

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: P534427

Luminaire Tested: **GALN-SA9D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32874 lumens
Efficiency: N/A
Efficacy: 59.6 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): 552
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

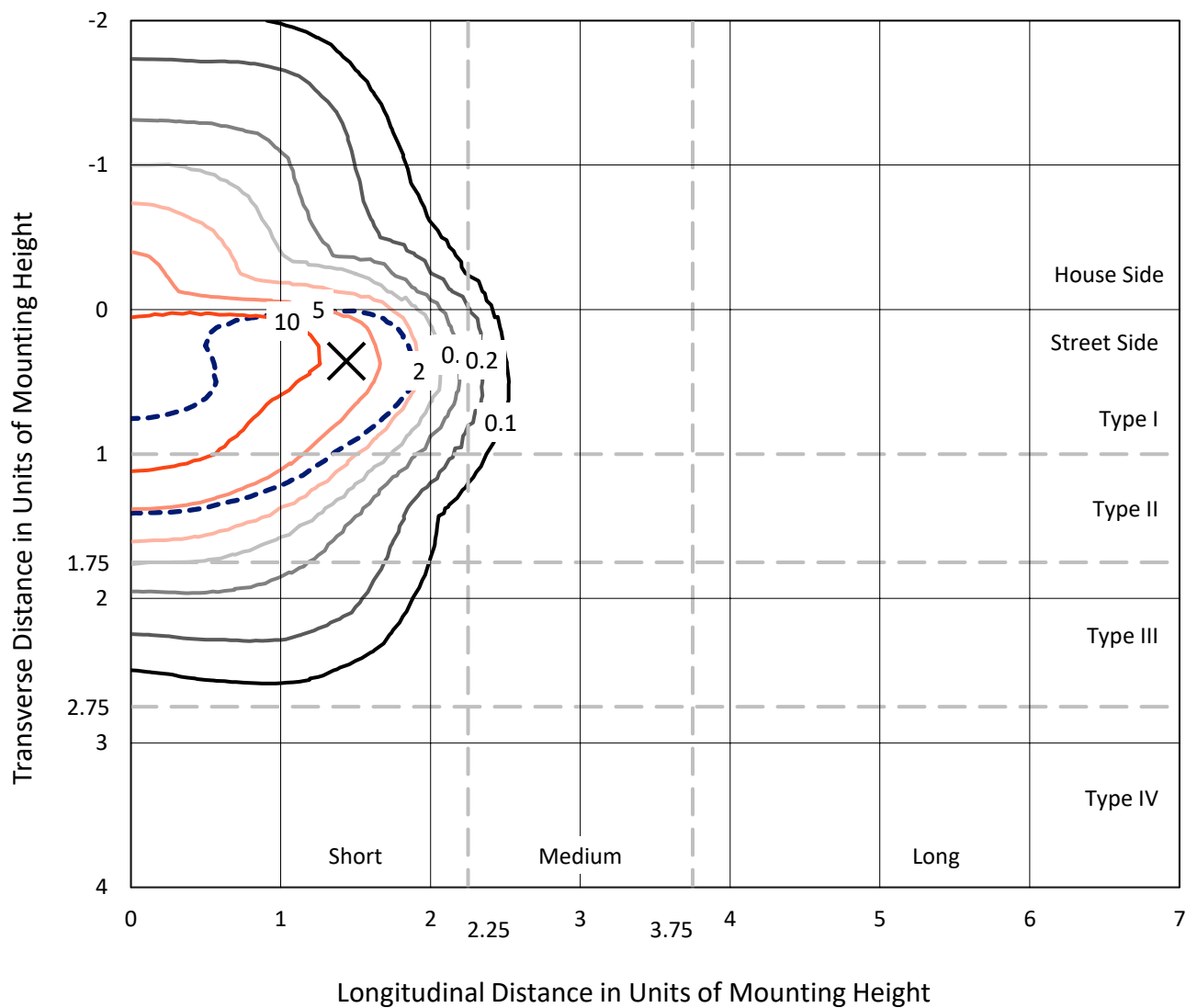


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

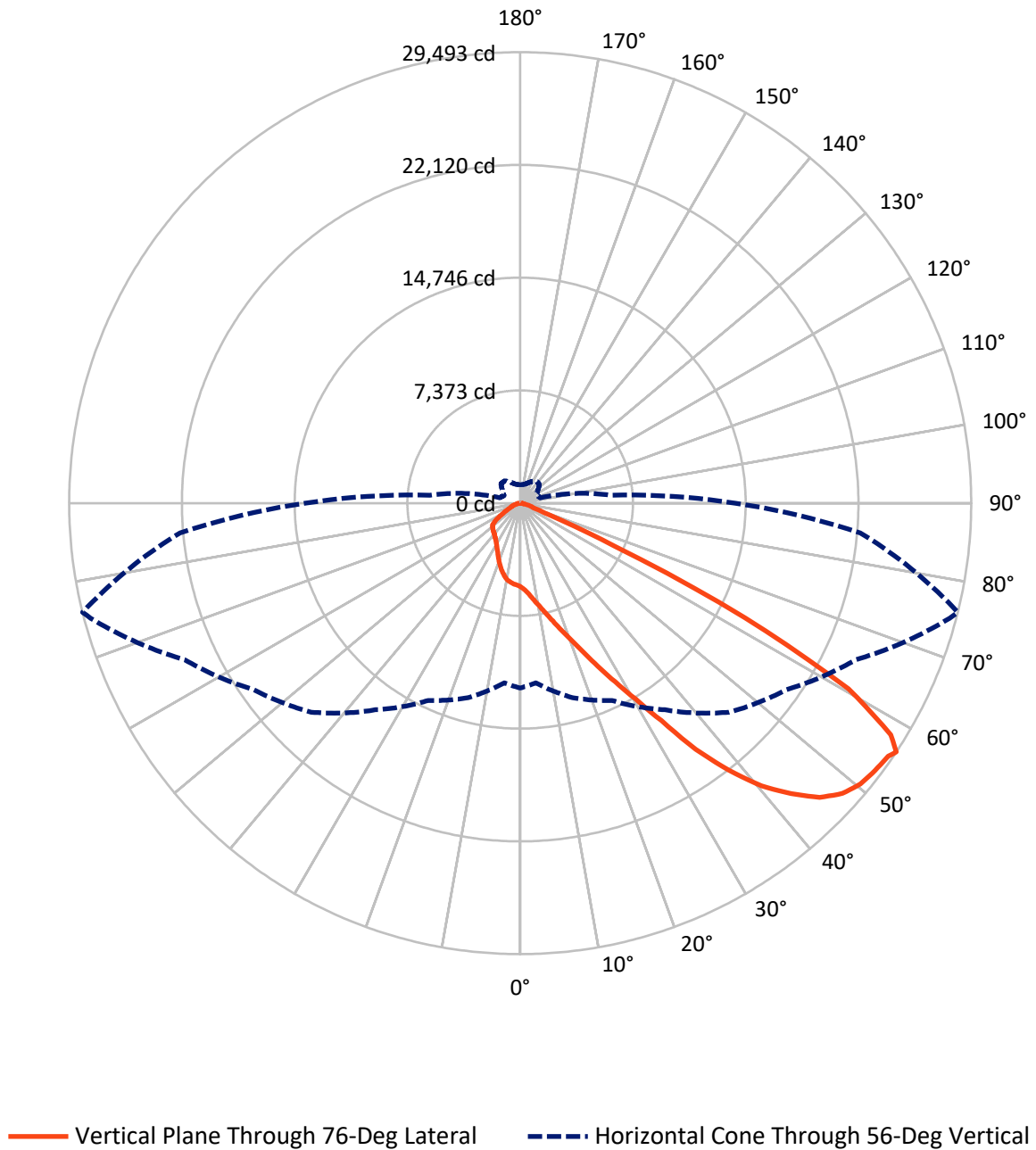
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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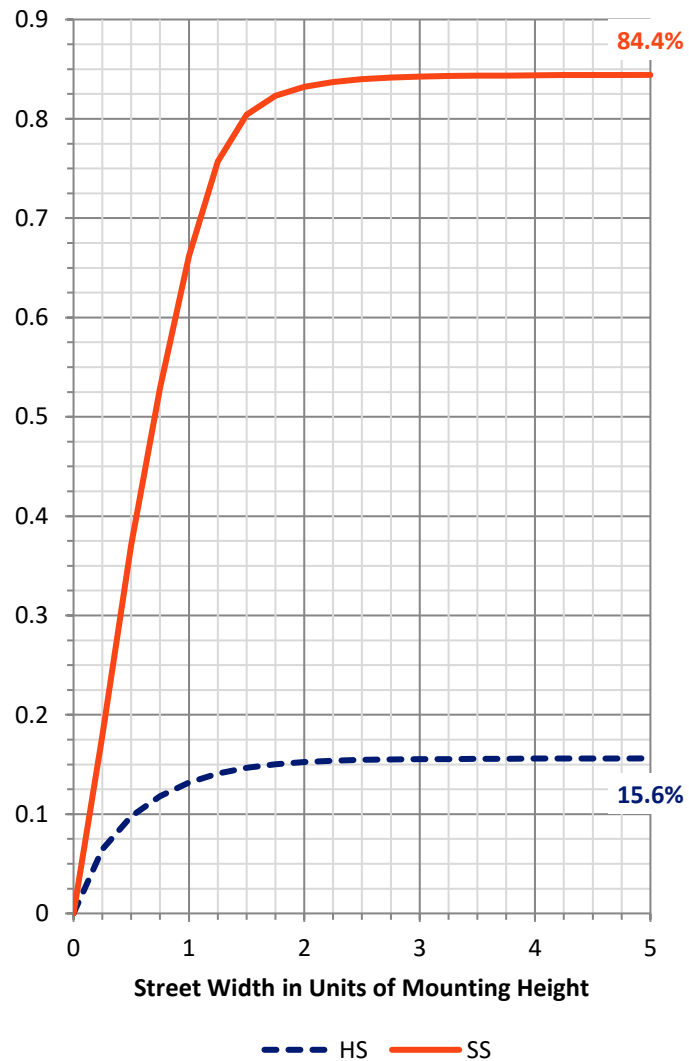
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5164.3	0.0	5164.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	27709.7	0.0	27709.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	32874.0	0.0	32874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	1.7
10°-20°	1770.9	5.4
20°-30°	3211.1	9.8
30°-40°	5537.6	16.8
40°-50°	8996.0	27.4
50°-60°	9482.1	28.8
60°-70°	2897.2	8.8
70°-80°	371.4	1.1
80°-90°	56.5	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°	32874.0	100.0
0°-180°	32874.0	100.0

Coefficient of Utilization



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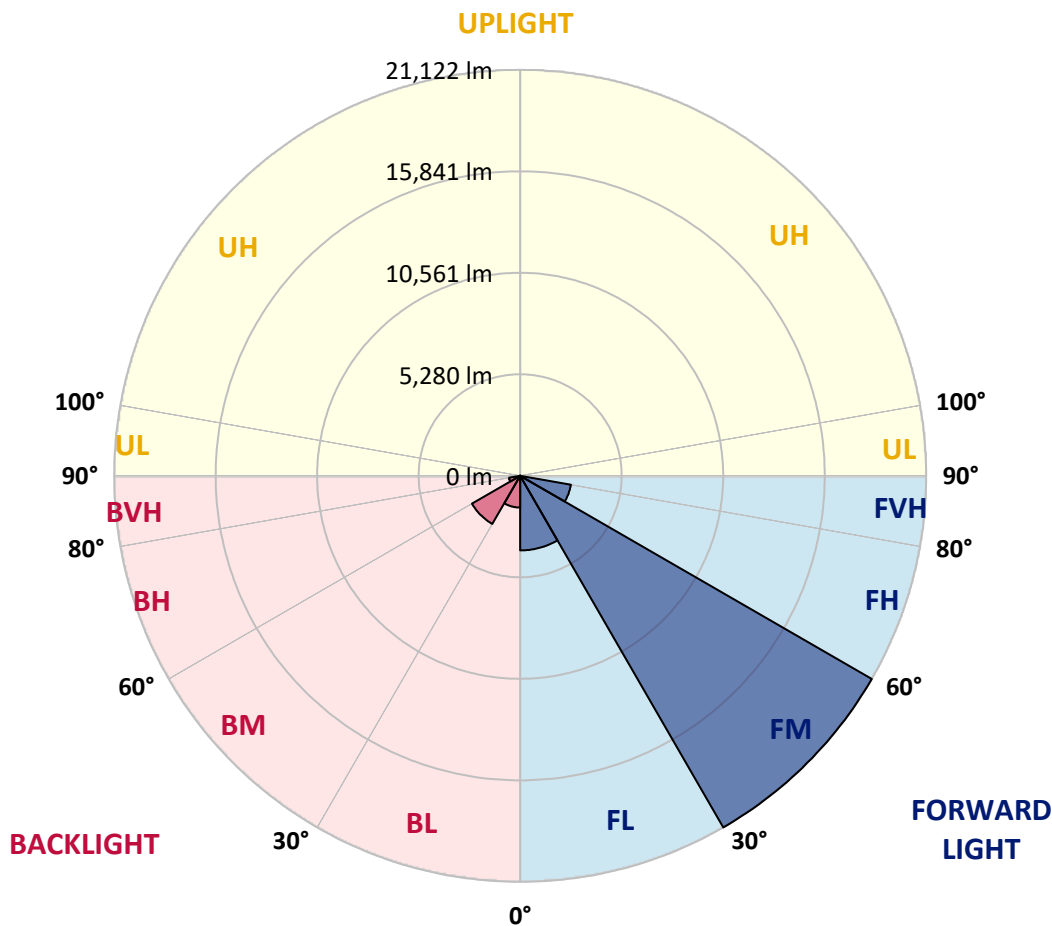
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3881.1	11.8			
