

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: P321367

Luminaire Tested: **GAN-SA3C-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17429 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

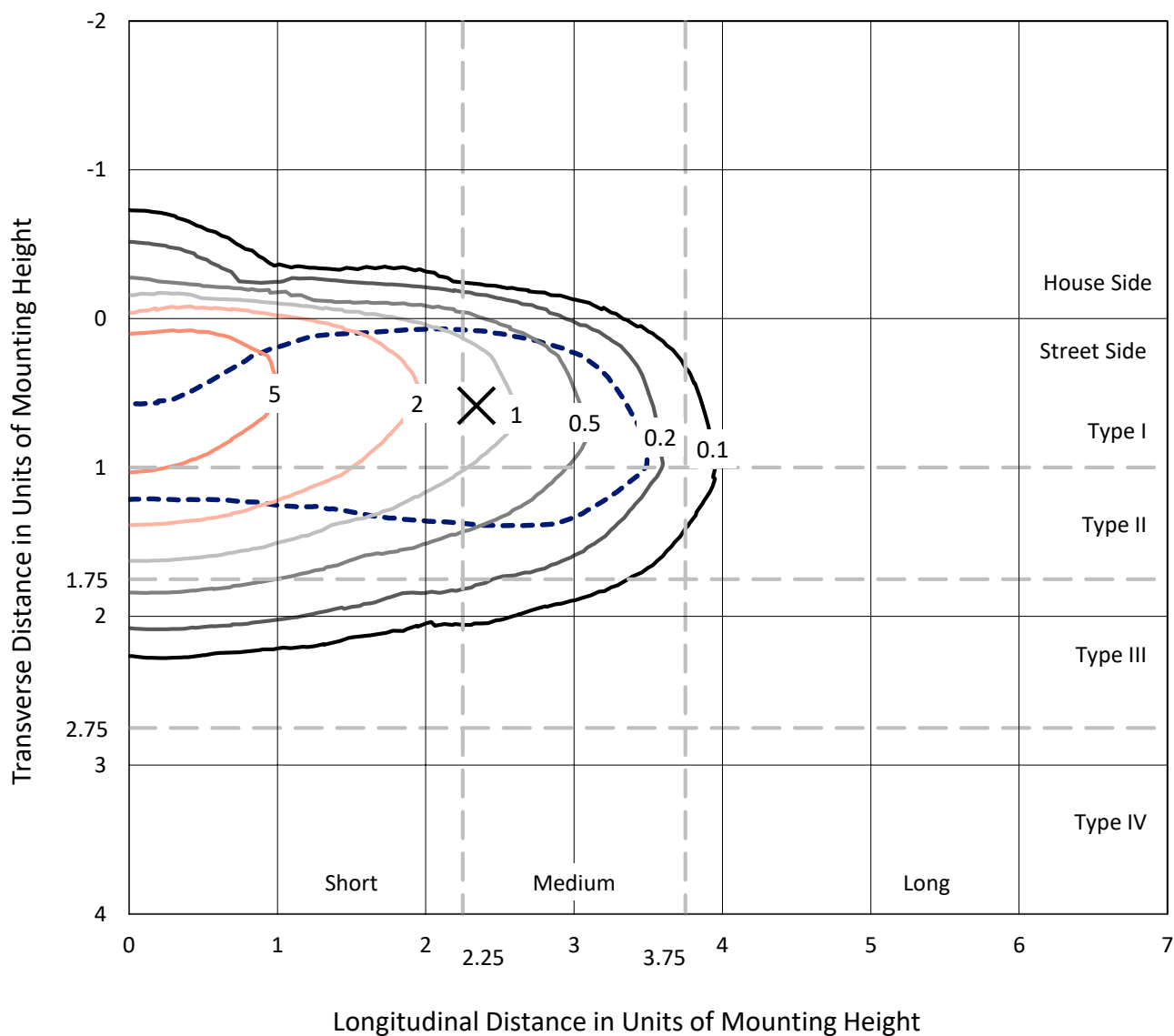
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

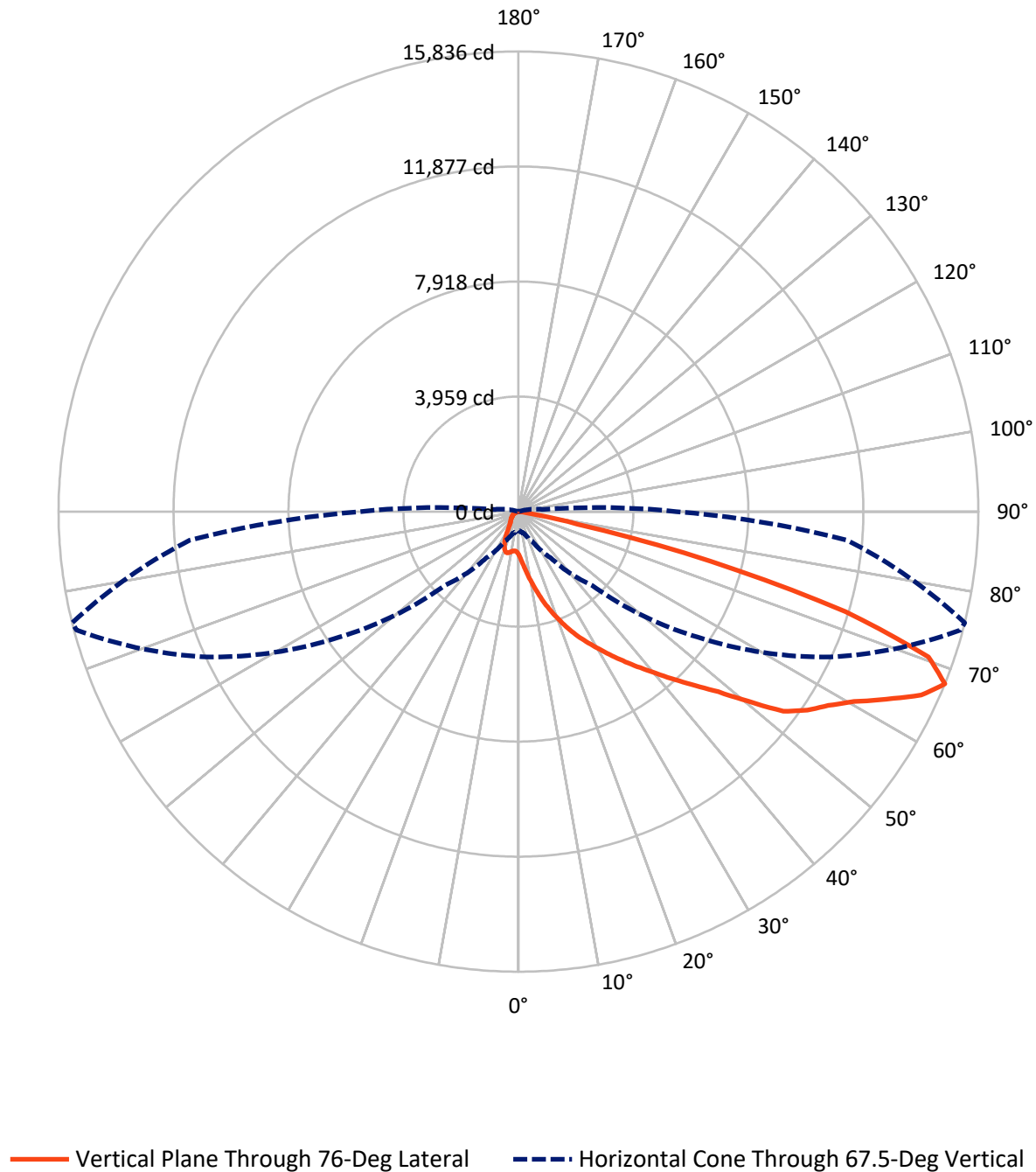
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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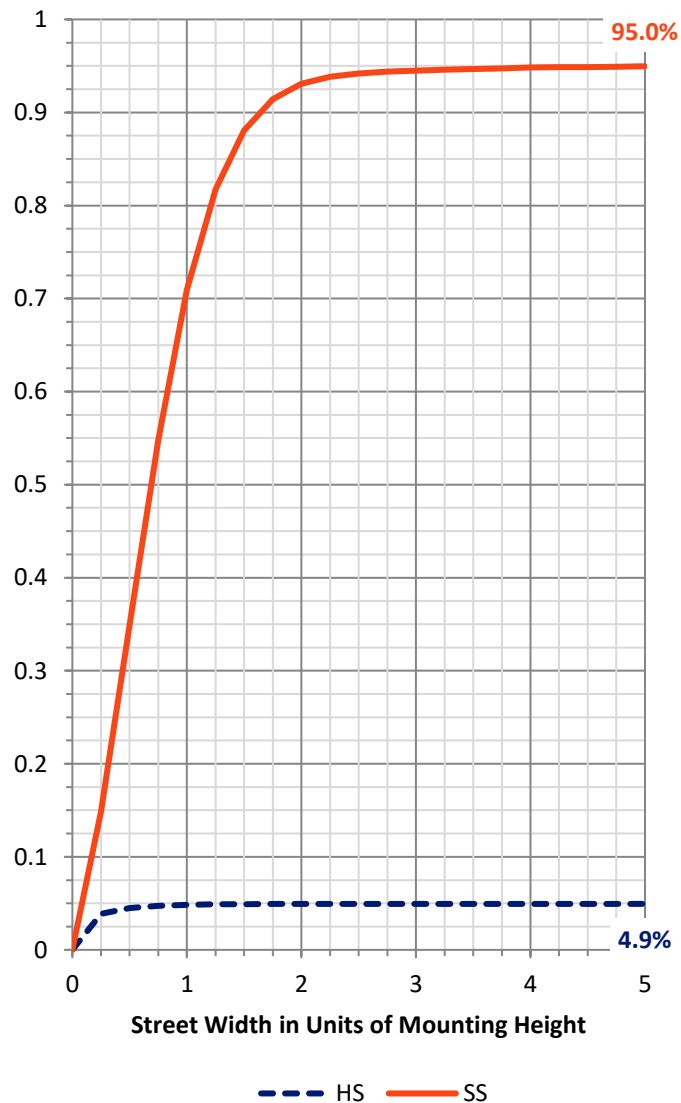
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.5	0.0	865.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16563.5	0.0	16563.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	17429.0	0.0	17429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.1
10°-20°	728.8	4.2
20°-30°	1482.9	8.5
30°-40°	2573.8	14.8
40°-50°	3636.4	20.9
50°-60°	4123.9	23.7
60°-70°	3420.3	19.6
70°-80°	1238.9	7.1
80°-90°	40.2	0.2
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°	17429.0	100.0
0°-180°	17429.0	100.0

Coefficient of Utilization



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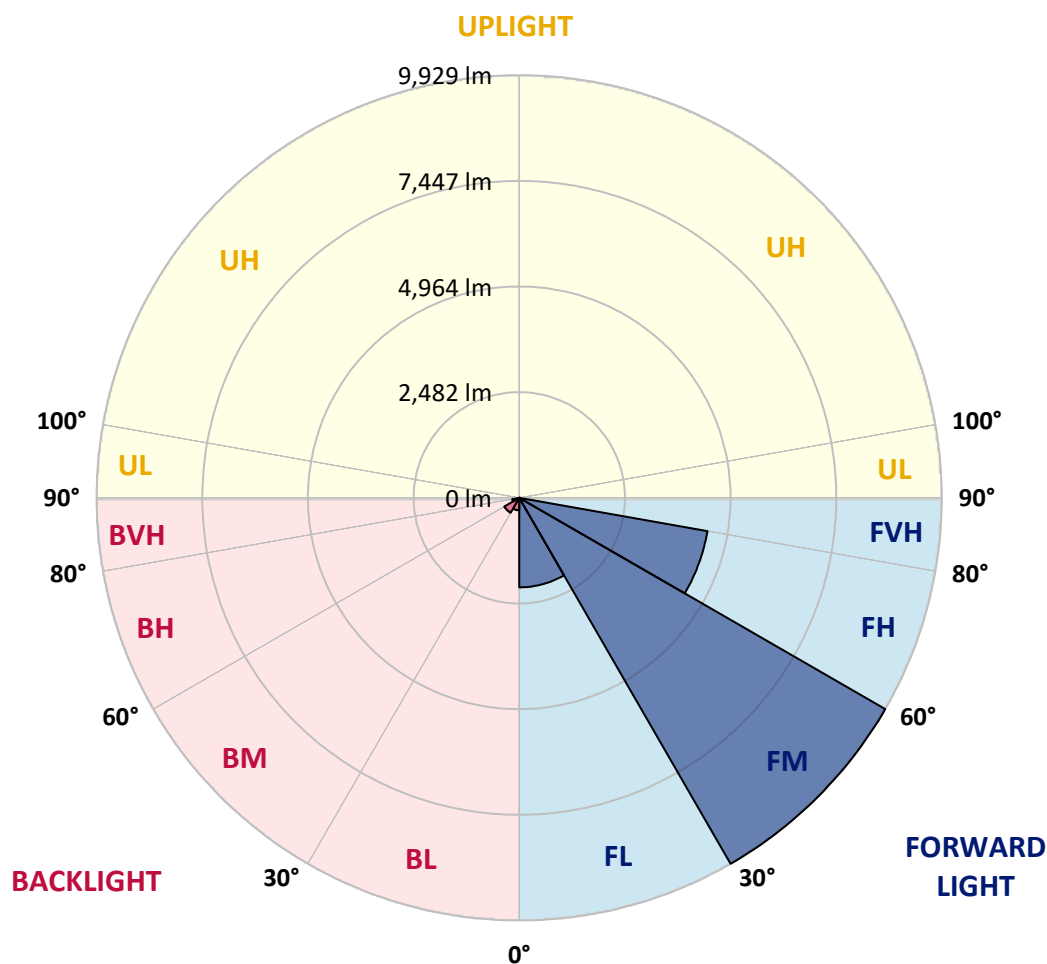
