

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: P943497

Luminaire Tested: **GALN-SB8A-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943497
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-SB8A-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36297 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

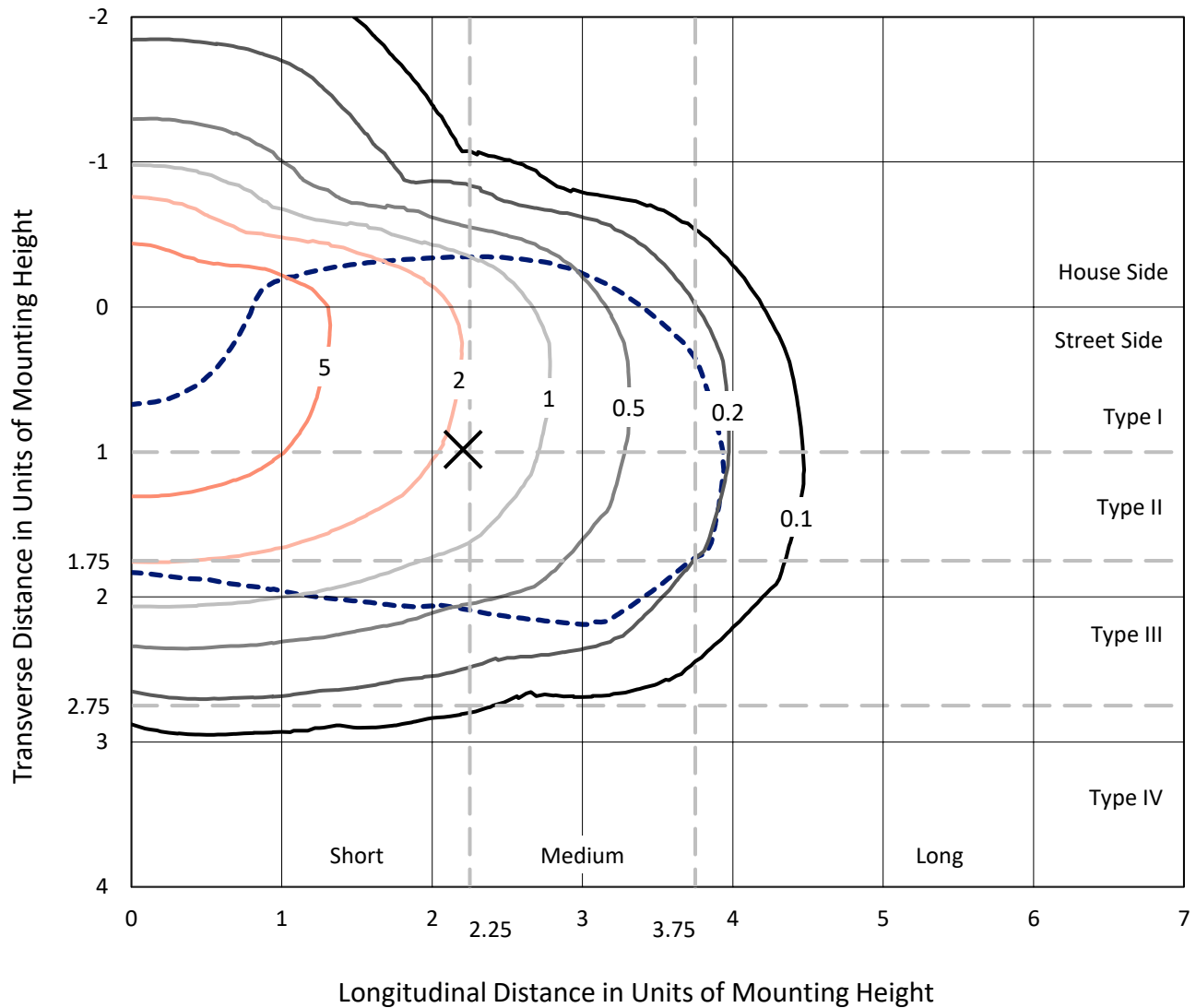


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

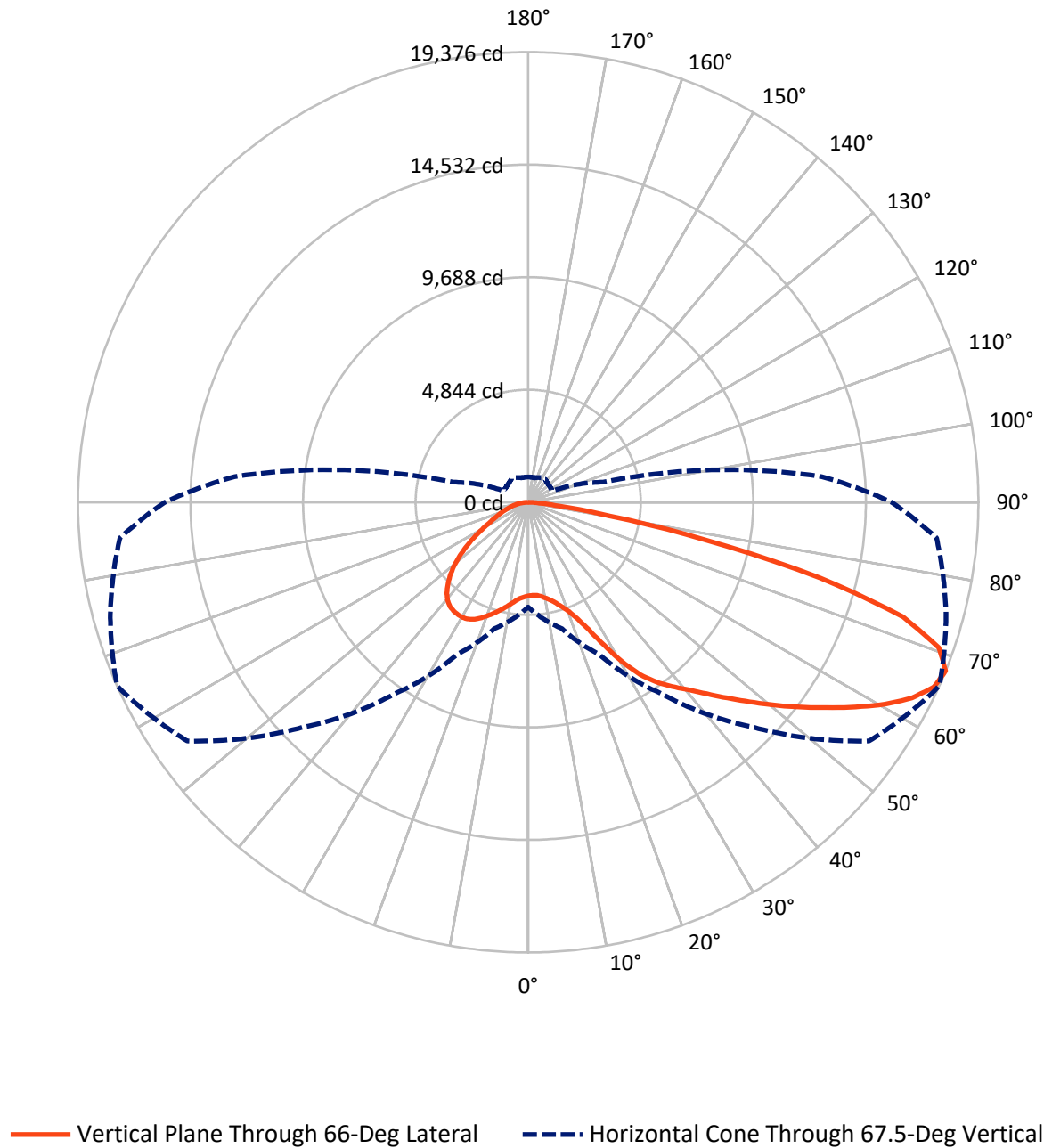


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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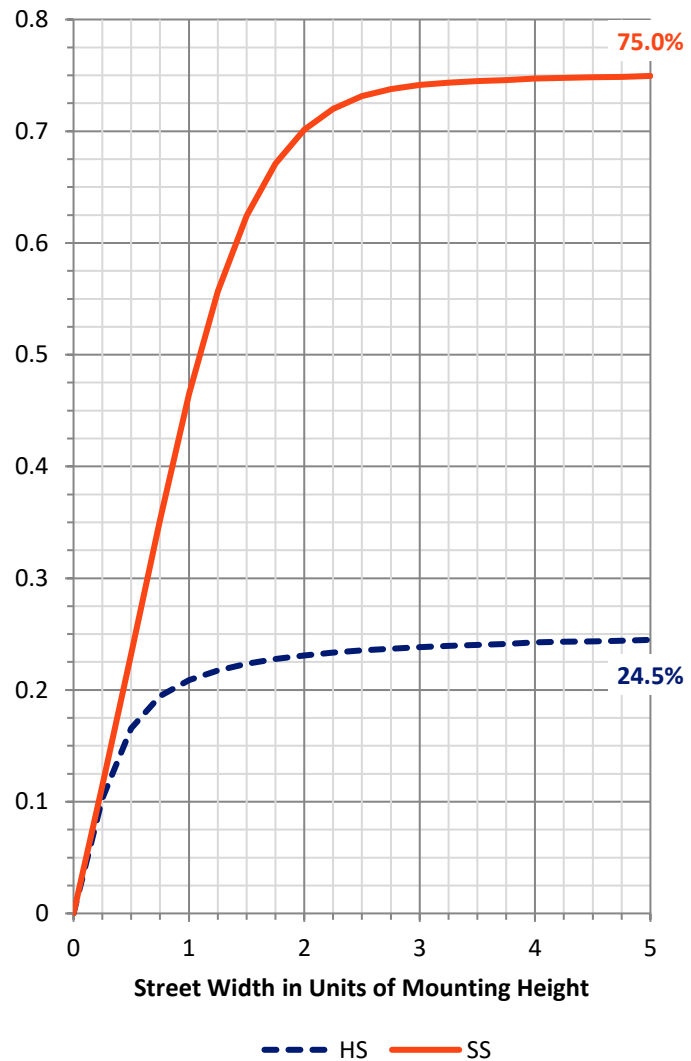
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9025.2	0.0	9025.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27271.9	0.0	27271.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	36297.0	0.0	36297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	1.1
10°-20°	1318.7	3.6
20°-30°	2541.8	7.0
30°-40°	4456.6	12.3
40°-50°	6625.6	18.3
50°-60°	8398.5	23.1
60°-70°	8217.8	22.6
70°-80°	3920.0	10.8
80°-90°	418.9	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°	36297.0	100.0
0°-180°	36297.0	100.0

Coefficient of Utilization



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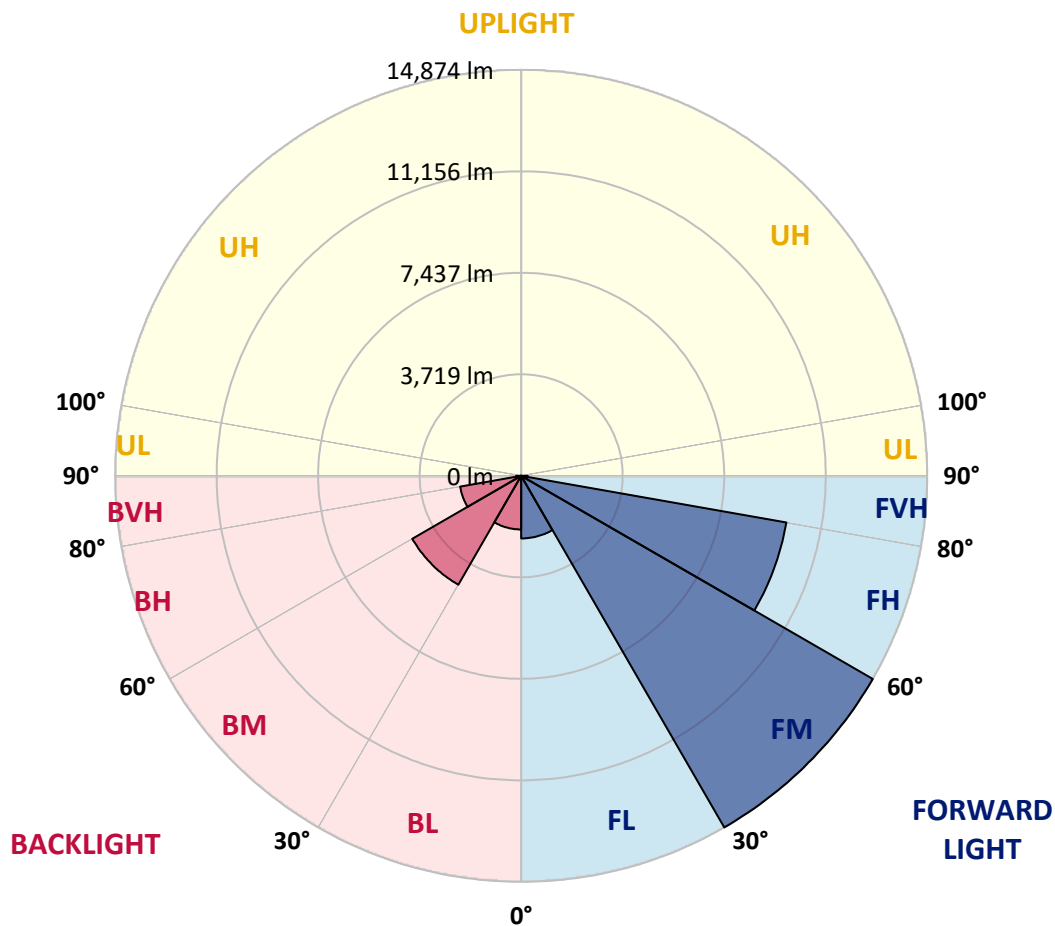
