

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: P459420

Luminaire Tested: **GALN-SA8D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48137 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

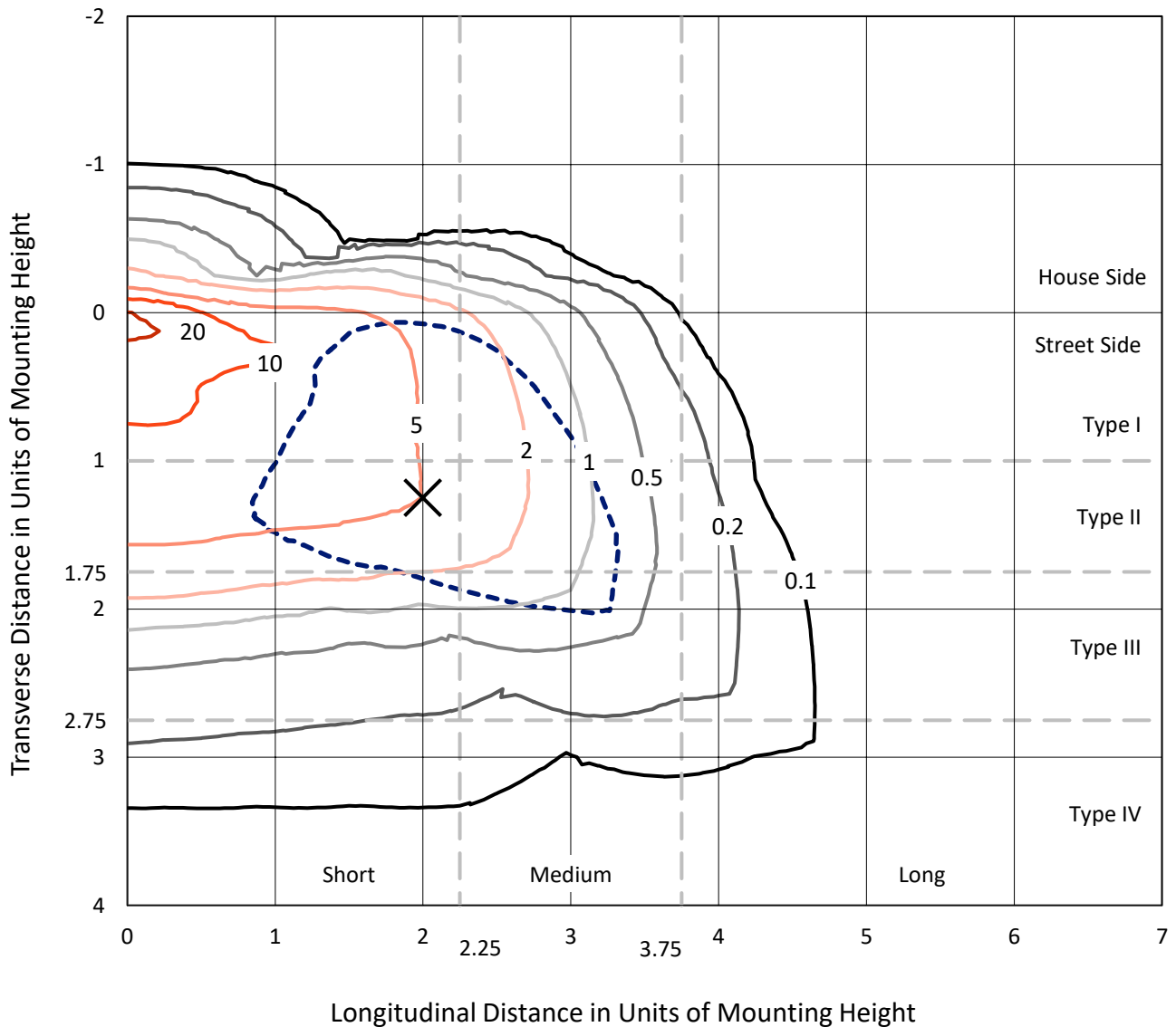
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

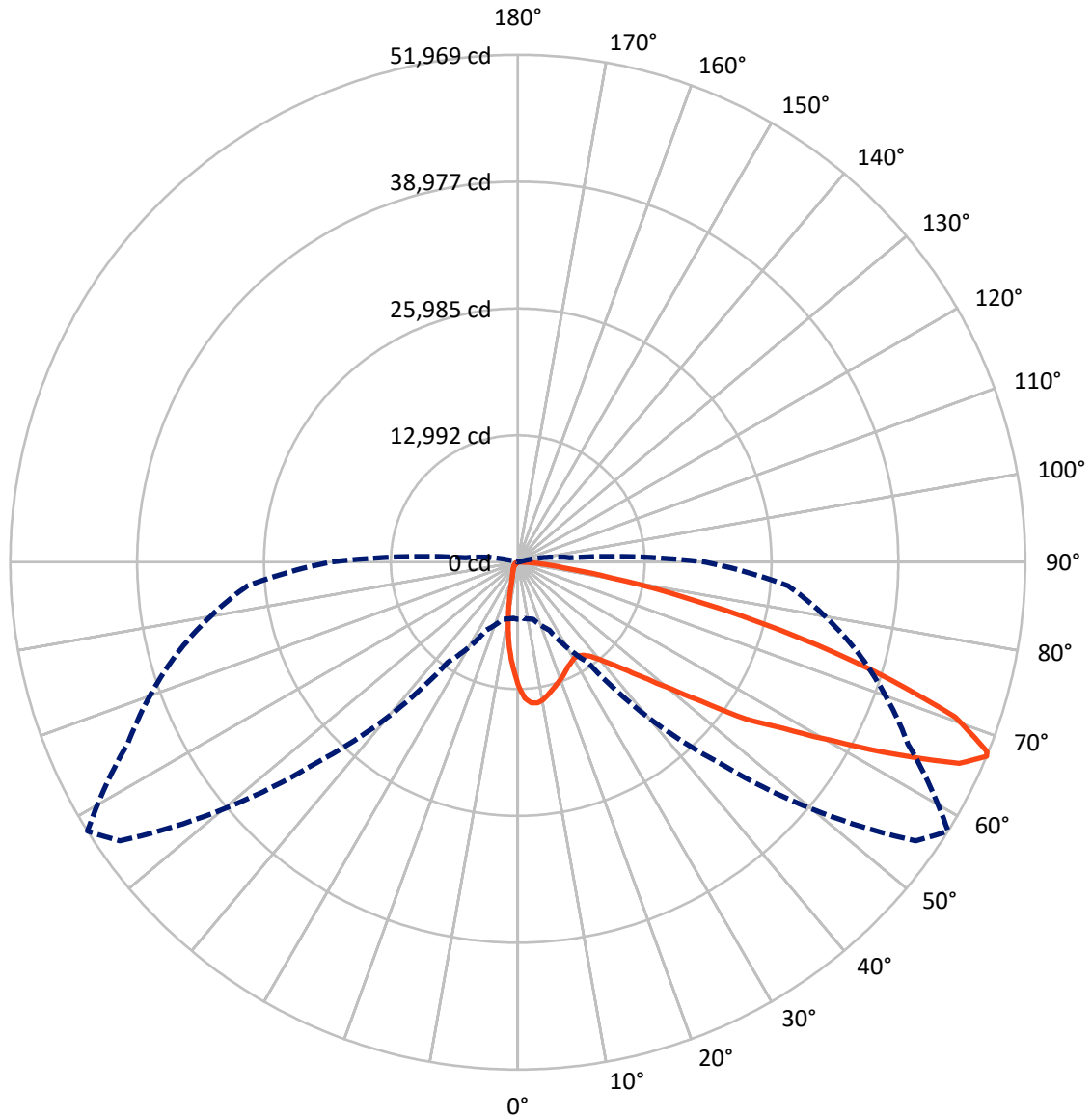
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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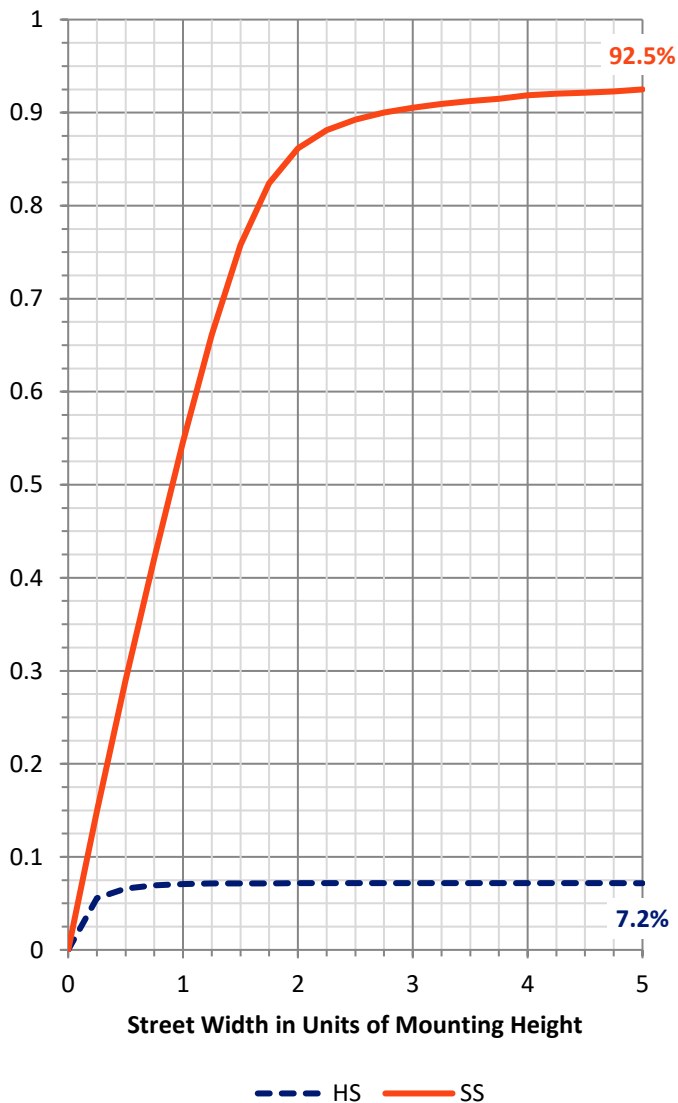
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3473.8	0.0	3473.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	44663.2	0.0	44663.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	48137.0	0.0	48137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.5	2.2
10°-20°	2236.4	4.6
20°-30°	3030.5	6.3
30°-40°	4203.2	8.7
40°-50°	6703.5	13.9
50°-60°	11587.6	24.1
60°-70°	13236.7	27.5
70°-80°	5518.5	11.5
80°-90°	585.1	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°	48137.0	100.0
0°-180°	48137.0	100.0

Coefficient of Utilization



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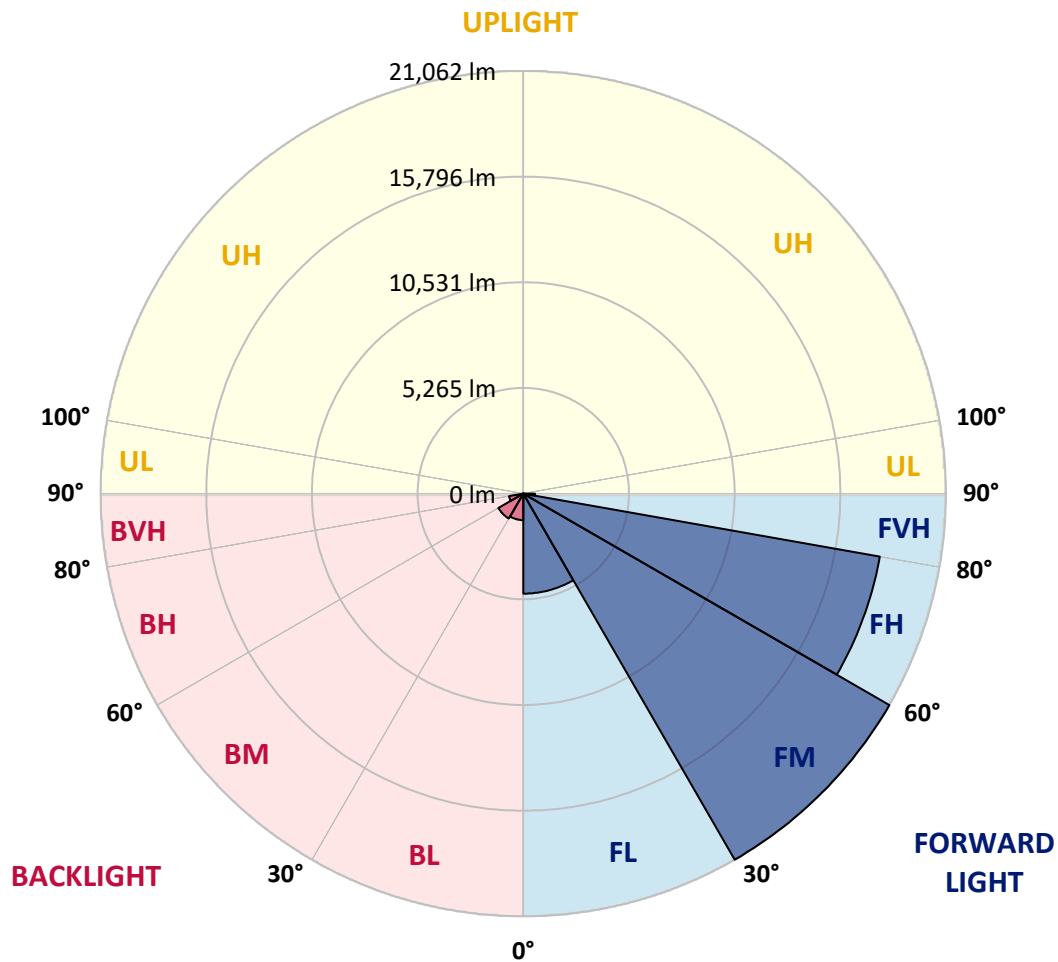
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4983.3	10.4			
FM	(30°-60°)	21061.9	43.8			
