

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: P323962

Luminaire Tested: **GAN-SA8B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27326 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

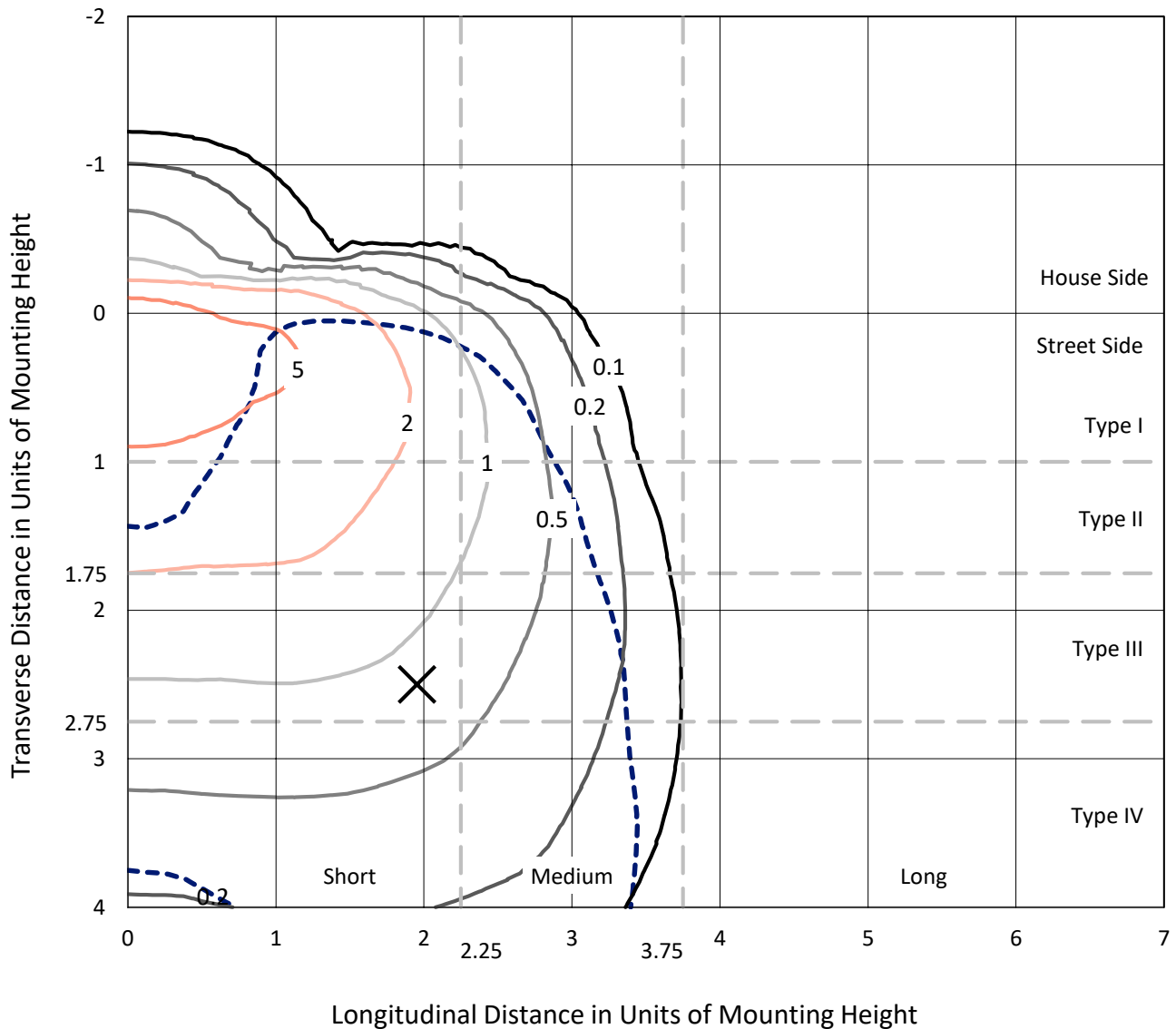
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

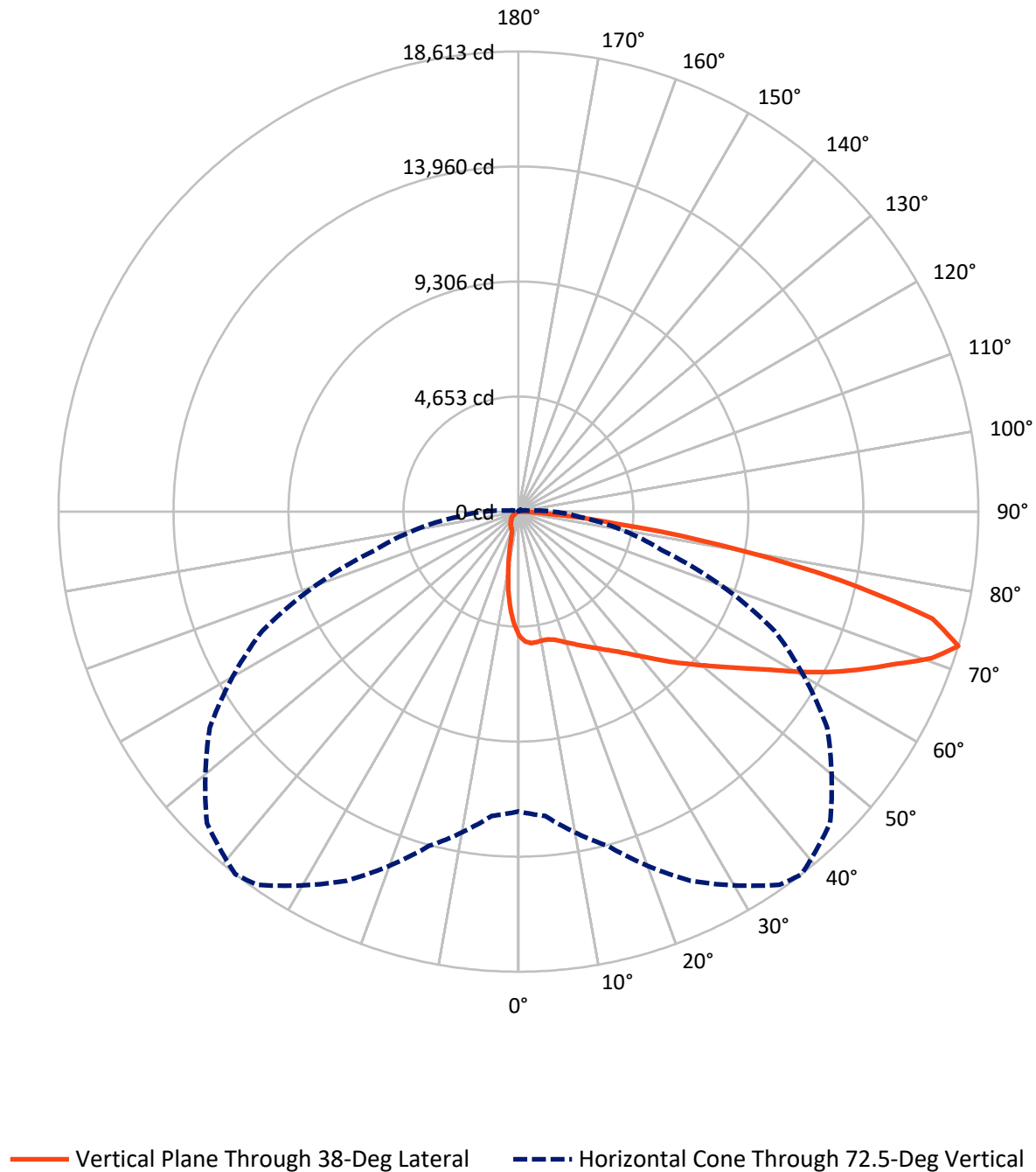
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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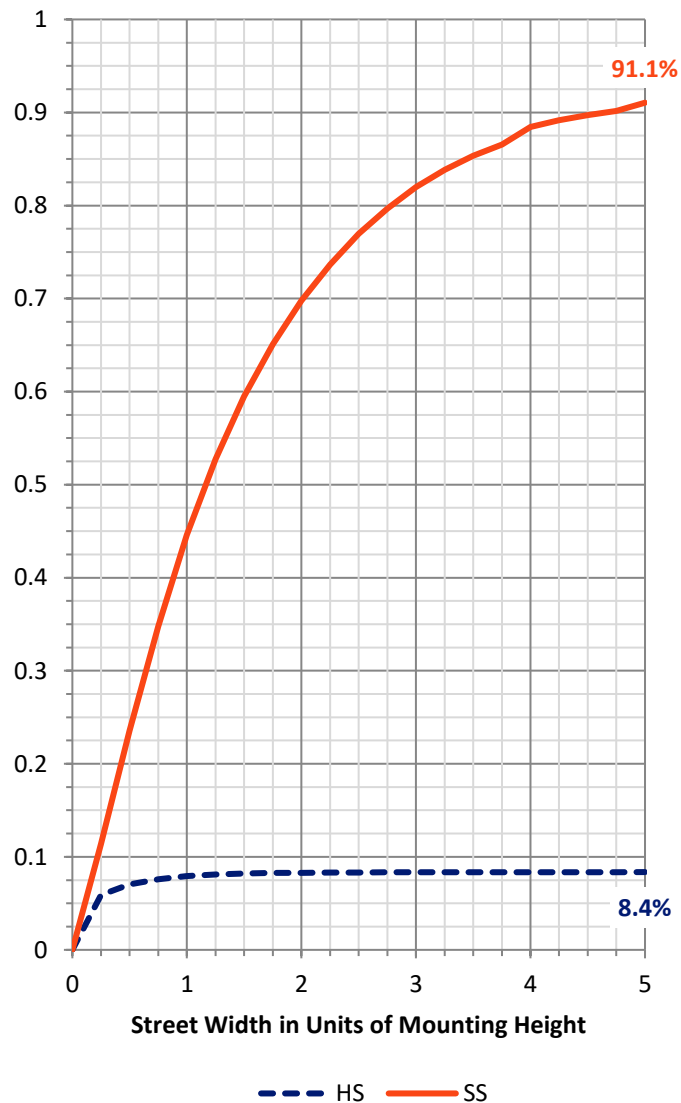
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2299.6	0.0	2299.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25026.4	0.0	25026.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	27326.0	0.0	27326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	1.6
10°-20°	1047.1	3.8
20°-30°	1665.5	6.1
30°-40°	2503.8	9.2
40°-50°	3819.8	14.0
50°-60°	5398.6	19.8
60°-70°	6771.7	24.8
70°-80°	5063.3	18.5
80°-90°	627.8	2.3
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°	27326.0	100.0
0°-180°	27326.0	100.0

Coefficient of Utilization



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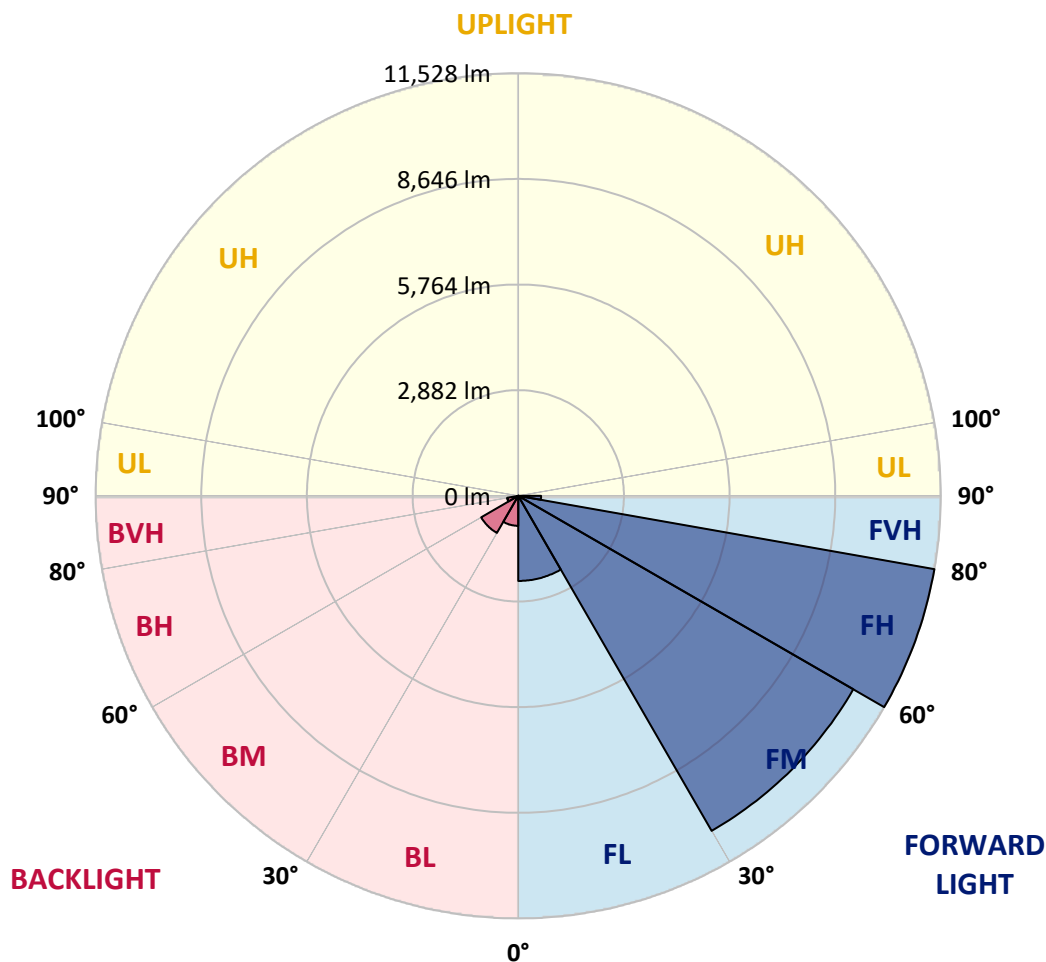
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2322.0	8.5			
