

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: STREETWORKS

Report Number: P268438

Luminaire Tested: **GAN-AF-04-LED-U-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22886.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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: 28.75 FT

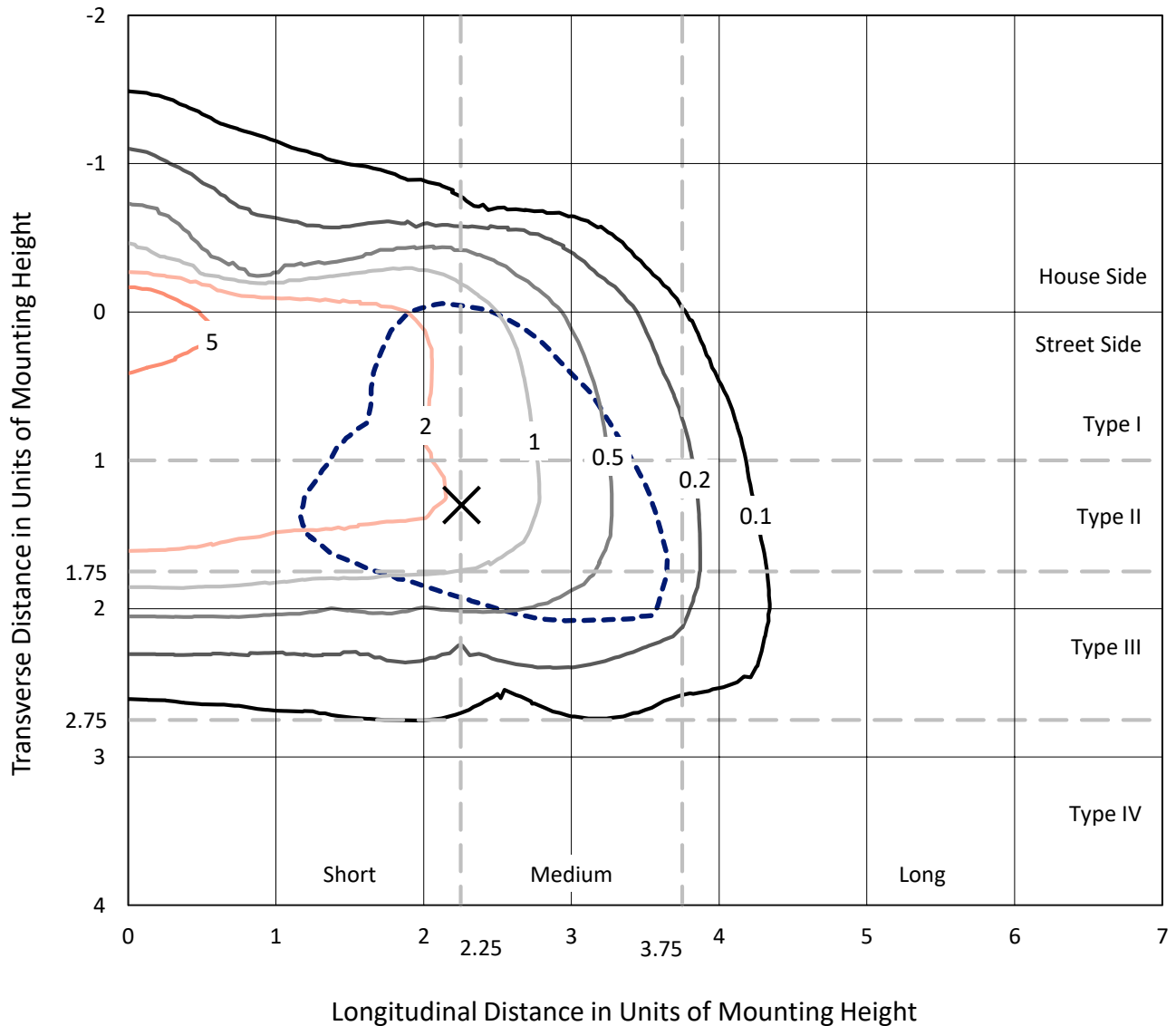


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

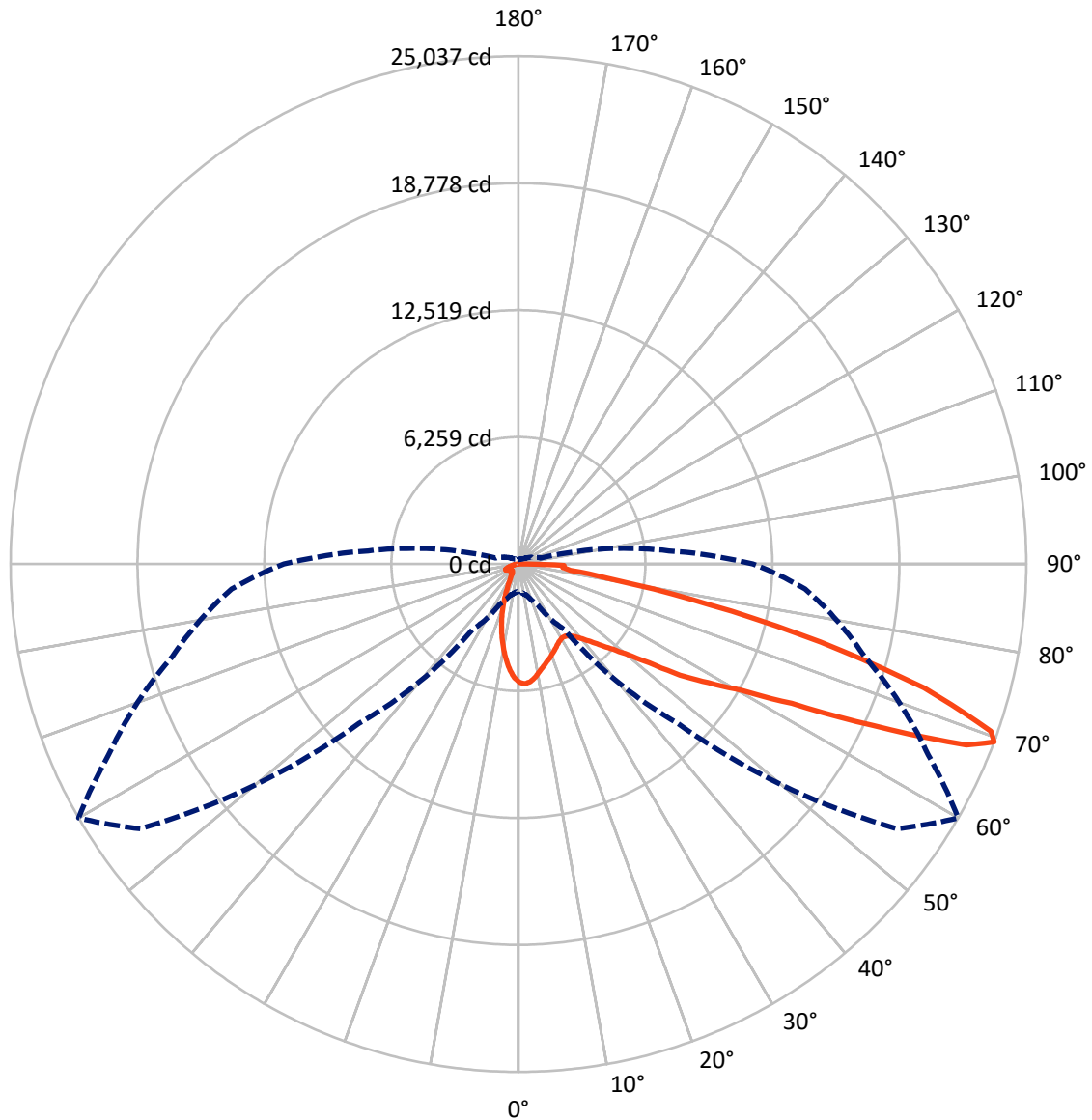


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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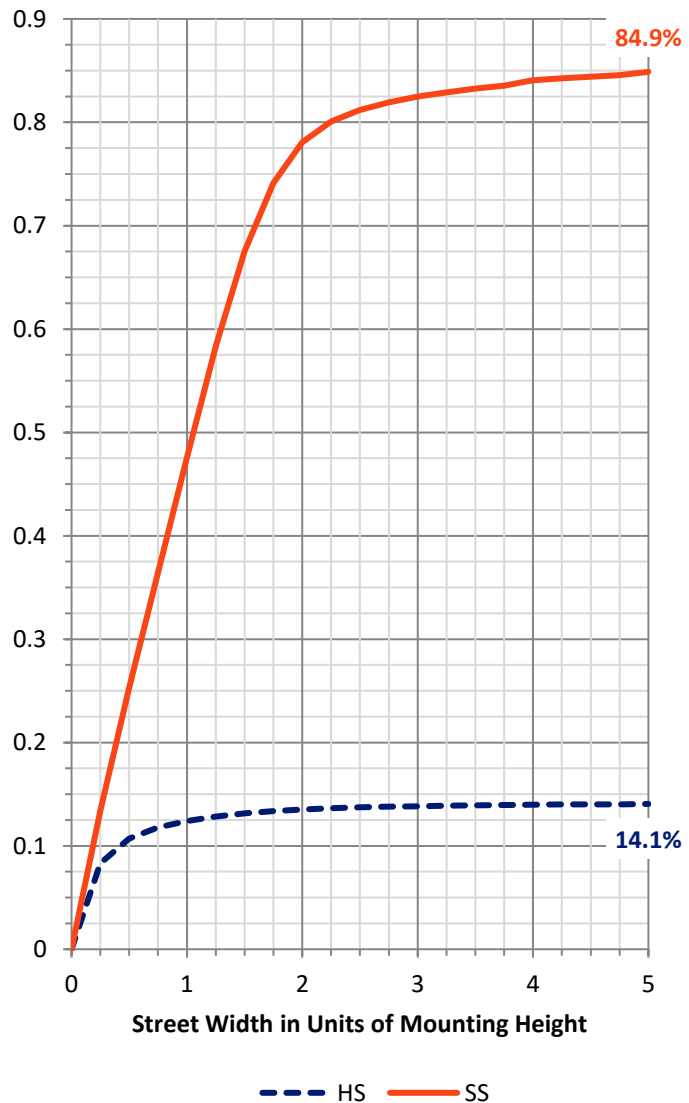
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3256.0	0.0	3256.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19630.2	0.0	19630.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	22886.2	0.0	22886.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.1	2.2
10°-20°	1050.6	4.6
20°-30°	1338.6	5.8
30°-40°	1840.3	8.0
40°-50°	2986.0	13.0
50°-60°	4788.8	20.9
60°-70°	6373.5	27.8
70°-80°	3441.2	15.0
80°-90°	574.2	2.5
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°	22886.2	100.0
0°-180°	22886.2	100.0

Coefficient of Utilization



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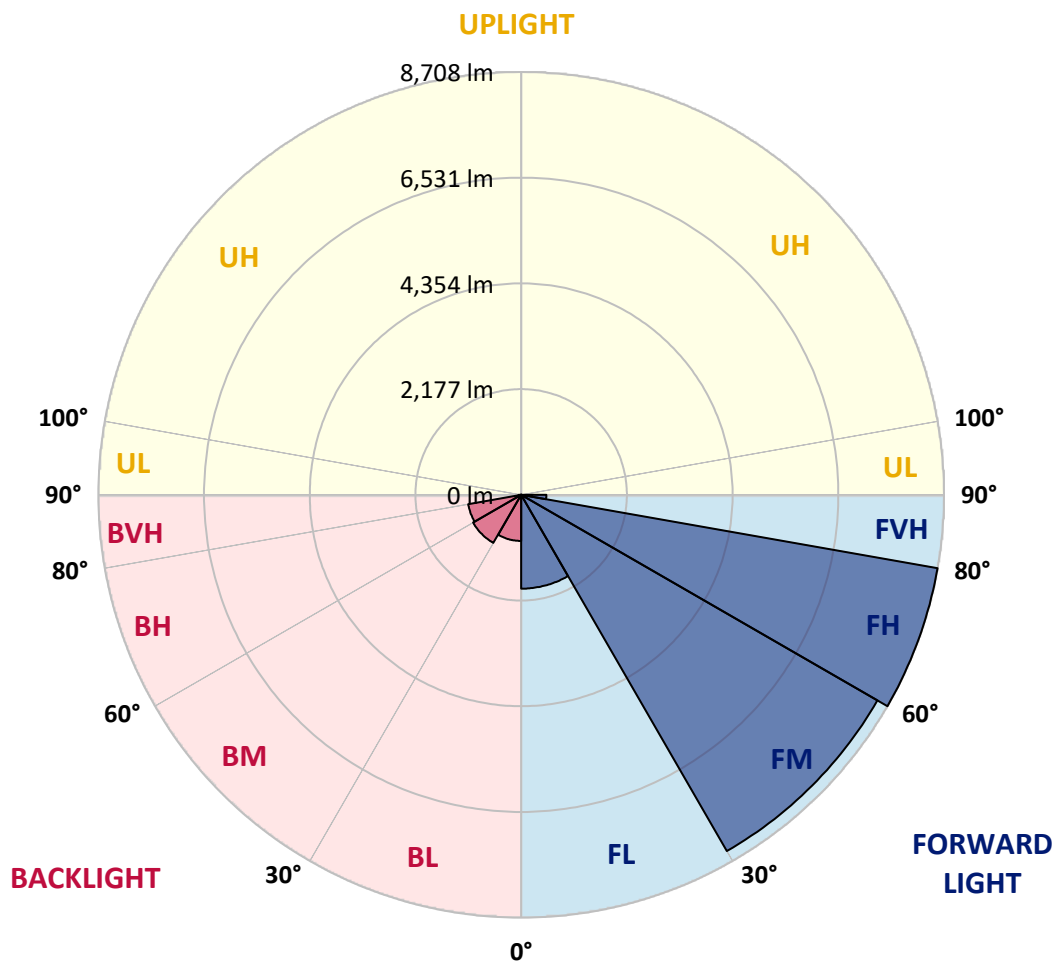
