

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: P323351

Luminaire Tested: **GAN-SA7A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21696 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

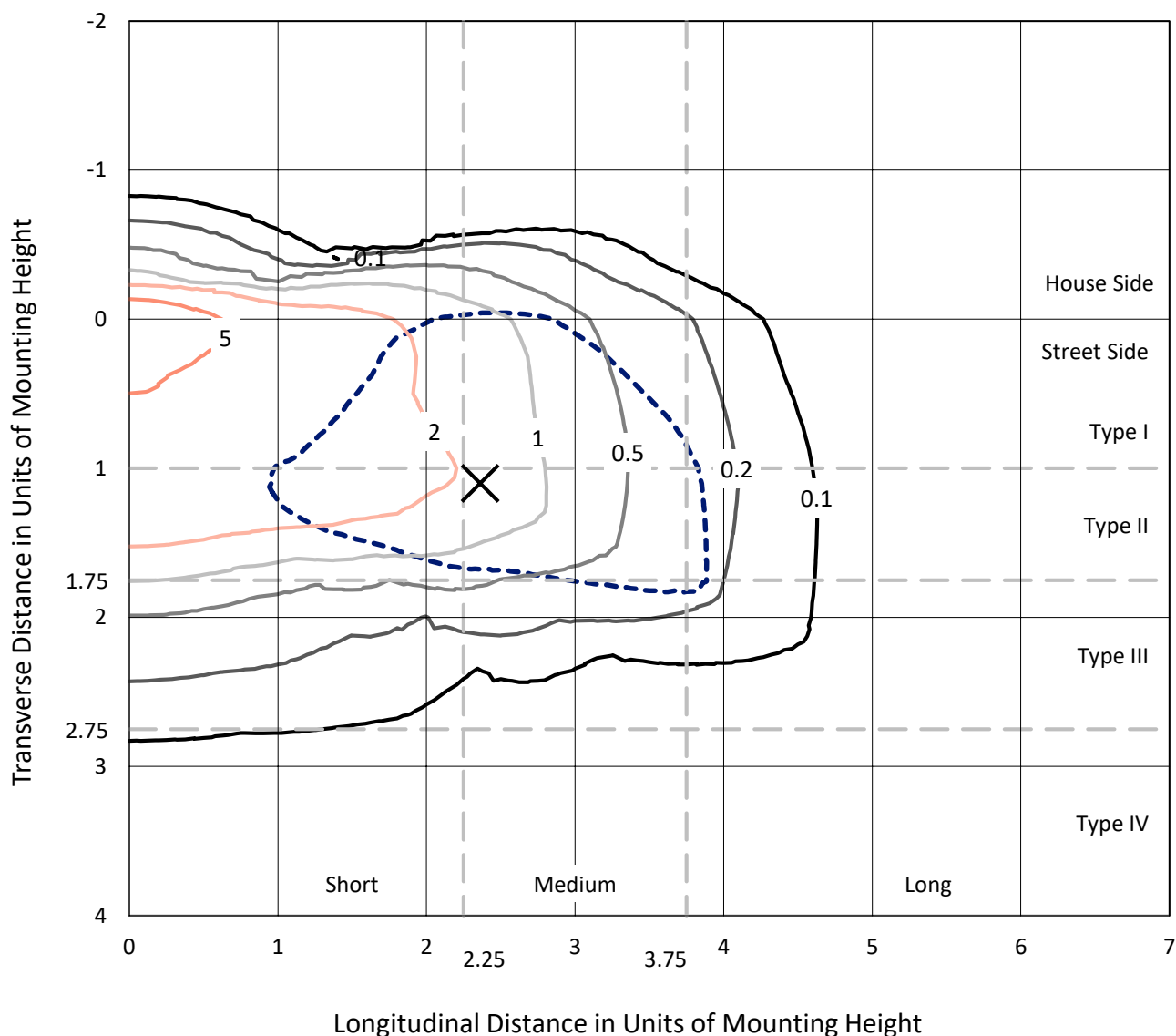
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

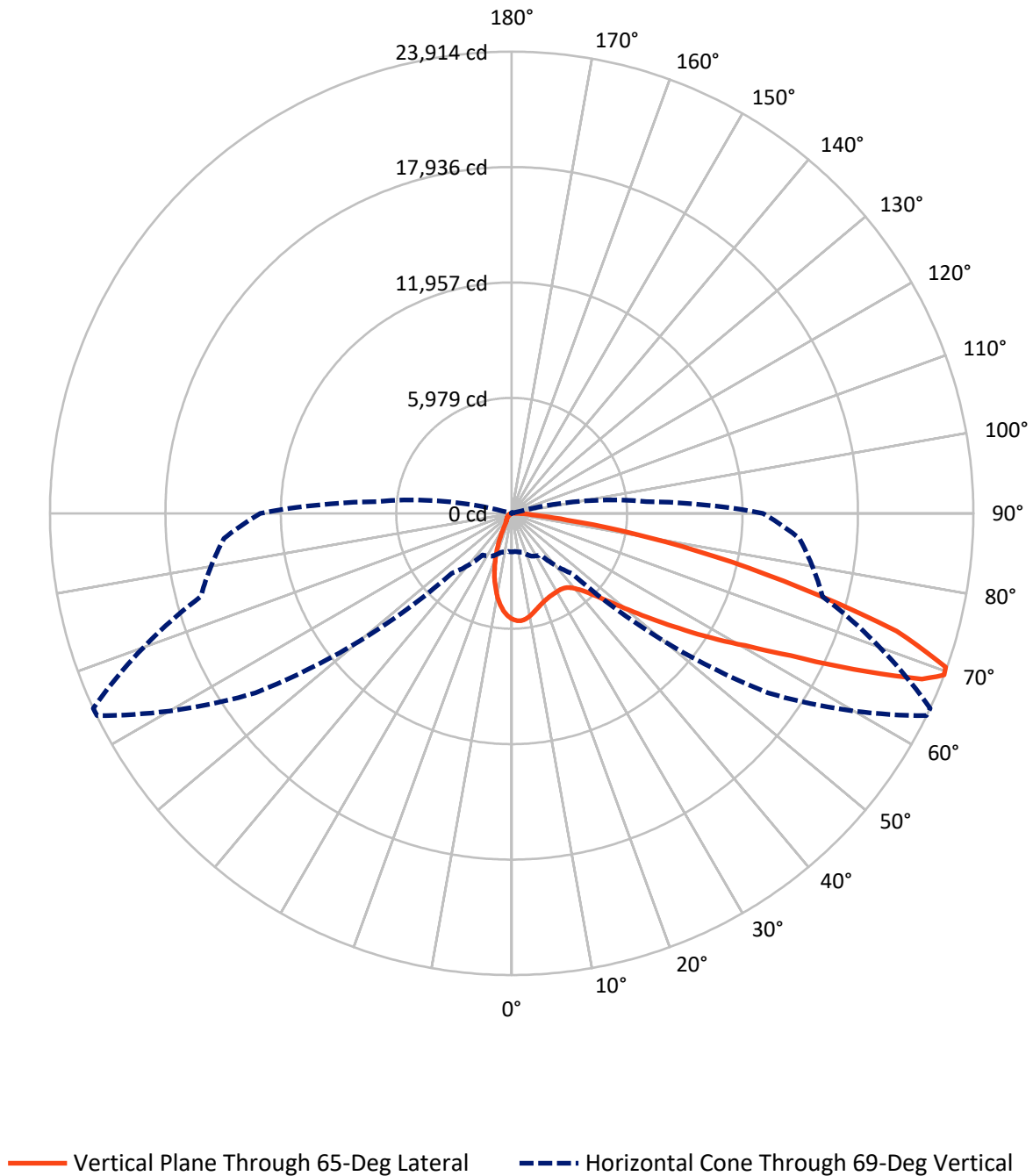
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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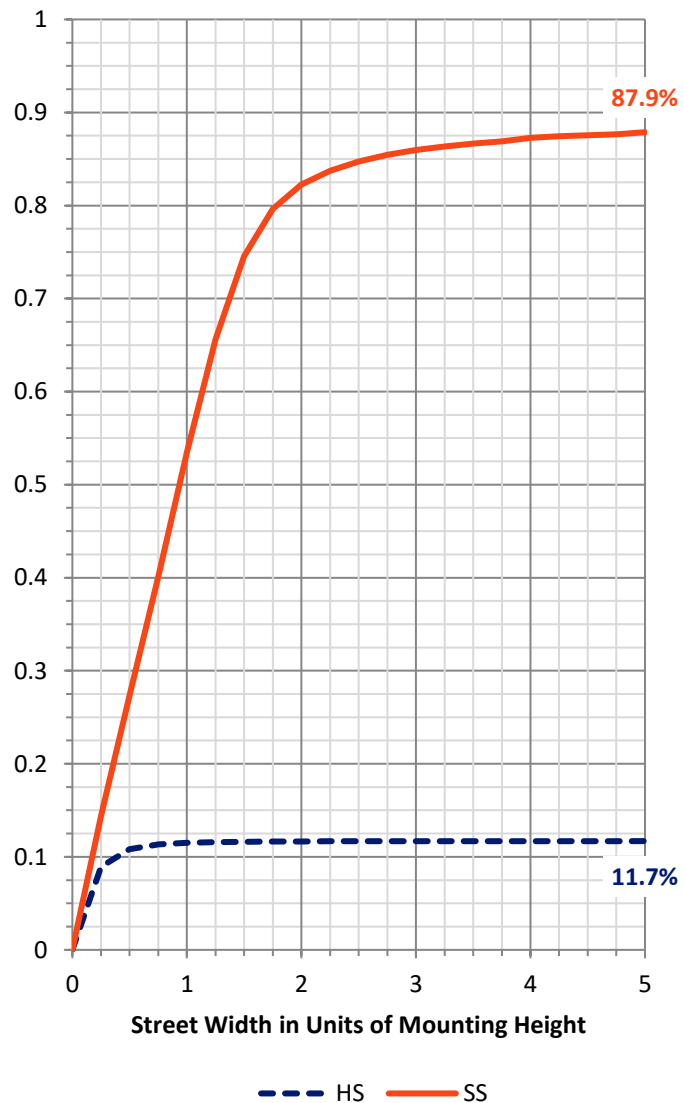
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.4	0.0	2557.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19138.6	0.0	19138.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	21696.0	0.0	21696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	2.1
10°-20°	1003.6	4.6
20°-30°	1390.0	6.4
30°-40°	1938.1	8.9
40°-50°	3012.5	13.9
50°-60°	4836.2	22.3
60°-70°	5470.5	25.2
70°-80°	3212.9	14.8
80°-90°	373.7	1.7
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°	21696.0	100.0
0°-180°	21696.0	100.0

Coefficient of Utilization



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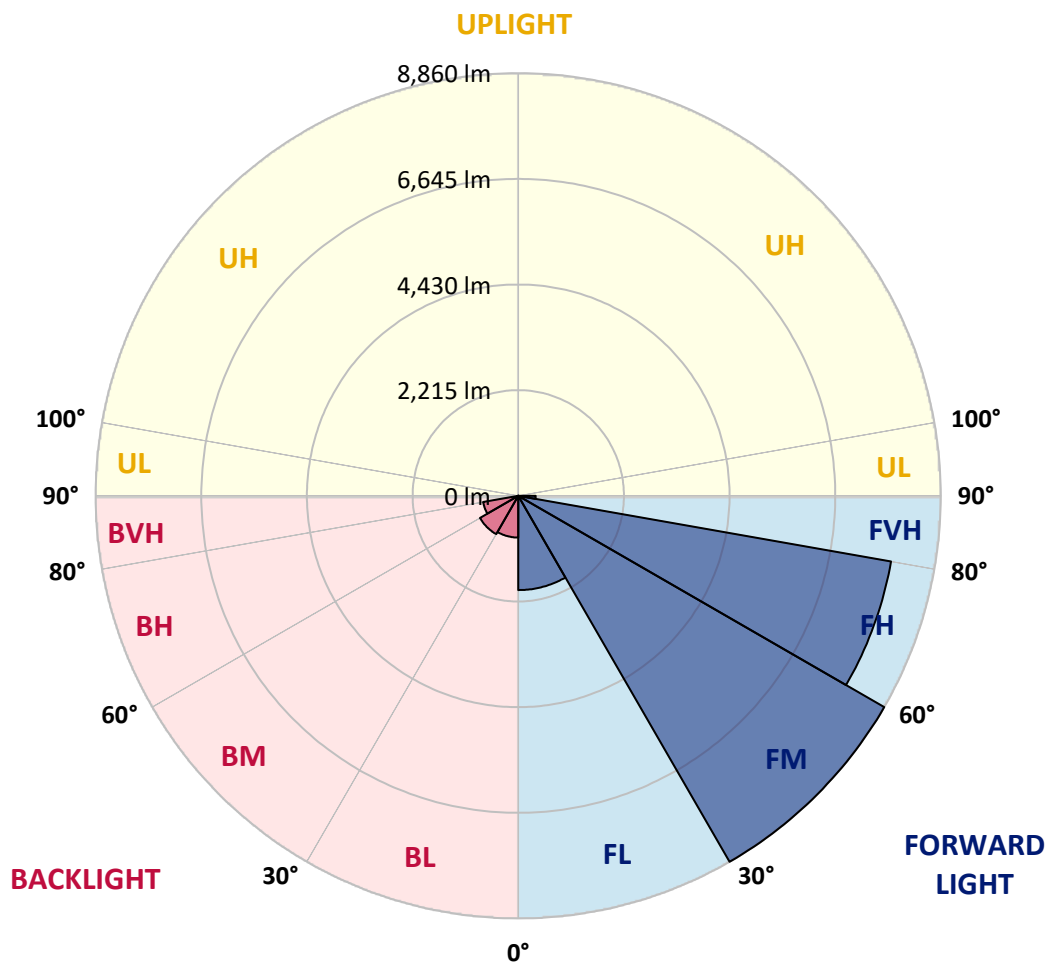
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.0	9.1			
