

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: P323978

Luminaire Tested: **GAN-SA4D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323978
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-SA4D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18674 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

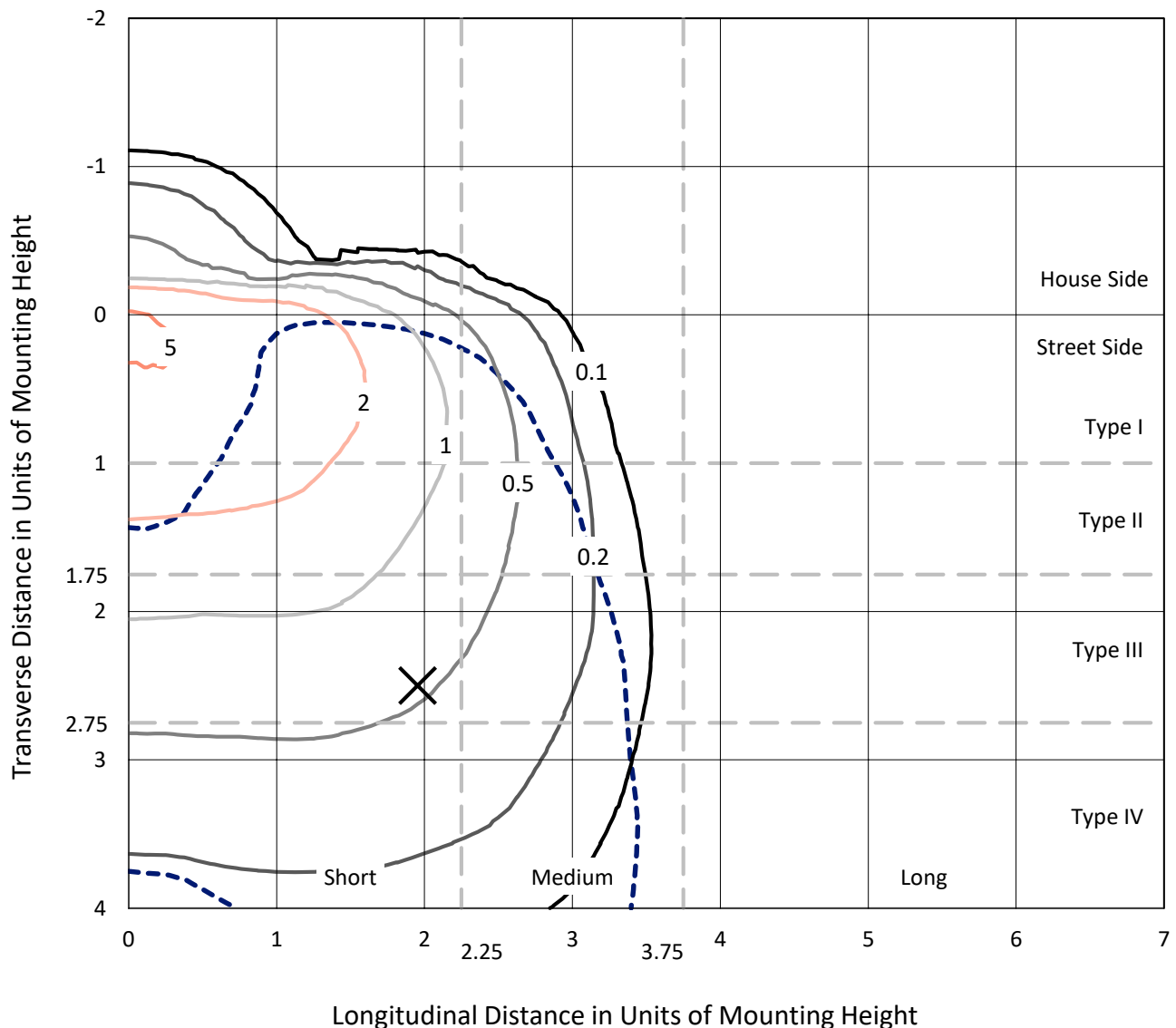
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

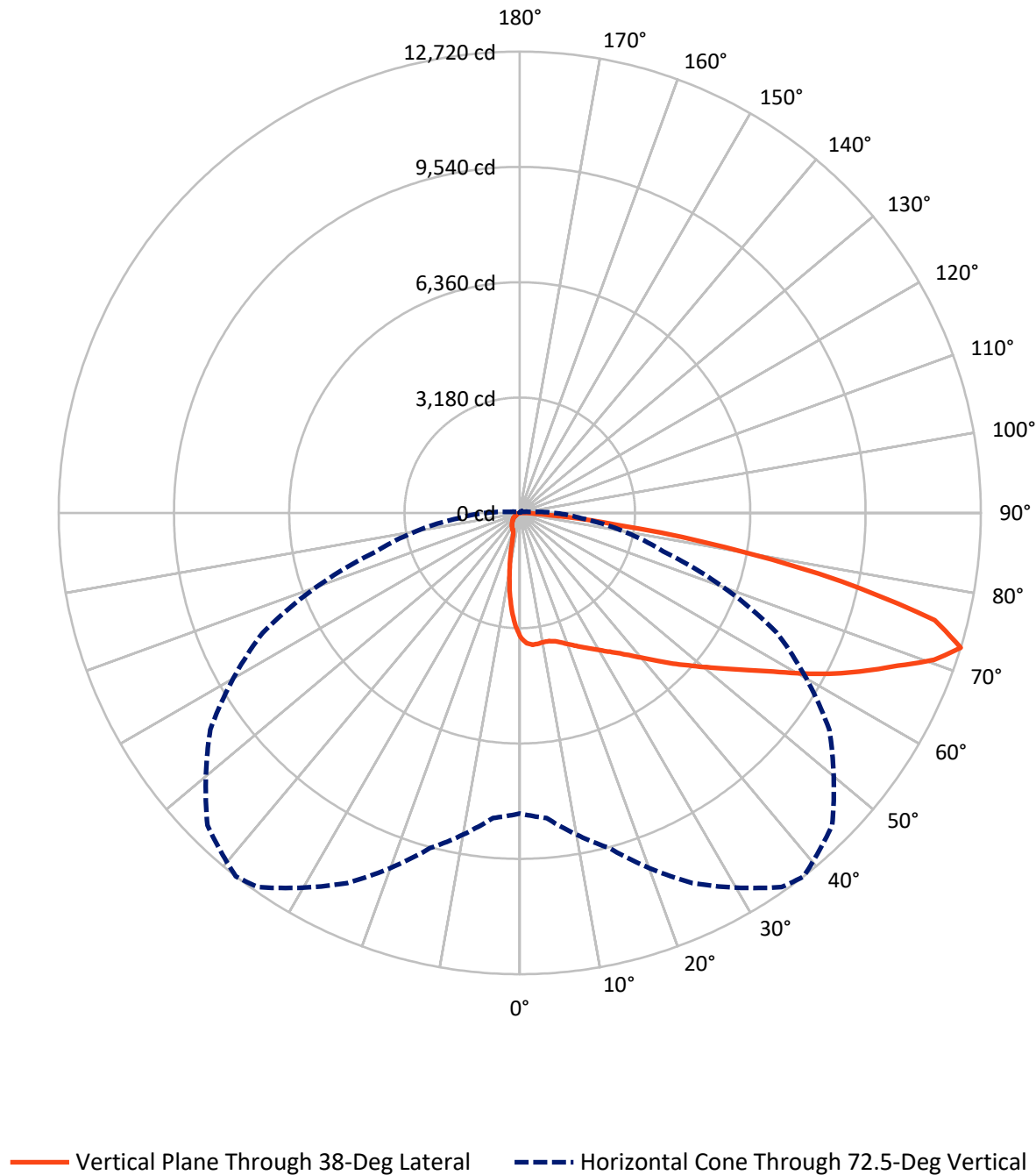
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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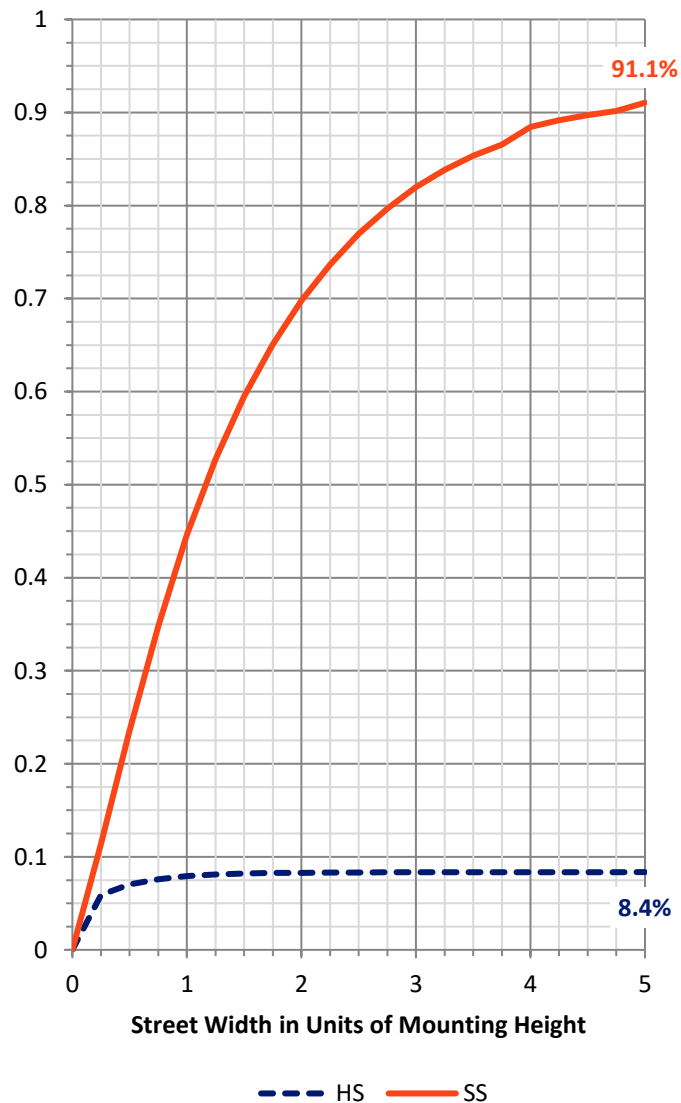
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.5	0.0	1571.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17102.5	0.0	17102.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	18674.0	0.0	18674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.6
10°-20°	715.6	3.8
20°-30°	1138.1	6.1
30°-40°	1711.1	9.2
40°-50°	2610.4	14.0
50°-60°	3689.3	19.8
60°-70°	4627.6	24.8
70°-80°	3460.2	18.5
80°-90°	429.1	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°	18674.0	100.0
0°-180°	18674.0	100.0

Coefficient of Utilization



