

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: P954884

Luminaire Tested: **GALN-SB8A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36759 lumens
Efficiency: N/A
Efficacy: 161.9 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): 227.1
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

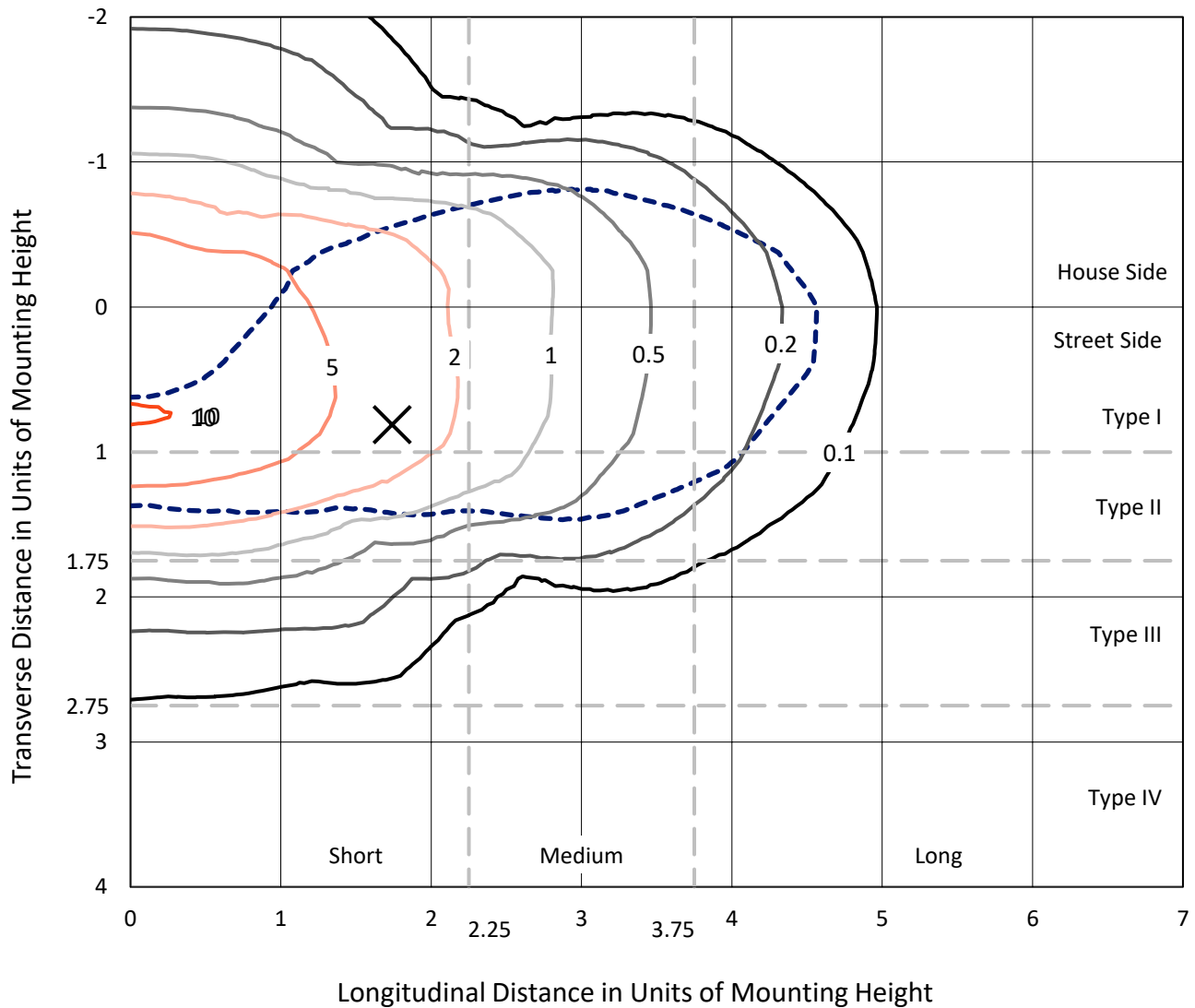


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

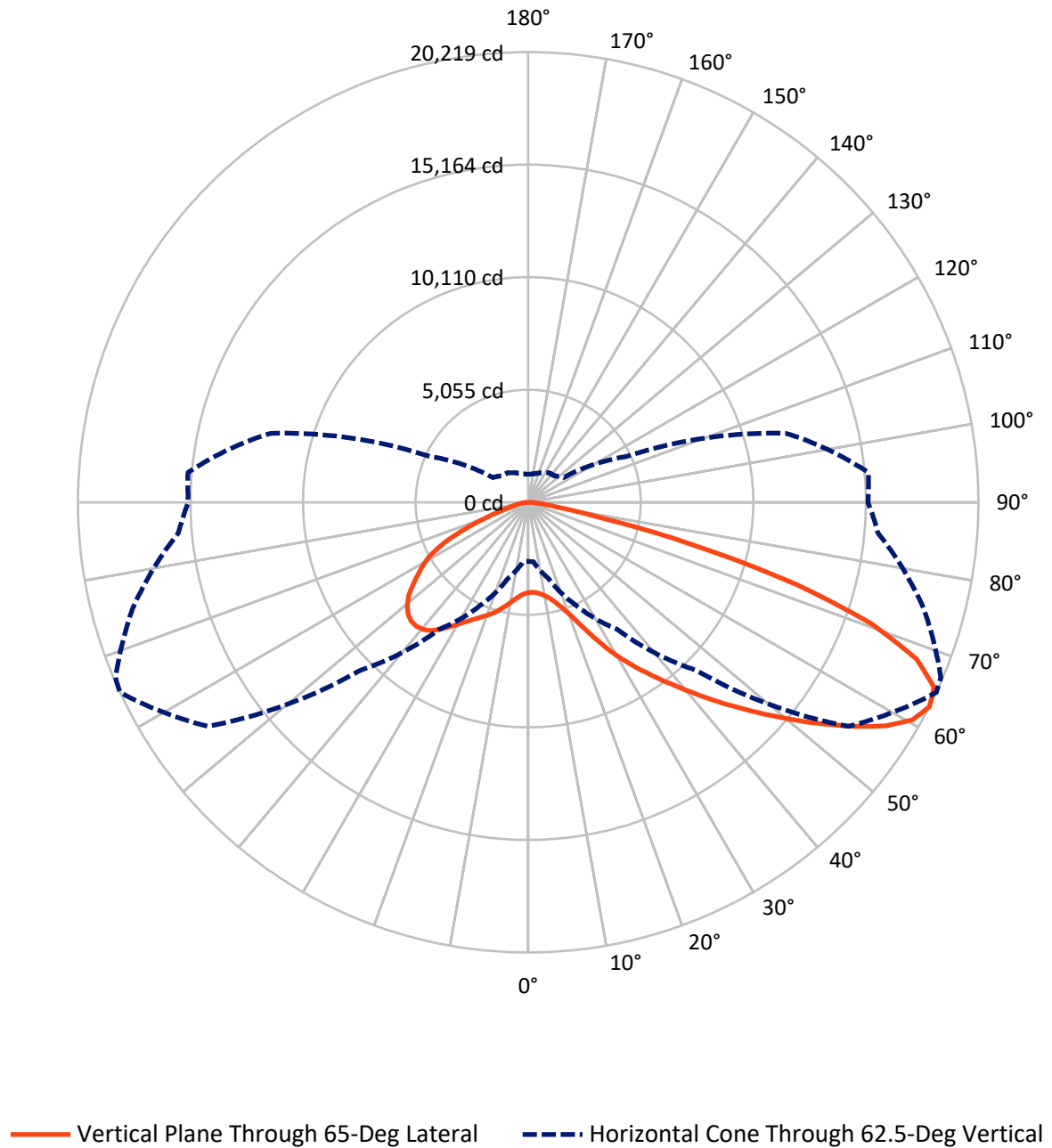


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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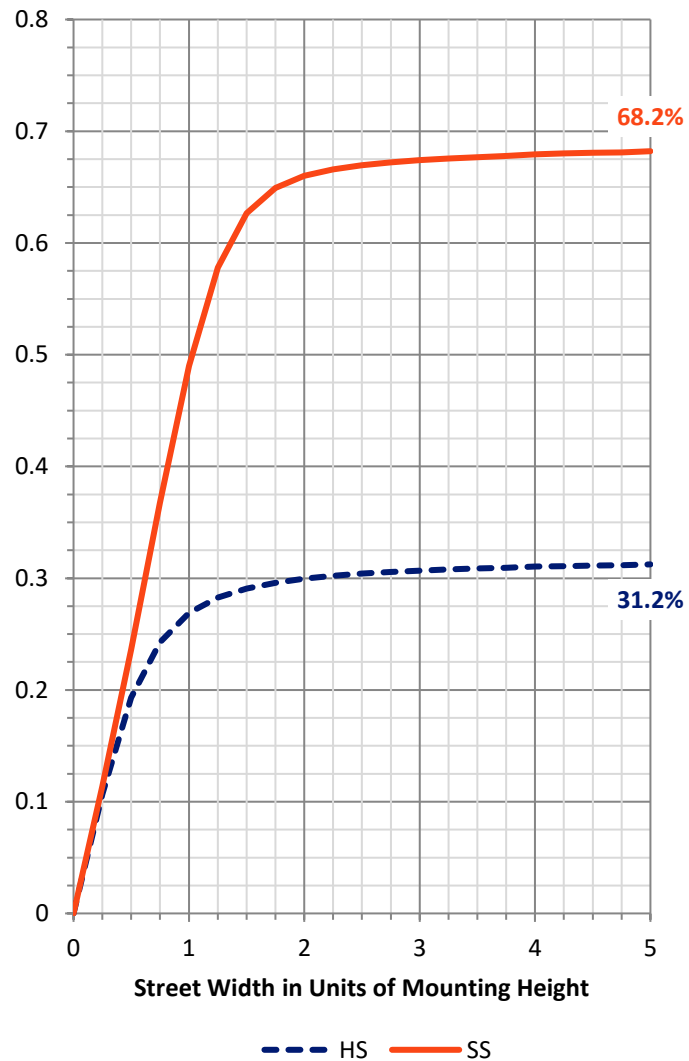
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11599.5	0.0	11599.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25159.5	0.0	25159.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	36759.0	0.0	36759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.9	1.1
10°-20°	1369.5	3.7
20°-30°	2776.8	7.6
30°-40°	4805.2	13.1
40°-50°	7271.7	19.8
50°-60°	8525.6	23.2
60°-70°	7147.7	19.4
70°-80°	3946.1	10.7
80°-90°	512.6	1.4
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°	36759.0	100.0
0°-180°	36759.0	100.0

Coefficient of Utilization



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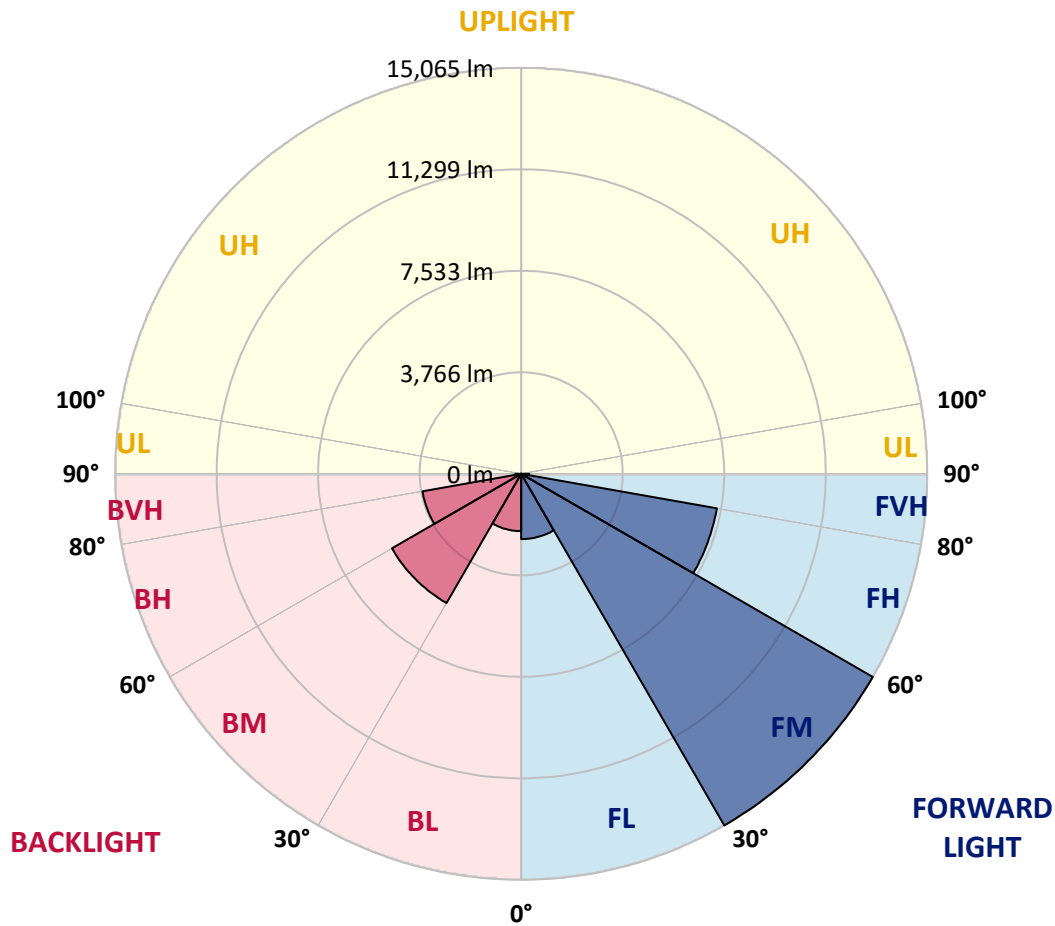