FH	(60°-80°)	18037.0	37.5			G5
FVH	(80°-90°)	580.9	1.2			G4/750
BL	(0°-30°)	1319.1	2.7	B3/2500		
BM	(30°-60°)	1432.4	3.0	B2/2500		
BH	(60°-80°)	718.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7
2.5°	14809.7	14832.2	14748.6	14681.1	14507.3	14320.8	14073.1	13941.2	13716.0	13326.8	12895.8
5°	15157.1	15186.1	15173.2	15157.1	15089.6	14909.4	14594.2	14478.4	14147.1	13513.4	12734.9
7.5°	14385.1	14491.3	14504.1	14629.6	14748.6	14764.7	14645.7	14558.8	14253.2	13510.2	12448.7
10°	13362.2	13433.0	13535.9	13680.7	13966.9	14205.0	14320.8	14307.9	14131.0	13410.5	12114.1
12.5°	12329.6	12368.2	12525.9	12773.5	13124.2	13529.5	13838.3	13899.4	13902.6	13291.4	11834.3
15°	11441.8	11425.7	11548.0	11834.3	12326.4	12834.7	13387.9	13484.4	13638.8	13175.6	11573.7
17.5°	10682.7	10766.3	10785.6	11100.9	11554.4	12213.8	12918.3	13088.8	13397.6	13075.9	11358.2
20°	10213.0	10258.1	10299.9	10476.8	10885.3	11580.1	12477.6	12712.4	13172.4	12985.8	11116.9
22.5°	10074.7	10103.7	10068.3	10123.0	10412.5	11030.1	11998.3	12310.3	12956.9	12902.2	10920.7
25°	10180.9	10209.8	10126.2	10061.9	10161.6	10583.0	11535.1	11914.7	12783.2	12886.1	10772.8
27.5°	10438.2	10492.9	10377.1	10261.3	10203.4	10341.7	11171.6	11612.3	12664.2	12963.3	10705.2