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.4	8.4			
FM	(30°-60°)	8471.1	37.0			
FH	(60°-80°)	8707.8	38.0			G4/12000
FVH	(80°-90°)	518.9	2.3			G4/750
BL	(0°-30°)	949.9	4.2	B2/1000		
BM	(30°-60°)	1143.9	5.0	B2/2500		
BH	(60°-80°)	1106.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	55.3	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7
2.5°	5951.1	5964.3	5958.8	5955.6	5965.6	5950.1	5917.9	5908.1	5892.5	5856.1	5794.2
5°	5727.9	5767.6	5765.4	5795.2	5845.0	5858.2	5844.0	5846.1	5817.3	5772.1	5669.3
7.5°	5342.0	5358.6	5367.5	5432.6	5523.3	5596.4	5658.2	5678.0	5664.8	5626.2	5493.4
10°	4944.0	4957.2	4978.2	5054.6	5169.6	5270.1	5387.3	5454.8	5483.6	5476.8	5328.7
12.5°	4602.3	4615.6	4643.2	4729.5	4866.6	4990.4	5160.8	5244.8	5313.3	5354.2	5195.0
15°	4296.1	4324.9	4351.4	4450.9	4604.6	4767.1	4959.5	5065.6	5171.7	5263.4	5076.6
17.5°	4057.4	4086.1	4101.7	4192.2	4355.8	4554.9	4780.4	4905.4	5038.0	5188.3	4959.5
20°	3919.1	3932.4	3925.9	3976.6	4123.7	4334.9	4602.3	4747.3	4907.5	5117.6	4842.3
22.5°	3880.5	3881.5	3857.2	3851.8	3946.9	4124.7	4412.3	4588.1	4784.8	5071.1	4741.7
25°	3974.5	3971.0	3904.8	3850.7	3860.6	3964.5	4228.7	4433.2	4682.0	5061.2	4664.3
27.5°	4183.3	4193.3	4095.0	3993.2	3892.6	3889.3	4089.4	4304.9	4598.0	5106.5	4631.1