FM	(30°-60°)	21121.5	64.2			
FH	(60°-80°)	2679.4	8.2			G2/5000
FVH	(80°-90°)	27.7	0.1			G1/100
BL	(0°-30°)	1652.1	5.0	B3/2500		
BM	(30°-60°)	2894.3	8.8	B3/5000		
BH	(60°-80°)	589.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	28.8	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°	55°	65°	75°	76°	85°
0°	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9
2.5°	6302.1	6156.7	6162.7	6150.6	6132.4	6065.8	5865.8	5835.5	5702.2	5665.8	5544.6
5°	7059.6	6932.3	7005.0	6896.0	6792.9	6732.3	6405.1	6253.6	6041.5	5962.8	5793.1
7.5°	7532.2	7471.6	7447.4	7453.5	7356.5	7205.0	7059.6	6726.3	6441.5	6380.9	6023.4
10°	7762.5	7726.1	7762.5	7744.3	7786.7	7804.9	7550.4	7350.4	6932.3	6829.3	6271.8
12.5°	7817.0	7889.8	7920.1	7998.8	8101.8	8277.6	8259.4	7986.7	7429.2	7362.6	6653.6
15°	7950.4	8010.9	7980.7	8107.9	8301.8	8598.7	8756.3	8713.9	8114.0	7992.8	7095.9
17.5°	8071.5	7962.5	8065.5	8320.0	8513.9	8968.4	9350.1	9525.9	8859.3	8719.9	7501.9
20°	8235.2	8204.9	8186.7	8313.9	8659.3	9265.3	10022.8	10343.9	9695.6	9550.1	8083.7
22.5°	8732.1	8738.1	8726.0	8538.1	8786.6	9471.3	10610.6	11404.4	10695.4	10574.2	8744.2
25°	9386.5	9307.7	9247.1	9095.6	9065.3	9659.2	11204.4	12701.2	11895.2	11810.4	9459.2
