

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: P323630

Luminaire Tested: **GAN-SA6A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17505 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

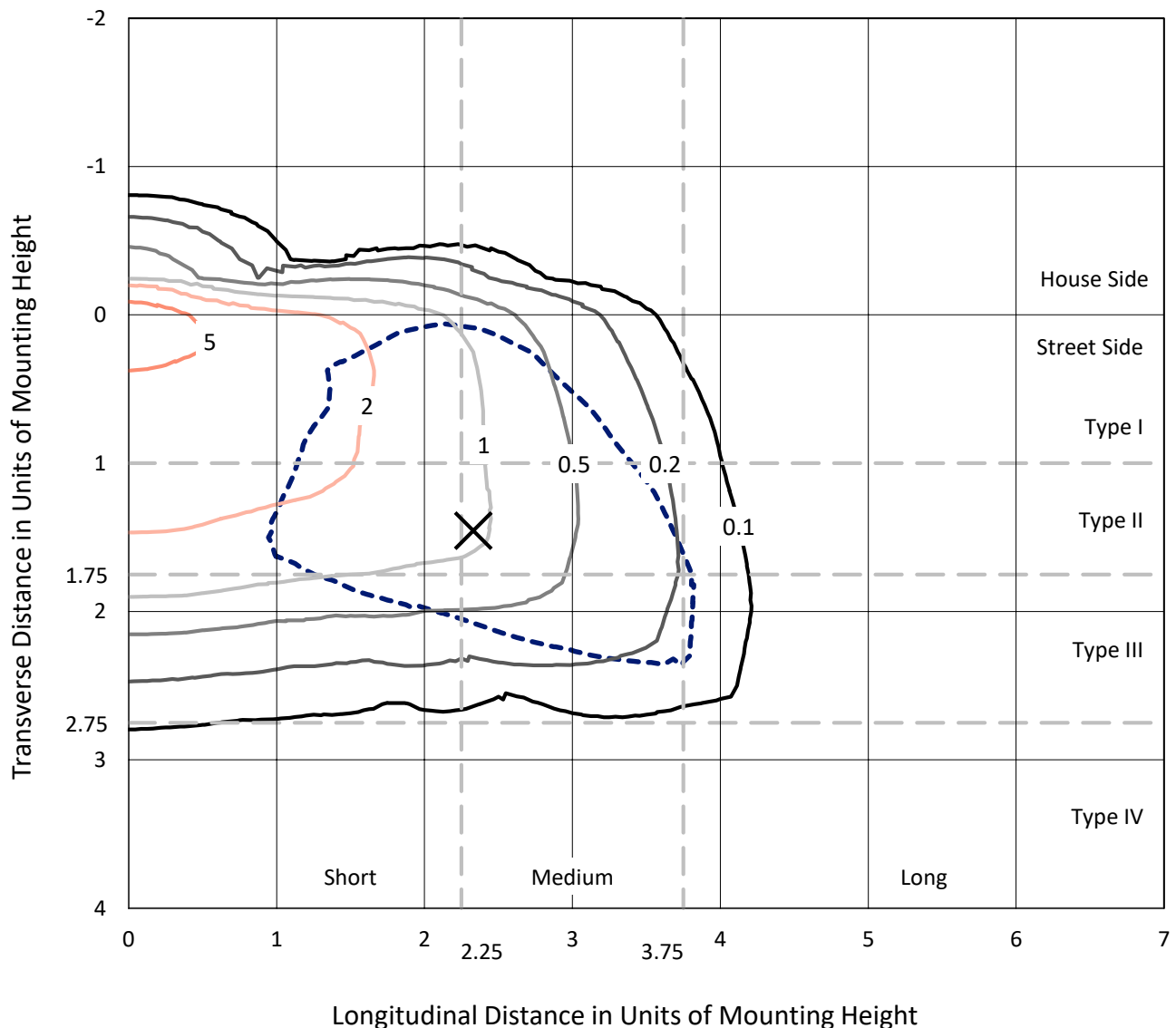
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

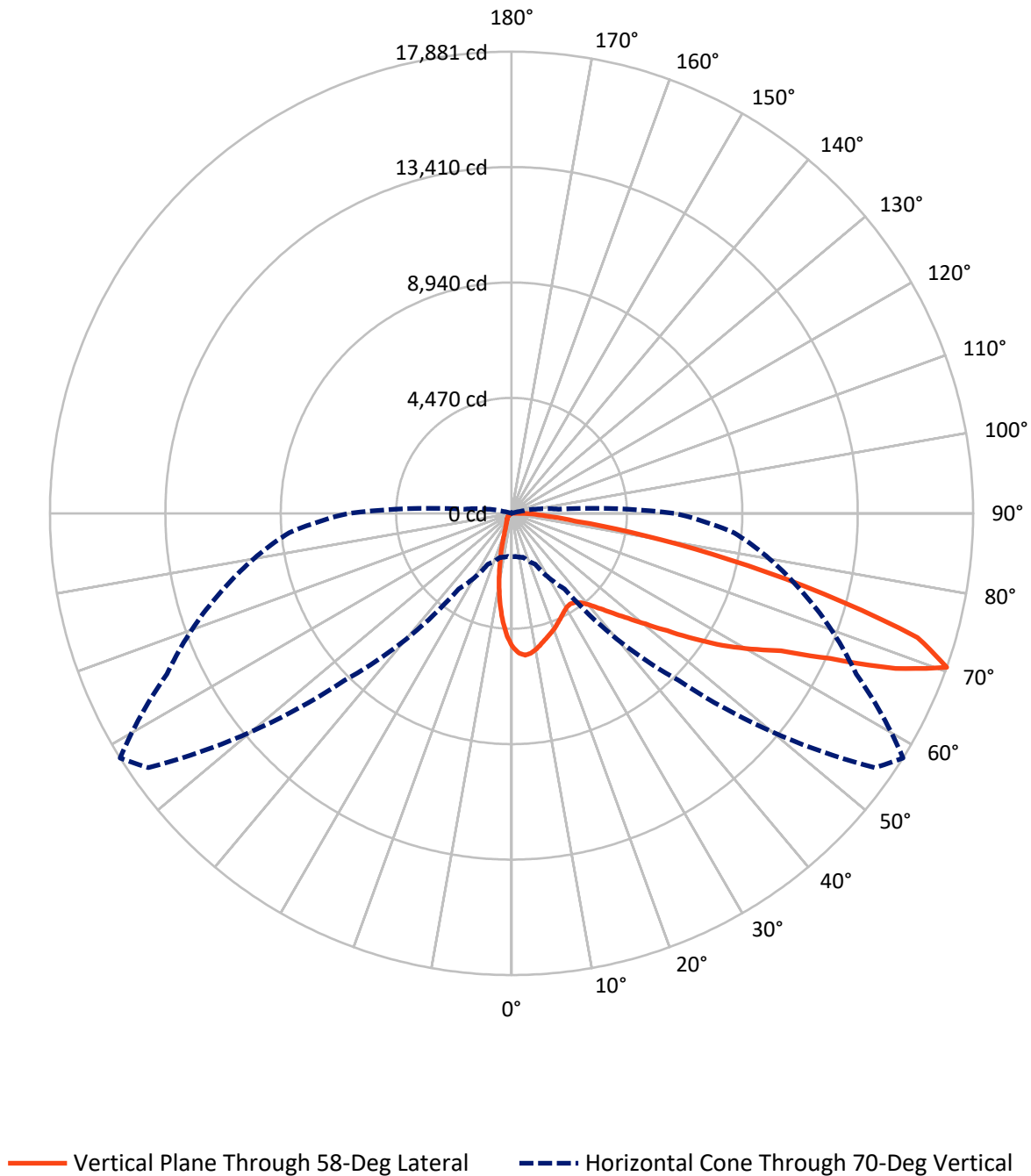
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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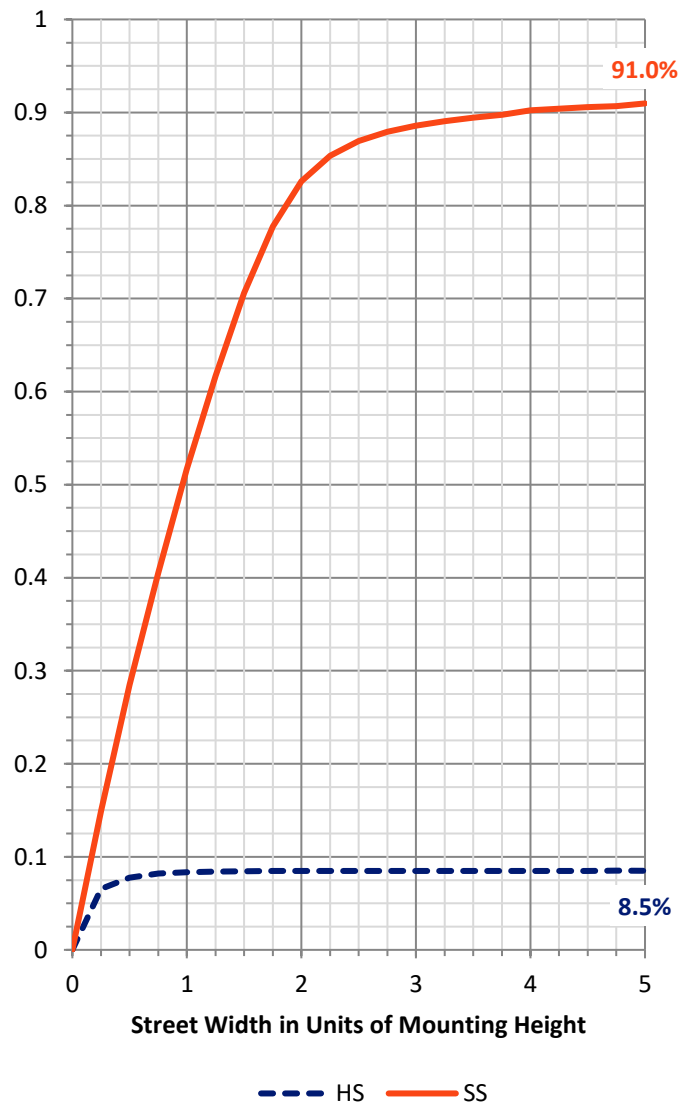
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.0	0.0	1498.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	16007.0	0.0	16007.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	17505.0	0.0	17505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	2.4
10°-20°	887.5	5.1
20°-30°	1166.7	6.7
30°-40°	1545.2	8.8
40°-50°	2309.5	13.2
50°-60°	3699.8	21.1
60°-70°	4663.6	26.6
70°-80°	2515.5	14.4
80°-90°	294.4	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°	17505.0	100.0
0°-180°	17505.0	100.0

Coefficient of Utilization



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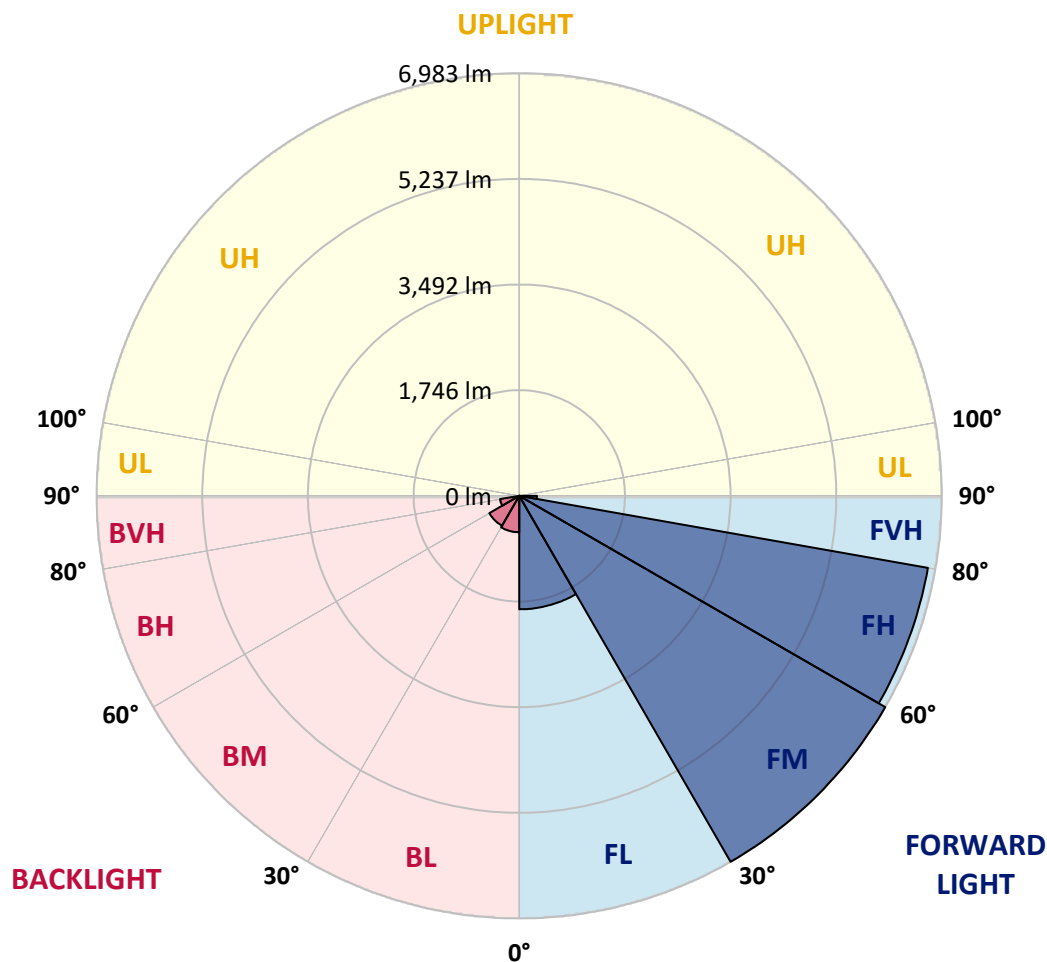
