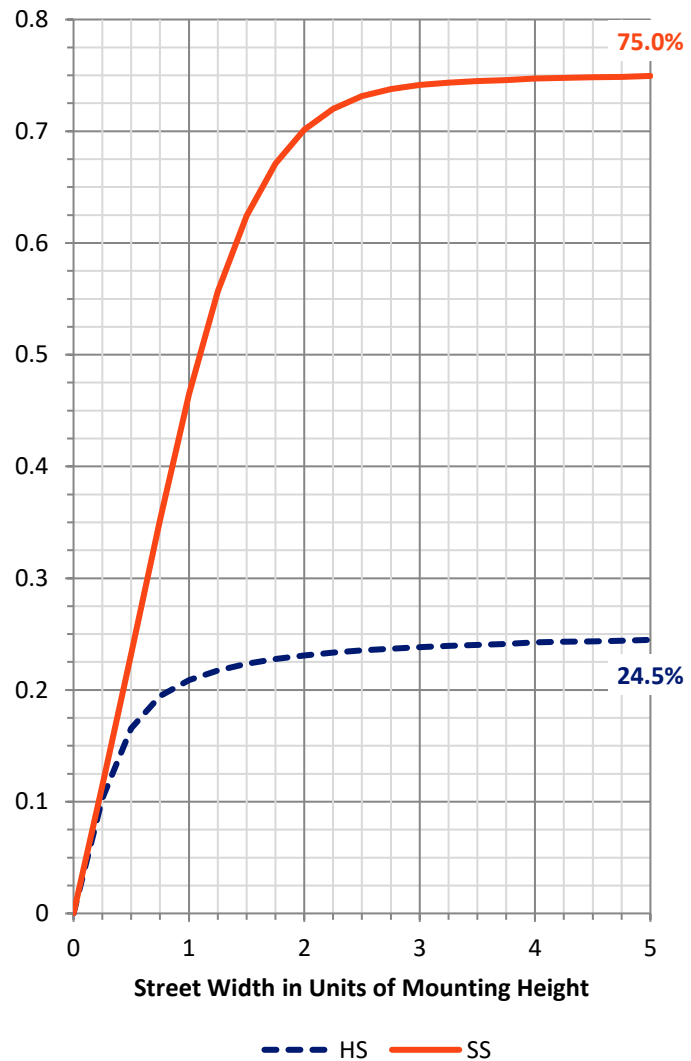
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16972.6	0.0	16972.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	51287.3	0.0	51287.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	68260.0	0.0	68260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.6	1.1
10°-20°	2480.0	3.6
20°-30°	4780.0	7.0
30°-40°	8381.1	12.3
40°-50°	12460.0	18.3
50°-60°	15794.3	23.1
60°-70°	15454.3	22.6
70°-80°	7371.8	10.8
80°-90°	787.8	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°	68260.0	100.0
0°-180°	68260.0	100.0

Coefficient of Utilization



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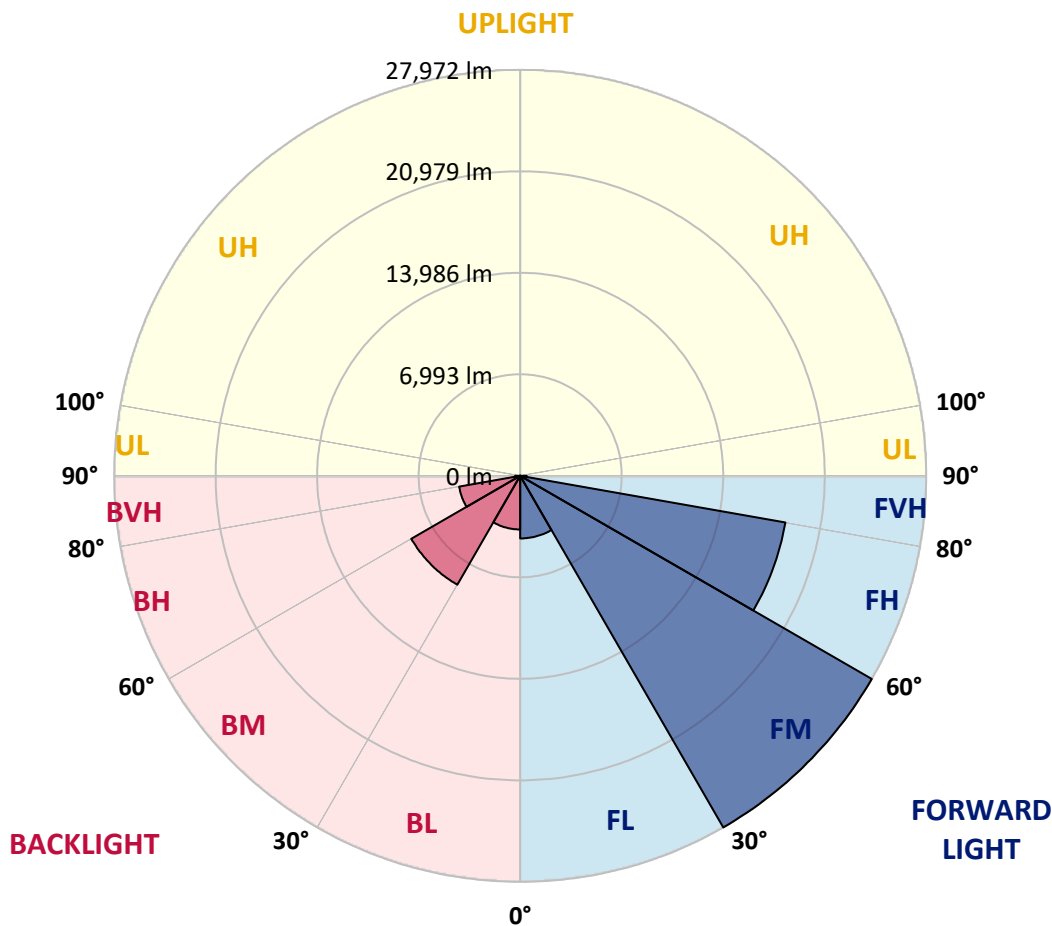
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4313.4	6.3			
FM	(30°-60°)	27972.4	41.0			
FH	(60°-80°)	18554.9	27.2			G5
FVH	(80°-90°)	446.7	0.7			G3/500
BL	(0°-30°)	3697.3	5.4	B4/5000		
BM	(30°-60°)	8663.0	12.7	B5		
BH	(60°-80°)	4271.2	6.3	B4/5000		G4/5000
BVH	(80°-90°)	341.2	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°	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9
2.5°	7492.0	7535.1	7524.3	7506.4	7502.8	7510.0	7520.7	7531.5	7527.9	7545.8	7574.5
5°	7470.5	7513.6	7510.0	7510.0	7524.3	7553.0	7570.9	7588.9	7570.9	7592.5	7631.9
7.5°	7484.9	7517.1	7531.5	7545.8	7581.7	7635.5	7678.5	7718.0	7696.5	7721.6	7771.8
10°	7667.8	7692.9	7707.2	7707.2	7732.3	7793.3	7836.3	7908.1	7890.1	7929.6	7994.1
12.5°	8001.3	8026.4	8026.4	8012.1	8030.0	8069.4	8083.8	8162.7	8130.4	8195.0	8259.5
15°	8410.2	8460.4	8420.9	8395.8	8403.0	8442.4	8438.9	8499.8	8467.5	8521.3	8578.7
17.5°	8862.0	8926.6	8862.0	8858.5	8844.1	8887.2	8890.7	8944.5	8887.2	8926.6	8966.1
20°	9396.4	9486.1	9432.3	9450.2	9417.9	9435.9	9453.8	9532.7	9443.0	9471.7	9461.0
22.5°	10149.6	10257.2	10199.8	10267.9	10246.4	10232.1	10228.5	10368.3	10228.5	10239.2	10135.2