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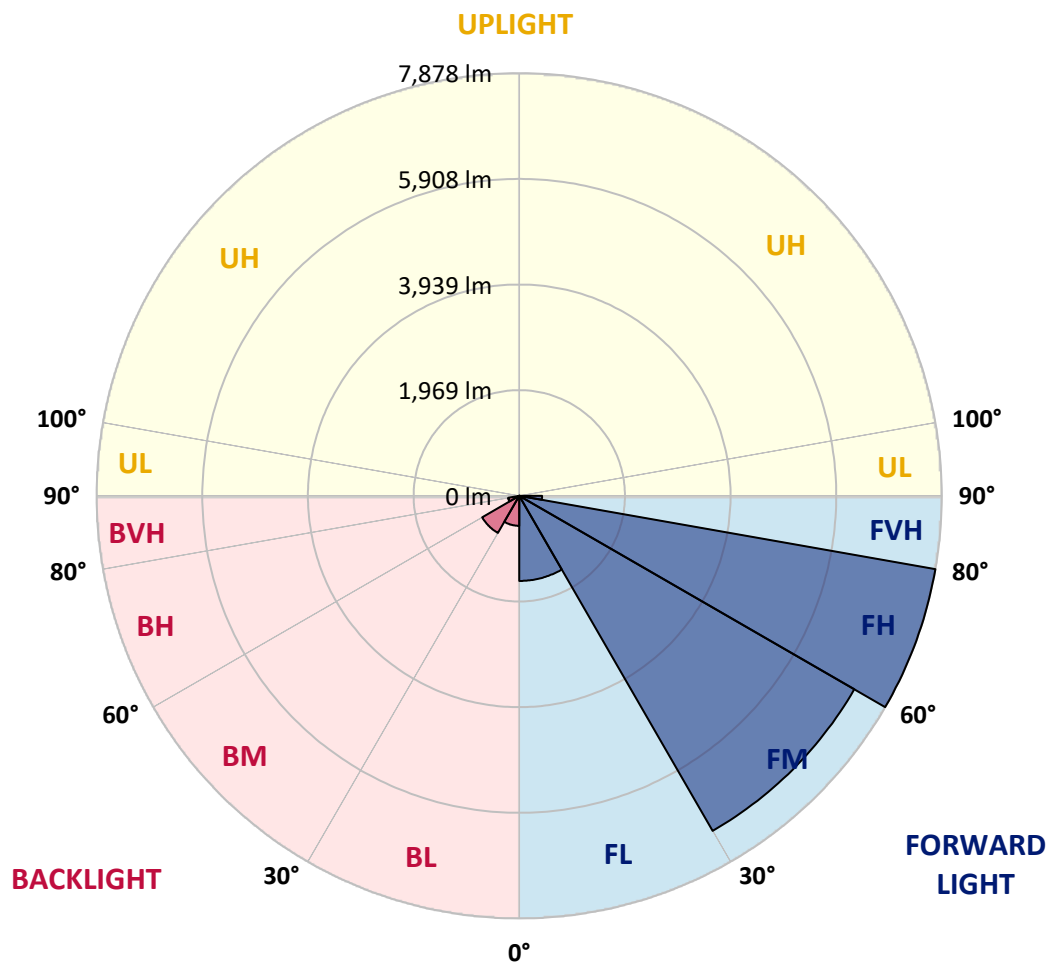
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.8	8.5			
FM	(30°-60°)	7212.7	38.6			
FH	(60°-80°)	7877.9	42.2			G4/12000
FVH	(80°-90°)	425.0	2.3			G3/500
BL	(0°-30°)	559.5	3.0	B2/1000		
BM	(30°-60°)	798.0	4.3	B1/1000		
BH	(60°-80°)	209.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1
2.5°	3645.0	3645.8	3637.3	3623.3	3605.5	3596.2	3580.7	3555.8	3529.5	3482.2	3431.0
5°	3719.5	3719.5	3708.6	3690.0	3661.3	3652.8	3623.3	3583.8	3529.5	3452.7	3366.6
7.5°	3711.7	3713.3	3698.5	3679.2	3650.5	3642.7	3607.0	3562.8	3495.4	3402.3	3292.2
10°	3671.4	3675.3	3663.6	3654.3	3628.0	3619.4	3586.1	3541.9	3474.4	3375.1	3248.7
12.5°	3630.3	3634.2	3638.1	3646.6	3630.3	3627.2	3600.8	3563.6	3499.2	3396.1	3253.4
15°	3603.9	3611.7	3639.6	3673.0	3676.8	3673.7	3656.7	3621.8	3556.6	3449.6	3286.7
17.5°	3603.9	3616.3	3674.5	3738.1	3760.6	3762.9	3748.2	3699.3	3621.8	3507.0	3317.8
20°	3634.2	3651.2	3742.0	3831.9	3869.2	3869.2	3840.5	3772.2	3681.5	3558.9	3338.7
22.5°	3711.7	3734.2	3848.2	3952.1	3991.7	3983.2	3944.4	3845.1	3743.5	3617.9	3365.1
25°	3864.5	3881.6	4000.2	4104.9	4129.0	4109.6	4060.7	3933.5	3822.6	3697.8	3413.1