FM	(30°-60°)	10554.5	38.6			
FH	(60°-80°)	11527.9	42.2			G4/12000
FVH	(80°-90°)	622.0	2.3			G4/750
BL	(0°-30°)	818.8	3.0	B2/1000		
BM	(30°-60°)	1167.8	4.3	B2/2500		
BH	(60°-80°)	307.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2
2.5°	5333.8	5335.0	5322.5	5302.1	5276.0	5262.3	5239.6	5203.3	5164.7	5095.5	5020.6
5°	5442.8	5442.8	5426.9	5399.7	5357.7	5345.2	5302.1	5244.2	5164.7	5052.4	4926.4
7.5°	5431.4	5433.7	5412.1	5383.8	5341.8	5330.4	5278.2	5213.5	5114.8	4978.6	4817.5
10°	5372.4	5378.1	5361.1	5347.5	5308.9	5296.4	5247.6	5182.9	5084.2	4938.9	4753.9
12.5°	5312.3	5318.0	5323.6	5336.1	5312.3	5307.7	5269.2	5214.7	5120.5	4969.6	4760.7
15°	5273.7	5285.0	5325.9	5374.7	5380.4	5375.8	5350.9	5299.8	5204.5	5047.9	4809.5
17.5°	5273.7	5291.9	5377.0	5470.0	5502.9	5506.3	5484.8	5413.3	5299.8	5131.8	4854.9
20°	5318.0	5342.9	5475.7	5607.3	5661.8	5661.8	5619.8	5520.0	5387.2	5207.9	4885.6
22.5°	5431.4	5464.4	5631.2	5783.2	5841.1	5828.6	5771.9	5626.6	5478.0	5294.1	4924.2
25°	5655.0	5680.0	5853.6	6006.8	6042.0	6013.6	5942.1	5756.0	5593.7	5411.0	4994.5
27.5°	5943.3	5946.7	6126.0	6255.3	6233.8	6214.5	6124.8	5918.3	5760.6	5577.8	5116.0