30°	4476.3	4493.0	4388.0	4258.5	4069.5	3913.6	4035.2	4228.7	4546.1	5200.5	4625.6
32.5°	4796.9	4814.6	4735.1	4599.1	4351.4	4064.0	4072.8	4235.4	4543.7	5332.0	4663.2
35°	5138.6	5158.4	5117.6	5002.7	4727.3	4341.5	4216.6	4342.5	4615.6	5533.3	4763.8
37.5°	5519.9	5550.9	5561.9	5452.5	5158.4	4707.4	4452.0	4546.1	4778.2	5812.9	4948.5
40°	6069.5	6112.5	6109.3	5952.3	5652.7	5201.5	4815.8	4840.1	5031.3	6186.6	5243.5
42.5°	7121.9	7130.7	6855.4	6513.9	6196.6	5721.1	5244.8	5224.8	5380.7	6659.9	5678.0
45°	8460.7	8424.2	7811.8	7151.8	6764.9	6318.1	5803.1	5705.8	5824.0	7236.8	6222.0
47.5°	9571.8	9487.8	8713.9	7802.9	7366.2	6967.2	6458.6	6288.3	6353.5	7891.4	6925.2
50°	9957.6	9894.7	9253.4	8344.6	7935.5	7758.8	7265.6	7024.7	7042.4	8671.9	7748.8
52.5°	9874.7	9865.8	9438.0	8701.7	8468.5	8590.1	8408.8	8082.6	7910.1	9538.7	8637.7
55°	9679.1	9697.8	9543.1	9117.4	9077.6	9392.7	9902.3	9661.4	9125.2	10413.2	9556.3
57.5°	8999.1	9047.8	9388.2	9640.3	10058.2	10527.0	11105.1	11036.7	10433.0	11358.3	10648.6
60°	7250.2	7362.9	8276.2	9538.7	11067.6	12533.5	12792.3	12633.0	11781.8	12531.4	12091.4
62.5°	5079.9	5197.1	6282.8	8258.4	10901.8	14799.9	15808.2	15121.7	13718.6	14259.3	13958.7
65°	2719.7	2776.0	3605.2	5730.1	9203.7	15267.6	20215.9	19171.3	16785.5	16389.7	15556.0