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2293.6	6.3			
FM	(30°-60°)	14874.2	41.0			
FH	(60°-80°)	9866.5	27.2			G4/12000
FVH	(80°-90°)	237.5	0.7			G3/500
BL	(0°-30°)	1966.0	5.4	B3/2500		
BM	(30°-60°)	4606.5	12.7	B3/5000		
BH	(60°-80°)	2271.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	181.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8
2.5°	3983.9	4006.7	4001.0	3991.5	3989.6	3993.4	3999.1	4004.8	4002.9	4012.5	4027.7
5°	3972.4	3995.3	3993.4	3993.4	4001.0	4016.3	4025.8	4035.4	4025.8	4037.3	4058.2
7.5°	3980.0	3997.2	4004.8	4012.5	4031.5	4060.1	4083.0	4104.0	4092.6	4105.9	4132.6
10°	4077.3	4090.7	4098.3	4098.3	4111.6	4144.1	4166.9	4205.1	4195.5	4216.5	4250.9
12.5°	4254.7	4268.0	4268.0	4260.4	4269.9	4290.9	4298.5	4340.5	4323.3	4357.6	4392.0
15°	4472.1	4498.8	4477.8	4464.4	4468.3	4489.2	4487.3	4519.7	4502.6	4531.2	4561.7
17.5°	4712.4	4746.7	4712.4	4710.5	4702.8	4725.7	4727.6	4756.2	4725.7	4746.7	4767.7
20°	4996.5	5044.2	5015.6	5025.1	5008.0	5017.5	5027.0	5069.0	5021.3	5036.6	5030.8
22.5°	5397.0	5454.2	5423.7	5459.9	5448.5	5440.9	5439.0	5513.3	5439.0	5444.7	5389.4
25°	5980.6	6049.2	5995.8	6045.4	6045.4	6070.2	6098.8	6194.2	6070.2	6034.0	5890.9
27.5°	6842.6	6911.2	6806.3	6836.8	6827.3	6888.3	6857.8	7094.3	6960.8	6901.7	6613.7
