

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: P320877

Luminaire Tested: **GAN-SA3B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14969 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

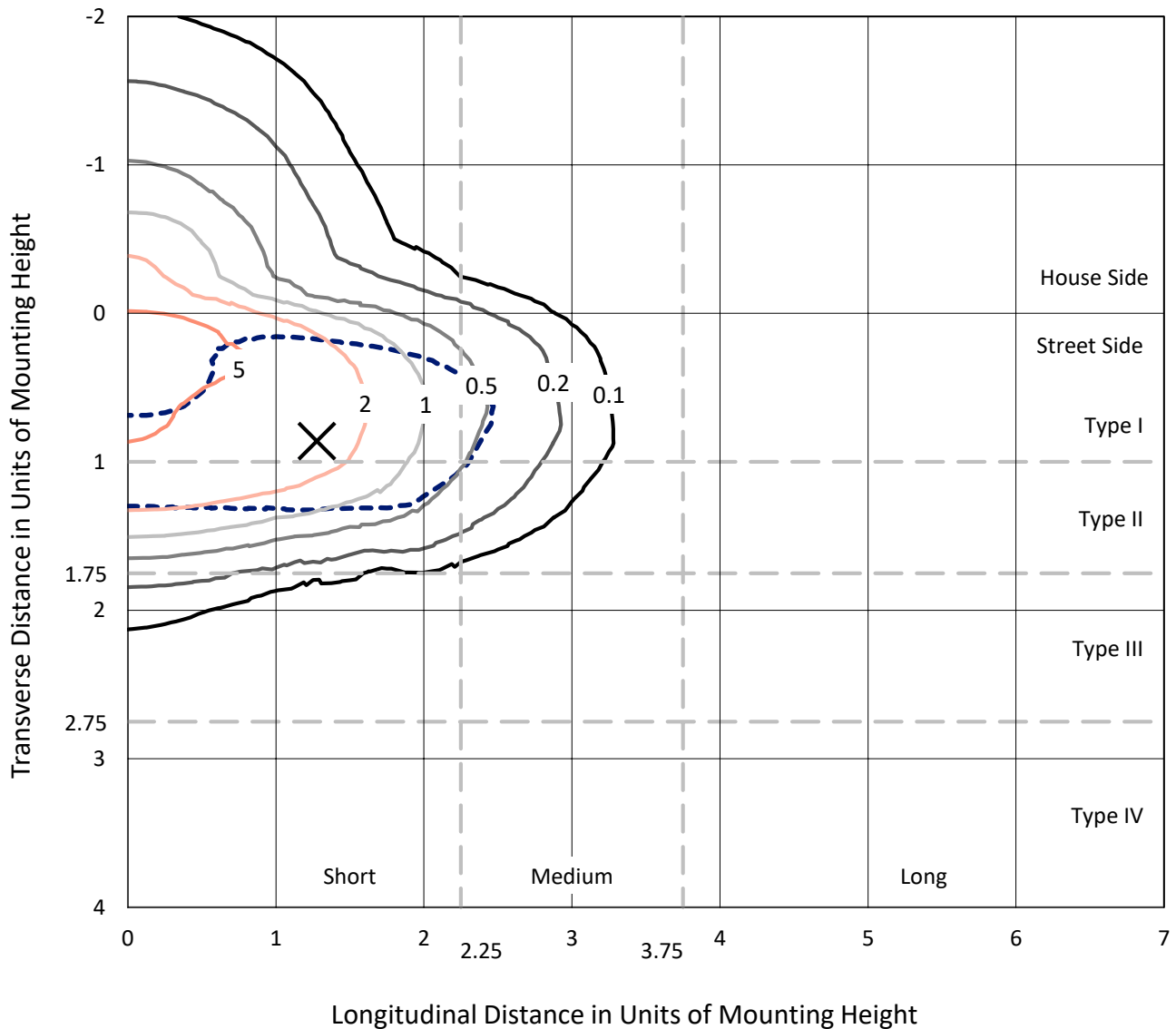


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Iso-Footcandle Lines of Horizontal Illumination

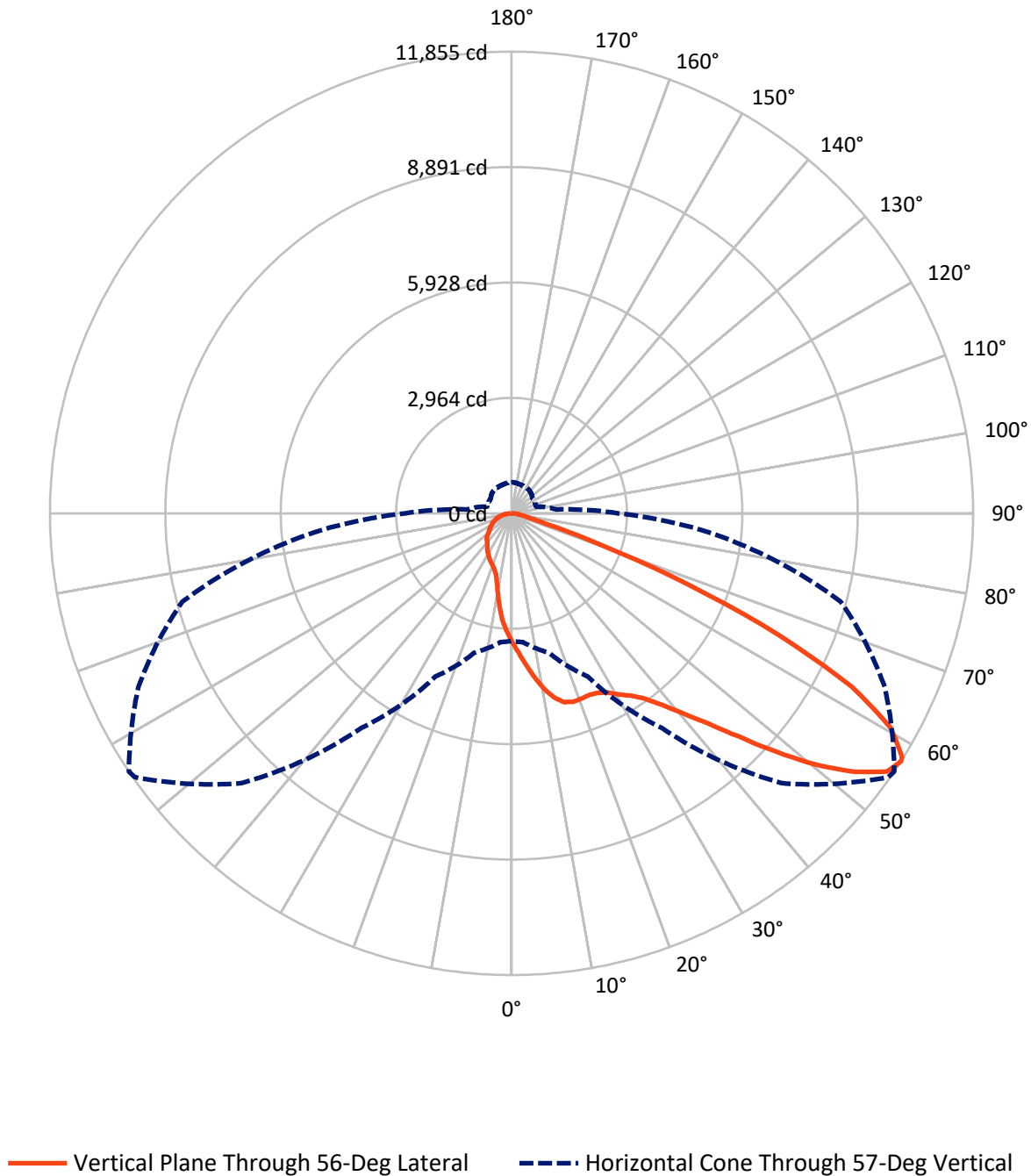
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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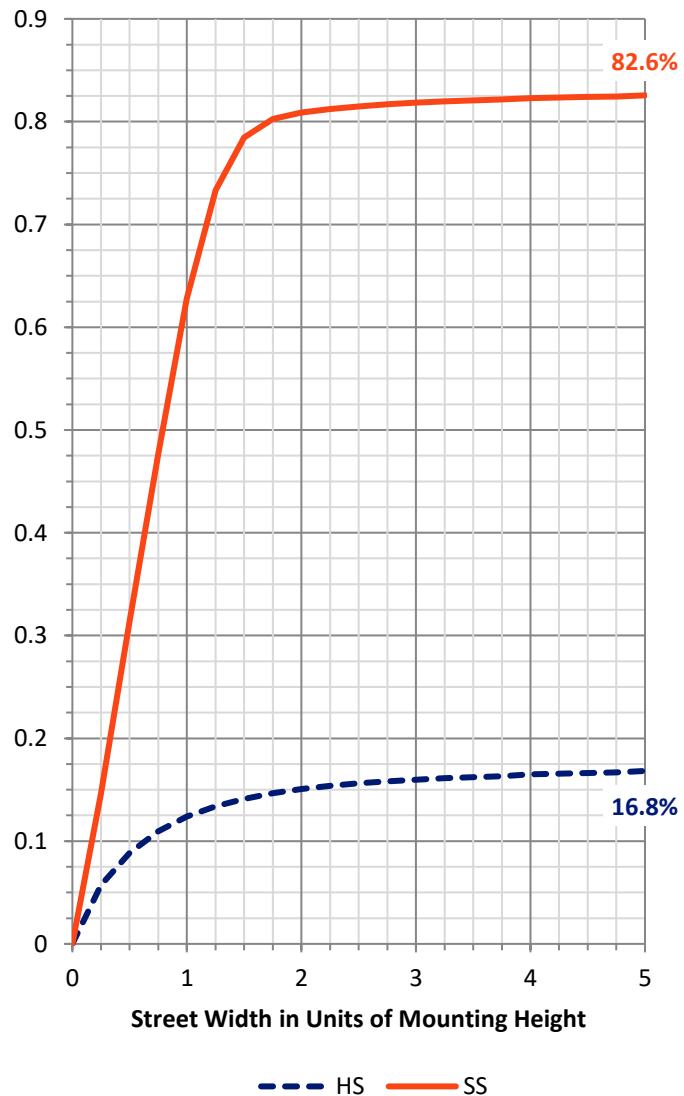
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2580.3	0.0	2580.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12388.7	0.0	12388.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	14969.0	0.0	14969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	2.1
10°-20°	896.7	6.0
20°-30°	1460.5	9.8
