

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: P954472

Luminaire Tested: **GALN-SB7D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60801 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 512.8
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

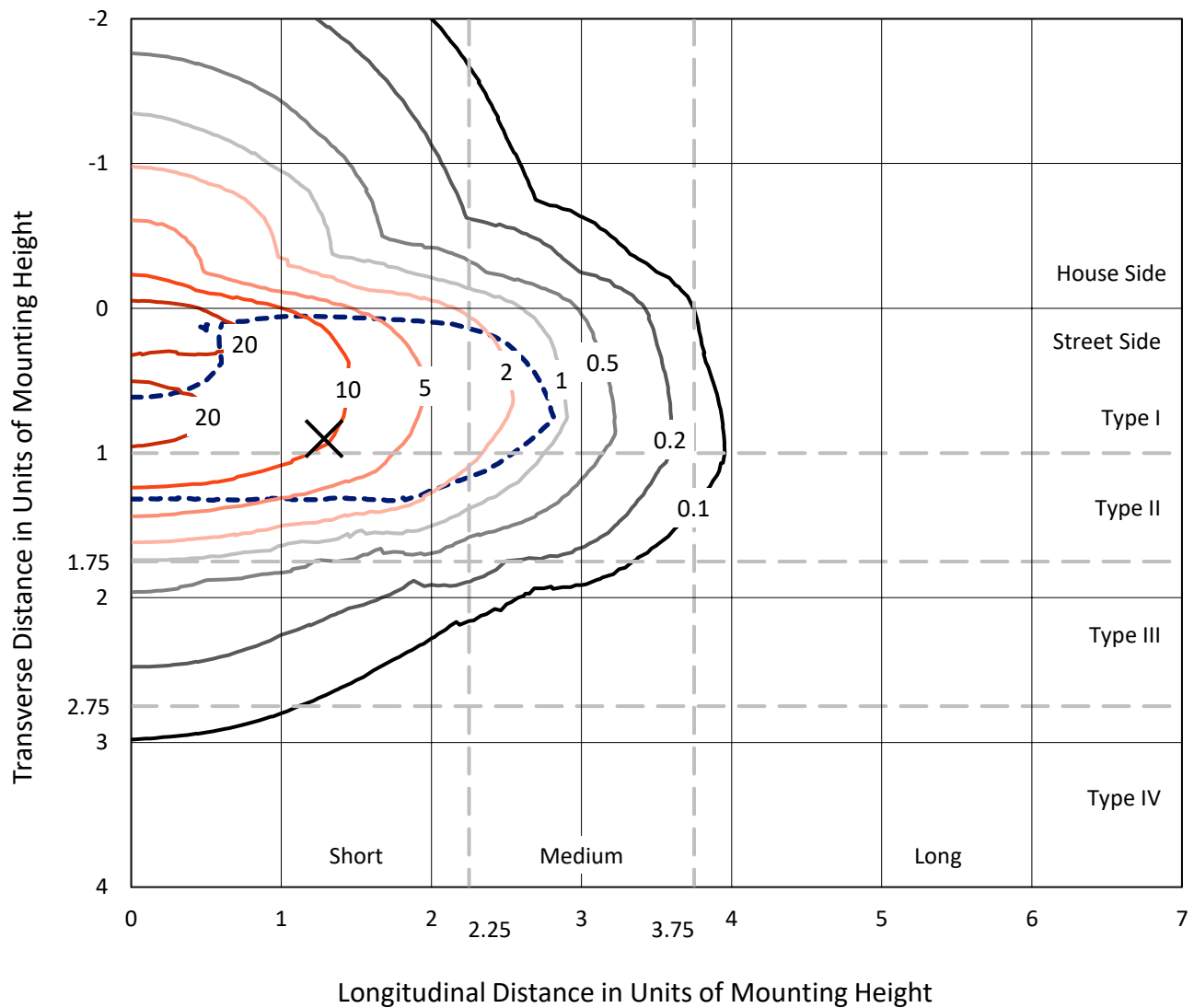


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

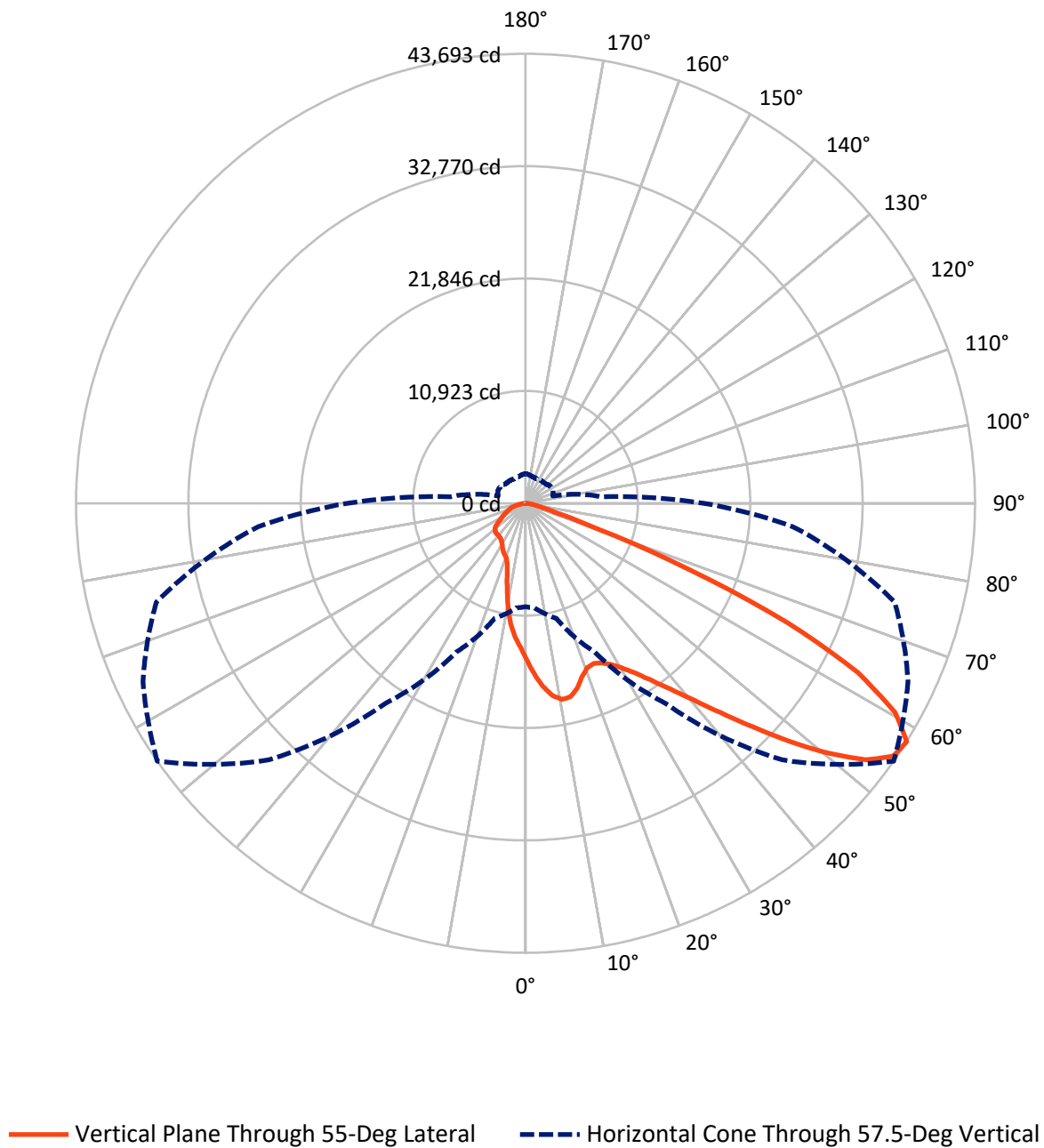


Based on 25 foot mounting height. Maximum calculated value = 29.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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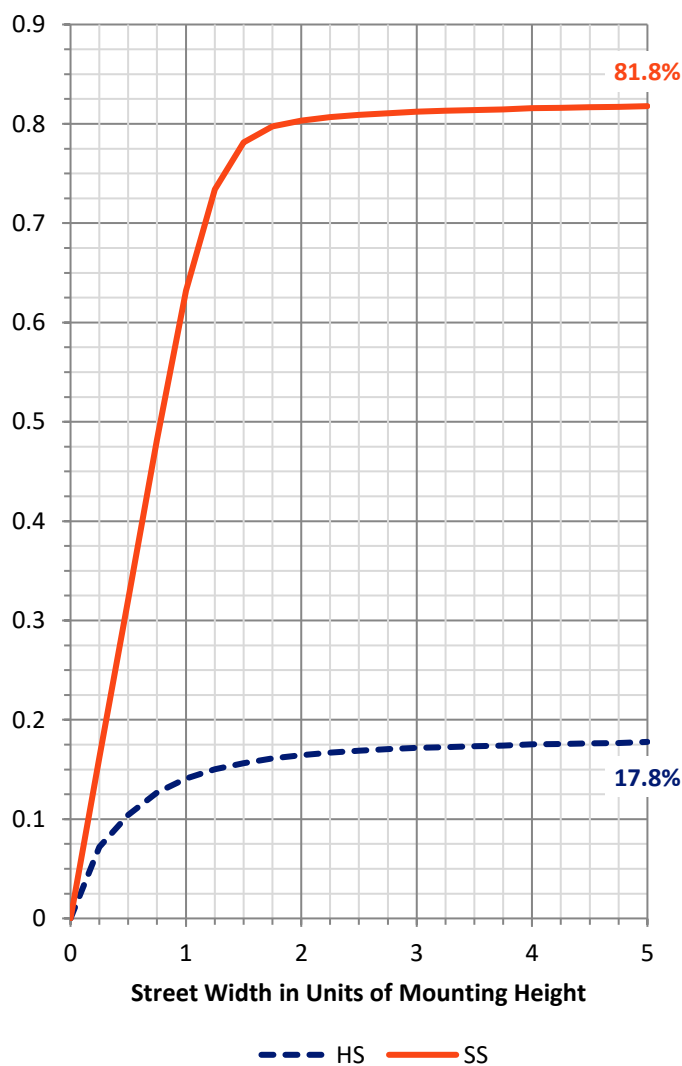
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11001.6	0.0	11001.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49799.4	0.0	49799.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	60801.0	0.0	60801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.7	2.3
10°-20°	3568.2	5.9
20°-30°	5693.9	9.4
30°-40°	9014.8	14.8
40°-50°	13798.1	22.7
50°-60°	14779.1	24.3
60°-70°	9297.6	15.3
70°-80°	2749.5	4.5
80°-90°	486.1	0.8
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°	60801.0	100.0
0°-180°	60801.0	100.0

Coefficient of Utilization



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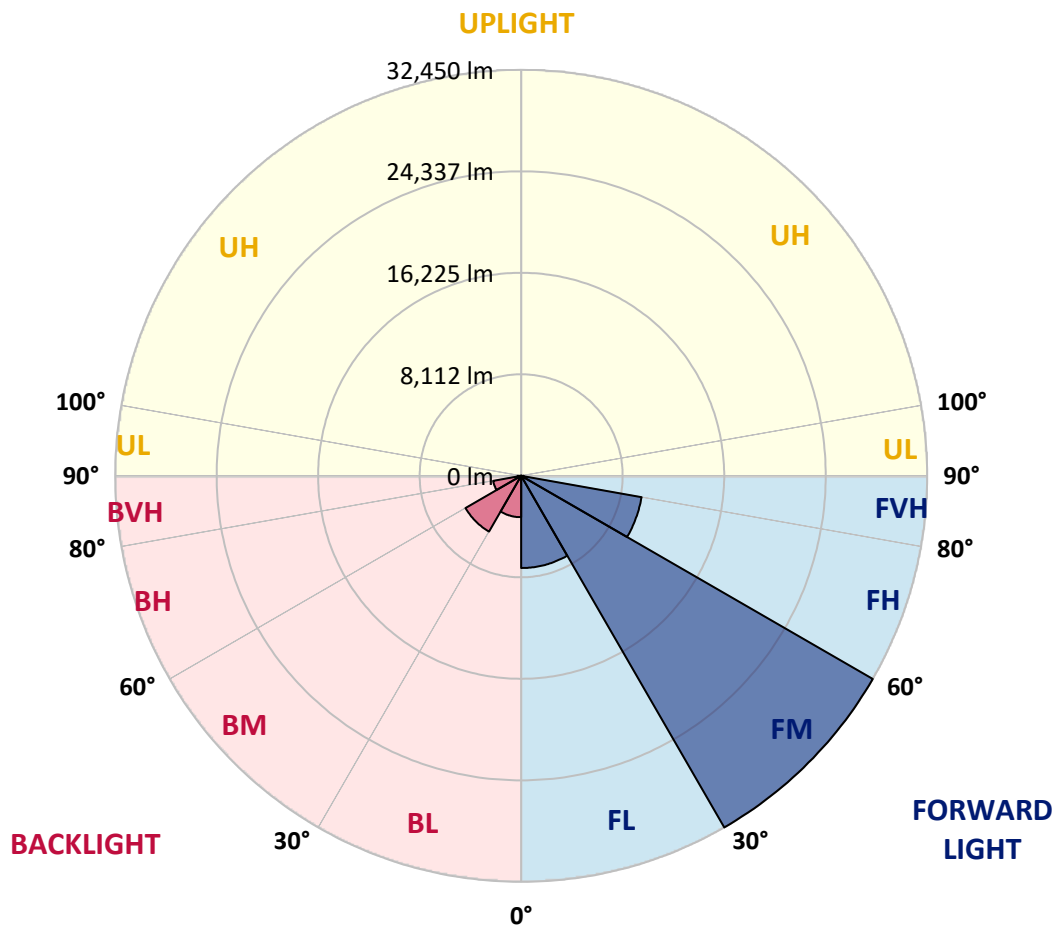