25°	11247.0	11376.1	11275.7	11369.0	11369.0	11415.6	11469.4	11648.7	11415.6	11347.4	11078.5
27.5°	12868.1	12997.2	12799.9	12857.3	12839.4	12954.2	12896.8	13341.5	13090.4	12979.3	12437.7
30°	14819.1	15048.6	14675.6	14661.3	14643.4	14826.3	14908.8	15202.8	14948.2	14837.0	14184.3
32.5°	16927.9	17168.2	16723.5	16594.4	16526.2	16637.4	16569.3	16806.0	16630.2	16458.1	15651.1
35°	19158.7	19395.4	18972.2	18721.1	18448.6	18215.4	17971.6	18032.5	17867.6	17605.7	16770.1
37.5°	21267.5	21701.4	21253.1	20984.2	20482.1	20026.6	19345.2	19061.8	18907.6	18667.3	17824.5
40°	23415.7	23663.2	23322.5	23093.0	22547.8	21834.1	20743.9	20144.9	19936.9	19703.8	18990.1
42.5°	24997.4	25234.1	25051.2	24893.4	24466.6	23638.1	22228.6	21479.1	21177.8	20916.0	20309.9
45°	26252.6	26428.3	26313.6	26371.0	26188.1	25384.7	23767.2	22910.1	22598.0	22278.9	21801.9
47.5°	26758.3	26944.8	27127.7	27468.4	27780.4	27188.7	25420.6	24459.4	24129.4	23803.1	23333.3
50°	26700.9	26891.0	27421.8	28146.2	29114.6	28917.3	27163.6	26109.1	25804.3	25431.3	24997.4
52.5°	26241.8	26457.0	27138.5	28343.5	29885.7	30212.0	28938.8	27812.7	27525.8	27081.1	26647.1
55°	25036.8	25165.9	26188.1	27895.2	30068.6	31115.8	30678.3	29627.4	29340.5	28720.1	28246.7
57.5°	22802.5	22989.0	24477.3	26686.6	29609.5	31729.1	32206.1	31535.4	31259.3	30366.2	29871.3
60°	19886.7	20184.4	21887.9	24656.6	28440.3	31725.5	33594.0	33411.1	33181.6	31987.3	31470.8
62.5°	16587.2	16931.5	18570.5	21787.5	26396.1	30825.3	34461.9	34982.0	34863.6	33482.8	32822.9
65°	12739.0	12975.7	14607.5	18075.6	23214.9	28892.2	34562.3	36054.3	36075.8	34619.7	33529.5
67.5°	8481.9	9163.3	10579.9	13563.8	18954.2	25732.6	33680.1	36230.0	36438.0	35010.6	33174.4
70°	4138.7	5035.3	6423.3	8815.4	13563.8	20887.3	31374.0	34788.3	35250.9	33870.2	31058.4
