

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: P944347

Luminaire Tested: **GALN-SB9B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944347
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-SB9B-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51324 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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

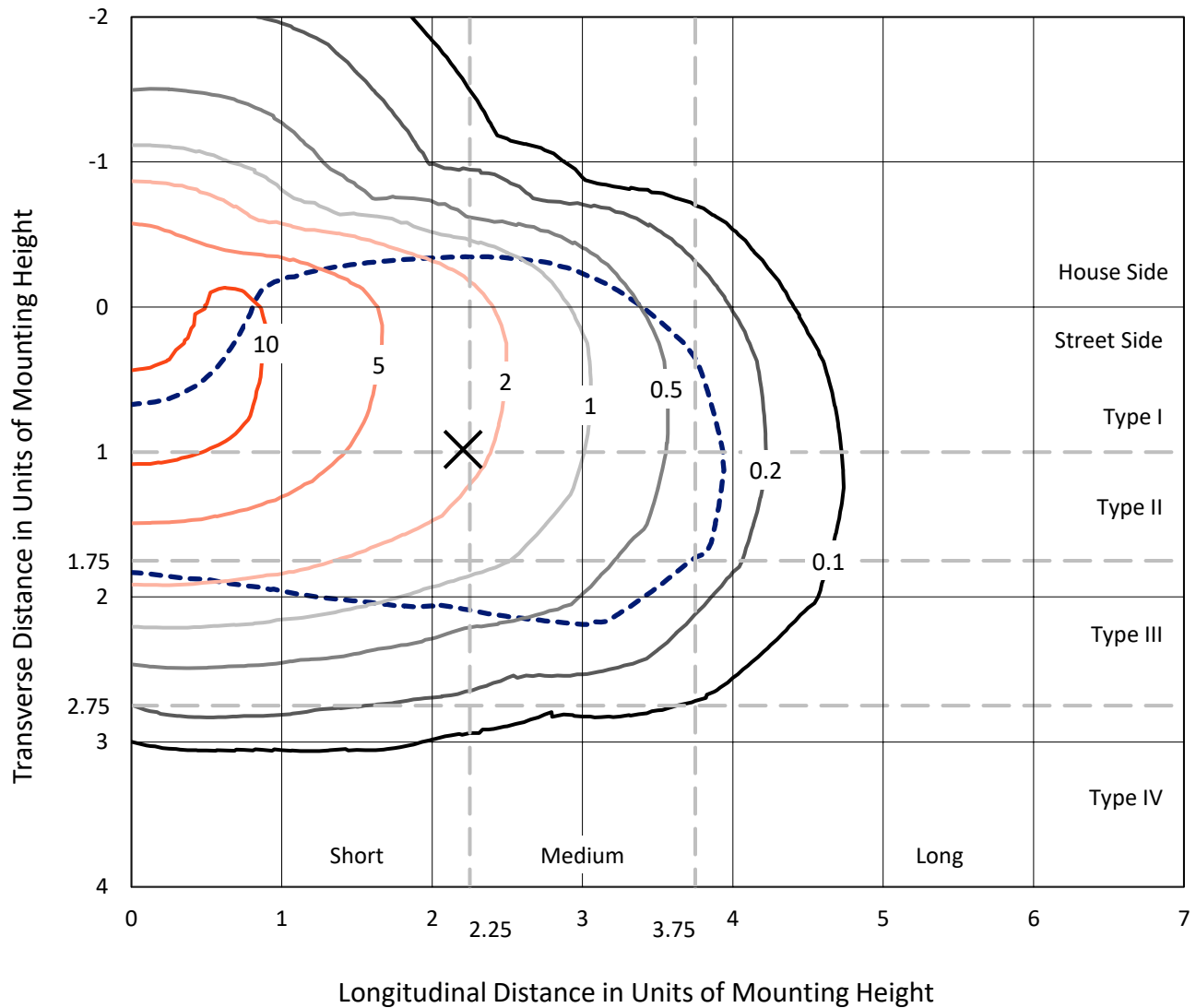


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

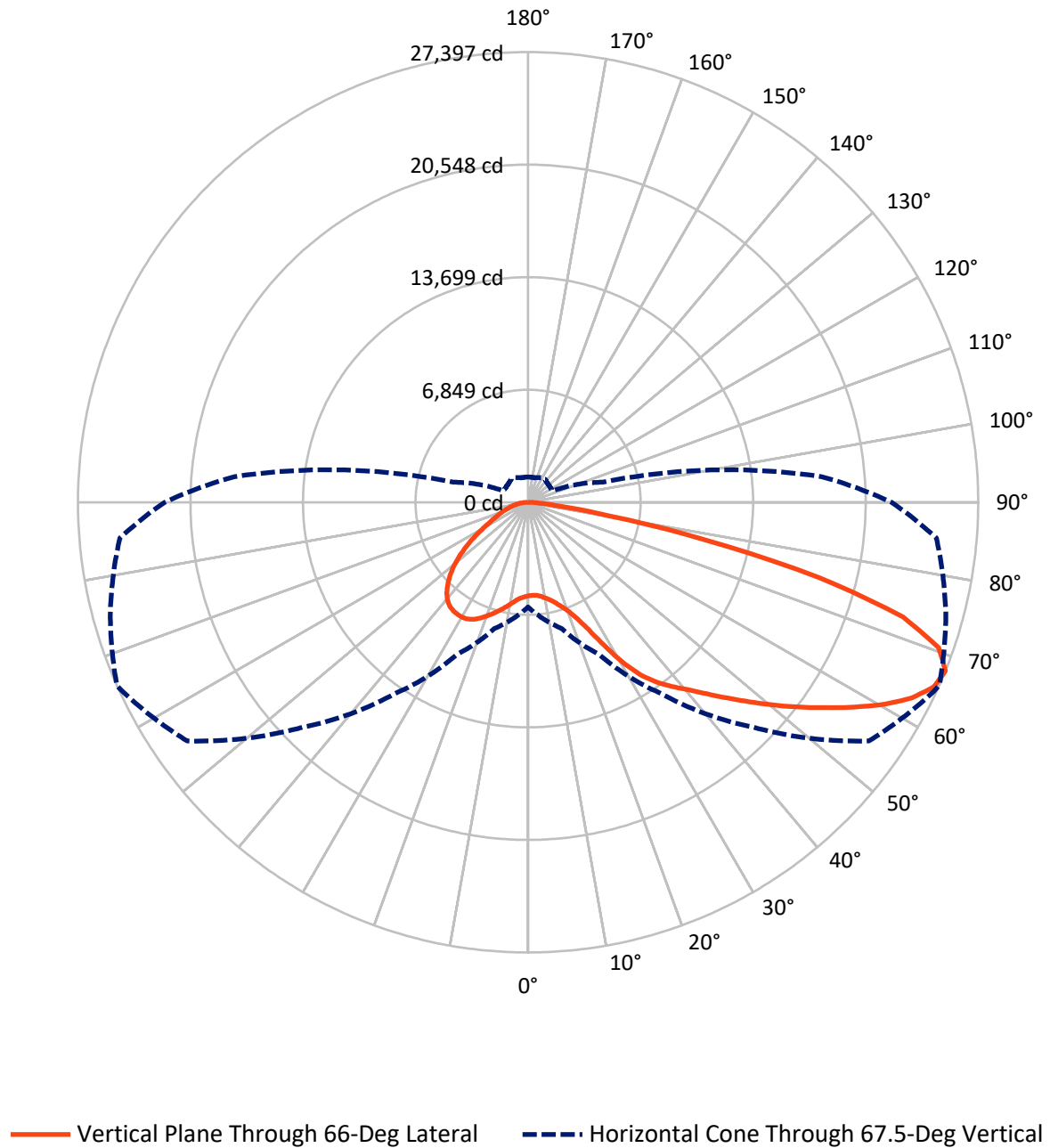


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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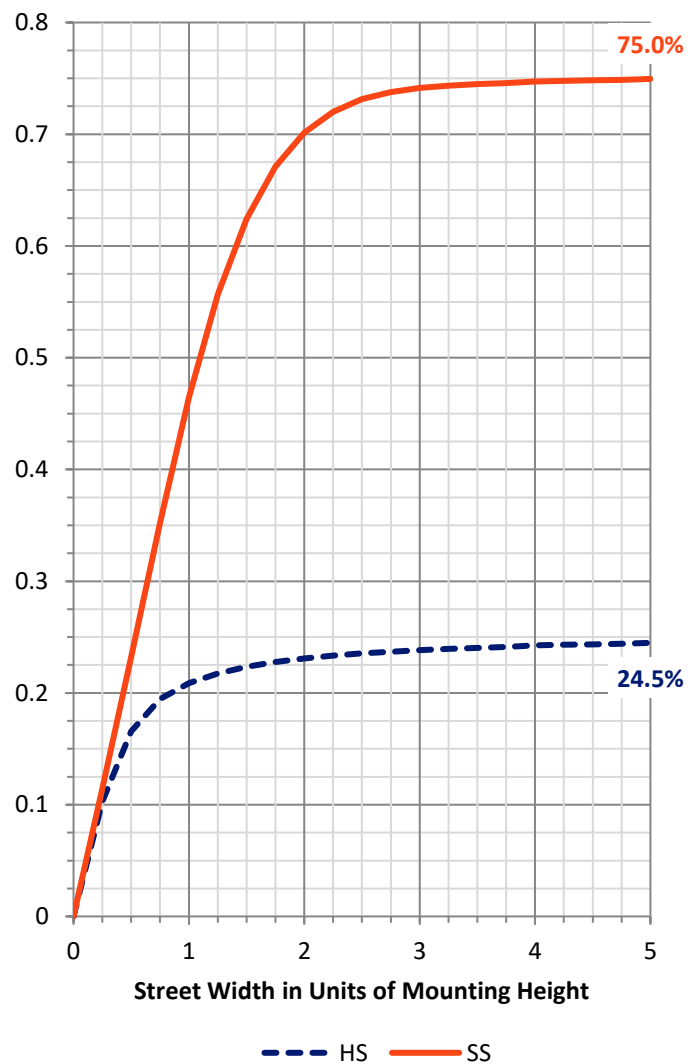
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12761.6	0.0	12761.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	38562.4	0.0	38562.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	51324.0	0.0	51324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.4	1.1
10°-20°	1864.7	3.6
20°-30°	3594.0	7.0
30°-40°	6301.7	12.3
40°-50°	9368.5	18.3
50°-60°	11875.5	23.1
60°-70°	11619.9	22.6
70°-80°	5542.8	10.8
80°-90°	592.4	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°	51324.0	100.0
0°-180°	51324.0	100.0

Coefficient of Utilization



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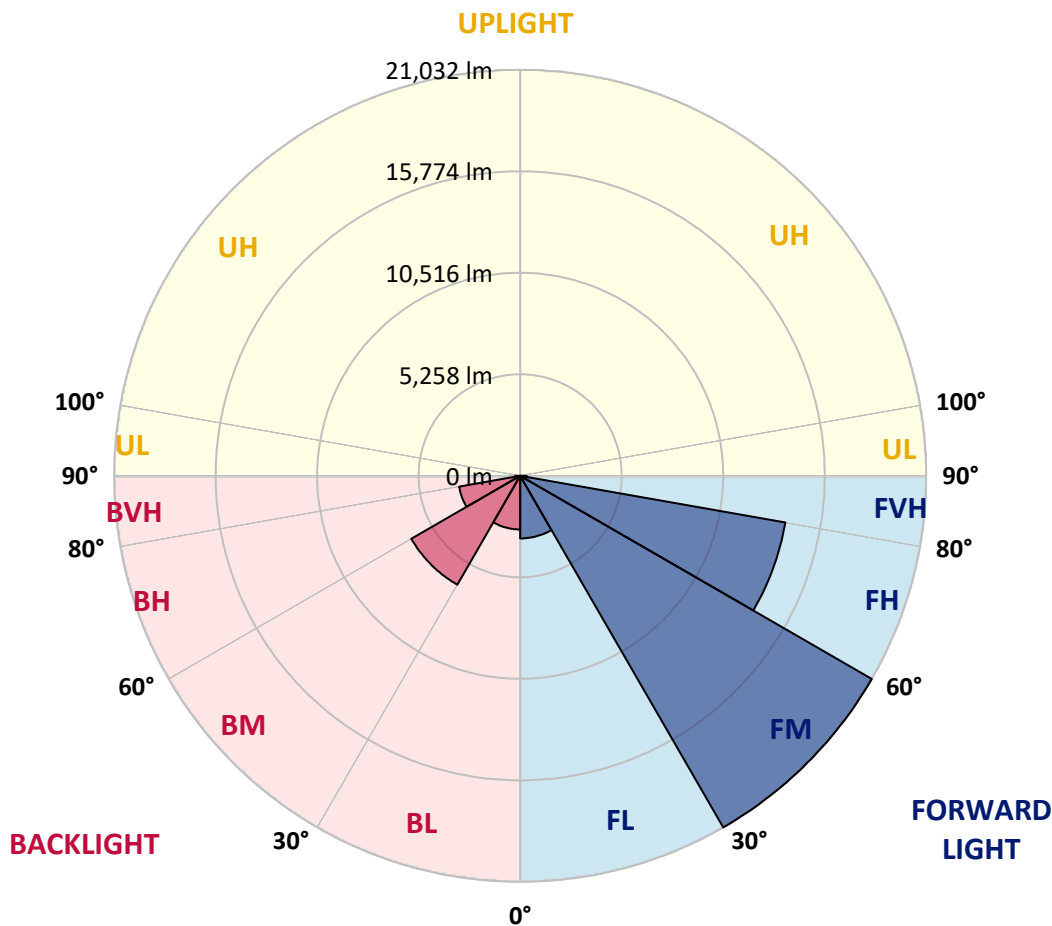