FM	(30°-60°)	8860.0	40.8			
FH	(60°-80°)	7936.2	36.6			G4/12000
FVH	(80°-90°)	365.3	1.7			G3/500
BL	(0°-30°)	875.0	4.0	B2/1000		
BM	(30°-60°)	926.8	4.3	B1/1000		
BH	(60°-80°)	747.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	8.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6
2.5°	5531.3	5517.5	5528.5	5552.4	5564.3	5564.3	5573.5	5562.5	5566.2	5539.5	5501.0
5°	5185.2	5164.1	5194.3	5261.4	5344.0	5414.7	5519.3	5574.4	5579.9	5580.8	5535.9
7.5°	4812.4	4793.2	4838.1	4917.1	5023.6	5154.9	5337.6	5497.3	5506.5	5592.8	5559.7
10°	4509.5	4495.7	4548.0	4632.5	4757.4	4904.2	5128.2	5350.4	5377.0	5568.0	5556.1
12.5°	4269.0	4257.9	4307.5	4404.8	4532.4	4694.9	4929.0	5187.0	5222.8	5512.0	5537.7
15°	4093.6	4091.8	4133.1	4226.7	4368.1	4519.6	4759.2	5035.5	5076.8	5451.4	5534.9
17.5°	4001.8	4004.6	4034.8	4114.7	4235.9	4386.5	4616.0	4907.9	4952.9	5397.2	5548.7
20°	3992.6	3995.4	4011.9	4056.9	4155.1	4288.2	4499.4	4800.5	4847.3	5356.8	5570.8
22.5°	4073.4	4071.6	4076.2	4071.6	4126.7	4227.6	4422.3	4717.9	4772.0	5330.2	5588.2
25°	4228.6	4225.8	4224.0	4190.0	4153.3	4207.4	4390.1	4671.1	4722.5	5310.9	5598.3
27.5°	4444.3	4442.5	4439.7	4383.7	4273.5	4239.6	4393.8	4653.6	4696.8	5295.3	5596.5