67.5°	1500.2	1531.3	1848.4	2893.3	5894.8	13444.6	23024.1	23813.3	20618.3	17808.1	15265.3
69°	1356.5	1385.2	1593.1	2191.1	3944.5	11116.3	22749.8	25037.3	22298.8	17667.8	14190.7
70°	1326.6	1353.1	1540.1	2019.7	3192.8	9162.7	21831.1	24724.4	22699.0	17164.6	13253.2
72.5°	1193.9	1222.8	1404.1	1814.1	2728.5	4568.2	17292.9	20904.7	20608.5	14882.8	10052.8
75°	1113.3	1139.8	1447.2	1776.6	2612.5	2890.9	11400.4	15406.9	15149.2	10410.8	5420.6
77.5°	476.6	474.2	671.0	1503.6	2651.1	2799.3	6125.8	9624.9	8781.3	4449.8	1556.7
80°	318.4	312.9	318.4	442.2	2431.2	2814.7	3209.5	4885.4	3690.2	1134.3	767.2
82.5°	274.2	269.8	279.7	269.8	854.6	3212.7	2728.5	2598.0	1754.5	644.5	380.3
85°	184.6	176.8	241.0	242.2	403.5	2854.5	3073.5	2194.5	1419.5	382.5	187.9
87.5°	88.5	86.2	140.4	171.3	236.7	1159.7	3448.2	2248.6	1431.7	195.7	89.6
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°	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7	5831.7
2.5°	5775.4	5730.1	5685.8	5632.7	5577.4	5515.6	5484.6	5453.7	5446.0	5437.1	5406.1
5°	5616.2	5552.1	5441.6	5319.9	5191.7	5066.7	4971.6	4911.9	4866.6	4843.4	4802.5
7.5°	5410.5	5316.6	5123.2	4913.0	4697.4	4500.7	4330.4	4223.2	4121.5	4074.0	4019.7