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1875.1	10.7			
FM	(30°-60°)	6983.0	39.9			
FH	(60°-80°)	6856.9	39.2			G3/7500
FVH	(80°-90°)	291.9	1.7			G3/500
BL	(0°-30°)	601.9	3.4	B2/1000		
BM	(30°-60°)	571.5	3.3	B1/1000		
BH	(60°-80°)	322.2	1.8	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9
2.5°	5599.6	5585.8	5580.7	5572.0	5538.5	5505.7	5440.9	5422.7	5382.0	5285.2	5182.5
5°	5604.0	5603.3	5618.5	5614.9	5603.3	5588.0	5541.4	5517.4	5448.2	5309.9	5122.1
7.5°	5333.9	5347.8	5382.0	5409.6	5441.7	5483.2	5489.0	5465.7	5408.9	5259.7	5010.8
10°	4971.5	4993.3	5041.3	5095.9	5179.6	5262.6	5336.9	5333.9	5314.3	5167.3	4876.8
12.5°	4608.2	4633.7	4689.0	4769.8	4888.5	5023.9	5156.3	5174.5	5207.3	5084.3	4753.1
15°	4290.2	4312.0	4366.6	4465.6	4612.6	4794.6	4988.9	5022.4	5106.8	5019.5	4649.7
17.5°	4020.1	4033.9	4074.0	4183.9	4354.2	4574.8	4827.3	4892.8	5018.8	4968.5	4560.2
20°	3831.6	3833.8	3860.0	3937.1	4107.5	4354.2	4659.9	4753.8	4925.6	4924.9	4467.8
22.5°	3738.4	3731.1	3736.2	3780.6	3905.8	4143.8	4492.5	4603.9	4841.9	4887.7	4373.9
25°	3720.9	3715.1	3700.6	3706.4	3782.1	3959.7	4323.6	4452.5	4768.4	4865.2	4292.3