30°	10840.3	10872.5	10785.6	10644.1	10512.2	10373.9	10981.8	11403.2	12632.0	13143.5	10698.8
32.5°	11277.8	11345.3	11297.1	11203.8	11033.3	10705.2	11036.5	11409.7	12709.2	13404.0	10779.2
35°	11818.2	11895.4	11940.4	11921.1	11702.4	11293.9	11383.9	11699.2	12915.1	13883.3	10997.9
37.5°	12348.9	12416.5	12670.6	12757.5	12564.5	12178.5	12059.4	12268.5	13368.6	14510.6	11393.6
40°	12956.9	13047.0	13404.0	13735.3	13642.1	13236.7	13018.0	13191.7	14063.4	15456.3	12143.1
42.5°	13539.1	13700.0	14243.6	14829.0	14915.9	14462.3	14317.6	14375.5	15092.8	16816.9	13188.5
45°	14365.8	14517.0	15218.2	16012.8	16421.3	16067.5	15919.5	15909.8	16504.9	18730.9	14883.7
47.5°	15559.2	15694.3	16521.0	17305.9	18032.9	18081.1	17801.3	17897.8	18280.5	20969.7	16961.7
50°	17022.8	17341.3	17884.9	18701.9	19673.4	20458.3	20545.1	20416.4	20744.5	23562.4	19457.9
52.5°	19149.1	19271.3	19769.9	20442.2	21580.9	22912.6	23945.2	23768.2	23665.3	26032.8	21979.8
55°	20734.9	20898.9	21674.2	22597.4	24266.8	26023.2	28262.0	28323.1	27023.6	28406.7	24447.0
57.5°	20255.6	20506.5	21680.6	23536.6	27206.9	30417.2	32083.4	32125.3	30130.9	30713.1	27232.6
60°	17794.8	17913.8	19596.2	22073.0	27457.8	35177.9	37503.6	37165.8	33292.9	33292.9	29693.4