27.5°	4061.5	4063.8	4186.4	4274.8	4260.0	4246.9	4185.6	4044.4	3936.6	3811.8	3496.1
30°	4277.9	4277.9	4385.7	4453.1	4408.2	4397.3	4336.0	4178.6	4082.4	3966.9	3614.0
32.5°	4487.3	4496.6	4584.2	4626.9	4576.5	4565.6	4505.9	4348.4	4276.3	4203.4	3797.8
35°	4689.7	4696.7	4779.6	4802.9	4754.8	4757.9	4715.3	4581.9	4554.7	4545.4	4074.7
37.5°	4885.9	4887.4	4972.0	4986.7	4962.7	4989.0	4992.9	4875.0	4925.4	5000.7	4464.8
40°	5065.0	5066.6	5150.4	5188.4	5229.5	5263.6	5293.8	5231.0	5397.8	5572.2	4929.3
42.5°	5208.5	5224.8	5331.1	5403.2	5511.8	5576.9	5659.1	5656.0	5960.0	6222.2	5490.8
45°	5334.9	5362.9	5511.0	5637.4	5823.5	5927.4	6056.2	6157.0	6592.9	6945.7	6059.3
47.5°	5501.7	5528.0	5697.1	5904.2	6152.4	6288.8	6502.1	6720.0	7288.5	7656.1	6614.6
50°	5736.7	5725.0	5891.8	6188.8	6507.5	6686.7	6990.7	7317.2	7978.7	8275.0	6941.1
52.5°	5987.2	5982.5	6105.8	6498.2	6926.3	7135.7	7537.5	7934.5	8638.7	8701.5	7090.8
55°	6297.4	6264.0	6368.0	6851.1	7423.5	7648.4	8121.4	8545.7	9164.5	8942.0	7166.0
57.5°	6622.3	6567.3	6666.5	7244.3	7984.2	8250.2	8768.2	9141.3	9514.3	9106.4	7165.2
60°	6958.1	6893.0	7010.9	7736.0	8680.6	8988.5	9469.3	9543.8	9840.8	9189.4	7112.5