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7369.1	12.1			
FM	(30°-60°)	32449.9	53.4			
FH	(60°-80°)	9774.9	16.1			G4/12000
FVH	(80°-90°)	205.4	0.3			G2/225
BL	(0°-30°)	3306.7	5.4	B4/5000		
BM	(30°-60°)	5142.1	8.5	B4/8500		
BH	(60°-80°)	2272.1	3.7	B3/2500		G3/2500
BVH	(80°-90°)	280.7	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8
2.5°	17479.0	17466.4	17535.5	17299.8	17139.5	16922.6	16636.6	16272.0	15879.1	15464.2	15285.0
5°	19053.7	18943.7	19015.9	18839.9	18663.9	18337.0	17912.7	17318.7	16592.6	15765.9	15325.9
7.5°	18805.4	18729.9	18915.4	19072.5	19204.5	19163.7	18852.5	18230.2	17293.5	16092.8	15454.8
10°	16803.2	16718.3	16979.2	17523.0	18321.3	19015.9	19393.1	19006.5	18010.1	16451.1	15580.5
12.5°	15036.7	14995.9	15168.8	15608.8	16495.2	17827.8	19324.0	19685.4	18755.1	16875.5	15750.2
15°	14282.4	14232.1	14342.1	14565.3	15131.0	16372.6	18695.3	20150.6	19487.4	17365.8	16020.5
17.5°	14115.8	14059.2	14106.4	14222.7	14587.3	15533.4	17746.1	20380.1	20251.2	17912.7	16246.8
20°	14423.8	14376.7	14383.0	14376.7	14631.3	15382.5	17086.1	20292.1	20917.5	18415.6	16466.9
22.5°	15168.8	15090.2	15093.3	14926.7	15065.0	15646.5	16913.2	20056.3	21511.6	18855.6	16633.5