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.9	6.6			
FM	(30°-60°)	15065.0	41.0			
FH	(60°-80°)	7372.8	20.1			G3/7500
FVH	(80°-90°)	298.7	0.8			G3/500
BL	(0°-30°)	2127.2	5.8	B3/2500		
BM	(30°-60°)	5537.5	15.1	B4/8500		
BH	(60°-80°)	3721.0	10.1	B4/5000		G4/5000
BVH	(80°-90°)	213.8	0.6			G2/225
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°	67°	75°	85°
0°	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7
2.5°	4024.0	4012.5	4022.1	4022.1	4025.9	4024.0	4037.3	4041.1	4046.9	4058.3	4058.3
5°	3983.9	3982.0	3999.2	4014.4	4029.7	4043.1	4060.2	4085.0	4088.8	4102.2	4119.3
7.5°	3970.6	3959.1	3985.8	4004.9	4041.1	4073.6	4119.3	4161.3	4178.5	4184.2	4216.6
10°	4073.6	4054.5	4079.3	4090.7	4121.2	4153.7	4207.1	4273.8	4292.9	4315.8	4352.0
12.5°	4249.0	4228.0	4264.3	4281.4	4310.0	4338.7	4374.9	4439.7	4449.3	4491.2	4525.6
15°	4489.3	4464.5	4487.4	4508.4	4556.1	4582.8	4619.0	4681.9	4681.9	4714.4	4739.1
17.5°	4815.4	4783.0	4800.2	4807.8	4838.3	4878.4	4939.4	4994.7	5023.3	5011.9	4977.5
20°	5301.7	5261.7	5261.7	5223.5	5212.1	5244.5	5324.6	5400.9	5431.4	5372.3	5288.4
22.5°	6032.2	5974.9	5942.5	5812.8	5761.4	5765.2	5845.3	5938.7	5963.5	5858.6	5669.8
25°	6960.9	6871.3	6827.4	6636.7	6520.4	6419.3	6482.2	6602.4	6636.7	6507.0	6201.9
27.5°	7889.7	7895.4	7853.4	7624.6	7432.0	7247.0	7214.6	7340.4	7376.7	7229.8	6852.2