27.5°	10077.3	10077.3	9895.5	9756.1	9562.2	10125.8	11749.8	13961.6	13343.5	13228.4	10083.4
30°	10828.7	10871.1	10846.9	10550.0	10428.8	10634.8	12307.3	15573.5	15003.9	14858.4	11113.5
32.5°	11937.6	11846.8	11949.8	11701.3	11343.8	11525.6	13185.9	17015.7	17161.1	16955.1	12464.8
35°	13404.1	13349.6	13282.9	12876.9	12452.7	12598.2	14428.2	18791.2	19869.8	19766.8	13828.3
37.5°	14719.1	14688.8	14634.2	14355.5	13864.6	14040.4	15840.1	20639.4	22511.9	22172.5	15755.3
40°	16100.7	16264.3	16088.6	15840.1	15391.7	15779.5	17500.5	21736.2	24735.8	24323.7	17227.8
42.5°	17973.1	17845.9	17924.7	17470.2	17227.8	17652.0	19166.9	22833.0	26462.8	25972.0	18791.2
45°	19966.8	19972.8	19760.7	19615.3	18985.1	19445.6	20191.0	23439.0	27838.4	27456.6	19972.8
47.5°	21245.4	21239.3	21469.6	21699.9	21051.5	20597.0	20887.9	24014.7	28547.3	28371.6	20403.1
50°	21045.4	21106.0	21402.9	22263.4	22602.8	21990.7	21542.3	23845.0	28868.5	28850.3	20772.7
52.5°	18306.4	18506.4	19003.3	20245.5	21954.4	22711.8	22227.1	24160.1	29026.1	29056.4	21324.2
55°	13937.4	14046.4	14991.7	16500.6	18391.2	20984.8	21954.4	24408.6	29147.3	29201.8	21990.7
56°	12089.1	11798.3	13161.7	14234.3	16494.6	19330.5	21263.6	24214.6	29074.5	29492.7	22324.0
57.5°	9125.9	8932.0	10034.9	11374.1	13549.5	16543.0	19118.4	23299.6	28583.7	28577.6	21845.3