25°	16382.0	16240.6	16268.8	15844.5	15806.8	16237.4	17183.5	19874.0	22102.5	19207.7	16664.9
27.5°	18041.6	17881.3	17796.4	17164.6	16862.9	17076.6	17733.5	19936.9	22662.0	19512.6	16586.3
30°	20116.0	19921.2	19748.3	18852.5	18305.6	18227.0	18588.5	20351.8	23322.0	19833.2	16451.1
32.5°	22658.8	22432.5	22118.2	20930.1	20160.0	19748.3	19694.9	21090.4	24095.2	20241.8	16382.0
35°	25685.7	25390.2	24943.9	23406.9	22432.5	21590.2	21153.3	22155.9	25154.5	20857.8	16460.6
37.5°	28803.7	28470.5	28061.9	26232.6	25035.0	23793.5	22932.3	23601.8	26565.7	21693.9	16668.0
40°	31679.6	31305.6	30925.3	29297.1	28011.6	26515.5	25110.5	25431.1	28291.3	22693.4	17020.1
42.5°	33376.9	33100.3	32955.7	32075.7	31082.4	29564.3	27819.9	27599.8	30230.6	23843.8	17422.4
45°	33301.5	33188.3	33634.6	33999.3	33763.5	32921.2	30994.4	29998.0	32176.2	24840.2	17793.3
47.5°	31522.5	31597.9	32594.3	34643.6	35545.7	35985.7	34609.0	32352.2	33867.2	25585.1	17959.9
50°	26682.0	26744.9	29052.0	33471.2	36004.6	38484.5	38195.3	34649.9	35177.9	26040.8	17922.1
52.5°	22850.6	22891.4	23881.5	29994.9	34489.6	39741.8	41426.5	36815.5	36136.6	26166.6	17711.5
55°	17211.8	17353.2	18462.8	23532.6	30548.1	38745.4	43394.1	39047.1	36743.2	26179.1	17491.5
57.5°	10054.9	10208.9	11579.3	15973.4	23743.2	35272.2	43692.7	41027.3	37155.0	26078.6	17359.5