62.5°	12619.1	12805.7	14169.6	17814.1	24797.6	36831.3	43994.9	43296.9	37648.3	35760.1	31160.2
65°	8064.3	7884.1	8788.0	11245.6	18473.5	34389.8	49646.7	49688.5	41746.4	36747.7	30359.3
67°	5841.5	5770.8	6031.3	7687.9	12525.9	28908.5	49765.7	51969.1	44101.1	36123.6	27798.8
67.5°	5343.0	5397.6	5587.4	6935.2	11380.7	26306.2	49225.3	51834.0	44631.8	35747.3	26872.4
70°	4049.8	3956.5	4162.4	4905.5	6822.6	16595.0	42344.7	47539.7	43972.4	32012.7	21471.5
72.5°	2978.7	2969.0	3255.3	4011.2	5252.9	8839.5	31787.5	38118.0	35924.2	24376.2	13519.8
75°	2010.4	2100.5	2557.3	3351.8	4760.7	5732.2	21671.0	27654.0	24939.1	13841.5	5526.3
77.5°	1145.1	1151.6	1647.0	2692.4	4275.0	4612.8	12841.1	17617.9	13201.4	4603.1	1640.5
80°	495.4	543.6	817.0	1955.8	3544.8	4085.2	7363.0	9682.3	5339.7	974.7	530.8
82.5°	183.4	215.5	360.3	1203.0	2586.2	3364.7	4448.7	4622.4	1811.0	344.2	331.3
85°	0.0	6.4	131.9	562.9	1347.8	1502.2	2972.2	2740.6	801.0	164.1	215.5
87.5°	0.0	0.0	0.0	57.9	176.9	559.7	923.2	1029.3	193.0	57.9	51.5
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°	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7	12760.7
2.5°	12664.2	12455.1	11930.8	11406.4	11017.2	10692.3	10203.4	9936.4	9794.9	9585.8	9598.7
5°	12345.7	11921.1	10997.9	10042.6	9270.5	8517.8	7617.2	7253.7	6948.1	6774.4	6658.6