72.5°	1717.9	2008.4	2765.1	4350.3	7786.1	14094.6	26740.4	30879.1	31736.2	30011.2	26112.7
75°	1158.4	1255.2	1581.6	2230.8	3547.0	6950.5	19284.2	23024.8	24405.6	22666.2	18527.5
77.5°	893.0	954.0	1151.2	1560.1	2108.8	2628.8	10321.7	13875.9	14589.6	13506.5	9640.3
80°	702.9	749.6	860.7	1136.9	1495.5	1405.9	3518.3	6287.0	6699.4	5619.9	3098.7
82.5°	609.7	627.6	616.9	771.1	993.4	821.3	1154.8	2320.4	2560.7	1857.8	1011.4
85°	441.1	491.3	512.9	477.0	527.2	416.0	473.4	821.3	903.8	806.9	570.2
87.5°	179.3	265.4	326.4	308.4	193.7	118.4	147.0	240.3	276.2	301.3	186.5
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°	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9	7570.9
2.5°	7578.1	7603.2	7621.1	7642.7	7657.0	7678.5	7721.6	7746.7	7750.3	7768.2	7764.6
5°	7646.3	7682.1	7721.6	7778.9	7843.5	7897.3	7979.8	8037.2	8058.7	8076.6	8073.0
7.5°	7793.3	7843.5	7915.2	8015.7	8108.9	8180.6	8281.0	8349.2	8417.3	8442.4	8446.0
10°	8012.1	8083.8	8187.8	8324.1	8424.5	8517.8	8621.8	8679.1	8747.3	8776.0	8790.3
12.5°	8284.6	8359.9	8496.2	8686.3	8779.6	8844.1	8880.0	8865.6	8880.0	8905.1	8912.3
15°	8596.7	8679.1	8833.4	9037.8	9102.3	9045.0	8966.1	8894.3	8883.6	8890.7	8915.8
17.5°	8966.1	9027.0	9206.3	9378.5	9331.9	9095.2	8923.0	8808.3	8750.9	8732.9	8758.0
20°	9482.5	9482.5	9629.5	9737.1	9425.1	9023.4	8754.5	8568.0	8449.6	8399.4	8388.6
22.5°	10110.1	10052.7	10146.0	10070.7	9407.2	8822.6	8449.6	8126.8	7947.5	7875.8	7865.0
25°	10906.3	10838.2	10813.1	10346.8	9278.1	8503.4	7897.3	7506.4	7348.6	7309.1	7316.3
27.5°	12107.8	11935.6	11609.2	10497.5	9041.4	8001.3	7251.7	6889.5	6799.9	6803.4	6814.2
30°	13707.3	13363.0	12563.2	10522.6	8654.0	7291.2	6591.8	6333.6	6290.6	6308.5	6369.5
32.5°	15188.5	14862.1	13538.7	10407.8	8058.7	6595.4	6000.1	5827.9	5763.4	5784.9	5813.6
35°	16350.5	16260.8	14442.5	10246.4	7327.1	5942.7	5469.3	5322.2	5196.7	5168.0	5189.6