30°	9192.2	9056.8	8976.7	8702.1	8427.5	8168.1	8034.6	8086.1	8095.6	7920.2	7481.6
32.5°	10315.5	10281.2	10109.5	9869.2	9516.4	9110.2	8887.1	8805.1	8789.8	8540.0	8019.4
35°	11595.2	11576.1	11394.9	11108.9	10727.4	10162.9	9760.5	9526.0	9506.9	9156.0	8551.4
37.5°	12895.8	12895.8	12718.5	12405.7	12010.9	11305.3	10693.1	10321.2	10260.2	9802.5	9093.1
40°	13933.3	13870.3	13902.8	13771.2	13319.2	12569.7	11728.7	11189.0	11107.0	10557.7	9669.0
42.5°	14522.6	14501.6	14696.1	14843.0	14658.0	14059.1	12869.1	12129.2	12014.7	11389.2	10332.7
45°	14654.2	14631.3	14978.4	15516.2	15775.5	15529.5	14108.7	13118.9	12979.7	12258.8	11044.0
47.5°	14350.9	14305.2	14814.4	15663.0	16494.5	16927.4	15451.3	14192.6	13990.5	13105.6	11774.4
50°	13439.3	13395.5	14165.9	15293.0	16736.7	17877.2	16908.4	15331.2	15022.2	14013.4	12512.5
52.5°	11457.9	11478.8	12686.0	14234.6	16418.2	18468.4	18163.2	16530.8	16158.9	14942.1	13204.8
55°	8925.2	8971.0	10454.7	12159.7	15144.3	18378.7	19019.5	17766.6	17396.6	15815.6	13919.9
57.5°	6390.7	6592.8	7983.1	9670.9	12697.5	16957.9	19206.4	18941.3	18582.8	16769.1	14619.8
60°	4142.2	4178.5	5608.8	7309.9	9669.0	14432.9	18826.9	19831.9	19551.6	17741.8	15205.3
62.5°	2654.7	2679.5	3551.0	5112.9	6959.0	10677.9	17549.1	20219.1	20133.3	18384.5	15767.9