62.5°	7238.9	7200.1	7375.4	8261.8	9458.5	9760.9	9999.0	9909.8	10116.1	9253.7	6989.2
65°	7535.9	7538.2	7821.3	8875.3	10285.2	10489.2	10509.3	10384.5	10346.5	9240.5	6571.9
67.5°	7937.6	7974.9	8447.2	9708.2	11089.4	11246.9	11245.3	10898.7	10514.8	8716.3	5646.7
70°	8362.6	8450.3	9168.4	10661.3	11967.3	12127.1	12044.9	11225.9	9900.5	7048.1	3996.4
72.5°	8291.3	8443.3	9569.4	11262.4	12597.9	12719.6	12185.3	10421.7	7825.2	4096.4	1701.5
75°	6396.6	6572.7	8774.4	10666.8	11936.3	11827.0	10469.8	8109.8	4276.3	1143.1	383.1
77.5°	3379.0	3472.9	5796.4	8126.1	9307.2	9078.5	7375.4	4498.9	1303.7	283.1	172.2
80°	1769.8	1791.5	2525.9	4610.6	5744.4	5746.0	4370.9	1976.1	537.4	145.0	115.6
82.5°	947.7	966.3	1334.7	2130.4	3009.9	2728.3	1673.6	1087.3	312.5	82.2	110.9
85°	228.0	231.9	756.9	973.3	1183.5	845.3	497.1	912.8	84.5	48.1	90.0
87.5°	87.6	89.2	280.7	421.1	301.7	195.4	232.7	340.5	10.9	18.6	14.0
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°	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1	3434.1
2.5°	3400.0	3379.8	3330.2	3267.3	3211.5	3171.2	3110.7	3071.1	3044.8	3044.0	3033.9
5°	3313.9	3272.8	3165.8	3038.6	2923.0	2819.1	2696.5	2599.6	2527.5	2515.8	2491.0