30°	6259.9	6259.9	6417.6	6516.4	6450.5	6434.7	6345.0	6114.6	5973.9	5804.8	5288.4
32.5°	6566.3	6579.9	6708.2	6770.6	6696.8	6680.9	6593.5	6363.2	6257.6	6150.9	5557.4
35°	6862.5	6872.7	6994.1	7028.2	6957.8	6962.4	6900.0	6704.8	6665.0	6651.4	5962.6
37.5°	7149.6	7151.9	7275.6	7297.2	7262.0	7300.6	7306.2	7133.7	7207.5	7317.6	6533.4
40°	7411.8	7414.0	7536.6	7592.2	7652.4	7702.3	7746.6	7654.6	7898.6	8154.0	7213.2
42.5°	7621.7	7645.6	7801.0	7906.6	8065.5	8160.8	8281.1	8276.5	8721.4	9105.0	8034.8
45°	7806.7	7847.6	8064.3	8249.3	8521.7	8673.7	8862.1	9009.7	9647.4	10163.8	8866.7
47.5°	8050.7	8089.3	8336.7	8639.7	9002.8	9202.6	9514.7	9833.6	10665.4	11203.3	9679.2
50°	8394.6	8377.5	8621.5	9056.2	9522.6	9784.8	10229.6	10707.4	11675.4	12109.0	10157.0
52.5°	8761.1	8754.3	8934.8	9509.0	10135.4	10441.8	11029.7	11610.8	12641.2	12733.1	10376.0
55°	9215.1	9166.3	9318.3	10025.4	10862.9	11192.0	11884.3	12505.0	13410.6	13084.9	10486.1
57.5°	9690.6	9610.0	9755.3	10600.7	11683.4	12072.6	12830.7	13376.6	13922.5	13325.5	10485.0
60°	10182.0	10086.6	10259.1	11320.2	12702.5	13153.0	13856.6	13965.6	14400.2	13447.0	10407.8
62.5°	10592.8	10536.0	10792.5	12089.7	13840.8	14283.4	14631.8	14501.2	14803.1	13541.2	10227.4