10°	5214.8	5074.4	4773.8	4464.1	4154.7	3857.2	3577.5	3379.7	3203.9	3105.5	3035.8
12.5°	5046.8	4854.4	4437.6	4018.7	3594.1	3170.7	2751.7	2422.3	2146.9	2002.1	1928.0
15°	4883.1	4651.1	4118.2	3586.5	3041.3	2465.4	1914.7	1541.1	1313.4	1222.8	1191.8
17.5°	4735.1	4437.6	3797.6	3150.9	2470.9	1774.4	1286.8	1081.2	993.9	964.1	954.1
20°	4574.8	4222.0	3464.8	2695.4	1876.1	1240.4	1004.9	914.2	878.9	870.1	865.6
22.5°	4420.0	4009.9	3146.4	2207.8	1347.6	957.5	863.5	825.8	820.3	828.1	828.1
25°	4288.4	3819.7	2802.5	1698.2	989.5	805.9	772.8	763.9	784.8	813.7	819.3
27.5°	4190.1	3663.7	2436.7	1253.7	788.3	700.9	699.8	714.2	766.2	821.4	832.5
30°	4122.6	3515.6	2045.3	904.4	661.2	616.9	634.7	665.6	741.8	820.3	841.4
32.5°	4088.2	3406.3	1637.3	699.8	566.0	541.7	571.6	609.1	684.2	757.4	784.8
35°	4114.9	3325.4	1252.5	583.7	499.6	481.0	511.9	548.3	592.6	623.6	644.5
37.5°	4214.4	3293.5	945.2	523.0	454.5	436.7	461.0	482.0	499.6	508.5	518.5
40°	4428.9	3327.7	757.4	491.9	428.9	406.8	416.9	424.4	435.6	444.4	448.9
42.5°	4744.9	3430.4	678.8	479.9	415.6	383.7	381.4	384.7	399.0	415.6	419.0
45°	5187.3	3611.8	673.3	487.5	409.1	364.8	354.9	359.3	381.4	406.8	411.2
47.5°	5752.1	3888.3	717.4	510.7	414.6	354.9	338.3	343.8	371.4	405.8	411.2
50°	6436.4	4274.0	791.5	545.0	438.9	357.0	332.7	336.1	364.8	402.4	407.9
