

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: P532325

Luminaire Tested: **GALN-SA7C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23237 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

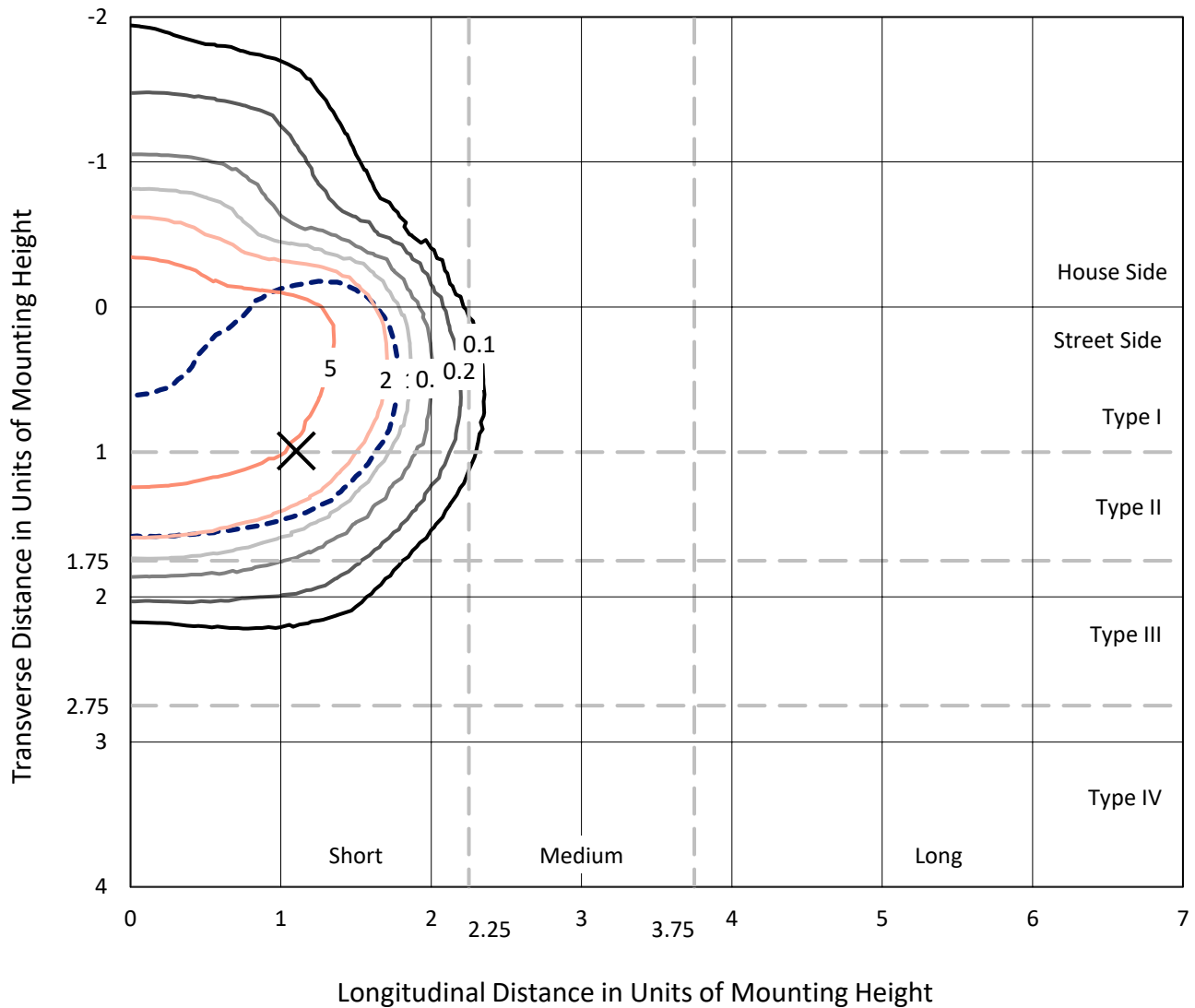
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

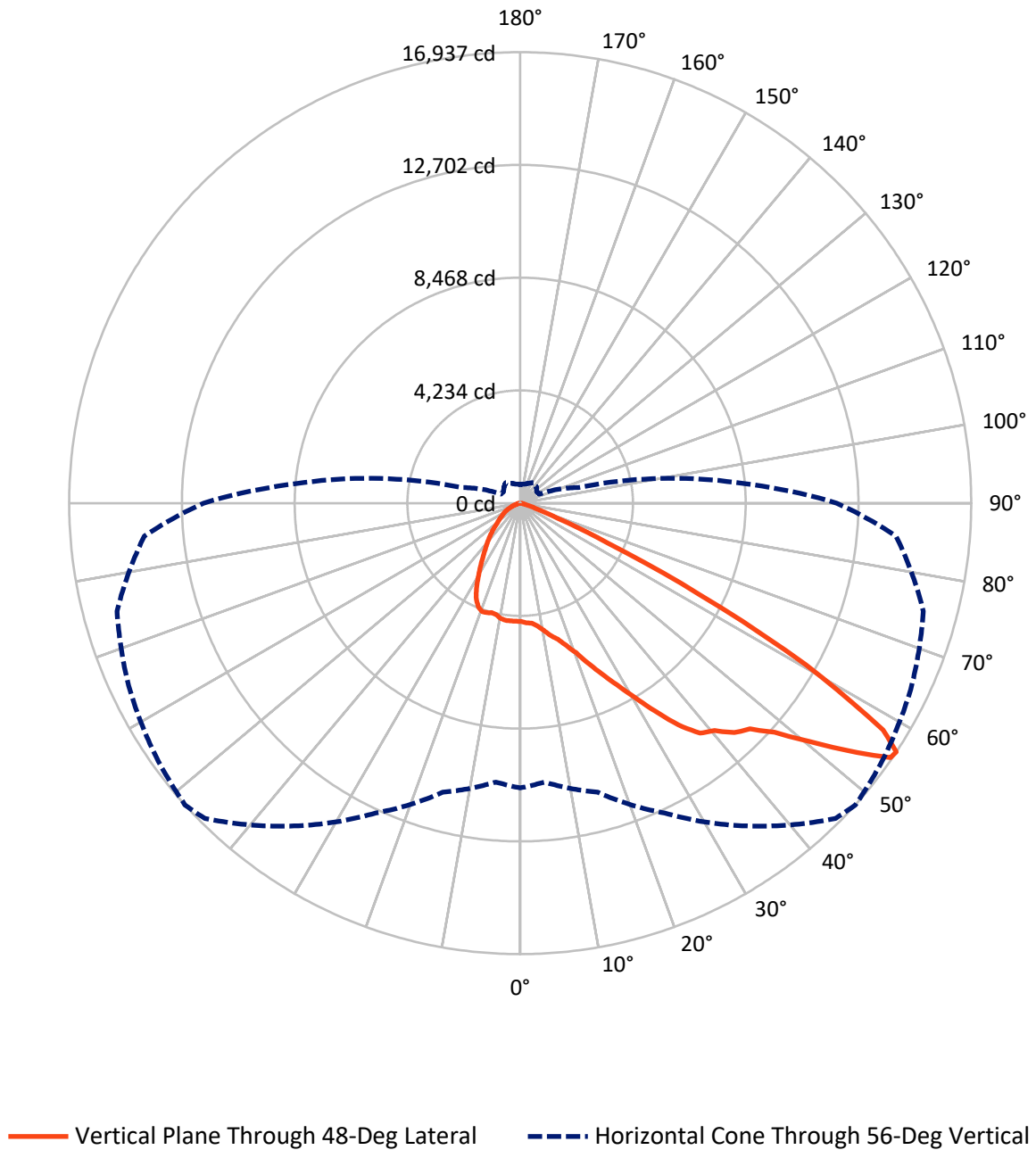
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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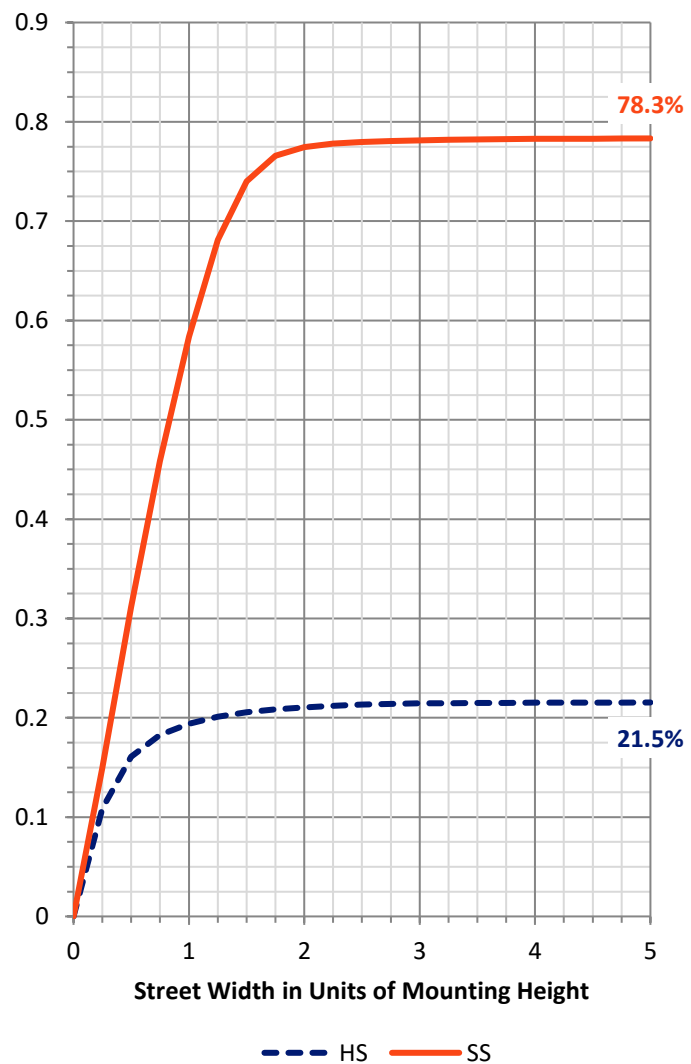
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5053.6	0.0	5053.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18183.4	0.0	18183.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	23237.0	0.0	23237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	1.9
10°-20°	1381.7	5.9
20°-30°	2506.1	10.8
30°-40°	3936.5	16.9
40°-50°	5742.7	24.7
50°-60°	6918.9	29.8
60°-70°	2025.8	8.7
70°-80°	257.0	1.1
80°-90°	36.0	0.2
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°	23237.0	100.0
0°-180°	23237.0	100.0

Coefficient of Utilization



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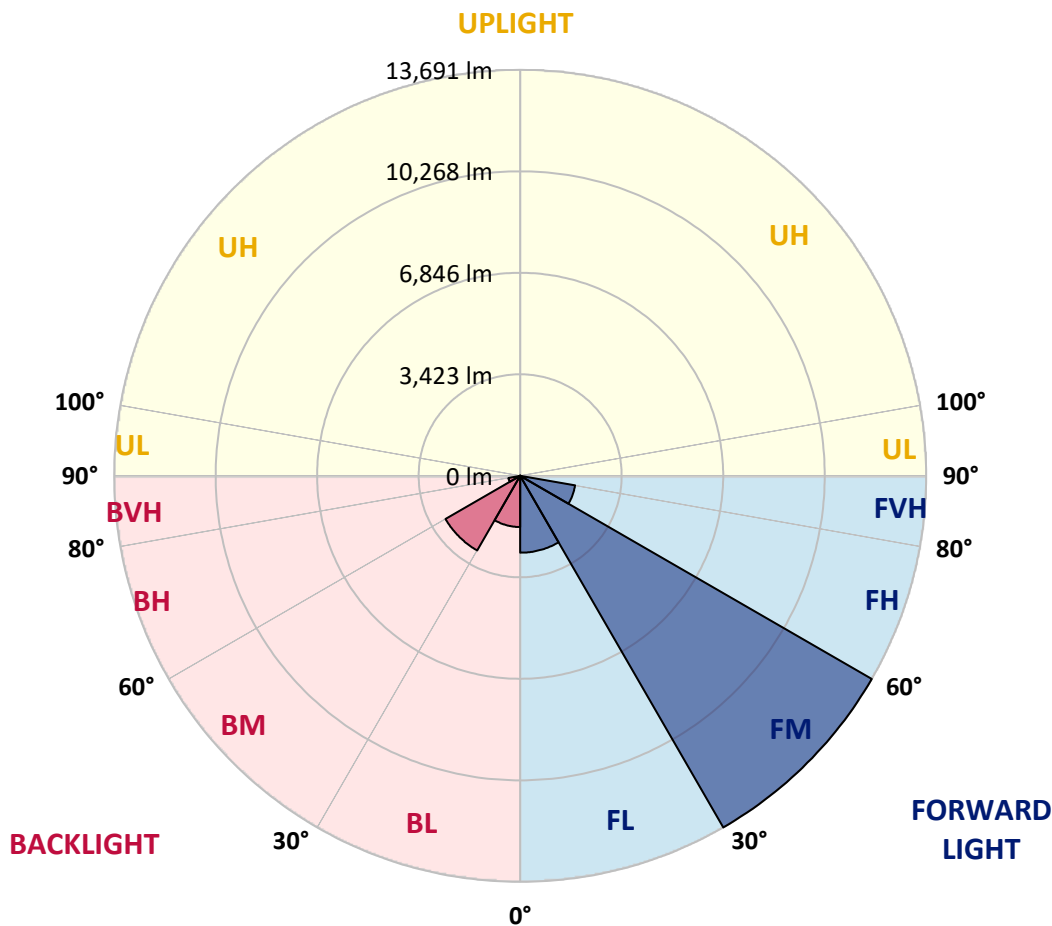
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2592.8	11.2			
FM	(30°-60°)	13691.3	58.9			