60°	4925.3	4991.3	5588.5	8395.3	14640.7	28580.5	41291.3	41985.9	37384.4	26025.1	17353.2
62.5°	3319.1	3309.7	3334.9	4142.6	7213.5	18362.2	36287.4	40307.5	37261.8	25820.8	17290.4
65°	2854.0	2819.4	2725.1	2907.4	3737.2	8398.4	28036.7	35297.4	36328.3	25308.5	16859.8
67.5°	2467.4	2470.5	2473.6	2417.1	2668.5	3875.5	17133.2	27804.1	32977.7	22882.0	15200.2
70°	2043.0	2071.3	2083.9	2083.9	2175.0	2542.8	7314.1	19056.8	26012.6	17941.0	12242.5
72.5°	1860.7	1801.0	1807.3	1775.9	1775.9	1936.2	2945.1	10802.9	16388.3	10092.6	7471.2
75°	1518.1	1555.8	1562.1	1540.1	1467.8	1477.3	1747.6	4532.4	7012.3	4186.7	3693.2
77.5°	1310.7	1310.7	1323.3	1307.5	1251.0	1106.4	1166.1	1757.0	2385.6	1716.1	1845.0
80°	1052.9	1049.8	1103.2	1134.7	1046.7	817.2	744.9	971.2	1059.2	754.4	958.7
82.5°	512.3	543.8	757.5	864.4	795.2	590.9	455.8	603.5	565.8	333.2	430.6
85°	298.6	282.9	339.5	480.9	455.8	326.9	220.0	314.3	295.5	169.7	172.9
87.5°	94.3	88.0	69.1	163.4	132.0	91.2	59.7	91.2	81.7	37.7	37.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8	15234.8
2.5°	15061.9	14691.0	14323.2	13986.9	13782.6	13650.6	13518.6	13370.9	13314.3	13229.4
5°	14911.0	14194.4	13556.3	13006.3	12506.5	12113.6	11717.6	11397.0	11252.4	11349.8
