

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: P323979

Luminaire Tested: **GAN-SA5D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323979
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-SA5D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 23137 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

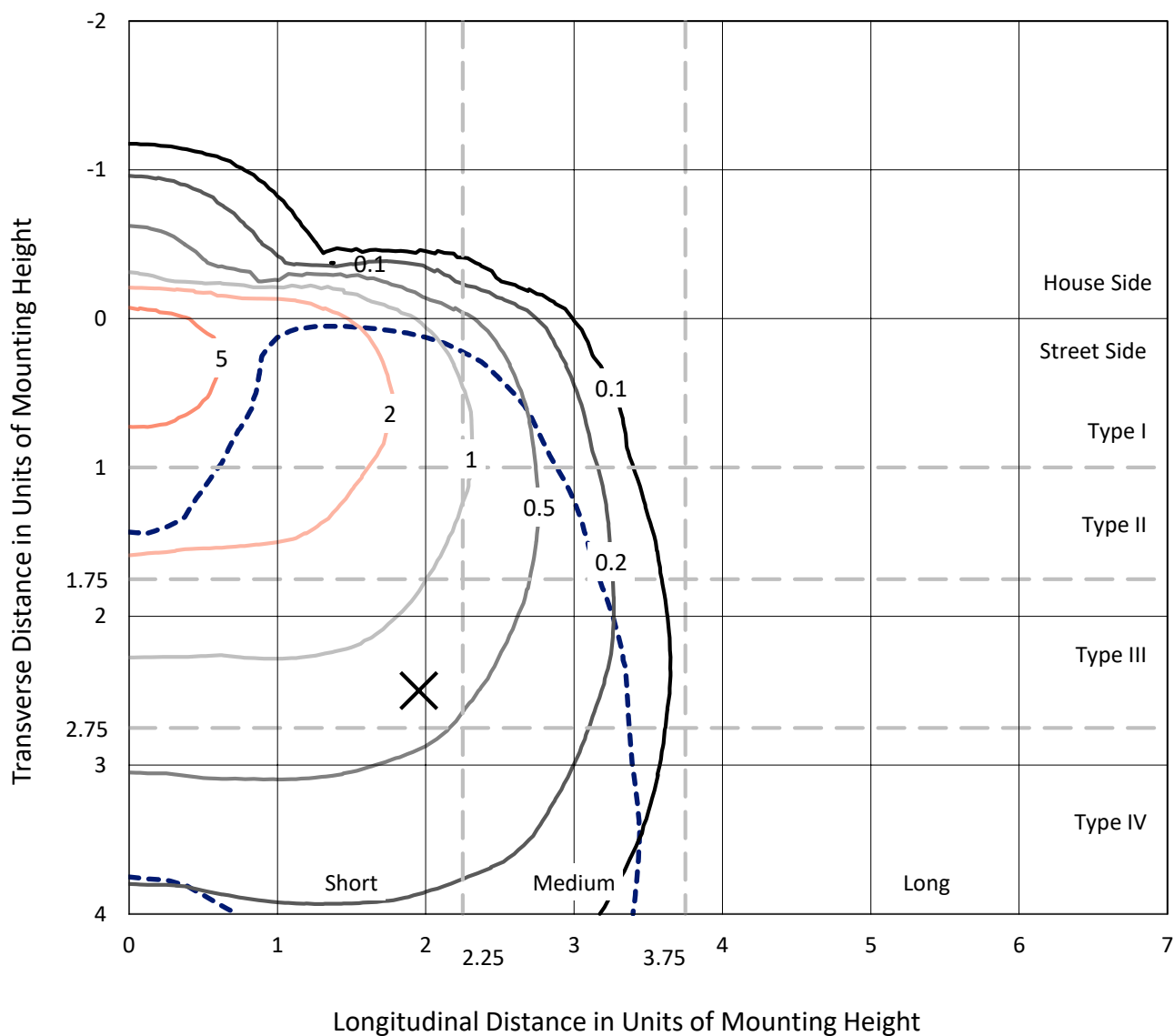
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

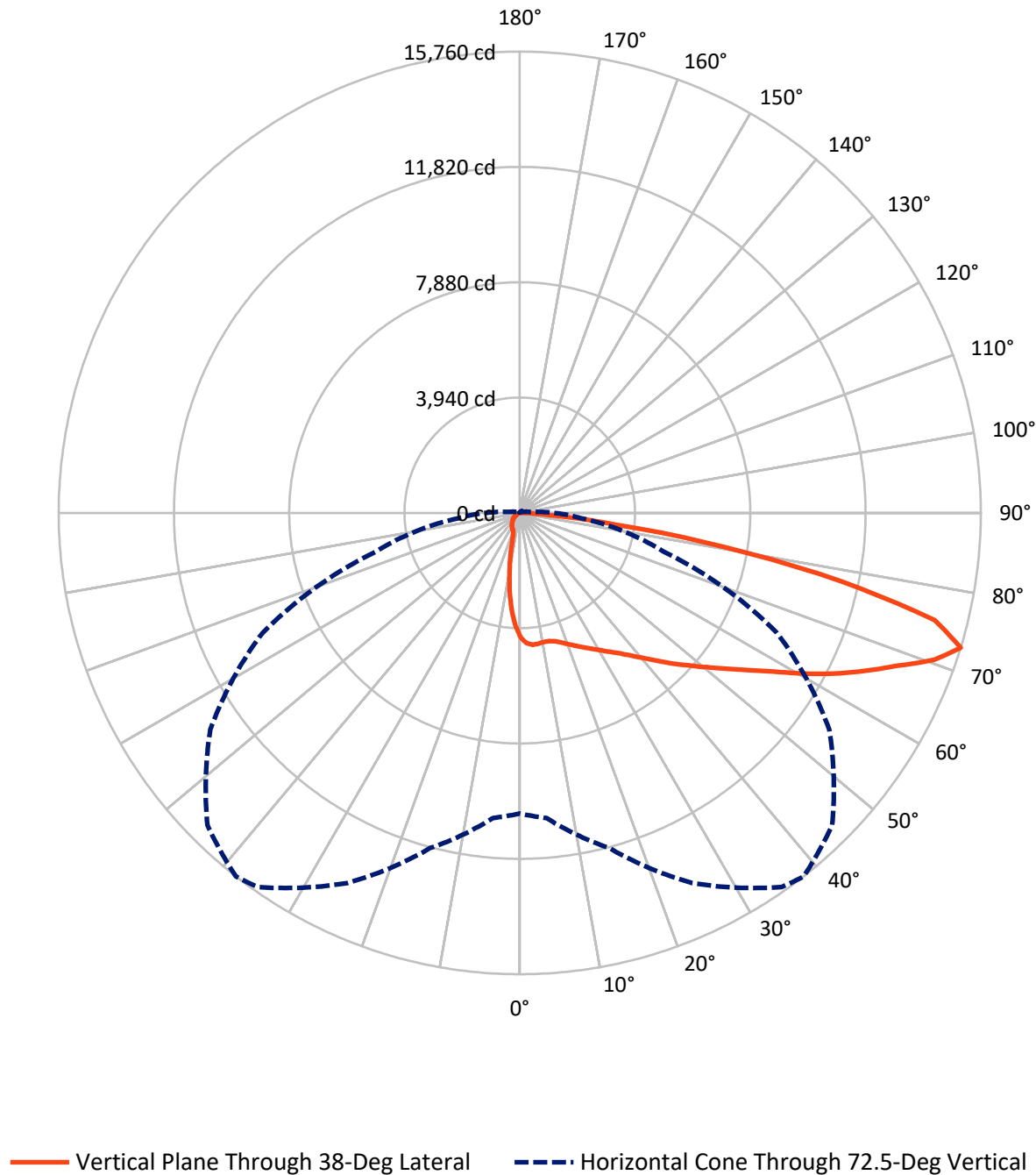
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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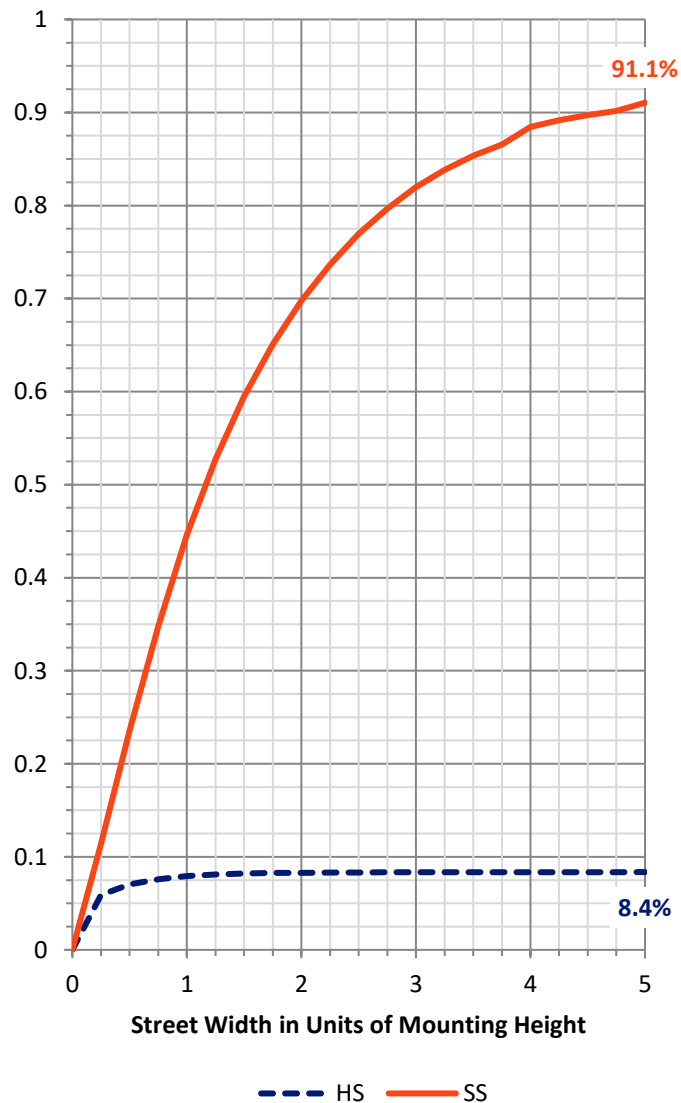
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.1	0.0	1947.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21189.9	0.0	21189.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	23137.0	0.0	23137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.6	1.6
10°-20°	886.6	3.8
20°-30°	1410.2	6.1
30°-40°	2120.0	9.2
40°-50°	3234.2	14.0
50°-60°	4571.0	19.8
60°-70°	5733.6	24.8
70°-80°	4287.1	18.5
80°-90°	531.6	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°	23137.0	100.0
0°-180°	23137.0	100.0

Coefficient of Utilization