7.5°	3221.6	3154.1	2989.7	2791.2	2597.3	2400.3	2171.5	2029.6	1907.8	1849.7	1843.5
10°	3165.0	3070.4	2836.9	2550.0	2246.0	1925.7	1626.3	1419.2	1269.6	1226.9	1195.1
12.5°	3153.3	3028.5	2719.0	2323.5	1889.2	1465.8	1134.6	914.4	794.9	756.9	746.8
15°	3165.0	3009.1	2619.8	2099.4	1527.8	1040.0	761.6	633.6	588.6	577.8	577.0
17.5°	3172.0	2985.8	2507.3	1850.4	1177.3	743.0	583.2	546.0	539.0	538.2	539.8
20°	3171.2	2950.2	2373.1	1572.8	875.6	584.0	527.4	519.6	518.1	518.8	518.1
22.5°	3165.8	2908.3	2225.8	1286.6	661.5	521.9	503.3	498.7	497.9	497.9	497.9
25°	3175.8	2874.9	2063.7	1012.9	545.2	493.2	481.6	477.7	477.0	477.0	475.4
27.5°	3212.3	2856.3	1886.1	779.4	492.5	467.7	458.3	457.6	455.2	454.5	456.0
30°	3271.2	2856.3	1691.5	606.5	460.7	441.3	434.3	432.8	432.0	431.2	432.0
32.5°	3375.1	2878.0	1479.0	504.1	430.4	411.8	407.2	409.5	407.2	407.2	407.2
35°	3562.8	2943.2	1256.4	439.7	398.6	383.1	378.5	381.6	380.0	380.0	379.2
37.5°	3836.6	3064.2	1032.2	401.0	370.7	354.4	348.2	352.9	351.3	351.3	350.5
40°	4170.1	3240.2	819.0	371.5	343.6	326.5	321.1	323.4	319.5	319.5	321.1
42.5°	4581.9	3463.6	632.8	342.8	316.4	300.1	297.0	294.7	287.7	283.8	284.6