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3243.2	6.3			
FM	(30°-60°)	21032.1	41.0			
FH	(60°-80°)	13951.3	27.2			G5
FVH	(80°-90°)	335.9	0.7			G3/500
BL	(0°-30°)	2779.9	5.4	B4/5000		
BM	(30°-60°)	6513.6	12.7	B4/8500		
BH	(60°-80°)	3211.5	6.3	B4/5000		G4/5000
BVH	(80°-90°)	256.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5
2.5°	5633.2	5665.5	5657.5	5644.0	5641.3	5646.7	5654.8	5662.8	5660.2	5673.6	5695.2
5°	5617.0	5649.4	5646.7	5646.7	5657.5	5679.0	5692.5	5706.0	5692.5	5708.7	5738.4
7.5°	5627.8	5652.1	5662.8	5673.6	5700.6	5741.0	5773.4	5803.1	5786.9	5805.8	5843.5
10°	5765.3	5784.2	5795.0	5795.0	5813.9	5859.7	5892.1	5946.0	5932.5	5962.2	6010.7
12.5°	6016.1	6035.0	6035.0	6024.2	6037.7	6067.3	6078.1	6137.4	6113.2	6161.7	6210.3
15°	6323.5	6361.3	6331.6	6312.7	6318.1	6347.8	6345.1	6390.9	6366.7	6407.1	6450.3
17.5°	6663.3	6711.8	6663.3	6660.6	6649.8	6682.2	6684.9	6725.3	6682.2	6711.8	6741.5
20°	7065.1	7132.5	7092.0	7105.5	7081.3	7094.7	7108.2	7167.5	7100.1	7121.7	7113.6
22.5°	7631.4	7712.3	7669.1	7720.3	7704.2	7693.4	7690.7	7795.9	7690.7	7698.8	7620.6
25°	8456.5	8553.6	8478.1	8548.2	8548.2	8583.3	8623.7	8758.5	8583.3	8532.0	8329.8
27.5°	9675.4	9772.5	9624.1	9667.3	9653.8	9740.1	9697.0	10031.3	9842.6	9759.0	9351.8
