

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: P323658

Luminaire Tested: **GAN-SA4D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323658
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-SA4D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 19656 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

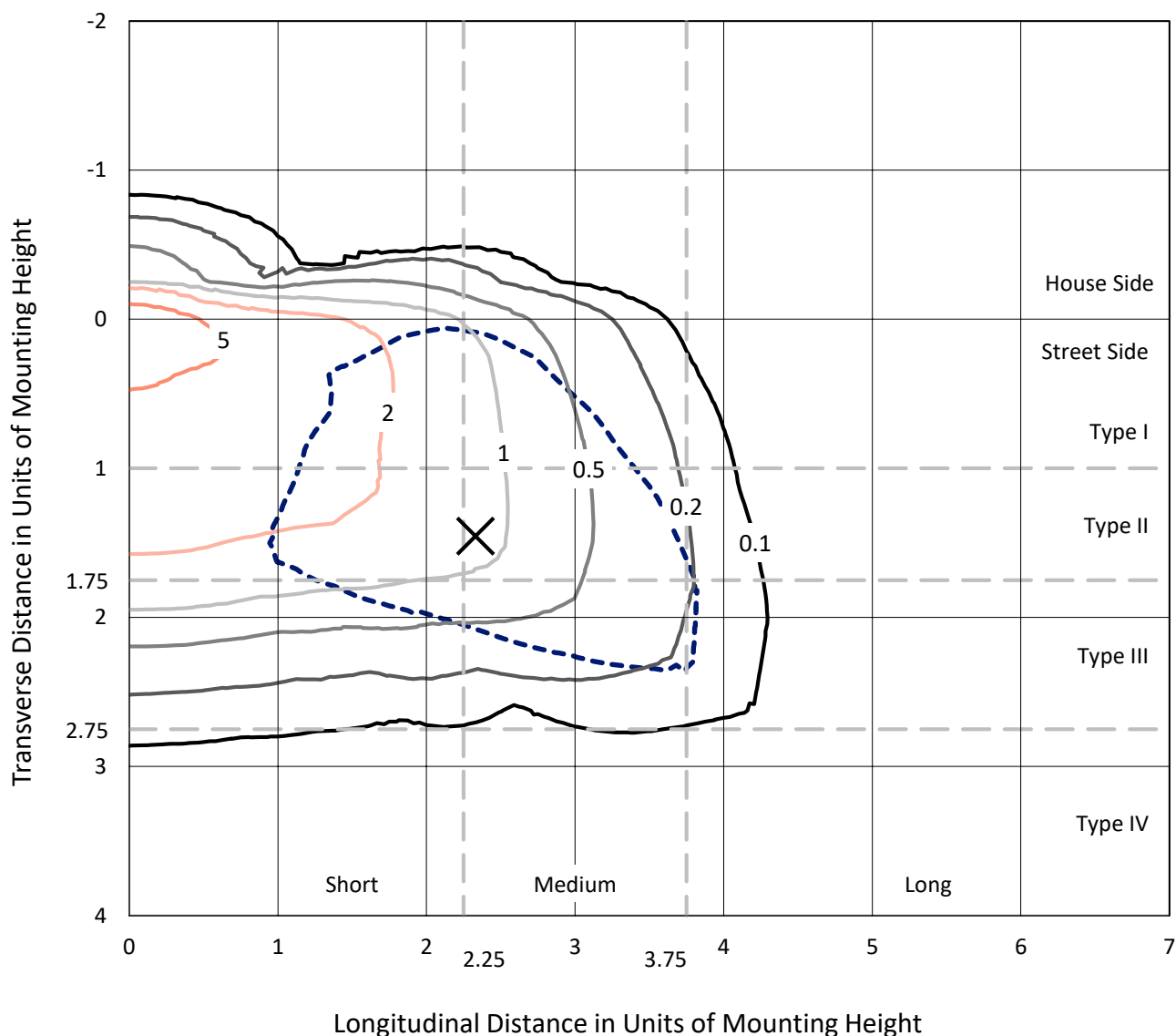
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

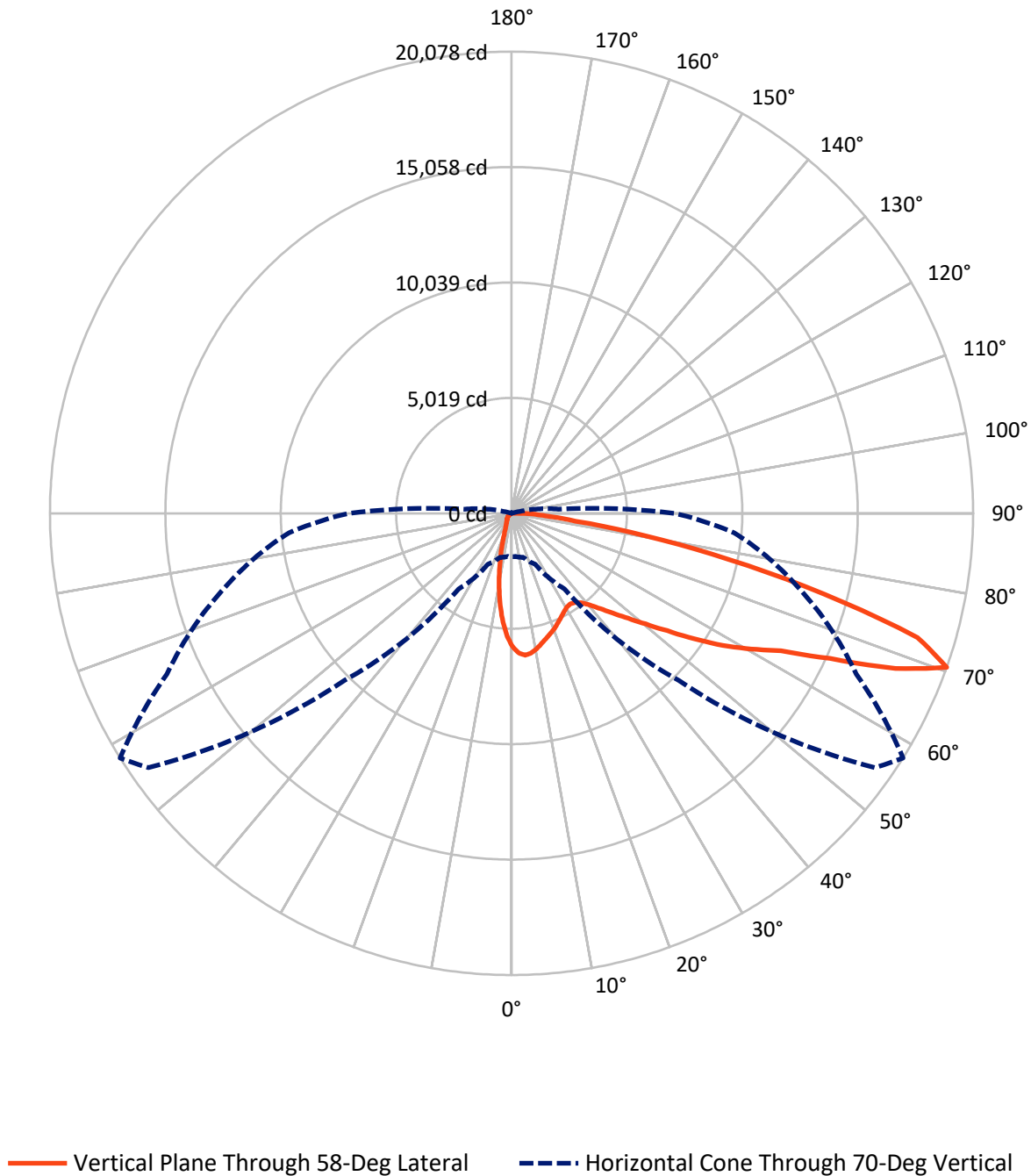
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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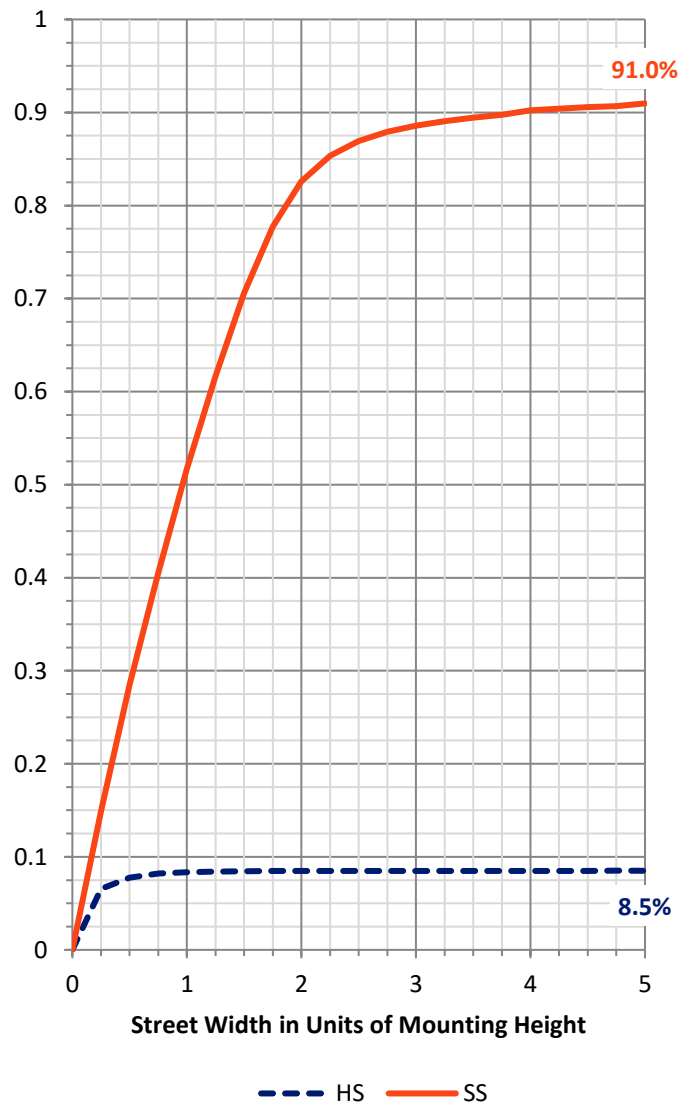
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.1	0.0	1682.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	17973.9	0.0	17973.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	19656.0	0.0	19656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	2.4
10°-20°	996.5	5.1
20°-30°	1310.1	6.7
30°-40°	1735.0	8.8
40°-50°	2593.3	13.2
50°-60°	4154.4	21.1
60°-70°	5236.6	26.6
70°-80°	2824.6	14.4
80°-90°	330.6	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°	19656.0	100.0
0°-180°	19656.0	100.0

Coefficient of Utilization