7.5°	14823.0	13785.8	12802.0	11793.0	10821.8	10045.4	9369.7	8895.1	8681.3	8734.8
10°	14744.4	13323.7	11824.5	10230.9	8835.3	7873.5	7182.1	6820.6	6685.4	6713.7
12.5°	14672.1	12805.1	10645.8	8549.3	7065.8	6430.8	6232.8	6236.0	6261.1	6280.0
15°	14659.6	12179.6	9328.8	7078.3	6110.2	6069.4	6283.1	6418.3	6490.6	6512.6
17.5°	14640.7	11431.6	7986.7	6075.7	5877.7	6154.3	6352.3	6440.3	6496.9	6500.0
20°	14565.3	10482.3	6748.3	5597.9	5827.4	6066.2	6188.8	6258.0	6305.1	6320.8
22.5°	14332.7	9426.3	5783.4	5384.2	5626.2	5817.9	5962.5	6041.1	6069.4	6088.2
25°	13914.6	8244.4	5117.0	5179.9	5346.5	5588.5	5704.8	5720.5	5711.1	5739.4
27.5°	13367.7	6977.8	4702.1	4903.3	5117.0	5324.5	5387.3	5377.9	5359.0	5390.5
30°	12707.7	5839.9	4438.1	4592.1	4884.4	5073.0	5129.6	5107.6	5069.9	5104.4
32.5°	12009.9	4909.6	4221.2	4375.2	4692.7	4878.1	4934.7	4912.7	4884.4	4912.7
35°	11359.3	4258.9	4020.1	4230.7	4541.8	4724.1	4796.4	4799.6	4799.6	4834.1
37.5°	10762.1	3878.6	3853.5	4139.5	4438.1	4601.5	4705.3	4711.6	4576.4	4585.8
40°	10208.9	3718.3	3778.0	4079.8	4337.5	4494.7	4501.0	4148.9	3900.6	3894.3
42.5°	9756.3	3686.9	3800.0	4073.5	4265.2	4271.5	3828.3	3554.9	3485.7	3488.9
45°	9332.0	3677.5	3850.3	4073.5	4158.4	3690.0	3391.4	3319.1	3325.4	3350.6
47.5°	8857.3	3639.7	3859.8	4016.9	3850.3	3281.4	3193.4	3162.0	3149.4	3155.7