30°	11142.3	11314.9	11034.5	11023.7	11010.2	11147.7	11209.7	11430.9	11239.4	11155.8	10665.0
32.5°	12727.9	12908.6	12574.2	12477.1	12425.9	12509.5	12458.3	12636.2	12504.1	12374.7	11767.9
35°	14405.2	14583.2	14265.0	14076.2	13871.3	13696.0	13512.6	13558.5	13434.4	13237.6	12609.3
37.5°	15990.8	16317.1	15980.0	15777.8	15400.2	15057.8	14545.4	14332.4	14216.4	14035.8	13402.1
40°	17606.1	17792.1	17536.0	17363.4	16953.5	16416.9	15597.1	15146.8	14990.4	14815.1	14278.5
42.5°	18795.3	18973.2	18835.7	18717.1	18396.2	17773.3	16713.5	16149.9	15923.4	15726.5	15270.8
45°	19739.1	19871.2	19784.9	19828.1	19690.5	19086.5	17870.3	17225.8	16991.2	16751.2	16392.6
47.5°	20119.3	20259.5	20397.0	20653.2	20887.8	20442.9	19113.5	18390.8	18142.7	17897.3	17544.0
50°	20076.1	20219.1	20618.2	21162.9	21890.9	21742.6	20424.0	19631.2	19402.0	19121.5	18795.3
52.5°	19731.0	19892.8	20405.1	21311.2	22470.7	22716.1	21758.8	20912.1	20696.4	20362.0	20035.7
55°	18824.9	18922.0	19690.5	20974.1	22608.2	23395.6	23066.7	22276.6	22060.8	21594.3	21238.4
57.5°	17144.9	17285.2	18404.3	20065.4	22263.1	23856.8	24215.4	23711.2	23503.5	22832.1	22459.9
60°	14952.6	15176.4	16457.3	18539.1	21384.0	23854.1	25259.0	25121.5	24948.9	24050.9	23662.6
62.5°	12471.7	12730.6	13963.0	16381.8	19846.9	23177.2	25911.6	26302.6	26213.6	25175.4	24679.2