7.5°	11872.9	11245.6	9878.5	8604.7	7417.7	6102.1	5114.6	4455.1	4011.2	3847.2	3689.6
10°	11355.0	10521.8	8743.0	6977.0	5330.1	3972.6	3136.3	2531.5	2316.0	2116.6	2135.9
12.5°	10875.7	9862.4	7700.8	5507.0	3734.6	2525.1	1968.6	1720.9	1650.2	1627.7	1627.7
15°	10483.2	9231.9	6581.4	4139.9	2560.5	1814.2	1576.2	1508.6	1482.9	1476.5	1476.5
17.5°	10065.1	8633.6	5571.3	3059.1	1862.5	1518.3	1437.9	1392.8	1383.2	1376.8	1376.8
20°	9691.9	8032.1	4612.8	2277.4	1505.4	1367.1	1315.6	1286.7	1277.0	1270.6	1273.8
22.5°	9338.1	7498.1	3712.1	1720.9	1325.3	1244.9	1193.4	1164.4	1145.1	1129.1	1132.3
25°	9022.9	6983.5	2985.1	1408.9	1193.4	1122.6	1071.2	1029.3	987.5	968.2	965.0
27.5°	8800.9	6533.1	2325.7	1206.3	1074.4	997.2	932.8	881.4	826.7	797.7	791.3
30°	8617.6	6076.4	1840.0	1064.7	955.4	881.4	801.0	727.0	669.1	640.1	627.3
32.5°	8498.5	5642.1	1450.7	948.9	855.6	765.6	675.5	601.5	537.2	508.2	501.8
35°	8479.2	5278.6	1187.0	852.4	765.6	669.1	575.8	495.4	440.7	411.7	405.3
37.5°	8617.6	4998.8	994.0	775.2	691.6	585.4	482.5	408.5	360.3	337.8	334.5
40°	8987.5	4821.8	862.1	710.9	624.0	508.2	411.7	347.4	299.2	276.6	276.6
42.5°	9691.9	4828.3	775.2	649.8	556.5	434.3	350.6	289.5	247.7	228.4	222.0
45°	10792.1	5047.0	701.2	588.7	492.2	376.4	299.2	238.0	196.2	180.1	180.1