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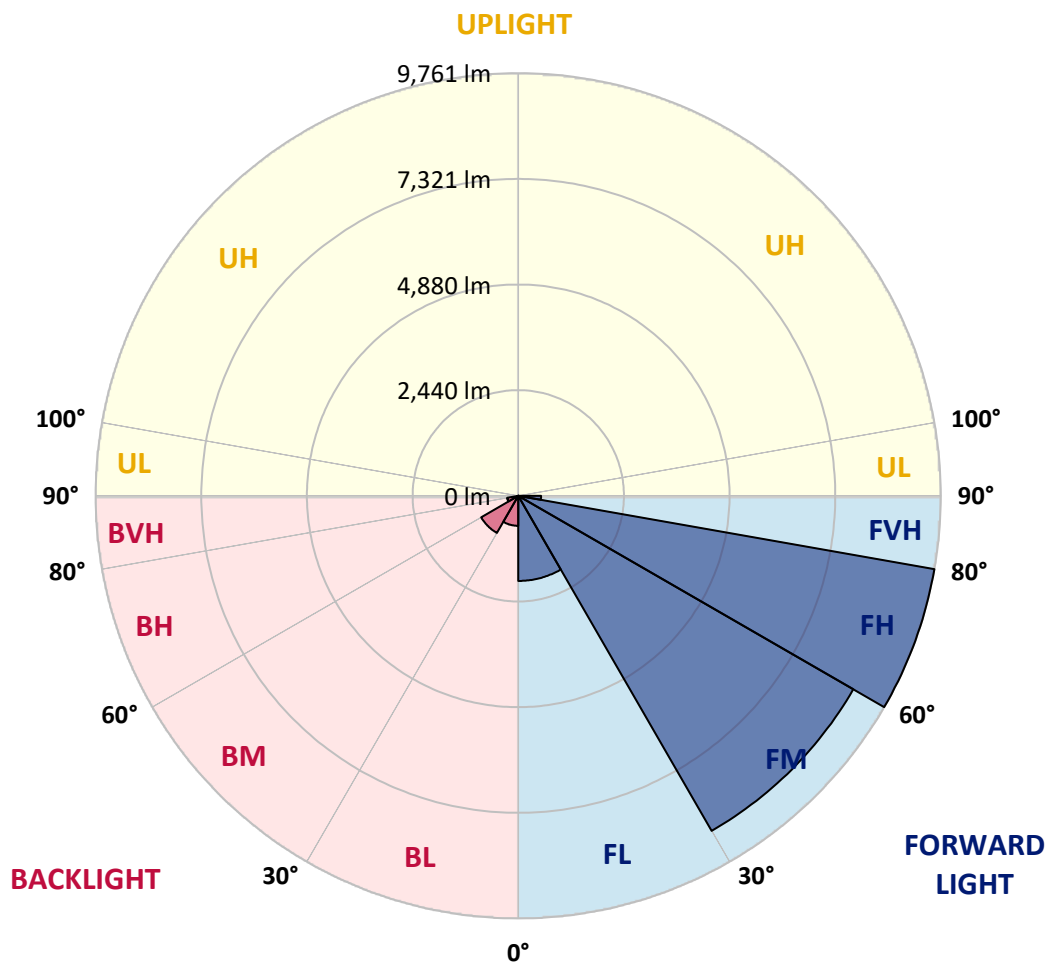
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1966.1	8.5			
FM	(30°-60°)	8936.5	38.6			
FH	(60°-80°)	9760.7	42.2			G4/12000
FVH	(80°-90°)	526.6	2.3			G4/750
BL	(0°-30°)	693.3	3.0	B2/1000		
BM	(30°-60°)	988.7	4.3	B1/1000		
BH	(60°-80°)	260.1	1.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8
2.5°	4516.2	4517.1	4506.6	4489.3	4467.2	4455.6	4436.4	4405.7	4373.0	4314.4	4251.0
5°	4608.4	4608.4	4595.0	4571.9	4536.4	4525.8	4489.3	4440.3	4373.0	4277.9	4171.2
7.5°	4598.8	4600.7	4582.5	4558.5	4522.9	4513.3	4469.1	4414.3	4330.7	4215.4	4079.0
10°	4548.9	4553.7	4539.2	4527.7	4495.0	4484.5	4443.2	4388.4	4304.8	4181.8	4025.2
12.5°	4497.9	4502.7	4507.5	4518.1	4497.9	4494.1	4461.4	4415.3	4335.5	4207.7	4030.9
15°	4465.3	4474.9	4509.5	4550.8	4555.6	4551.7	4530.6	4487.4	4406.6	4274.0	4072.2
17.5°	4465.3	4480.6	4552.7	4631.5	4659.4	4662.2	4644.0	4583.4	4487.4	4345.1	4110.7
20°	4502.7	4523.9	4636.3	4747.8	4793.9	4793.9	4758.3	4673.8	4561.3	4409.5	4136.6
22.5°	4598.8	4626.7	4767.9	4896.7	4945.7	4935.1	4887.1	4764.1	4638.2	4482.5	4169.3
25°	4788.1	4809.3	4956.3	5086.0	5115.8	5091.8	5031.2	4873.6	4736.2	4581.5	4228.9