65°	9578.3	9756.3	10983.2	13590.8	17455.1	21723.8	25987.1	27108.9	27125.0	26030.2	25210.5
67.5°	6377.4	6889.8	7955.0	10198.5	14251.5	19348.1	25323.7	27241.0	27397.4	26324.2	24943.5
70°	3111.9	3786.0	4829.6	6628.2	10198.5	15705.0	23589.8	26157.0	26504.8	25466.6	23352.5
72.5°	1291.7	1510.1	2079.1	3271.0	5854.3	10597.6	20105.8	23217.7	23862.2	22565.1	19633.9
75°	871.0	943.8	1189.2	1677.3	2666.9	5226.0	14499.6	17312.1	18350.3	17042.5	13930.6
77.5°	671.5	717.3	865.6	1173.0	1585.6	1976.6	7760.8	10433.1	10969.7	10155.4	7248.4
80°	528.5	563.6	647.2	854.8	1124.5	1057.1	2645.4	4727.1	5037.2	4225.6	2329.9
82.5°	458.4	471.9	463.8	579.8	747.0	617.5	868.3	1744.7	1925.4	1396.8	760.4
85°	331.7	369.4	385.6	358.6	396.4	312.8	356.0	617.5	679.5	606.7	428.8
87.5°	134.8	199.5	245.4	231.9	145.6	89.0	110.6	180.7	207.6	226.5	140.2
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°	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5	5692.5
2.5°	5697.9	5716.8	5730.3	5746.4	5757.2	5773.4	5805.8	5824.6	5827.3	5840.8	5838.1
5°	5749.1	5776.1	5805.8	5848.9	5897.5	5937.9	5999.9	6043.1	6059.2	6072.7	6070.0
7.5°	5859.7	5897.5	5951.4	6026.9	6097.0	6150.9	6226.4	6277.7	6328.9	6347.8	6350.5
10°	6024.2	6078.1	6156.3	6258.8	6334.3	6404.4	6482.6	6525.8	6577.0	6598.6	6609.4
