

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: P323953

Luminaire Tested: **GAN-SA9A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323953
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-SA9A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 24857 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

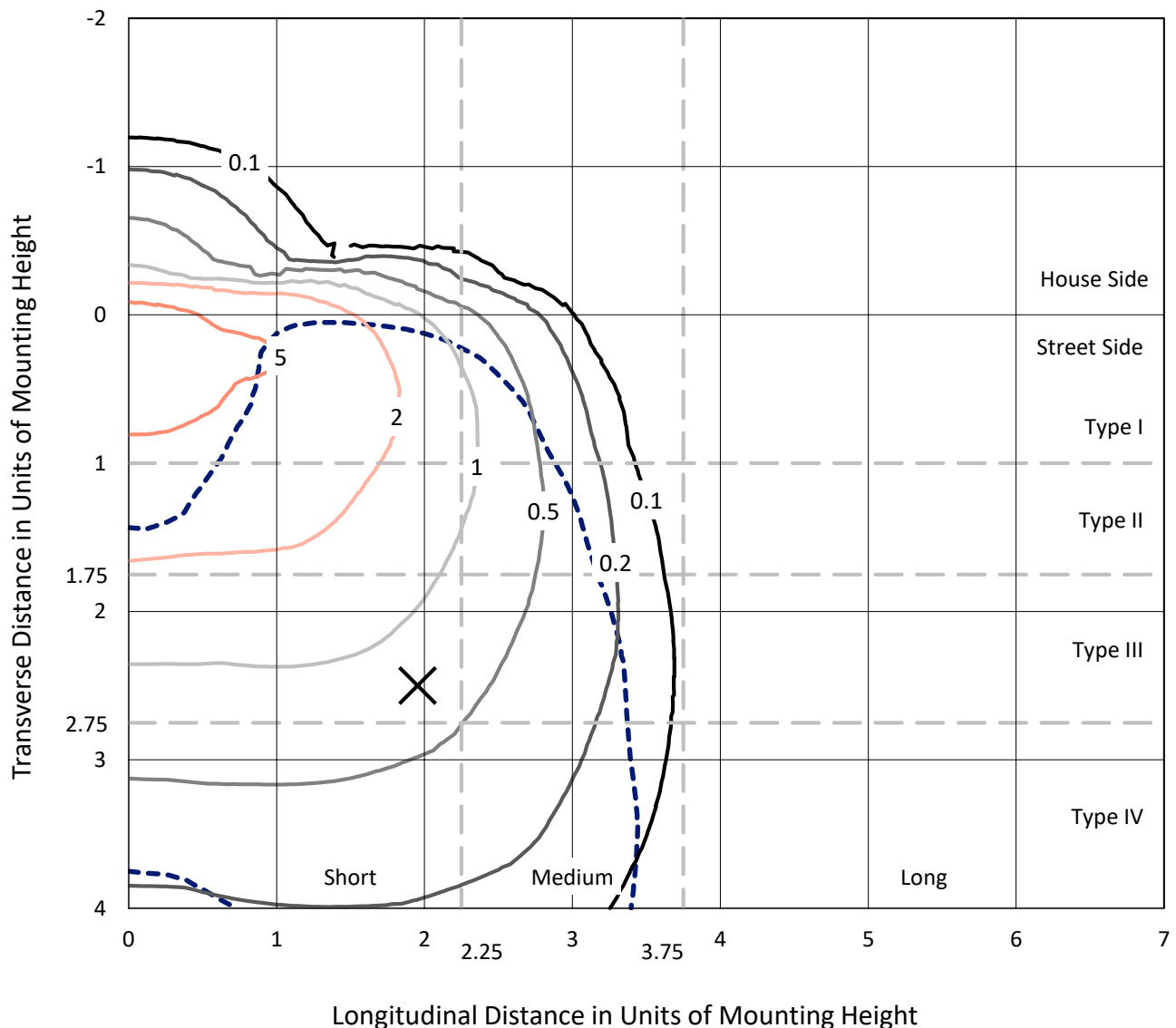
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

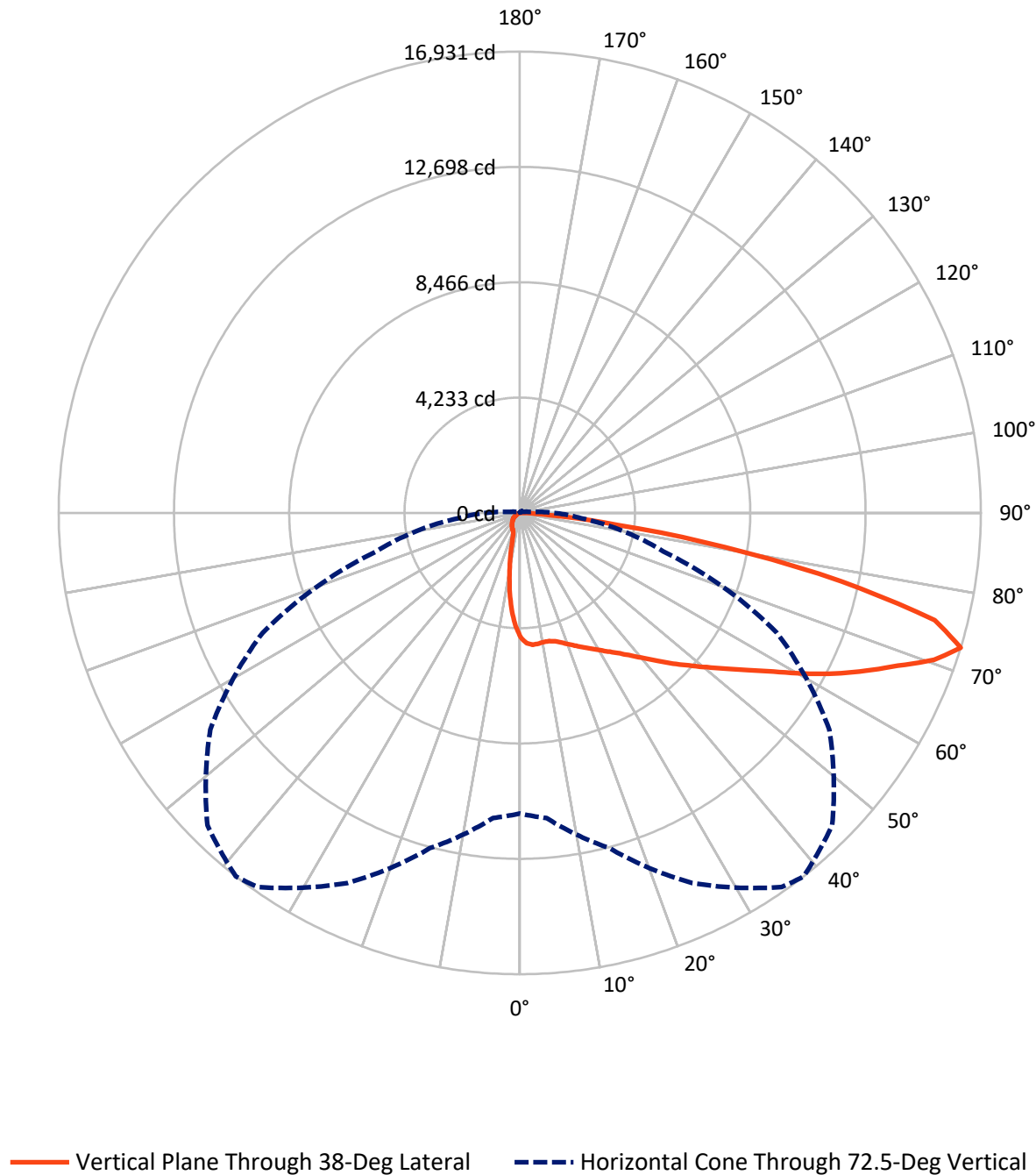
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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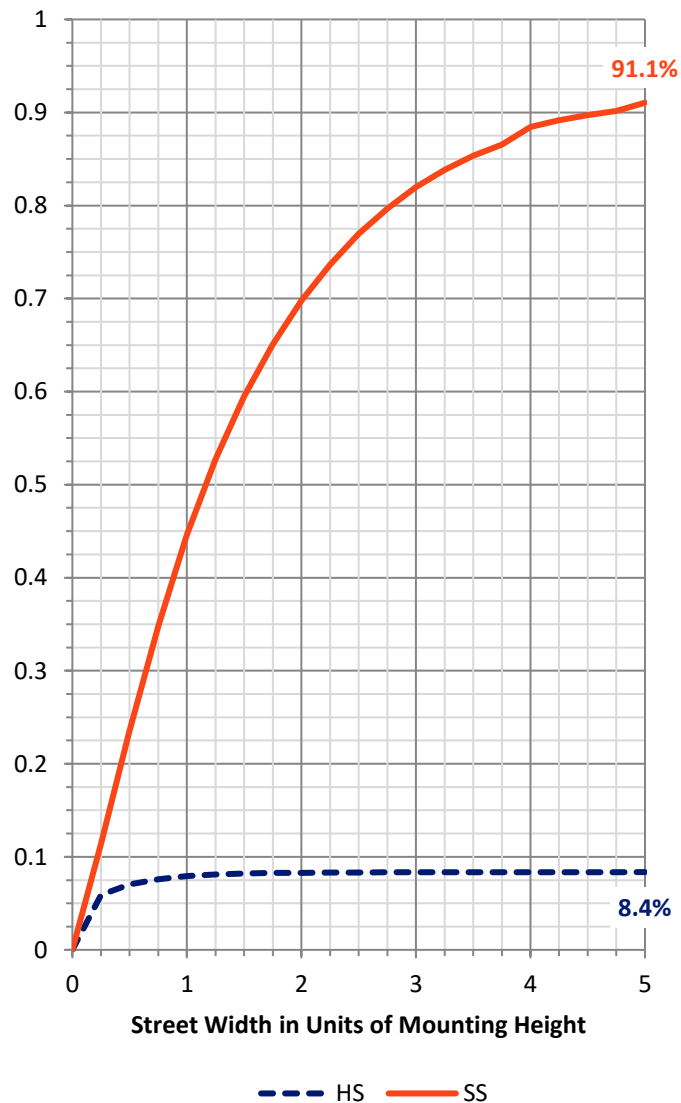
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.8	0.0	2091.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22765.2	0.0	22765.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	24857.0	0.0	24857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.6
10°-20°	952.5	3.8
20°-30°	1515.0	6.1
30°-40°	2277.6	9.2
40°-50°	3474.7	14.0
50°-60°	4910.9	19.8
60°-70°	6159.9	24.8
70°-80°	4605.9	18.5
80°-90°	571.1	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°	24857.0	100.0
0°-180°	24857.0	100.0

Coefficient of Utilization