30°-40°	2183.3	14.6
40°-50°	3311.6	22.1
50°-60°	3711.7	24.8
60°-70°	2192.3	14.6
70°-80°	718.3	4.8
80°-90°	177.5	1.2
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°	14969.0	100.0
0°-180°	14969.0	100.0

Coefficient of Utilization



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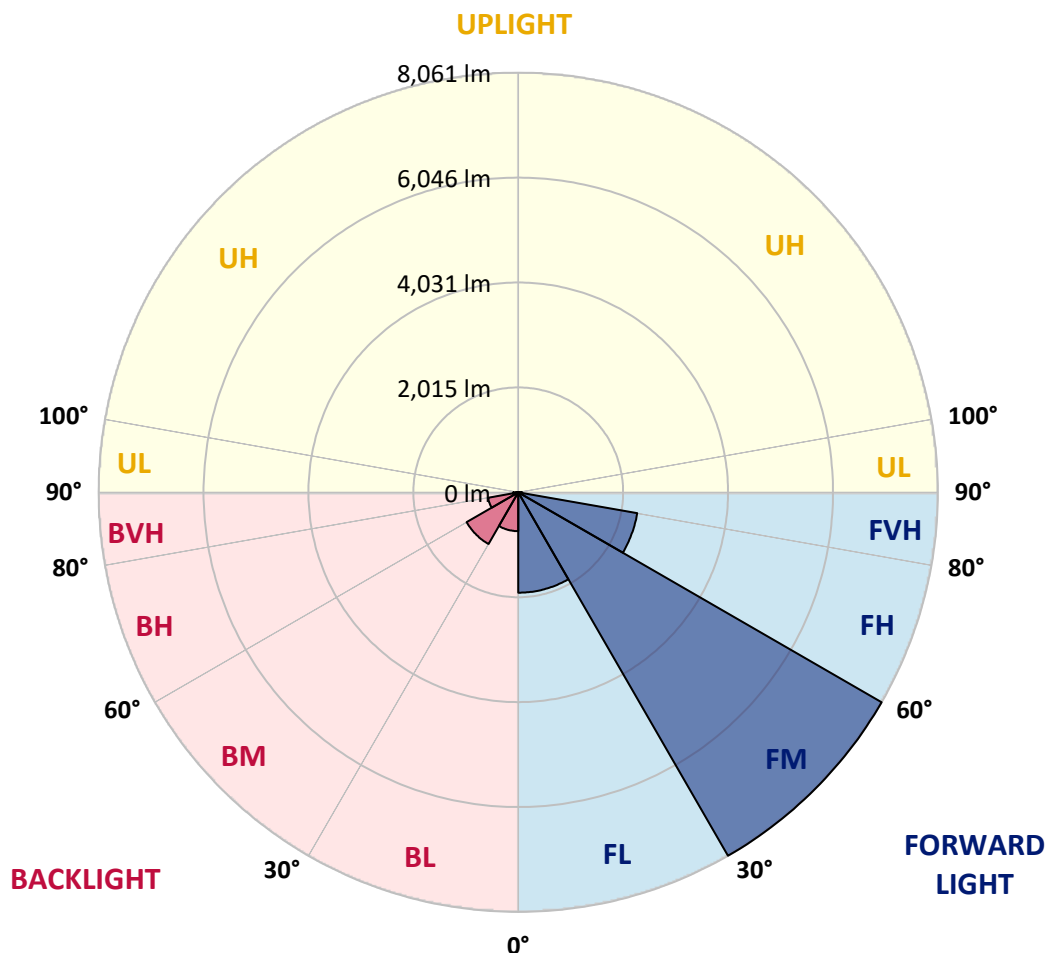
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1928.2	12.9			
FM	(30°-60°)	8061.3	53.9			
FH	(60°-80°)	2321.0	15.5			G2/5000
FVH	(80°-90°)	78.1	0.5			G1/100
BL	(0°-30°)	746.1	5.0	B2/1000		
BM	(30°-60°)	1145.3	7.7	B2/2500		
BH	(60°-80°)	589.6	3.9	B2/1000		G2/1000
BVH	(80°-90°)	99.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3812.4	3847.4	3832.0	3778.5	3737.3	3679.2	3614.4	3594.8	3526.4	3449.8	3357.7
5°	4415.9	4398.4	4373.2	4289.8	4201.9	4099.5	3936.9	3911.2	3758.9	3585.6	3402.4