60°	5550.7	5356.8	6205.2	6992.9	8210.9	10186.4	12919.3	18554.9	24166.2	24675.2	17688.3
62.5°	3302.5	3423.7	4260.0	4738.7	5132.6	5338.6	6683.9	11028.7	16124.9	16488.5	10974.2
65°	2199.7	2242.1	2872.3	3660.1	3835.8	3054.1	2720.8	4466.0	6992.9	6768.7	4526.6
67.5°	1357.4	1454.3	1927.0	2751.1	3048.0	2230.0	1290.7	1666.4	1927.0	1927.0	1308.9
70°	824.1	872.6	1284.7	1872.5	2090.6	1436.2	939.3	939.3	927.1	909.0	781.7
72.5°	393.9	424.2	654.4	963.5	981.7	757.5	727.2	793.8	775.6	769.6	648.4
75°	169.7	181.8	230.3	303.0	345.4	321.2	442.4	569.6	587.8	569.6	466.6
77.5°	54.5	60.6	84.8	109.1	115.1	139.4	187.9	236.3	272.7	254.5	230.3
80°	6.1	12.1	24.2	54.5	84.8	109.1	139.4	157.6	175.7	175.7	163.6
82.5°	6.1	6.1	24.2	48.5	78.8	103.0	133.3	151.5	175.7	181.8	169.7
85°	0.0	6.1	18.2	42.4	66.7	66.7	60.6	60.6	42.4	42.4	42.4
87.5°	0.0	0.0	6.1	6.1	6.1	12.1	12.1	12.1	12.1	12.1	12.1
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°	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9	5471.9
2.5°	5520.4	5508.3	5344.7	5241.7	5187.1	5078.0	5011.4	4962.9	4926.6	4884.1	4890.2
5°	5593.1	5550.7	5278.0	5090.2	4866.0	4744.8	4641.7	4556.9	4502.4	4490.3	4466.0
7.5°	5799.2	5574.9	5162.9	4823.5	4538.7	4417.5	4326.6	4272.1	4296.3	4241.8	4284.2
10°	5956.7	5623.4	5023.5	4532.7	4247.9	4157.0	4108.5	4150.9	4211.5	4187.3	4157.0