12.5°	6229.1	6285.8	6388.2	6531.2	6601.3	6649.8	6676.8	6666.0	6676.8	6695.6	6701.0
15°	6463.7	6525.8	6641.7	6795.4	6844.0	6800.8	6741.5	6687.6	6679.5	6684.9	6703.7
17.5°	6741.5	6787.3	6922.2	7051.6	7016.5	6838.6	6709.1	6622.8	6579.7	6566.2	6585.1
20°	7129.8	7129.8	7240.4	7321.3	7086.6	6784.6	6582.4	6442.2	6353.2	6315.4	6307.3
22.5°	7601.7	7558.6	7628.7	7572.0	7073.2	6633.6	6353.2	6110.5	5975.7	5921.7	5913.6
25°	8200.3	8149.1	8130.2	7779.7	6976.1	6393.6	5937.9	5644.0	5525.3	5495.7	5501.1
27.5°	9103.7	8974.3	8728.9	7892.9	6798.1	6016.1	5452.5	5180.2	5112.7	5115.4	5123.5
30°	10306.4	10047.5	9446.2	7911.8	6506.9	5482.2	4956.3	4762.2	4729.8	4743.3	4789.2
32.5°	11420.1	11174.7	10179.6	7825.5	6059.2	4959.0	4511.4	4382.0	4333.4	4349.6	4371.2
35°	12293.8	12226.4	10859.2	7704.2	5509.1	4468.3	4112.3	4001.7	3907.4	3885.8	3902.0
37.5°	13118.9	13092.0	11368.8	7534.3	4964.4	4120.4	3791.4	3645.8	3508.3	3432.8	3435.5
40°	14025.0	13998.0	11703.2	7272.7	4481.7	3818.4	3502.9	3311.4	3141.5	3004.0	3017.5
42.5°	15044.3	14885.2	11862.3	6897.9	4071.9	3562.2	3268.3	3009.4	2785.6	2658.8	2666.9
45°	16158.0	15799.3	11859.6	6420.6	3726.7	3327.6	3017.5	2650.8	2443.1	2324.5	2319.1
47.5°	17339.1	16673.0	11714.0	5892.1	3392.3	3068.7	2629.2	2348.7	2211.2	2138.4	2122.2
50°	18558.0	17490.1	11465.9	5285.3	3049.8	2774.8	2386.5	2195.0	2089.9	2022.4	1998.2