27.5°	3775.5	3781.4	3756.6	3730.4	3736.2	3840.3	4173.7	4322.9	4708.7	4865.2	4234.8
30°	3885.4	3888.4	3870.2	3836.0	3790.1	3806.8	4069.6	4218.8	4678.8	4898.7	4198.4
32.5°	4007.0	4023.0	4020.8	3993.2	3927.7	3860.0	4044.9	4181.0	4676.7	4972.9	4194.8
35°	4157.7	4175.9	4206.4	4200.6	4132.2	4020.8	4129.3	4236.3	4719.6	5095.2	4234.1
37.5°	4317.8	4345.5	4411.0	4442.3	4397.9	4272.0	4318.5	4395.0	4834.6	5293.2	4333.8
40°	4472.9	4504.2	4623.5	4746.5	4713.1	4583.5	4605.3	4666.5	5039.1	5577.8	4523.1
42.5°	4625.0	4671.6	4847.0	5049.3	5089.4	4986.0	4997.7	5046.4	5342.7	5969.4	4832.4
45°	4807.0	4859.4	5119.2	5368.9	5475.9	5430.7	5480.2	5512.3	5739.4	6486.9	5249.5
47.5°	5074.1	5134.5	5453.3	5737.9	5925.7	5954.8	6054.5	6075.7	6240.9	7089.6	5793.2
50°	5595.3	5612.0	5900.2	6158.6	6429.4	6604.1	6717.6	6733.7	6847.9	7748.3	6472.4
52.5°	6251.1	6262.0	6425.0	6598.3	6906.2	7262.8	7528.5	7551.1	7575.1	8390.3	7142.7
55°	6902.5	6901.1	7008.8	7110.7	7463.0	7981.3	8557.7	8571.6	8399.1	8999.6	7655.2
57.5°	7309.4	7348.7	7512.5	7643.5	8135.6	8800.1	9600.1	9651.0	9264.5	9450.9	8161.8
60°	7179.9	7198.8	7562.0	8046.8	8973.4	9964.0	10654.8	10667.9	9915.2	9901.4	8802.3