47.5°	12265.3	5481.3	636.9	527.5	434.3	321.7	254.1	193.0	157.6	141.5	141.5
50°	14192.1	6179.3	582.2	476.1	386.0	276.6	205.9	157.6	122.2	109.4	106.2
52.5°	16205.8	7041.4	517.9	431.0	331.3	234.8	167.3	122.2	93.3	83.6	80.4
55°	18428.5	7884.1	456.8	386.0	270.2	196.2	131.9	96.5	67.6	57.9	57.9
57.5°	20670.6	8710.8	382.8	321.7	212.3	144.8	102.9	70.8	45.0	35.4	35.4
60°	22568.4	8977.8	324.9	260.6	160.8	102.9	74.0	45.0	25.7	16.1	16.1
62.5°	22829.0	8077.2	273.4	199.4	115.8	70.8	38.6	25.7	9.7	6.4	6.4
65°	21413.6	6562.1	228.4	151.2	77.2	35.4	16.1	9.7	3.2	0.0	0.0
67°	19187.7	5320.4	186.6	112.6	54.7	22.5	9.7	3.2	0.0	0.0	0.0
67.5°	18618.3	5072.7	180.1	106.2	48.3	19.3	6.4	3.2	0.0	0.0	0.0
70°	14610.3	3798.9	128.7	64.3	29.0	12.9	0.0	0.0	0.0	0.0	0.0
72.5°	9080.8	2148.8	93.3	38.6	19.3	6.4	0.0	0.0	0.0	0.0	0.0
75°	3432.2	752.7	64.3	25.7	12.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1067.9	286.3	38.6	19.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	360.3	109.4	25.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	222.0	45.0	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	138.3	19.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	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)