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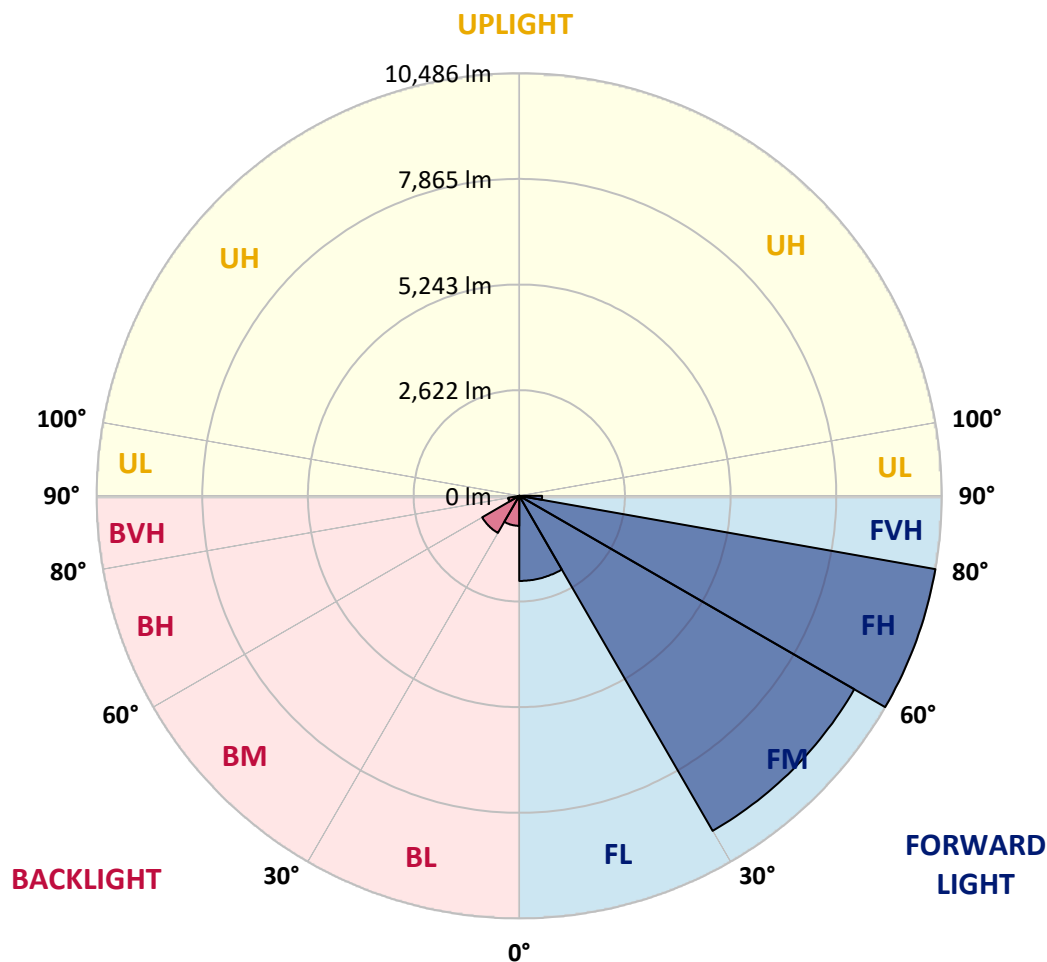
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2112.2	8.5			
FM	(30°-60°)	9600.9	38.6			
FH	(60°-80°)	10486.3	42.2			G4/12000
FVH	(80°-90°)	565.8	2.3			G4/750
BL	(0°-30°)	744.8	3.0	B2/1000		
BM	(30°-60°)	1062.2	4.3	B2/2500		
BH	(60°-80°)	279.4	1.1	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1
2.5°	4851.9	4852.9	4841.6	4823.0	4799.3	4786.9	4766.2	4733.2	4698.1	4635.1	4567.0
5°	4951.0	4951.0	4936.6	4911.8	4873.6	4862.2	4823.0	4770.4	4698.1	4595.9	4481.3
7.5°	4940.7	4942.8	4923.1	4897.3	4859.1	4848.8	4801.3	4742.5	4652.7	4528.8	4382.2
10°	4887.0	4892.2	4876.7	4864.3	4829.2	4817.8	4773.5	4714.6	4624.8	4492.7	4324.4
12.5°	4832.3	4837.5	4842.6	4854.0	4832.3	4828.2	4793.1	4743.5	4657.8	4520.5	4330.6
15°	4797.2	4807.5	4844.7	4889.1	4894.2	4890.1	4867.4	4820.9	4734.2	4591.8	4375.0
17.5°	4797.2	4813.7	4891.1	4975.8	5005.7	5008.8	4989.2	4924.2	4820.9	4668.2	4416.3
20°	4837.5	4860.2	4981.0	5100.7	5150.3	5150.3	5112.1	5021.2	4900.4	4737.3	4444.1
22.5°	4940.7	4970.6	5122.4	5260.7	5313.4	5302.0	5250.4	5118.3	4983.0	4815.8	4479.2
25°	5144.1	5166.8	5324.7	5464.1	5496.1	5470.3	5405.2	5235.9	5088.3	4922.1	4543.2