62.5°	6117.1	6127.3	6698.0	7697.4	9397.7	11473.6	11927.1	11713.9	10663.5	10526.7	9568.8
65°	4192.6	4258.9	4735.6	5970.8	8618.2	12420.6	13896.8	13543.8	11804.1	11427.8	10261.7
67.5°	2469.0	2455.2	2691.0	3600.8	6329.7	11791.7	16388.3	16037.5	13359.6	12031.2	10058.6
70°	1686.5	1677.0	1767.3	2180.0	3573.2	9147.3	17172.3	17880.5	14733.1	11625.0	8656.7
72.5°	1203.9	1209.0	1342.2	1693.8	2243.3	5329.6	14767.3	16443.6	14302.9	10134.3	6580.1
75°	817.4	831.2	1022.0	1389.5	1966.7	2711.4	10479.4	12500.0	11646.9	7365.5	3782.1
77.5°	439.6	454.9	679.8	1119.5	1778.2	1883.8	6740.9	8602.9	7316.0	3311.1	1096.2
80°	183.4	192.2	318.1	813.8	1536.6	1654.5	3966.2	5216.8	3117.5	652.9	244.6
82.5°	79.3	83.7	132.5	485.5	1148.6	1396.8	2099.9	2509.7	944.8	143.4	123.0
85°	15.3	16.0	54.6	256.9	733.0	788.3	1361.1	1334.2	424.4	61.9	89.5
87.5°	0.0	0.0	13.1	80.8	215.5	429.5	830.5	820.3	144.1	29.8	33.5
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°	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9	5170.9
2.5°	5130.1	5079.9	4974.4	4844.1	4744.4	4634.4	4547.1	4436.5	4388.4	4390.6	4364.4
5°	5015.1	4911.8	4678.1	4383.3	4156.2	3921.8	3720.2	3519.3	3400.7	3362.1	3325.7