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2103.6	12.1			
FM	(30°-60°)	9928.9	57.0			
FH	(60°-80°)	4492.0	25.8			G2/5000
FVH	(80°-90°)	38.9	0.2			G1/100
BL	(0°-30°)	291.9	1.7	B1/500		
BM	(30°-60°)	405.1	2.3	B1/1000		
BH	(60°-80°)	167.3	1.0	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5
2.5°	2207.0	2157.4	2168.9	2136.8	2078.7	1959.6	1858.0	1761.8	1649.5	1645.7	1553.3
5°	2976.1	2934.1	2928.7	2863.8	2758.4	2556.0	2359.0	2134.5	1884.0	1865.7	1669.4
7.5°	3674.1	3640.5	3628.2	3551.1	3354.8	3157.8	2901.2	2571.3	2179.5	2145.9	1826.0
10°	4210.2	4194.1	4197.2	4142.2	3974.2	3790.9	3454.1	3033.3	2514.8	2462.9	2013.8
12.5°	4616.4	4620.3	4647.8	4614.2	4520.2	4384.3	4024.6	3525.9	2885.9	2814.9	2228.4
15°	4915.0	4934.1	4984.5	5026.5	5019.7	4902.1	4572.2	4026.1	3280.0	3201.3	2467.4
17.5°	5108.3	5129.6	5203.0	5296.1	5381.7	5354.2	5100.6	4508.8	3678.6	3587.8	2723.3
20°	5277.8	5303.0	5381.7	5504.6	5664.2	5698.6	5532.1	4976.9	4076.5	3965.8	2987.5
22.5°	5645.1	5644.4	5692.5	5764.3	5916.2	6004.8	5899.4	5411.4	4469.8	4354.5	3257.1
25°	6309.5	6284.3	6267.5	6211.0	6244.6	6299.6	6240.8	5817.7	4865.4	4748.6	3530.5