27.5°	5032.2	5035.1	5186.9	5296.4	5278.2	5261.8	5185.9	5011.0	4877.5	4722.8	4331.7
30°	5300.3	5300.3	5433.8	5517.4	5461.7	5448.2	5372.3	5177.3	5058.1	4914.9	4477.7
32.5°	5559.7	5571.2	5679.8	5732.7	5670.2	5656.8	5582.8	5387.7	5298.3	5208.0	4705.5
35°	5810.5	5819.1	5922.0	5950.8	5891.2	5895.1	5842.2	5676.9	5643.3	5631.8	5048.5
37.5°	6053.6	6055.5	6160.3	6178.5	6148.7	6181.4	6186.2	6040.2	6102.6	6195.8	5531.8
40°	6275.6	6277.5	6381.3	6428.3	6479.3	6521.6	6559.0	6481.2	6687.8	6904.0	6107.4
42.5°	6453.3	6473.5	6605.2	6694.5	6829.0	6909.8	7011.6	7007.8	7384.4	7709.2	6803.1
45°	6610.0	6644.5	6828.1	6984.7	7215.3	7344.1	7503.6	7628.5	8168.5	8605.7	7507.4
47.5°	6816.5	6849.2	7058.7	7315.3	7622.7	7791.9	8056.1	8326.1	9030.4	9485.9	8195.4
50°	7107.7	7093.3	7299.9	7667.9	8062.8	8284.8	8661.5	9066.0	9885.6	10252.7	8600.0
52.5°	7418.1	7412.3	7565.1	8051.3	8581.7	8841.1	9338.9	9830.9	10703.3	10781.2	8785.4
55°	7802.4	7761.1	7889.9	8488.5	9197.6	9476.3	10062.4	10588.0	11354.8	11079.1	8878.6
57.5°	8205.0	8136.8	8259.8	8975.7	9892.4	10221.9	10863.8	11326.0	11788.2	11282.8	8877.7
60°	8621.1	8540.4	8686.4	9584.9	10755.2	11136.7	11732.5	11824.7	12192.7	11385.6	8812.3