65°	1951.0	1931.9	2385.8	3379.4	4687.7	6585.2	15068.0	20032.2	20201.9	18786.9	16233.2
67.5°	1628.7	1602.0	1825.1	2340.0	3453.8	3739.8	11148.9	18817.4	19439.1	18741.1	16574.6
70°	1483.7	1460.8	1596.2	1737.4	2694.7	2504.0	5620.2	16359.1	17316.5	18220.4	16519.3
72.5°	1256.8	1216.7	1401.7	1542.8	2095.9	1920.5	2322.8	12565.9	13733.0	16551.7	15741.2
75°	974.5	947.8	1106.1	1357.9	1575.3	1499.0	1468.5	7630.3	8904.3	12800.5	13771.2
77.5°	772.4	736.1	881.1	1058.4	1417.0	1130.9	1069.9	3285.9	4548.4	8171.9	10304.1
80°	581.7	549.2	669.4	837.2	1089.0	852.5	692.3	1340.7	1714.5	4140.3	5181.6
82.5°	413.8	385.2	467.2	614.1	732.3	764.7	425.3	751.4	844.8	1596.2	1157.6
85°	265.1	247.9	312.8	385.2	465.3	492.0	259.4	392.9	431.0	657.9	482.5
87.5°	144.9	118.2	167.8	179.3	215.5	196.4	124.0	143.0	154.5	238.4	204.1
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°	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7	4050.7
2.5°	4065.9	4071.7	4090.7	4096.5	4109.8	4127.0	4138.4	4149.9	4149.9	4161.3	4161.3
5°	4121.2	4134.6	4174.6	4195.6	4229.9	4264.3	4285.3	4310.0	4325.3	4332.9	4336.7
7.5°	4228.0	4249.0	4306.2	4342.5	4401.6	4449.3	4481.7	4516.0	4523.6	4544.6	4537.0
10°	4373.0	4397.8	4462.6	4531.3	4601.8	4661.0	4691.5	4716.3	4725.8	4729.6	4720.1