7.5°	4759.5	4758.0	4743.1	4694.2	4613.9	4480.2	4284.2	4253.8	4023.9	3745.1	3461.1
10°	4709.6	4706.0	4730.7	4781.6	4805.8	4778.0	4612.9	4582.6	4300.1	3921.5	3529.0
12.5°	4426.2	4428.2	4467.8	4574.8	4720.4	4895.3	4868.6	4853.7	4586.7	4121.1	3611.3
15°	4205.5	4210.1	4241.5	4334.6	4506.4	4823.8	5023.9	5029.1	4863.9	4341.3	3707.5
17.5°	4108.8	4118.5	4132.9	4198.3	4355.7	4681.3	5061.0	5088.8	5106.8	4569.7	3800.1
20°	4139.6	4148.9	4153.0	4194.7	4323.8	4594.9	5035.3	5085.2	5293.0	4784.7	3892.7
22.5°	4278.0	4283.7	4286.2	4297.0	4397.4	4619.6	5018.3	5070.7	5427.8	4977.6	3962.7
25°	4507.4	4503.3	4486.9	4473.0	4540.4	4717.3	5057.4	5107.3	5537.3	5152.5	4008.4
27.5°	4782.2	4777.0	4745.1	4707.0	4745.6	4869.6	5170.0	5209.6	5635.6	5316.1	4031.6
30°	5111.9	5098.5	5038.3	4993.1	5008.0	5098.0	5355.7	5391.8	5787.3	5501.8	4054.2
32.5°	5493.1	5478.7	5391.8	5316.6	5316.6	5391.8	5547.1	5576.9	5916.0	5711.7	4090.8