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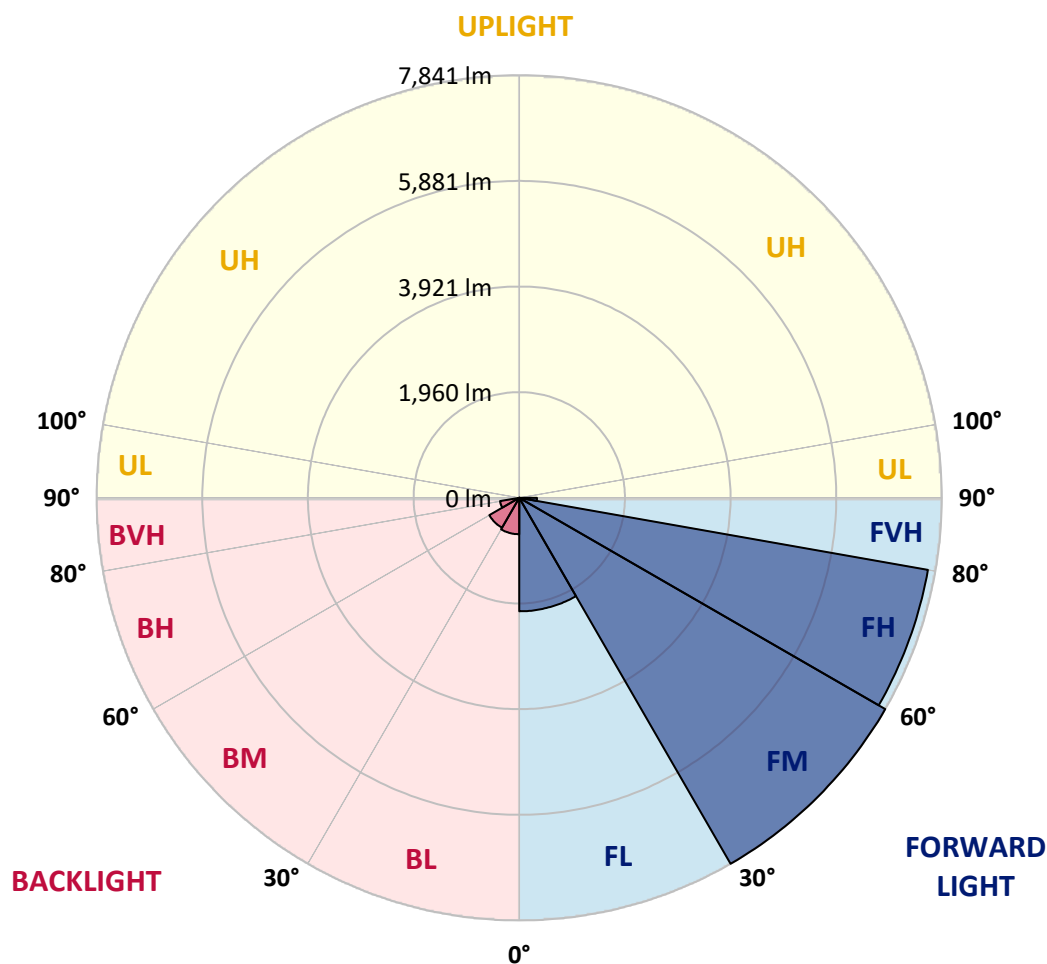
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2105.6	10.7			
FM	(30°-60°)	7841.1	39.9			
FH	(60°-80°)	7699.5	39.2			G4/12000
FVH	(80°-90°)	327.8	1.7			G3/500
BL	(0°-30°)	675.8	3.4	B2/1000		
BM	(30°-60°)	641.7	3.3	B1/1000		
BH	(60°-80°)	361.8	1.8	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	58°	65°	75°	85°
0°	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3
2.5°	6287.7	6272.2	6266.4	6256.6	6219.0	6182.3	6109.5	6089.1	6043.3	5934.6	5819.4
5°	6292.6	6291.8	6308.9	6304.9	6291.8	6274.6	6222.3	6195.3	6117.7	5962.4	5751.5
7.5°	5989.4	6004.9	6043.3	6074.4	6110.3	6156.9	6163.5	6137.3	6073.6	5906.0	5626.5
10°	5582.3	5606.9	5660.8	5722.1	5816.1	5909.3	5992.6	5989.4	5967.3	5802.2	5476.1
12.5°	5174.5	5203.1	5265.2	5355.9	5489.2	5641.2	5789.9	5810.4	5847.2	5709.0	5337.1
15°	4817.3	4841.8	4903.1	5014.3	5179.4	5383.7	5602.0	5639.6	5734.4	5636.3	5221.1
17.5°	4514.1	4529.6	4574.6	4698.0	4889.2	5136.9	5420.5	5494.1	5635.5	5579.1	5120.6
20°	4302.4	4304.9	4334.3	4420.9	4612.2	4889.2	5232.5	5338.0	5530.9	5530.0	5016.8
22.5°	4197.8	4189.6	4195.3	4245.2	4385.8	4653.0	5044.5	5169.6	5436.9	5488.3	4911.3