FH	(60°-80°)	1881.2	8.1			G2/5000
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	1727.3	7.4	B3/2500		
BM	(30°-60°)	2906.8	12.5	B3/5000		
BH	(60°-80°)	401.6	1.7	B1/500		G1/500
BVH	(80°-90°)	17.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4518.7	4497.5	4497.5	4463.7	4501.7	4484.8	4497.5	4455.2	4497.5	4434.0	4484.8
5°	4539.8	4544.1	4527.1	4548.3	4548.3	4573.7	4531.4	4569.4	4590.6	4544.1	4522.9
7.5°	4649.8	4658.3	4654.1	4637.1	4671.0	4666.7	4662.5	4632.9	4641.4	4624.4	4599.1
10°	4865.6	4861.4	4882.5	4840.2	4814.8	4844.4	4852.9	4806.4	4772.5	4759.8	4679.4
12.5°	5178.7	5127.9	5098.3	5056.0	5068.7	5026.4	5102.5	5022.1	5005.2	4929.1	4848.7
15°	5432.6	5424.1	5428.3	5360.6	5284.5	5301.4	5301.4	5259.1	5233.7	5140.6	5026.4
17.5°	5953.0	5775.3	5813.3	5728.7	5665.3	5661.0	5622.9	5631.4	5563.7	5369.1	5195.6
20°	6359.1	6283.0	6223.7	6079.9	5982.6	6012.2	5995.3	5953.0	5931.8	5677.9	5432.6
22.5°	6723.0	6748.4	6651.1	6613.0	6477.6	6490.3	6524.1	6486.1	6325.3	6063.0	5699.1
25°	7234.9	7205.3	7074.2	7027.6	6900.7	6947.2	7078.4	7048.8	6947.2	6473.4	5906.4
27.5°	7840.0	7738.4	7763.8	7552.3	7429.6	7560.7	7717.3	7865.4	7577.6	6955.7	6151.8
30°	8267.3	8161.5	8153.1	8144.6	8115.0	8267.3	8449.2	8584.6	8351.9	7438.0	6558.0