27.5°	5406.3	5409.4	5572.5	5690.2	5670.5	5653.0	5571.4	5383.6	5240.1	5073.9	4653.7
30°	5694.3	5694.3	5837.8	5927.6	5867.7	5853.3	5771.7	5562.1	5434.1	5280.3	4810.6
32.5°	5973.0	5985.4	6102.1	6158.8	6091.7	6077.3	5997.8	5788.2	5692.2	5595.2	5055.3
35°	6242.4	6251.7	6362.2	6393.2	6329.2	6333.3	6276.5	6099.0	6062.8	6050.4	5423.8
37.5°	6503.6	6505.7	6618.2	6637.8	6605.8	6640.9	6646.1	6489.2	6556.3	6656.4	5943.1
40°	6742.1	6744.2	6855.6	6906.2	6960.9	7006.4	7046.6	6963.0	7185.0	7417.2	6561.4
42.5°	6933.1	6954.8	7096.2	7192.2	7336.7	7423.4	7532.9	7528.7	7933.4	8282.3	7308.8
45°	7101.3	7138.5	7335.7	7503.9	7751.7	7890.0	8061.4	8195.6	8775.8	9245.5	8065.5
47.5°	7323.3	7358.4	7583.4	7859.1	8189.4	8371.1	8655.0	8945.1	9701.8	10191.1	8804.7
50°	7636.1	7620.6	7842.5	8237.9	8662.2	8900.7	9305.3	9740.0	10620.5	11014.9	9239.3
52.5°	7969.5	7963.3	8127.5	8649.8	9219.7	9498.4	10033.1	10561.7	11499.0	11582.6	9438.5
55°	8382.5	8338.1	8476.4	9119.5	9881.4	10180.8	10810.5	11375.2	12198.9	11902.7	9538.7
57.5°	8815.0	8741.7	8873.8	9642.9	10627.8	10981.8	11671.4	12168.0	12664.5	12121.5	9537.6
60°	9262.0	9175.3	9332.2	10297.4	11554.8	11964.6	12604.6	12703.8	13099.1	12232.0	9467.4