12.5°	4538.9	4575.1	4659.0	4743.0	4817.3	4868.8	4876.5	4870.7	4844.0	4821.2	4821.2
15°	4743.0	4775.4	4868.8	4960.4	5032.8	5042.4	4994.7	4964.2	4931.8	4926.0	4926.0
17.5°	4987.1	5004.2	5090.1	5179.7	5185.4	5153.0	5082.4	5053.8	5023.3	5002.3	5004.2
20°	5271.2	5265.5	5326.5	5364.7	5324.6	5225.5	5118.7	5071.0	5040.5	5015.7	5017.6
22.5°	5610.7	5566.8	5559.2	5549.7	5442.9	5235.0	5090.1	5029.0	4981.3	4947.0	4958.5
25°	6104.6	5936.8	5820.5	5755.6	5515.3	5183.5	4998.5	4863.1	4773.5	4714.4	4737.2
27.5°	6722.5	6440.3	6146.6	5988.3	5515.3	5078.6	4777.3	4558.0	4411.1	4350.1	4380.6
30°	7311.8	7016.2	6583.3	6268.6	5502.0	4907.0	4420.7	4115.5	3943.9	3882.9	3919.1
32.5°	7815.3	7493.0	7046.7	6575.7	5469.6	4628.5	3978.2	3640.7	3474.7	3402.3	3438.5
35°	8282.5	7939.3	7512.1	6913.2	5383.7	4220.4	3491.9	3234.4	3049.5	2933.1	2971.3
37.5°	8761.2	8353.1	7952.6	7218.4	5229.3	3743.6	3118.1	2898.8	2681.4	2525.0	2567.0
40°	9281.9	8793.6	8423.7	7399.6	4975.6	3289.7	2828.2	2628.0	2397.2	2231.3	2263.7
42.5°	9890.2	9321.9	8948.1	7493.0	4628.5	2967.4	2639.4	2443.0	2225.6	2090.2	2116.9
45°	10525.3	9903.6	9426.8	7491.1	4241.4	2816.8	2578.4	2383.9	2143.6	2002.5	2025.3
47.5°	11190.9	10511.9	9840.6	7369.0	3905.7	2837.8	2544.1	2256.1	1991.0	1853.7	1872.8
50°	11858.4	11177.5	10241.1	7140.2	3762.7	2792.0	2416.3	2076.8	1764.1	1640.1	1647.7