32.5°	8478.8	8504.2	8576.2	8550.8	8808.9	9121.9	9312.3	9507.0	9215.0	8225.0	7095.3
35°	9041.6	8880.8	9041.6	9058.5	9325.0	9989.3	10230.5	10695.9	10623.9	9337.7	7751.1
37.5°	9371.6	9358.9	9380.0	9540.8	9798.9	10619.7	10962.4	11322.0	11186.7	10006.2	8567.7
40°	9917.4	9951.2	9947.0	10069.7	10353.2	11093.6	11233.2	11525.1	11537.8	10932.8	9769.3
42.5°	10793.2	10657.8	10568.9	10695.9	11093.6	11504.0	11783.2	11724.0	12142.9	12058.2	11313.6
45°	11580.1	11660.5	11529.4	11740.9	11884.8	12104.8	12096.3	12223.2	12756.3	13158.3	12477.1
47.5°	12316.3	12367.1	12430.6	12574.4	12887.5	12921.4	12849.4	12794.4	13530.6	13945.2	13378.3
50°	12756.3	12802.9	13099.1	13357.1	13941.0	14017.2	14059.5	13919.9	14419.1	14465.7	14228.7
52.5°	12637.9	12688.6	13103.3	13953.7	14884.5	15582.6	15455.7	15218.8	15189.1	15371.1	15015.7
55°	11588.6	11542.1	12113.2	13437.5	15180.7	16856.1	16873.1	16623.4	16145.3	16022.6	14897.2
56°	10695.9	10513.9	11241.7	12841.0	14799.9	16746.1	16936.5	16670.0	16221.5	15671.5	14165.3
57.5°	8762.3	8935.8	9659.3	10983.6	13484.1	15955.0	16065.0	16001.5	15663.0	14740.7	12464.4
60°	4831.8	5136.4	5775.3	7395.7	9600.0	12244.4	12333.2	12849.4	12912.9	11288.2	8576.2