37.5°	17447.9	17412.1	15120.4	10020.5	6602.6	5480.1	5042.5	4848.8	4665.9	4565.5	4569.1
40°	18653.0	18617.1	15565.1	9672.6	5960.6	5078.4	4658.8	4404.1	4178.2	3995.3	4013.2
42.5°	20008.6	19797.0	15776.7	9174.1	5415.5	4737.7	4346.7	4002.4	3704.8	3536.2	3547.0
45°	21489.8	21012.8	15773.1	8539.3	4956.4	4425.6	4013.2	3525.5	3249.3	3091.5	3084.3
47.5°	23060.7	22174.8	15579.4	7836.3	4511.7	4081.3	3496.8	3123.8	2940.9	2844.0	2822.5
50°	24681.8	23261.5	15249.5	7029.4	4056.2	3690.4	3174.0	2919.3	2779.5	2689.8	2657.5
52.5°	26206.0	24247.8	14851.4	6114.8	3593.6	3310.3	3030.5	2833.3	2686.2	2585.8	2542.8
55°	27622.6	25097.8	14288.3	5178.8	3217.0	3055.6	2962.4	2797.4	2628.8	2510.5	2463.9
57.5°	28881.5	25650.1	13316.4	4300.1	2948.0	2879.9	2890.7	2736.4	2542.8	2442.4	2377.8
60°	29928.7	26055.4	11878.2	3486.0	2729.3	2707.7	2779.5	2621.7	2395.7	2281.0	2230.8
62.5°	30556.3	26048.2	10113.7	2854.8	2542.8	2549.9	2632.4	2478.2	2248.7	2141.1	2108.8
65°	30502.5	25409.8	8177.0	2442.4	2363.5	2370.6	2478.2	2320.4	2126.7	2062.2	2058.6
67.5°	29423.0	23853.3	6272.7	2173.4	2166.2	2198.5	2324.0	2212.8	2051.4	2044.3	2055.0
70°	26500.1	20621.9	4518.9	1958.2	1961.8	2008.4	2173.4	2144.7	2012.0	2026.3	2022.7
72.5°	21249.5	15722.9	3034.1	1732.2	1735.8	1811.1	2029.9	2090.9	1972.5	2162.6	2191.3
75°	14152.0	9805.3	1951.0	1492.0	1495.5	1592.4	1904.4	1986.9	1864.9	2155.4	2173.4
77.5°	6799.9	4407.7	1413.1	1255.2	1255.2	1344.9	1646.2	1778.9	1588.8	1674.9	1535.0
80°	2349.1	1656.9	1111.8	1011.4	989.9	1050.8	1387.9	1542.2	1370.0	1262.4	1183.5
82.5°	925.3	860.7	893.0	785.4	713.7	753.1	1079.5	1273.2	1007.8	911.0	907.4
85°	530.8	559.5	631.2	520.0	412.4	462.6	792.6	914.5	760.3	670.7	685.0
87.5°	143.5	197.3	290.5	269.0	186.5	197.3	376.6	505.7	437.5	337.1	347.9
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)