52.5°	12520.1	11885.1	10586.3	6814.1	3617.8	2622.3	2252.3	1844.2	1670.6	1584.8	1584.8
55°	13185.7	12585.0	10962.0	6339.2	3255.4	2423.9	1977.7	1756.4	1596.2	1518.1	1510.4
57.5°	13853.2	13393.6	11318.6	5864.3	2799.6	2179.8	1827.0	1649.6	1521.9	1455.1	1443.7
60°	14547.4	14318.5	11686.7	5427.6	2349.5	1867.1	1716.4	1563.8	1434.1	1359.8	1354.0
62.5°	15262.5	15336.9	11974.7	4865.0	1935.7	1676.3	1617.2	1460.8	1335.0	1264.4	1262.5
65°	15983.4	16319.1	12163.5	4085.0	1569.5	1495.2	1510.4	1348.3	1220.5	1159.5	1157.6
67.5°	16526.9	17026.6	12110.1	3091.4	1287.3	1323.5	1376.9	1230.1	1109.9	1062.3	1064.2
70°	16588.0	16942.7	11583.7	2116.9	1077.5	1155.7	1228.2	1113.7	989.8	955.5	957.4
72.5°	15775.5	15798.4	10117.2	1382.6	911.6	1014.6	1071.8	995.5	875.4	841.0	839.1
75°	13645.3	13065.5	7428.2	911.6	762.8	871.5	924.9	871.5	755.2	762.8	736.1
77.5°	10338.4	9253.3	4510.3	648.4	637.0	732.3	804.8	766.7	667.5	749.5	659.9
80°	5326.5	5006.1	2012.0	484.4	503.5	585.5	661.8	612.2	528.3	503.5	459.6
82.5°	1220.5	1418.9	793.4	347.1	364.3	421.5	505.4	459.6	379.5	320.4	316.6
85°	427.2	467.2	350.9	217.4	213.6	263.2	343.3	307.0	257.5	206.0	217.4
87.5°	135.4	177.4	131.6	87.7	91.5	118.2	158.3	144.9	120.1	78.2	82.0
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)