62.5°	8968.9	8920.9	9138.1	10236.4	11719.0	12093.8	12388.7	12278.2	12533.8	11465.3	8659.5
65°	9337.0	9339.8	9690.6	10996.4	12743.3	12996.0	13021.0	12866.3	12819.2	11449.0	8142.6
67.5°	9834.7	9880.8	10466.0	12028.4	13739.8	13934.8	13932.9	13503.4	13027.7	10799.4	6996.2
70°	10361.3	10469.9	11359.6	13209.3	14827.5	15025.4	14923.6	13908.9	12266.7	8732.6	4951.5
72.5°	10272.9	10461.2	11856.4	13954.0	15608.7	15759.5	15097.5	12912.4	9695.4	5075.4	2108.2
75°	7925.4	8143.5	10871.5	13216.1	14789.0	14653.6	12972.0	10048.0	5298.3	1416.4	474.7
77.5°	4186.6	4302.9	7181.7	10068.2	11531.6	11248.2	9138.1	5574.1	1615.3	350.7	213.3
80°	2192.7	2219.7	3129.6	5712.5	7117.3	7119.2	5415.6	2448.3	665.9	179.7	143.2
82.5°	1174.2	1197.3	1653.7	2639.6	3729.2	3380.4	2073.6	1347.2	387.2	101.9	137.4
85°	282.5	287.3	937.8	1205.9	1466.3	1047.4	615.9	1131.0	104.7	59.6	111.5
87.5°	108.6	110.5	347.8	521.8	373.8	242.1	288.3	421.8	13.5	23.1	17.3
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°	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8	4254.8
2.5°	4212.5	4187.6	4126.1	4048.2	3979.0	3929.1	3854.1	3805.1	3772.5	3771.5	3759.0
5°	4105.9	4055.0	3922.4	3764.8	3621.6	3492.8	3341.0	3220.9	3131.5	3117.1	3086.4