65°	11027.4	11030.8	11445.1	12987.3	15050.5	15349.0	15378.5	15195.8	15140.2	13521.9	9616.8
67.5°	11615.3	11669.8	12360.9	14206.2	16227.4	16457.7	16455.5	15948.2	15386.4	12754.7	8262.9
70°	12237.2	12365.4	13416.3	15600.9	17512.0	17745.8	17625.5	16427.1	14487.6	10313.6	5847.9
72.5°	12132.8	12355.2	14003.0	16480.4	18434.7	18612.8	17830.9	15250.3	11450.7	5994.3	2489.9
75°	9360.3	9617.9	12839.8	15608.9	17466.6	17306.6	15320.6	11867.2	6257.6	1672.8	560.6
77.5°	4944.6	5081.9	8481.9	11891.1	13619.5	13284.7	10792.5	6583.3	1907.7	414.2	251.9
80°	2589.8	2621.5	3696.2	6746.7	8405.9	8408.2	6396.1	2891.6	786.5	212.2	169.1
82.5°	1386.8	1414.0	1953.1	3117.5	4404.4	3992.4	2449.0	1591.1	457.3	120.3	162.3
85°	333.6	339.3	1107.6	1424.2	1731.8	1237.0	727.4	1335.7	123.7	70.4	131.6
87.5°	128.2	130.5	410.8	616.2	441.5	286.0	340.5	498.2	15.9	27.2	20.4
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°	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2	5025.2
2.5°	4975.2	4945.7	4873.1	4781.2	4699.5	4640.4	4551.9	4494.0	4455.5	4454.3	4439.6
5°	4849.3	4789.1	4632.5	4446.4	4277.3	4125.2	3945.9	3804.1	3698.5	3681.5	3645.2