35°	5970.5	5952.5	5839.3	5713.3	5677.8	5715.8	5807.9	5829.0	6147.5	5976.1	4157.1
37.5°	6533.3	6509.1	6362.5	6193.7	6116.1	6114.0	6180.4	6223.6	6517.3	6323.4	4269.8
40°	7097.6	7080.6	6952.5	6819.8	6667.5	6618.7	6721.0	6734.4	7000.9	6754.5	4413.8
42.5°	7533.8	7530.8	7507.1	7524.6	7368.7	7269.9	7350.2	7361.0	7591.5	7221.1	4567.1
45°	7764.3	7769.5	7884.2	8138.3	8195.9	8123.9	8163.5	8166.6	8266.4	7691.8	4707.6
47.5°	7579.6	7606.4	7896.5	8465.0	8936.7	9175.9	9110.1	9148.1	8920.7	8096.1	4817.6
50°	6859.9	6892.9	7386.7	8319.4	9282.4	10194.0	10159.5	10150.8	9448.6	8392.4	4877.3
52.5°	5968.4	5994.2	6401.6	7562.7	9028.8	10756.8	11073.1	11027.9	9917.7	8614.1	4888.6
55°	4610.8	4651.0	5041.4	6052.3	8003.0	10541.7	11745.0	11704.3	10345.2	8730.4	4875.3
57°	3278.0	3320.1	3708.0	4619.1	6732.4	9797.3	11811.9	11855.1	10576.2	8750.0	4890.2