62.5°	2052.0	2018.2	2682.4	3875.6	5466.4	7391.5	7556.5	8085.4	8182.7	6507.2	4302.9
65°	833.5	880.0	1214.3	1950.5	2889.7	3367.8	3600.5	3774.0	4095.6	2686.7	1586.6
67.5°	550.0	545.8	715.0	1112.7	1557.0	1502.0	1502.0	1586.6	1468.1	1095.8	685.4
70°	393.5	406.2	511.9	770.0	968.9	719.3	689.6	660.0	748.9	723.5	554.3
72.5°	258.1	275.0	342.7	461.2	503.5	393.5	393.5	473.9	617.7	583.9	452.7
75°	169.2	173.5	211.5	266.6	249.6	203.1	224.2	317.3	448.5	431.6	321.6
77.5°	114.2	118.5	143.9	173.5	139.6	114.2	122.7	160.8	220.0	220.0	169.2
80°	42.3	46.5	59.2	55.0	63.5	80.4	88.9	110.0	131.2	131.2	114.2
82.5°	0.0	4.2	12.7	29.6	46.5	63.5	71.9	84.6	97.3	110.0	105.8
85°	0.0	4.2	12.7	21.2	33.8	38.1	42.3	29.6	25.4	25.4	21.2
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.5	4.2	4.2
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°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4438.3	4434.0	4434.0	4421.4	4446.7	4434.0	4442.5	4438.3	4383.3	4425.6	4396.0
5°	4484.8	4514.4	4467.9	4459.4	4425.6	4438.3	4438.3	4396.0	4434.0	4429.8	4421.4
7.5°	4603.3	4552.5	4501.7	4451.0	4442.5	4429.8	4383.3	4366.4	4396.0	4362.1	4412.9
10°	4654.1	4662.5	4586.4	4518.7	4455.2	4366.4	4302.9	4264.8	4218.3	4269.0	4298.7