27.5°	7099.2	7114.4	6978.5	6826.5	6708.9	6652.4	6556.2	6194.2	5245.7	5117.4	3797.8
30°	7932.3	7936.9	7776.6	7582.6	7323.7	7109.1	6942.6	6553.9	5636.7	5497.0	4057.4
32.5°	8683.8	8654.0	8495.2	8230.9	7904.1	7662.8	7316.8	6955.6	6050.6	5915.5	4346.1
35°	9279.5	9244.3	9051.1	8810.6	8471.5	8228.6	7812.4	7356.5	6485.9	6353.8	4635.5
37.5°	9714.8	9673.5	9475.0	9227.5	8935.1	8793.8	8387.5	7792.6	6960.9	6818.9	4940.2
40°	9866.0	9830.1	9705.6	9524.6	9289.4	9257.3	8997.7	8294.3	7478.0	7326.7	5285.4
42.5°	9775.9	9740.7	9696.4	9635.3	9537.6	9568.1	9573.5	8866.3	8052.2	7903.3	5666.5
45°	9418.5	9387.2	9433.0	9522.3	9643.7	9795.0	10098.9	9481.1	8693.7	8534.9	6107.1
47.5°	8892.3	8869.4	8996.1	9219.1	9574.3	9991.2	10579.3	10127.2	9413.9	9266.5	6657.0
50°	8143.9	8140.1	8393.6	8800.6	9346.7	10085.9	11075.6	10861.8	10414.3	10259.3	7421.4
52.5°	6978.5	6986.1	7484.8	8136.2	8947.3	10021.8	11394.9	11805.7	11578.1	11417.0	8083.6
55°	5868.9	5914.7	6268.3	7207.6	8334.8	9783.5	11504.8	12246.4	12220.4	12067.7	8451.6
57.5°	4782.2	4865.4	5206.0	6083.5	7440.5	9234.4	11444.5	12437.3	12698.5	12581.6	8937.3