7.5°	4714.2	4615.5	4374.9	4084.4	3800.6	3512.4	3177.6	2969.9	2791.8	2706.6	2697.6
10°	4631.4	4492.9	4151.3	3731.4	3286.6	2817.9	2379.8	2076.8	1857.8	1795.3	1748.8
12.5°	4614.3	4431.6	3978.8	3400.0	2764.5	2144.9	1660.3	1338.0	1163.2	1107.6	1092.9
15°	4631.4	4403.3	3833.6	3072.1	2235.7	1521.8	1114.4	927.2	861.4	845.5	844.3
17.5°	4641.6	4369.2	3669.0	2707.8	1722.7	1087.2	853.4	798.9	788.7	787.6	789.9
20°	4640.4	4317.0	3472.7	2301.5	1281.3	854.5	771.7	760.4	758.1	759.2	758.1
22.5°	4632.5	4255.7	3257.0	1882.7	968.0	763.8	736.5	729.7	728.6	728.6	728.6
25°	4647.3	4206.9	3019.9	1482.1	797.8	721.8	704.7	699.1	697.9	697.9	695.7
27.5°	4700.6	4179.7	2760.0	1140.5	720.6	684.3	670.7	669.6	666.2	665.0	667.3
30°	4786.8	4179.7	2475.1	887.5	674.1	645.7	635.5	633.3	632.1	631.0	632.1
32.5°	4938.9	4211.5	2164.2	737.7	629.8	602.6	595.8	599.2	595.8	595.8	595.8
35°	5213.5	4306.8	1838.5	643.5	583.3	560.6	553.8	558.4	556.1	556.1	554.9
37.5°	5614.2	4483.8	1510.5	586.7	542.5	518.6	509.6	516.4	514.1	514.1	513.0
40°	6102.1	4741.4	1198.4	543.6	502.7	477.8	469.8	473.2	467.6	467.6	469.8
42.5°	6704.8	5068.3	926.0	501.6	463.0	439.2	434.7	431.2	421.0	415.4	416.5
45°	7374.3	5408.7	721.8	460.8	425.6	406.3	399.5	390.4	373.4	362.0	363.2