25°	4178.2	4171.6	4155.3	4161.8	4246.8	4446.3	4854.9	4999.6	5354.3	5463.0	4819.8
27.5°	4239.5	4246.0	4218.2	4188.8	4195.3	4312.2	4686.6	4854.1	5287.3	5463.0	4755.2
30°	4362.9	4366.2	4345.7	4307.3	4255.8	4274.6	4569.7	4737.2	5253.8	5500.6	4714.3
32.5°	4499.4	4517.4	4514.9	4483.9	4410.3	4334.3	4541.9	4694.7	5251.3	5584.0	4710.3
35°	4668.6	4689.0	4723.3	4716.8	4640.0	4514.9	4636.7	4756.8	5299.5	5721.3	4754.4
37.5°	4848.4	4879.4	4953.0	4988.1	4938.3	4796.9	4849.2	4935.0	5428.7	5943.6	4866.4
40°	5022.5	5057.6	5191.7	5329.8	5292.2	5146.7	5171.2	5239.9	5658.4	6263.2	5078.9
42.5°	5193.3	5245.6	5442.6	5669.8	5714.7	5598.7	5611.8	5666.5	5999.2	6702.9	5426.2
45°	5397.6	5456.5	5748.3	6028.6	6148.7	6098.1	6153.7	6189.6	6444.6	7284.0	5894.6
47.5°	5697.6	5765.4	6123.4	6443.0	6653.9	6686.6	6798.5	6822.2	7007.8	7960.8	6505.1
50°	6282.8	6301.6	6625.3	6915.4	7219.4	7415.6	7543.1	7561.1	7689.4	8700.4	7267.7
52.5°	7019.2	7031.5	7214.5	7409.1	7754.8	8155.3	8453.6	8478.9	8505.9	9421.3	8020.4
55°	7750.7	7749.1	7870.0	7984.5	8380.1	8962.0	9609.3	9624.8	9431.1	10105.4	8595.8
57.5°	8207.6	8251.7	8435.6	8582.7	9135.3	9881.5	10779.7	10836.9	10402.9	10612.2	9164.7