60°	3604.6	3642.8	4035.3	4855.5	6292.7	8232.5	11006.9	12541.1	13352.2	13271.2	9642.2
62.5°	2293.3	2388.8	2737.0	3528.2	4899.8	6841.0	10269.2	12539.6	14170.1	14214.4	10551.8
65°	1208.1	1319.6	1504.4	2186.4	3367.1	5287.0	9159.6	12422.0	15173.6	15235.4	11262.7
67.5°	651.4	683.5	781.2	1134.8	1952.7	3581.7	7529.1	11841.6	15754.7	15836.4	11362.0
70°	476.5	494.1	530.8	627.7	982.9	2080.3	5493.9	10525.8	15005.5	14975.0	10095.1
72.5°	365.8	393.3	420.8	459.7	565.1	1110.4	3420.5	8242.4	11973.0	11771.4	7545.9
75°	288.7	293.3	332.2	367.3	423.8	632.3	1519.0	4800.5	7307.7	6830.4	3913.1
77.5°	230.6	233.7	256.6	287.1	340.6	415.4	470.4	1888.6	2333.0	2081.8	849.2
80°	136.7	144.3	190.9	221.5	282.6	261.9	171.8	410.1	364.3	329.9	142.8
82.5°	76.4	82.5	107.7	174.9	197.0	125.2	85.5	110.7	85.5	83.2	40.5
85°	0.0	3.8	69.5	108.4	80.2	27.5	35.9	36.7	25.2	23.7	16.0
87.5°	0.0	0.0	21.4	20.6	3.1	4.6	8.4	12.2	9.9	9.9	8.4
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°	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5
2.5°	1507.5	1466.3	1388.4	1312.0	1247.9	1195.2	1147.8	1128.7	1113.4	1111.2	1098.9
5°	1574.7	1491.5	1342.5	1220.4	1138.6	1080.6	1031.0	1000.4	976.7	967.6	959.2