62.5°	9635.7	9584.1	9817.4	10997.3	12590.2	12992.8	13309.7	13191.0	13465.6	12317.7	9303.3
65°	10031.1	10034.2	10411.0	11813.9	13690.7	13962.2	13989.0	13822.8	13772.2	12300.1	8747.9
67.5°	10565.8	10615.4	11244.0	12922.6	14761.2	14970.7	14968.7	14507.2	13996.2	11602.3	7516.3
70°	11131.5	11248.2	12204.1	14191.3	15929.8	16142.4	16033.0	14942.9	13178.6	9381.7	5319.6
72.5°	11036.6	11238.9	12737.8	14991.4	16769.0	16931.1	16219.8	13872.3	10416.1	5452.7	2264.9
75°	8514.6	8748.9	11679.7	14198.6	15888.5	15742.9	13936.3	10795.0	5692.2	1521.6	510.0
77.5°	4497.8	4622.7	7715.6	10816.7	12388.9	12084.4	9817.4	5988.5	1735.3	376.8	229.2
80°	2355.8	2384.7	3362.3	6137.2	7646.4	7648.5	5818.2	2630.4	715.4	193.0	153.8
82.5°	1261.5	1286.3	1776.6	2835.8	4006.4	3631.7	2227.8	1447.3	416.0	109.4	147.6
85°	303.5	308.7	1007.5	1295.6	1575.3	1125.2	661.7	1215.0	112.5	64.0	119.7
87.5°	116.7	118.7	373.7	560.6	401.6	260.1	309.7	453.2	14.5	24.8	18.6
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°	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1
2.5°	4525.7	4498.9	4432.8	4349.2	4274.8	4221.2	4140.6	4088.0	4052.9	4051.9	4038.4
5°	4411.1	4356.4	4213.9	4044.6	3890.8	3752.5	3589.4	3460.3	3364.3	3348.9	3315.8