12.5°	6150.6	5671.9	4799.3	4253.9	3987.3	3920.6	4005.5	4084.3	4205.4	4253.9	4193.3
15°	6368.8	5726.4	4514.5	3932.8	3763.1	3817.6	3963.1	4102.4	4223.6	4284.2	4320.6
17.5°	6635.4	5708.3	4235.7	3678.2	3551.0	3708.5	3884.3	4011.5	4193.3	4284.2	4260.0
20°	6883.8	5647.7	3926.7	3423.7	3429.8	3575.2	3720.7	3926.7	4023.7	4144.8	4102.4
22.5°	7120.2	5538.6	3605.5	3248.0	3248.0	3472.2	3544.9	3678.2	3763.1	3823.7	3817.6
25°	7453.5	5332.6	3338.9	3078.3	3151.1	3296.5	3357.1	3399.5	3363.1	3411.6	3417.7
27.5°	7689.8	5120.5	3120.8	2926.8	3060.2	3169.2	3151.1	3126.8	3042.0	2975.3	3017.7
30°	7944.3	4872.0	2932.9	2823.8	2896.5	2993.5	2920.8	2848.1	2714.8	2605.7	2611.7
32.5°	8307.9	4756.9	2769.3	2702.6	2799.6	2811.7	2732.9	2623.9	2490.5	2387.5	2381.5
35°	8986.6	4684.2	2629.9	2623.9	2642.0	2648.1	2569.3	2436.0	2381.5	2296.6	2326.9
37.5°	9665.3	4647.8	2533.0	2508.7	2502.7	2508.7	2417.8	2290.6	2393.6	2387.5	2399.6
40°	10531.8	4811.4	2393.6	2363.3	2369.4	2369.4	2254.2	2217.9	2399.6	2417.8	2423.9
42.5°	11410.5	5017.4	2302.7	2205.7	2230.0	2230.0	2169.4	2127.0	2254.2	2133.0	2114.8
45°	12174.0	5320.4	2205.7	2048.2	2108.8	2139.1	2120.9	2048.2	1969.4	1763.4	1763.4
47.5°	12422.4	5587.1	2090.6	1896.7	1945.2	2078.5	2023.9	1872.5	1733.1	1563.4	1551.3