12.5°	4886.8	4802.1	4671.0	4565.2	4349.4	4260.6	4197.1	4180.2	4260.6	4277.5	4247.9
15°	4967.1	4954.5	4785.2	4548.3	4324.0	4218.3	4231.0	4197.1	4205.6	4163.3	4171.7
17.5°	5132.2	4988.3	4789.4	4493.3	4319.8	4294.4	4218.3	4082.9	4006.7	3972.9	4002.5
20°	5314.1	5174.5	4886.8	4514.4	4357.9	4290.2	4040.6	3875.6	3719.0	3634.4	3638.6
22.5°	5474.9	5301.4	4844.4	4522.9	4391.7	4112.5	3812.1	3486.3	3291.7	3160.5	3164.8
25°	5669.5	5424.1	4861.4	4539.8	4302.9	3829.0	3397.5	3080.1	2847.4	2758.6	2788.2
27.5°	5779.5	5500.2	4954.5	4577.9	4070.2	3427.1	2961.7	2665.5	2530.1	2487.8	2483.6
30°	6109.5	5669.5	5068.7	4501.7	3680.9	2995.5	2564.0	2382.0	2250.9	2212.8	2221.3
32.5°	6600.3	5978.3	5216.8	4302.9	3283.2	2610.5	2305.9	2170.5	2047.8	1975.9	1967.4
35°	7010.7	6507.2	5373.3	3994.0	2822.1	2314.3	2123.9	1954.7	1768.5	1688.2	1667.0
37.5°	7793.4	7103.8	5339.5	3528.6	2382.0	2094.3	1929.3	1722.0	1561.2	1451.2	1438.5
40°	8834.2	7801.9	5174.5	2961.7	2056.2	1899.7	1722.0	1523.1	1324.3	1231.2	1222.7
42.5°	10099.3	8656.5	4874.1	2386.3	1730.5	1705.1	1544.3	1315.8	1138.1	1070.4	1074.7
45°	11127.4	9388.5	4569.4	1916.6	1489.3	1514.7	1375.1	1159.3	1036.6	981.6	981.6
47.5°	12041.3	9883.5	4239.4	1582.4	1265.1	1324.3	1201.6	1074.7	968.9	926.6	918.1