30°	7880.0	8002.1	7803.7	7796.1	7786.6	7883.8	7927.7	8084.1	7948.7	7889.5	7542.4
32.5°	9001.4	9129.1	8892.7	8824.0	8787.8	8846.9	8810.6	8936.5	8843.1	8751.5	8322.4
35°	10187.5	10313.4	10088.4	9954.9	9809.9	9686.0	9556.3	9588.7	9501.0	9361.8	8917.4
37.5°	11308.9	11539.7	11301.3	11158.2	10891.3	10649.1	10286.7	10136.1	10054.1	9926.3	9478.1
40°	12451.2	12582.8	12401.7	12279.6	11989.7	11610.2	11030.5	10712.0	10601.4	10477.4	10097.9
42.5°	13292.3	13418.1	13320.9	13236.9	13010.0	12569.5	11820.0	11421.4	11261.2	11122.0	10799.7
45°	13959.7	14053.2	13992.1	14022.7	13925.4	13498.2	12638.1	12182.3	12016.4	11846.7	11593.1
47.5°	14228.6	14327.8	14425.0	14606.2	14772.1	14457.5	13517.3	13006.2	12830.7	12657.2	12407.4
50°	14198.1	14299.2	14581.4	14966.7	15481.6	15376.7	14444.1	13883.4	13721.3	13523.0	13292.3
52.5°	13954.0	14068.4	14430.8	15071.5	15891.6	16065.1	15388.1	14789.3	14636.7	14400.3	14169.5
55°	13313.2	13381.9	13925.4	14833.2	15988.8	16545.7	16313.0	15754.3	15601.7	15271.8	15020.1
57.5°	12125.1	12224.3	13015.7	14190.5	15744.7	16871.8	17125.5	16768.8	16622.0	16147.1	15884.0
60°	10574.7	10733.0	11638.8	13111.1	15123.0	16869.9	17863.5	17766.2	17644.2	17009.1	16734.5
62.5°	8820.2	9003.3	9874.8	11585.4	14036.0	16391.2	18325.0	18601.5	18538.6	17804.4	17453.5