60°	8062.1	8083.4	8491.2	9035.5	10076.0	11188.4	11964.0	11978.7	11133.6	11118.1	9883.9
62.5°	6868.8	6880.3	7521.0	8643.2	10552.5	12883.5	13392.7	13153.2	11973.8	11820.2	10744.6
65°	4707.8	4782.2	5317.5	6704.5	9677.1	13946.9	15604.4	15208.0	13254.6	12832.0	11522.7
67.5°	2772.4	2756.8	3021.7	4043.3	7107.5	13240.7	18402.1	18008.2	15001.2	13509.6	11294.6
70°	1893.7	1883.1	1984.5	2447.9	4012.3	10271.3	19282.4	20077.6	16543.5	13053.5	9720.5
72.5°	1351.9	1357.6	1507.2	1901.9	2519.0	5984.5	16581.9	18464.2	16060.5	11379.6	7388.6
75°	917.9	933.4	1147.5	1560.3	2208.4	3044.5	11767.1	14036.0	13078.0	8270.5	4246.8
77.5°	493.7	510.8	763.4	1257.0	1996.7	2115.2	7569.3	9660.0	8215.0	3718.0	1230.9
80°	206.0	215.8	357.2	913.8	1725.4	1857.8	4453.6	5857.8	3500.6	733.1	274.6
82.5°	89.1	94.0	148.8	545.2	1289.7	1568.5	2358.0	2818.1	1060.9	161.0	138.1
85°	17.2	18.0	61.3	288.5	823.0	885.2	1528.4	1498.2	476.5	69.5	100.5
87.5°	0.0	0.0	14.7	90.7	241.9	482.2	932.6	921.1	161.8	33.5	37.6
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°	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3	5806.3
2.5°	5760.5	5704.1	5585.6	5439.3	5327.3	5203.9	5105.8	4981.6	4927.7	4930.1	4900.7