30°	4728.0	4740.8	4737.2	4659.1	4487.4	4337.8	4432.4	4644.4	4682.1	5265.0	5577.2
32.5°	5061.2	5086.9	5107.1	5023.6	4808.8	4532.4	4521.4	4654.5	4682.1	5242.1	5542.3
35°	5407.3	5440.4	5514.7	5485.4	5202.6	4825.3	4674.7	4715.1	4738.1	5254.9	5525.8
37.5°	5747.9	5787.4	5949.0	6034.4	5718.6	5212.7	4913.4	4864.8	4876.7	5333.0	5544.1
40°	6143.6	6203.3	6448.4	6586.1	6334.6	5731.4	5270.5	5121.8	5126.4	5504.7	5629.5
42.5°	6663.2	6724.7	6990.1	7205.8	7028.6	6386.9	5755.3	5514.7	5510.2	5826.0	5830.6
45°	7296.7	7361.0	7635.5	7875.1	7795.2	7163.6	6375.9	6088.5	6083.0	6332.7	6211.6
47.5°	8014.6	8078.0	8323.1	8570.0	8656.3	8070.6	7166.3	6871.6	6858.8	7036.9	6800.0
50°	8630.6	8671.9	8897.8	9230.1	9619.4	9185.1	8149.6	7865.9	7852.1	7972.4	7663.9
52.5°	8854.6	8878.5	9108.0	9573.5	10544.8	10694.4	9441.3	9075.9	9065.8	9118.1	8814.2
55°	8401.1	8444.3	8726.1	9416.5	11046.0	12400.2	11071.7	10574.1	10497.9	10385.0	10016.9
57.5°	7165.4	7234.3	7537.2	8455.3	10811.9	13753.4	13467.8	12268.9	12156.9	11466.5	10994.6
60°	5368.8	5453.2	5704.8	6695.4	9562.4	14235.3	16086.1	14157.3	13904.8	12327.6	11893.4
62.5°	3684.1	3726.4	3897.1	4542.5	7042.4	13445.8	18276.6	16686.5	16225.7	13264.0	12865.6