52.5°	7244.7	4821.3	872.3	578.1	464.3	371.4	337.3	329.5	356.0	389.1	395.9
55°	8143.5	5523.3	955.2	608.1	477.5	389.1	346.0	320.6	339.4	367.0	372.5
57.5°	9246.8	6505.0	1098.8	636.8	486.4	401.4	354.9	311.7	318.4	338.3	342.8
60°	10740.3	7893.5	1352.0	684.2	506.4	405.8	353.8	304.0	297.3	308.5	310.6
62.5°	12530.3	9401.5	1563.2	744.1	539.5	409.1	347.1	298.4	279.7	279.7	281.9
65°	13592.7	9805.1	1446.0	793.8	567.1	405.8	339.4	292.9	266.4	254.3	255.4
67.5°	12691.7	8623.3	1239.3	803.8	566.0	390.3	327.3	283.1	253.1	234.4	233.3
69°	11563.0	7440.3	1146.4	777.3	539.5	370.3	311.7	271.9	243.3	223.3	222.2
70°	10653.0	6718.5	1085.6	748.5	510.7	356.0	299.7	262.0	235.4	216.8	214.4
72.5°	7745.5	4402.2	927.6	643.5	421.2	298.4	258.7	230.0	210.1	199.1	196.8
75°	3870.4	2099.3	752.9	521.8	322.9	238.8	212.3	192.3	182.4	180.2	179.1
77.5°	1271.5	961.8	538.4	389.1	239.8	186.8	171.3	156.9	154.8	161.4	159.2
80°	698.7	559.5	341.6	257.6	163.6	137.1	134.8	127.1	130.4	141.6	139.2
82.5°	356.0	290.7	211.1	154.8	110.5	98.4	107.3	102.9	107.3	117.1	116.2
85°	175.8	159.2	133.8	94.0	72.9	63.1	76.3	79.6	81.8	89.6	89.6
87.5°	101.7	94.0	70.7	44.2	36.6	33.1	44.2	43.1	50.8	55.2	54.2
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)