5°	5631.4	5515.3	5253.0	4921.9	4666.9	4403.8	4177.4	3951.8	3818.6	3775.2	3734.4
7.5°	5446.7	5262.8	4844.3	4334.3	3902.7	3481.0	3114.0	2791.2	2586.8	2487.1	2450.3
10°	5238.2	4980.0	4374.3	3702.5	3086.2	2515.7	2040.0	1626.5	1461.4	1349.4	1320.8
12.5°	5055.2	4705.4	3915.0	3054.4	2322.8	1634.7	1181.0	923.6	811.6	767.5	760.1
15°	4882.7	4448.7	3472.8	2467.5	1608.5	1006.1	751.1	663.7	637.5	630.2	630.2
17.5°	4720.1	4204.3	3040.5	1889.7	1064.2	705.4	622.0	602.4	594.2	593.4	594.2
20°	4550.1	3959.9	2615.4	1384.6	743.0	597.5	574.6	564.0	561.5	561.5	561.5
22.5°	4387.4	3715.6	2201.9	989.0	595.8	545.2	533.7	526.4	523.9	523.1	521.5
25°	4231.3	3483.4	1798.1	698.8	523.1	499.4	489.6	479.8	472.4	468.3	465.9
27.5°	4103.0	3276.7	1422.1	560.7	472.4	452.0	439.7	425.0	407.0	398.9	395.6
30°	4000.8	3087.9	1096.0	473.2	425.0	404.6	385.8	360.4	334.3	320.4	319.6
32.5°	3920.7	2902.3	832.0	418.5	382.5	357.2	330.2	298.3	268.1	252.6	251.7
35°	3881.5	2738.9	635.9	378.4	344.9	313.0	279.5	244.4	215.0	200.2	198.6
37.5°	3907.6	2600.7	496.1	344.9	313.0	276.3	237.0	200.2	174.1	161.0	160.2
40°	4003.3	2512.5	402.9	316.3	286.1	241.1	198.6	164.3	142.2	131.6	130.8
42.5°	4206.8	2479.8	344.1	292.6	259.9	208.4	165.1	135.7	115.2	107.9	106.3