50°	8338.7	3504.6	3740.3	3903.8	3322.3	3105.4	2995.4	2986.0	3001.7	3011.1
52.5°	7791.8	3284.6	3536.0	3699.5	3080.3	2951.4	2828.8	2850.8	2920.0	2942.0
55°	7433.5	3026.8	3265.7	3290.9	2910.5	2806.8	2703.1	2753.4	2882.3	2923.1
57.5°	7339.2	2753.4	2957.7	2929.4	2693.7	2681.1	2618.2	2662.2	2825.7	2885.4
60°	7310.9	2508.2	2655.9	2633.9	2483.1	2542.8	2527.1	2549.1	2605.7	2624.5
62.5°	7090.9	2313.3	2385.6	2354.2	2294.5	2398.2	2435.9	2388.8	2432.8	2454.8
65°	6531.4	2156.2	2121.6	2099.6	2124.8	2219.1	2294.5	2200.2	2241.1	2303.9
67.5°	5607.3	1942.5	1848.2	1873.3	1951.9	2002.2	2099.6	1992.7	2027.3	2134.2
70°	4535.5	1672.1	1587.3	1659.6	1735.0	1838.7	1854.4	1782.2	1863.9	1983.3
72.5°	3209.1	1398.7	1339.0	1486.7	1511.8	1647.0	1612.4	1577.9	1691.0	1731.9
75°	2225.3	1128.4	1093.8	1207.0	1298.1	1414.4	1389.3	1430.1	1669.0	1687.9
77.5°	1408.1	876.9	854.9	927.2	1052.9	1181.8	1222.7	1687.9	2850.8	2964.0
80°	817.2	653.8	628.6	685.2	795.2	914.7	1178.7	2071.3	1879.6	1857.6
82.5°	455.8	449.5	418.0	433.8	531.2	660.1	1665.9	1458.4	1185.0	1222.7
85°	213.7	264.0	226.3	216.9	298.6	773.2	1112.7	832.9	553.2	540.6
87.5°	56.6	50.3	50.3	56.6	125.7	666.3	443.2	355.2	210.6	204.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)