65°	6773.9	6899.8	7767.5	9611.6	12344.4	15363.3	18378.4	19171.7	19183.2	18408.9	17829.2
67.5°	4510.2	4872.6	5625.8	7212.5	10078.8	13683.2	17909.3	19265.2	19375.8	18616.8	17640.4
70°	2200.8	2677.5	3415.6	4687.6	7212.5	11106.8	16683.0	18498.5	18744.6	18010.3	16515.2
72.5°	913.5	1068.0	1470.3	2313.3	4140.2	7494.8	14219.1	16419.8	16875.6	15958.3	13885.3
75°	616.0	667.5	841.0	1186.2	1886.1	3695.9	10254.3	12243.4	12977.6	12052.7	9851.9
77.5°	474.9	507.3	612.2	829.6	1121.4	1397.9	5488.5	7378.4	7757.9	7182.0	5126.2
80°	373.8	398.6	457.7	604.5	795.2	747.6	1870.8	3343.1	3562.4	2988.4	1647.7
82.5°	324.2	333.7	328.0	410.0	528.3	436.7	614.1	1233.9	1361.6	987.9	537.8
85°	234.6	261.3	272.7	253.6	280.3	221.2	251.7	436.7	480.6	429.1	303.2
87.5°	95.4	141.1	173.5	164.0	103.0	62.9	78.2	127.8	146.8	160.2	99.2
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°	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8	4025.8
2.5°	4029.6	4043.0	4052.5	4064.0	4071.6	4083.0	4105.9	4119.3	4121.2	4130.7	4128.8
5°	4065.9	4084.9	4105.9	4136.4	4170.8	4199.4	4243.2	4273.7	4285.2	4294.7	4292.8
7.5°	4144.1	4170.8	4208.9	4262.3	4311.9	4350.0	4403.4	4439.7	4475.9	4489.2	4491.1
10°	4260.4	4298.5	4353.8	4426.3	4479.7	4529.3	4584.6	4615.1	4651.3	4666.6	4674.2