45°	4546.8	2528.0	304.0	269.7	232.9	177.4	136.5	111.2	93.2	87.5	86.6
47.5°	4999.6	2654.7	275.4	247.7	208.4	149.6	113.6	89.9	76.0	70.3	69.5
50°	5583.2	2855.7	251.7	225.6	185.5	126.7	94.0	71.1	58.8	54.8	54.8
52.5°	6218.2	3095.2	230.5	205.1	162.6	105.4	76.0	54.8	46.6	41.7	41.7
55°	6742.9	3304.5	207.6	189.6	134.9	87.5	58.0	41.7	34.3	31.9	31.9
57.5°	7266.9	3527.6	181.4	162.6	107.9	71.1	44.1	31.1	25.3	23.7	23.7
60°	7946.1	3800.6	156.1	132.4	85.0	53.9	32.7	22.1	18.8	18.0	18.0
62.5°	8693.1	3960.8	133.2	106.3	66.2	40.0	23.7	14.7	13.9	13.9	13.1
65°	9150.0	3734.4	112.0	85.0	51.5	30.2	15.5	10.6	12.3	11.4	9.8
67.5°	8567.2	2923.6	91.5	66.2	40.0	22.9	9.8	7.4	13.1	10.6	8.2
70°	7093.6	2046.6	71.1	46.6	31.9	19.6	6.5	4.9	13.9	10.6	6.5
72.5°	5308.5	1369.8	56.4	31.1	23.7	17.2	5.7	2.5	12.3	9.0	5.7
75°	2900.7	551.7	45.0	19.6	14.7	12.3	4.1	1.6	8.2	6.5	4.1
77.5°	763.4	145.5	32.7	13.1	8.2	4.9	2.5	0.8	4.1	3.3	1.6
80°	194.5	56.4	21.3	9.0	5.7	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	103.8	23.7	13.1	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.5	15.5	7.4	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.2	4.9	2.5	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)