7.5°	3991.5	3907.9	3704.2	3458.2	3218.0	2974.0	2690.5	2514.6	2363.8	2291.7	2284.0
10°	3921.4	3804.2	3514.9	3159.4	2782.7	2385.9	2015.0	1758.4	1573.0	1520.1	1480.7
12.5°	3907.0	3752.3	3368.9	2878.8	2340.7	1816.1	1405.8	1132.9	984.9	937.8	925.3
15°	3921.4	3728.3	3245.9	2601.1	1893.0	1288.6	943.6	785.0	729.3	715.9	714.9
17.5°	3930.0	3699.4	3106.6	2292.7	1458.6	920.5	722.6	676.5	667.8	666.9	668.8
20°	3929.1	3655.2	2940.3	1948.7	1084.8	723.5	653.4	643.8	641.9	642.8	641.9
22.5°	3922.4	3603.3	2757.8	1594.1	819.6	646.7	623.6	617.9	616.9	616.9	616.9
25°	3934.8	3562.0	2556.9	1254.9	675.5	611.1	596.7	591.9	590.9	590.9	589.0
27.5°	3980.0	3539.0	2336.9	965.7	610.2	579.4	567.9	566.9	564.0	563.1	565.0
30°	4053.0	3539.0	2095.7	751.4	570.8	546.7	538.1	536.2	535.2	534.3	535.2
32.5°	4181.8	3565.9	1832.4	624.6	533.3	510.2	504.5	507.3	504.5	504.5	504.5
35°	4414.3	3646.6	1556.6	544.8	493.9	474.7	468.9	472.8	470.8	470.8	469.9
37.5°	4753.5	3796.5	1278.9	496.8	459.3	439.1	431.4	437.2	435.3	435.3	434.3
40°	5166.7	4014.6	1014.7	460.3	425.7	404.5	397.8	400.7	395.9	395.9	397.8
42.5°	5676.9	4291.3	784.1	424.7	392.0	371.9	368.0	365.1	356.5	351.7	352.6