12.5°	4405.3	4445.4	4517.8	4618.9	4668.5	4702.8	4721.9	4714.3	4721.9	4735.2	4739.1
15°	4571.2	4615.1	4697.1	4805.8	4840.1	4809.6	4767.7	4729.5	4723.8	4727.6	4741.0
17.5°	4767.7	4800.1	4895.4	4987.0	4962.2	4836.3	4744.8	4683.8	4653.2	4643.7	4657.1
20°	5042.3	5042.3	5120.5	5177.7	5011.8	4798.2	4655.1	4556.0	4493.0	4466.3	4460.6
22.5°	5376.0	5345.5	5395.1	5355.0	5002.2	4691.4	4493.0	4321.4	4226.1	4187.9	4182.2
25°	5799.4	5763.2	5749.8	5501.9	4933.6	4521.7	4199.4	3991.5	3907.6	3886.6	3890.4
27.5°	6438.3	6346.7	6173.2	5582.0	4807.7	4254.7	3856.1	3663.5	3615.8	3617.7	3623.4
30°	7288.8	7105.7	6680.5	5595.3	4601.8	3877.1	3505.2	3367.9	3345.0	3354.5	3386.9
32.5°	8076.4	7902.9	7199.2	5534.3	4285.2	3507.1	3190.5	3099.0	3064.7	3076.1	3091.4
35°	8694.3	8646.6	7679.8	5448.5	3896.1	3160.0	2908.3	2830.1	2763.3	2748.1	2759.5
37.5°	9277.9	9258.8	8040.2	5328.3	3510.9	2914.0	2681.3	2578.4	2481.1	2427.7	2429.6
40°	9918.7	9899.6	8276.7	5143.4	3169.5	2700.4	2477.3	2341.9	2221.7	2124.5	2134.0
42.5°	10639.5	10527.0	8389.2	4878.3	2879.7	2519.2	2311.4	2128.3	1970.0	1880.4	1886.1
45°	11427.1	11173.5	8387.3	4540.7	2635.6	2353.3	2134.0	1874.6	1727.8	1643.9	1640.1
47.5°	12262.4	11791.4	8284.3	4166.9	2399.1	2170.2	1859.4	1661.1	1563.8	1512.3	1500.9
50°	13124.4	12369.2	8108.8	3737.8	2156.9	1962.4	1687.8	1552.4	1478.0	1430.3	1413.1