7.5°	4288.3	4198.5	3979.6	3715.3	3457.2	3195.0	2890.5	2701.6	2539.5	2462.1	2453.8
10°	4212.9	4087.0	3776.2	3394.3	2989.6	2563.3	2164.8	1889.1	1689.9	1633.1	1590.8
12.5°	4197.4	4031.2	3619.3	3092.8	2514.7	1951.1	1510.3	1217.1	1058.1	1007.5	994.1
15°	4212.9	4005.4	3487.2	2794.5	2033.7	1384.3	1013.7	843.4	783.5	769.1	768.0
17.5°	4222.2	3974.4	3337.5	2463.1	1567.1	989.0	776.3	726.8	717.5	716.4	718.5
20°	4221.2	3927.0	3158.9	2093.5	1165.5	777.3	702.0	691.7	689.6	690.6	689.6
22.5°	4213.9	3871.2	2962.8	1712.6	880.6	694.8	670.0	663.8	662.8	662.8	662.8
25°	4227.4	3826.8	2747.0	1348.2	725.7	656.6	641.1	635.9	634.9	634.9	632.8
27.5°	4275.9	3802.0	2510.6	1037.5	655.5	622.5	610.1	609.1	606.0	604.9	607.0
30°	4354.3	3802.0	2251.5	807.3	613.2	587.4	578.1	576.0	575.0	574.0	575.0
32.5°	4492.7	3830.9	1968.6	671.0	572.9	548.2	542.0	545.1	542.0	542.0	542.0
35°	4742.5	3917.7	1672.4	585.3	530.6	510.0	503.8	507.9	505.8	505.8	504.8
37.5°	5106.9	4078.7	1374.0	533.7	493.4	471.8	463.5	469.7	467.6	467.6	466.6
40°	5550.8	4313.0	1090.1	494.5	457.3	434.6	427.4	430.5	425.3	425.3	427.4
42.5°	6099.0	4610.3	842.4	456.3	421.2	399.5	395.4	392.3	383.0	377.8	378.9