50°	12921.4	10387.0	3909.4	1282.0	1078.9	1138.1	1125.4	1023.9	939.3	888.5	892.7
52.5°	13471.4	10467.4	3490.5	1049.3	943.5	1011.2	1053.5	960.4	867.3	837.7	829.3
55°	12798.7	9430.8	2707.8	863.1	799.7	888.5	968.9	863.1	791.2	740.4	736.2
56°	11893.2	8432.3	2263.6	795.4	757.3	854.7	939.3	825.0	744.6	715.0	693.9
57.5°	10069.7	6900.7	1671.2	706.6	702.3	795.4	892.7	787.0	693.9	668.5	668.5
60°	6278.7	3884.0	1011.2	592.3	609.3	706.6	803.9	702.3	617.7	617.7	630.4
62.5°	2860.1	1616.2	613.5	503.5	524.6	609.3	715.0	634.6	588.1	634.6	643.1
65°	973.1	698.1	444.3	401.9	414.6	503.5	613.5	643.1	638.9	668.5	685.4
67.5°	545.8	448.5	372.3	334.2	325.8	372.3	503.5	643.1	617.7	605.0	613.5
70°	461.2	380.8	330.0	296.2	283.5	300.4	389.2	486.6	435.8	423.1	414.6
72.5°	372.3	317.3	287.7	266.6	228.5	194.6	177.7	186.2	207.3	220.0	241.2
75°	262.3	241.2	241.2	215.8	165.0	122.7	97.3	80.4	55.0	38.1	42.3
77.5°	148.1	148.1	152.3	131.2	105.8	80.4	59.2	42.3	21.2	8.5	4.2
80°	101.5	110.0	118.5	105.8	88.9	71.9	50.8	29.6	12.7	0.0	0.0
82.5°	101.5	114.2	122.7	105.8	88.9	67.7	50.8	29.6	12.7	4.2	0.0
85°	21.2	25.4	29.6	33.8	50.8	50.8	38.1	25.4	12.7	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0	0.0
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)