7.5°	1676.3	1550.3	1336.4	1195.9	1098.2	1000.4	908.8	809.5	747.6	724.0	710.2
10°	1800.0	1628.2	1359.3	1189.0	1018.0	811.8	659.8	533.8	482.6	465.8	461.3
12.5°	1944.3	1725.2	1399.1	1146.3	846.9	576.6	455.2	412.4	400.9	395.6	395.6
15°	2110.0	1831.3	1427.3	1022.6	626.2	436.1	394.1	374.2	362.0	355.1	355.9
17.5°	2279.6	1935.2	1413.6	843.1	462.0	387.9	356.6	335.3	318.5	311.6	310.1
20°	2450.6	2031.4	1337.2	627.7	391.0	352.1	316.9	293.3	276.5	269.6	268.1
22.5°	2627.8	2113.1	1202.8	460.5	351.3	312.3	278.0	254.3	238.3	232.2	229.1
25°	2800.4	2179.5	1014.9	372.7	313.9	274.9	242.1	219.9	205.4	199.3	198.6
27.5°	2961.6	2221.5	797.3	329.1	281.0	241.3	211.5	191.7	179.5	174.9	174.1
30°	3106.6	2225.4	589.6	297.1	252.0	212.3	184.8	167.2	156.6	152.0	150.4
32.5°	3253.3	2193.3	429.2	268.1	225.3	187.1	160.4	146.6	139.0	135.2	135.2
35°	3391.5	2119.2	334.5	242.9	199.3	162.7	141.3	131.4	126.8	123.0	123.0
37.5°	3526.7	2013.1	284.1	220.7	174.9	142.0	124.5	118.4	114.6	110.7	110.7
40°	3664.1	1879.4	258.1	200.1	155.0	126.0	110.7	105.4	101.6	98.5	97.8
42.5°	3832.9	1725.2	241.3	181.0	137.5	111.5	97.8	91.6	88.6	85.5	84.0