52.5°	13934.9	12893.7	7897.2	3251.5	1910.9	1760.2	1611.5	1506.6	1428.4	1375.0	1352.1
55°	14688.2	13345.7	7597.8	2753.8	1710.6	1624.8	1575.2	1487.5	1397.9	1334.9	1310.2
57.5°	15357.6	13639.3	7080.9	2286.6	1567.6	1531.4	1537.1	1455.1	1352.1	1298.7	1264.4
60°	15914.5	13854.8	6316.2	1853.7	1451.3	1439.8	1478.0	1394.1	1273.9	1212.9	1186.2
62.5°	16248.2	13851.0	5377.9	1518.0	1352.1	1355.9	1399.8	1317.8	1195.7	1138.5	1121.4
65°	16219.6	13511.6	4348.1	1298.7	1256.8	1260.6	1317.8	1233.9	1130.9	1096.6	1094.7
67.5°	15645.6	12683.9	3335.5	1155.7	1151.9	1169.0	1235.8	1176.7	1090.8	1087.0	1092.7
70°	14091.3	10965.6	2402.9	1041.3	1043.2	1068.0	1155.7	1140.4	1069.9	1077.5	1075.6
72.5°	11299.4	8360.6	1613.4	921.1	923.0	963.1	1079.4	1111.8	1048.9	1150.0	1165.2
75°	7525.3	5213.9	1037.4	793.3	795.2	846.7	1012.7	1056.5	991.7	1146.1	1155.7
77.5°	3615.8	2343.8	751.4	667.5	667.5	715.1	875.3	945.9	844.8	890.6	816.2
80°	1249.1	881.1	591.2	537.8	526.4	558.8	738.0	820.0	728.5	671.3	629.3
82.5°	492.0	457.7	474.9	417.6	379.5	400.5	574.0	677.0	535.9	484.4	482.5
85°	282.2	297.5	335.6	276.5	219.3	246.0	421.5	486.3	404.3	356.6	364.2
87.5°	76.3	104.9	154.5	143.0	99.2	104.9	200.2	268.9	232.7	179.3	185.0
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)