65°	2813.8	2828.5	2898.3	3120.5	4193.7	10922.1	19147.8	20023.7	19466.4	14384.1	13874.5
67.5°	2267.6	2255.7	2352.1	2669.7	2808.3	6663.2	18131.6	23180.9	22920.1	15881.4	14889.9
69°	1999.5	1983.0	2081.2	2450.3	2637.6	4404.8	16209.2	23897.9	23914.4	16671.9	14959.7
70°	1799.4	1810.4	1907.7	2319.9	2579.7	3457.4	14373.1	23715.2	23845.5	16967.5	14541.1
72.5°	1201.7	1231.1	1426.7	1926.1	2480.6	2616.5	8678.4	20350.5	20851.8	16301.9	12475.4
75°	677.5	699.6	931.8	1452.4	2337.4	2491.6	4583.8	14992.7	15477.5	13632.2	9620.3
77.5°	332.3	344.3	527.0	937.3	1954.5	2374.1	2599.9	10184.0	10737.6	8897.8	5441.3
80°	140.5	146.9	263.5	578.4	1397.3	2265.8	1930.7	6267.6	6336.4	3485.9	1449.6
82.5°	54.2	56.0	111.1	360.8	887.8	1766.3	1614.9	2971.7	2900.1	656.4	330.5
85°	6.4	7.3	40.4	216.7	493.9	908.9	1311.9	1280.7	1185.2	130.4	169.8
87.5°	0.0	0.0	2.8	66.1	146.9	426.0	682.1	531.6	479.2	42.2	88.1
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°	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6
2.5°	5468.8	5459.7	5410.1	5338.5	5270.5	5186.1	5105.3	5056.6	5018.1	4992.4	5022.7
5°	5483.5	5443.1	5292.6	5099.8	4910.7	4697.7	4499.4	4331.4	4265.3	4191.8	4224.9