45°	4028.4	1592.3	227.6	161.9	123.0	99.3	84.8	78.7	74.1	70.3	69.5
47.5°	4310.2	1496.0	209.2	141.3	109.2	86.3	73.3	66.4	59.6	55.7	55.0
50°	4669.9	1416.6	185.6	123.0	95.5	73.3	61.1	52.7	46.6	42.8	42.8
52.5°	4848.6	1312.8	164.2	106.9	80.2	61.9	49.6	39.7	36.7	32.8	32.8
55°	4920.4	1233.3	142.8	90.9	66.4	51.2	38.9	30.5	28.3	26.0	25.2
57.5°	5122.0	1210.4	124.5	77.1	55.0	40.5	29.8	22.9	21.4	18.3	18.3
60°	5446.6	1221.9	107.7	65.7	44.3	31.3	22.1	17.6	16.0	13.0	13.0
62.5°	5797.1	1207.4	90.9	56.5	34.4	22.9	15.3	13.0	13.0	7.6	6.9
65°	5864.3	1075.3	77.9	46.6	26.7	16.8	9.9	8.4	11.5	1.5	0.0
67.5°	5442.7	833.9	67.2	35.9	19.9	13.0	7.6	3.8	9.9	0.0	0.0
70°	4352.2	530.0	54.2	26.0	15.3	10.7	6.1	1.5	7.6	0.0	0.0
72.5°	3077.6	307.8	42.8	18.3	13.0	8.4	4.6	0.0	4.6	0.0	0.0
75°	1556.4	164.2	26.7	13.7	9.9	6.1	3.1	0.0	0.8	0.0	0.0
77.5°	336.8	76.4	16.8	9.9	6.9	3.8	1.5	0.0	0.0	0.0	0.0
80°	73.3	33.6	10.7	6.1	3.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	17.6	5.3	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	9.2	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.1	0.8	0.8	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)