52.5°	19704.0	18231.7	11166.6	4597.7	2702.0	2489.0	2278.6	2130.3	2019.7	1944.2	1911.9
55°	20769.2	18870.8	10743.2	3893.9	2418.8	2297.5	2227.4	2103.3	1976.6	1887.6	1852.6
57.5°	21715.7	19286.0	10012.5	3233.2	2216.6	2165.4	2173.5	2057.5	1911.9	1836.4	1787.8
60°	22503.1	19590.8	8931.1	2621.1	2052.1	2035.9	2089.9	1971.2	1801.3	1715.0	1677.3
62.5°	22975.0	19585.4	7604.4	2146.5	1911.9	1917.3	1979.3	1863.3	1690.8	1609.9	1585.6
65°	22934.5	19105.4	6148.2	1836.4	1777.1	1782.4	1863.3	1744.7	1599.1	1550.5	1547.8
67.5°	22122.9	17935.0	4716.3	1634.1	1628.7	1653.0	1747.4	1663.8	1542.5	1537.1	1545.1
70°	19925.1	15505.4	3397.7	1472.3	1475.0	1510.1	1634.1	1612.6	1512.8	1523.6	1520.9
72.5°	15977.3	11821.9	2281.3	1302.5	1305.2	1361.8	1526.3	1572.1	1483.1	1626.0	1647.6
75°	10640.8	7372.5	1466.9	1121.8	1124.5	1197.3	1431.9	1493.9	1402.2	1620.7	1634.1
77.5°	5112.7	3314.1	1062.5	943.8	943.8	1011.2	1237.7	1337.5	1194.6	1259.3	1154.1
80°	1766.3	1245.8	835.9	760.4	744.3	790.1	1043.6	1159.5	1030.1	949.2	889.9
82.5°	695.7	647.2	671.5	590.6	536.6	566.3	811.7	957.3	757.7	684.9	682.2
85°	399.1	420.7	474.6	391.0	310.1	347.9	595.9	687.6	571.7	504.3	515.0
87.5°	107.9	148.3	218.4	202.2	140.2	148.3	283.1	380.2	329.0	253.5	261.6
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)