7.5°	5478.9	5402.7	5131.9	4788.6	4441.5	4082.6	3742.9	3481.3	3345.4	3212.3	3246.2
10°	5456.0	5327.5	4917.1	4408.5	3888.9	3372.9	2891.0	2524.6	2319.9	2134.5	2161.1
12.5°	5405.5	5226.5	4663.7	3973.3	3278.4	2598.1	2033.5	1564.4	1312.8	1201.7	1215.5
15°	5375.2	5128.2	4395.6	3532.7	2626.6	1809.5	1243.0	924.5	809.7	773.0	777.6
17.5°	5360.5	5033.7	4118.4	3028.7	1960.0	1152.2	803.3	708.7	684.0	677.5	679.4
20°	5345.8	4938.2	3832.9	2530.2	1350.5	774.8	660.1	632.5	623.4	615.1	616.9
22.5°	5321.0	4846.4	3526.2	2025.2	910.7	628.9	594.9	568.3	549.0	538.9	540.7
25°	5290.7	4750.0	3213.2	1508.4	664.7	560.9	528.8	491.2	468.2	449.8	450.8
27.5°	5242.1	4631.6	2890.0	1098.0	558.2	502.2	459.0	417.7	379.2	358.0	358.0
30°	5174.2	4497.5	2531.1	785.9	500.3	444.3	392.0	340.6	299.3	280.0	278.2
32.5°	5098.9	4358.0	2168.4	595.8	454.4	390.2	330.5	276.3	239.6	224.0	223.1
35°	5034.6	4207.4	1806.7	499.4	408.5	337.8	272.7	226.8	197.4	184.5	183.6
37.5°	4993.3	4056.9	1454.2	446.2	367.2	289.2	228.6	187.3	166.2	156.1	155.2
40°	4986.9	3944.9	1132.0	405.8	328.7	246.0	191.0	158.8	139.5	128.5	127.6
42.5°	5070.4	3880.6	868.5	371.8	289.2	208.4	162.5	135.9	115.7	104.7	103.7
45°	5289.8	3900.8	668.3	341.5	249.7	176.3	137.7	112.9	94.6	86.3	84.5