50°	12858.7	5877.9	1999.7	1721.0	1824.0	1987.6	1933.1	1781.6	1624.0	1502.8	1508.9
52.5°	13307.1	6211.2	1830.0	1514.9	1642.2	1914.9	1914.9	1745.2	1502.8	1418.0	1405.9
55°	13979.8	6199.1	1527.0	1242.2	1466.5	1805.8	1836.1	1563.4	1345.3	1278.6	1278.6
56°	14076.7	5920.3	1375.6	1163.5	1387.7	1775.5	1781.6	1514.9	1284.7	1211.9	1211.9
57.5°	13349.6	5344.7	1205.9	1066.5	1290.7	1721.0	1727.0	1472.5	1236.2	1133.2	1121.0
60°	10271.2	3617.7	1005.9	951.4	1169.5	1551.3	1581.6	1339.2	1084.7	1005.9	999.9
62.5°	5799.2	2005.8	884.7	860.5	1005.9	1321.0	1411.9	1169.5	921.1	878.7	890.8
65°	2648.1	1102.9	745.3	696.9	812.0	1018.0	1139.2	963.5	757.5	709.0	709.0
67.5°	969.6	751.4	636.3	551.4	569.6	660.5	739.3	624.2	503.0	430.2	448.4
70°	690.8	630.2	557.5	478.7	442.4	430.2	424.2	351.5	248.4	193.9	206.0
72.5°	557.5	521.1	466.6	406.0	345.4	290.9	248.4	181.8	115.1	78.8	72.7
75°	399.9	381.8	339.3	290.9	242.4	206.0	169.7	115.1	60.6	30.3	30.3
77.5°	206.0	206.0	200.0	181.8	151.5	121.2	97.0	66.7	36.4	12.1	12.1
80°	157.6	169.7	175.7	157.6	139.4	109.1	78.8	48.5	24.2	6.1	6.1
82.5°	151.5	175.7	187.9	163.6	139.4	103.0	78.8	48.5	24.2	6.1	6.1
85°	36.4	36.4	54.5	60.6	78.8	84.8	66.7	42.4	18.2	6.1	6.1
87.5°	12.1	12.1	12.1	12.1	12.1	12.1	6.1	6.1	6.1	6.1	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)