45°	5039.5	3696.2	493.2	314.9	290.8	277.6	273.0	266.8	255.2	247.4	248.2
47.5°	5448.2	3875.4	401.0	287.7	267.6	257.5	250.5	238.9	221.8	212.5	213.3
50°	5663.0	3902.5	341.2	260.6	245.8	235.8	225.7	207.8	187.7	177.6	176.8
52.5°	5718.0	3775.3	297.0	235.8	224.1	212.5	199.3	175.3	152.8	141.9	140.4
55°	5738.2	3581.4	257.5	212.5	200.9	187.7	170.6	143.5	122.5	111.7	110.9
57.5°	5671.5	3292.2	226.5	191.6	177.6	161.3	140.4	114.8	94.6	86.1	86.1
60°	5523.4	2900.5	202.4	169.1	153.6	134.9	113.2	89.2	70.6	63.6	63.6
62.5°	5227.9	2393.3	179.9	145.8	131.1	111.7	91.5	67.5	49.6	45.8	46.5
65°	4670.3	1815.5	157.4	124.9	111.7	92.3	71.3	48.1	33.3	33.3	34.9
67.5°	3808.7	1261.0	134.2	106.2	96.2	75.2	54.3	33.3	23.3	26.4	29.5
70°	2521.3	707.3	114.8	87.6	82.2	59.7	40.3	22.5	18.6	24.8	30.2
72.5°	951.6	275.3	96.2	70.6	71.3	45.8	28.7	17.1	17.1	27.1	35.7
75°	265.2	134.9	69.0	52.0	55.8	33.3	20.9	14.7	16.3	31.0	41.9
77.5°	155.9	99.3	45.0	30.2	38.0	23.3	14.0	11.6	14.0	26.4	40.3
80°	125.6	52.7	26.4	15.5	20.9	13.2	9.3	7.0	3.9	10.1	20.9
82.5°	125.6	31.8	12.4	10.9	10.9	7.0	4.7	3.1	0.8	0.0	5.4
85°	84.5	13.2	7.8	7.0	5.4	2.3	1.6	0.8	0.0	0.0	0.0
87.5°	14.0	5.4	3.1	1.6	0.8	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)