45°	6708.0	4920.0	656.6	419.1	387.1	369.6	363.4	355.1	339.6	329.3	330.3
47.5°	7252.1	5158.5	533.7	383.0	356.2	342.7	333.4	318.0	295.2	282.9	283.9
50°	7538.0	5194.6	454.2	346.9	327.2	313.8	300.4	276.7	249.8	236.4	235.4
52.5°	7611.3	5025.3	395.4	313.8	298.3	282.9	265.3	233.3	203.4	188.9	186.9
55°	7638.1	4767.3	342.7	282.9	267.4	249.8	227.1	191.0	163.1	148.7	147.6
57.5°	7549.4	4382.2	301.4	255.0	236.4	214.7	186.9	152.8	125.9	114.6	114.6
60°	7352.2	3860.9	269.4	225.0	204.4	179.6	150.7	118.7	93.9	84.7	84.7
62.5°	6958.9	3185.7	239.5	194.1	174.5	148.7	121.8	89.8	66.1	60.9	61.9
65°	6216.6	2416.7	209.6	166.2	148.7	122.8	95.0	64.0	44.4	44.4	46.5
67.5°	5069.7	1678.6	178.6	141.4	128.0	100.1	72.3	44.4	31.0	35.1	39.2
70°	3356.1	941.5	152.8	116.7	109.4	79.5	53.7	29.9	24.8	33.0	40.3
72.5°	1266.7	366.5	128.0	93.9	95.0	60.9	38.2	22.7	22.7	36.1	47.5
75°	353.1	179.6	91.9	69.2	74.3	44.4	27.9	19.6	21.7	41.3	55.7
77.5°	207.5	132.1	59.9	40.3	50.6	31.0	18.6	15.5	18.6	35.1	53.7
80°	167.2	70.2	35.1	20.6	27.9	17.5	12.4	9.3	5.2	13.4	27.9
82.5°	167.2	42.3	16.5	14.5	14.5	9.3	6.2	4.1	1.0	0.0	7.2
85°	112.5	17.5	10.3	9.3	7.2	3.1	2.1	1.0	0.0	0.0	0.0
87.5°	18.6	7.2	4.1	2.1	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)