45°	6243.9	4579.6	611.1	390.1	360.3	344.0	338.2	330.5	316.1	306.5	307.5
47.5°	6750.2	4801.6	496.8	356.5	331.5	319.0	310.4	296.0	274.8	263.3	264.2
50°	7016.4	4835.2	422.8	322.9	304.6	292.1	279.6	257.5	232.5	220.0	219.1
52.5°	7084.6	4677.6	368.0	292.1	277.7	263.3	246.9	217.2	189.3	175.8	173.9
55°	7109.6	4437.4	319.0	263.3	248.9	232.5	211.4	177.8	151.8	138.4	137.4
57.5°	7027.0	4079.0	280.6	237.3	220.0	199.9	173.9	142.2	117.2	106.7	106.7
60°	6843.5	3593.7	250.8	209.5	190.3	167.2	140.3	110.5	87.4	78.8	78.8
62.5°	6477.4	2965.3	222.9	180.6	162.4	138.4	113.4	83.6	61.5	56.7	57.7
65°	5786.5	2249.4	195.1	154.7	138.4	114.3	88.4	59.6	41.3	41.3	43.2
67.5°	4718.9	1562.4	166.2	131.6	119.2	93.2	67.3	41.3	28.8	32.7	36.5
70°	3123.9	876.3	142.2	108.6	101.9	74.0	50.0	27.9	23.1	30.7	37.5
72.5°	1179.0	341.1	119.2	87.4	88.4	56.7	35.6	21.1	21.1	33.6	44.2
75°	328.6	167.2	85.5	64.4	69.2	41.3	25.9	18.3	20.2	38.4	51.9
77.5°	193.1	123.0	55.7	37.5	47.1	28.8	17.3	14.4	17.3	32.7	50.0
80°	155.7	65.3	32.7	19.2	25.9	16.3	11.5	8.6	4.8	12.5	25.9
82.5°	155.7	39.4	15.4	13.5	13.5	8.6	5.8	3.8	1.0	0.0	6.7
85°	104.7	16.3	9.6	8.6	6.7	2.9	1.9	1.0	0.0	0.0	0.0
87.5°	17.3	6.7	3.8	1.9	1.0	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)