47.5°	7972.4	5670.9	586.7	421.0	391.5	376.8	366.6	349.5	324.6	311.0	312.1
50°	8286.7	5710.6	499.3	381.3	359.8	345.0	330.2	304.1	274.6	259.9	258.7
52.5°	8367.3	5524.5	434.7	345.0	328.0	311.0	291.7	256.5	223.6	207.7	205.4
55°	8396.8	5240.8	376.8	311.0	293.9	274.6	249.7	209.9	179.3	163.4	162.3
57.5°	8299.2	4817.5	331.4	280.3	259.9	236.1	205.4	168.0	138.5	126.0	126.0
60°	8082.5	4244.4	296.2	247.4	224.7	197.5	165.7	130.5	103.3	93.1	93.1
62.5°	7650.1	3502.2	263.3	213.4	191.8	163.4	133.9	98.7	72.6	67.0	68.1
65°	6834.1	2656.7	230.4	182.7	163.4	135.0	104.4	70.4	48.8	48.8	51.1
67.5°	5573.3	1845.3	196.3	155.5	140.7	110.1	79.4	48.8	34.0	38.6	43.1
70°	3689.4	1035.0	168.0	128.2	120.3	87.4	59.0	32.9	27.2	36.3	44.3
72.5°	1392.5	402.9	140.7	103.3	104.4	67.0	42.0	25.0	25.0	39.7	52.2
75°	388.1	197.5	101.0	76.0	81.7	48.8	30.6	21.6	23.8	45.4	61.3
77.5°	228.1	145.3	65.8	44.3	55.6	34.0	20.4	17.0	20.4	38.6	59.0
80°	183.8	77.2	38.6	22.7	30.6	19.3	13.6	10.2	5.7	14.8	30.6
82.5°	183.8	46.5	18.2	15.9	15.9	10.2	6.8	4.5	1.1	0.0	7.9
85°	123.7	19.3	11.3	10.2	7.9	3.4	2.3	1.1	0.0	0.0	0.0
87.5°	20.4	7.9	4.5	2.3	1.1	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)