7.5°	4850.6	4686.9	4314.2	3860.0	3475.7	3100.1	2773.2	2485.7	2303.8	2215.0	2182.2
10°	4665.0	4435.0	3895.6	3297.3	2748.5	2240.4	1816.8	1448.5	1301.5	1201.7	1176.3
12.5°	4502.0	4190.4	3486.6	2720.1	2068.6	1455.8	1051.8	822.5	722.8	683.5	676.9
15°	4348.4	3961.9	3092.8	2197.5	1432.5	896.0	668.9	591.0	567.8	561.2	561.2
17.5°	4203.5	3744.2	2707.7	1682.9	947.7	628.2	553.9	536.5	529.2	528.4	529.2
20°	4052.1	3526.6	2329.2	1233.0	661.6	532.1	511.7	502.2	500.1	500.1	500.1
22.5°	3907.3	3309.0	1960.9	880.7	530.6	485.5	475.3	468.8	466.6	465.8	464.4
25°	3768.3	3102.2	1601.3	622.3	465.8	444.7	436.0	427.3	420.7	417.1	414.9
27.5°	3654.0	2918.1	1266.5	499.3	420.7	402.5	391.6	378.5	362.5	355.2	352.3
30°	3563.0	2749.9	976.1	421.4	378.5	360.3	343.6	321.0	297.7	285.3	284.6
32.5°	3491.7	2584.7	741.0	372.7	340.7	318.1	294.1	265.7	238.7	224.9	224.2
35°	3456.7	2439.1	566.3	337.0	307.2	278.8	248.9	217.6	191.4	178.3	176.9
37.5°	3480.0	2316.1	441.8	307.2	278.8	246.0	211.1	178.3	155.0	143.4	142.7
40°	3565.2	2237.5	358.8	281.7	254.8	214.7	176.9	146.3	126.7	117.2	116.5
42.5°	3746.4	2208.4	306.4	260.6	231.5	185.6	147.0	120.8	102.6	96.1	94.6