47.5°	5690.1	4040.4	531.6	311.2	212.1	149.6	117.5	93.6	78.0	69.8	68.9
50°	6402.5	4368.1	444.3	278.2	177.2	127.6	97.3	76.2	63.3	56.0	55.1
52.5°	7348.1	4952.0	396.6	246.0	146.9	108.3	79.9	60.6	49.6	44.1	43.1
55°	8391.0	5658.9	365.4	211.2	120.3	90.0	63.3	47.7	38.6	34.0	32.1
57.5°	9409.1	6271.2	336.0	177.2	100.1	73.4	50.5	37.6	30.3	25.7	24.8
60°	10344.6	6834.0	302.0	142.3	81.7	57.8	39.5	29.4	23.9	19.3	19.3
62.5°	11346.2	7269.1	255.2	111.1	67.0	44.1	32.1	26.6	19.3	16.5	15.6
65°	12407.5	7592.3	200.1	86.3	52.3	33.0	26.6	27.5	15.6	11.9	11.0
67.5°	13191.5	7528.0	147.8	67.9	40.4	25.7	25.7	29.4	13.8	9.2	8.3
69°	13018.9	7005.7	123.9	58.8	34.9	22.0	23.9	29.4	12.9	8.3	7.3
70°	12518.6	6427.3	109.2	52.3	31.2	20.2	23.0	28.5	11.9	8.3	7.3
72.5°	10425.4	4840.9	85.4	39.5	24.8	16.5	19.3	24.8	11.9	8.3	6.4
75°	7842.0	3098.4	65.2	28.5	18.4	12.9	14.7	18.4	11.9	7.3	6.4
77.5°	4267.1	1117.3	46.8	19.3	12.9	10.1	10.1	13.8	11.0	5.5	3.7
80°	1097.1	280.9	29.4	12.9	10.1	7.3	6.4	9.2	6.4	0.9	0.0
82.5°	270.8	63.3	15.6	9.2	7.3	2.8	2.8	4.6	2.8	0.0	0.0
85°	148.7	31.2	10.1	6.4	3.7	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	76.2	9.2	2.8	1.8	0.9	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)