45°	4049.2	2251.3	270.8	240.2	207.4	158.0	121.6	99.0	83.0	77.9	77.2
47.5°	4452.5	2364.2	245.3	220.5	185.6	133.2	101.2	80.1	67.7	62.6	61.9
50°	4972.2	2543.2	224.2	200.9	165.2	112.8	83.7	63.3	52.4	48.8	48.8
52.5°	5537.7	2756.5	205.3	182.7	144.8	93.9	67.7	48.8	41.5	37.1	37.1
55°	6005.1	2942.8	184.9	168.9	120.1	77.9	51.7	37.1	30.6	28.4	28.4
57.5°	6471.6	3141.6	161.6	144.8	96.1	63.3	39.3	27.7	22.6	21.1	21.1
60°	7076.5	3384.7	139.0	117.9	75.7	48.0	29.1	19.7	16.7	16.0	16.0
62.5°	7741.8	3527.3	118.6	94.6	59.0	35.7	21.1	13.1	12.4	12.4	11.6
65°	8148.7	3325.7	99.7	75.7	45.9	26.9	13.8	9.5	10.9	10.2	8.7
67.5°	7629.7	2603.6	81.5	59.0	35.7	20.4	8.7	6.6	11.6	9.5	7.3
70°	6317.3	1822.6	63.3	41.5	28.4	17.5	5.8	4.4	12.4	9.5	5.8
72.5°	4727.6	1219.9	50.2	27.7	21.1	15.3	5.1	2.2	10.9	8.0	5.1
75°	2583.3	491.3	40.0	17.5	13.1	10.9	3.6	1.5	7.3	5.8	3.6
77.5°	679.8	129.6	29.1	11.6	7.3	4.4	2.2	0.7	3.6	2.9	1.5
80°	173.2	50.2	18.9	8.0	5.1	2.2	0.0	0.0	0.7	0.0	0.0
82.5°	92.4	21.1	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	69.9	13.8	6.6	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.9	4.4	2.2	0.0	0.0	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)