57.5°	2925.1	2968.3	3352.5	4237.4	6336.2	9528.3	11754.2	11826.3	10617.9	8746.9	4898.4
60°	1472.8	1489.3	1734.1	2365.4	4005.4	7703.1	11002.7	11188.4	10655.4	8595.6	4933.9
62.5°	915.7	903.9	896.1	1089.6	1948.7	5108.3	9451.6	9809.2	9936.7	8229.4	4848.0
65°	805.1	783.0	698.1	682.6	860.6	2481.1	7117.7	7562.7	8401.2	7652.2	4643.3
67.5°	756.2	734.6	638.9	581.3	581.8	983.6	4419.0	4920.0	6544.6	6676.3	4160.2
70°	705.8	686.3	596.7	528.8	495.4	544.8	2033.0	2413.2	4266.2	5247.7	3477.0
72.5°	641.0	627.6	542.7	472.8	437.3	407.9	778.3	919.3	2469.8	3524.4	2414.7
75°	573.1	560.7	488.2	421.3	378.1	321.0	438.3	472.2	1254.7	1803.1	1188.9
77.5°	498.5	491.3	434.2	372.4	338.0	266.0	310.2	326.7	538.1	773.2	596.2
80°	396.6	410.5	379.7	331.8	299.9	213.0	219.7	230.5	313.3	377.6	338.5
82.5°	258.2	282.4	297.3	269.6	246.9	167.7	157.9	162.6	204.2	230.5	147.1
85°	107.5	120.9	195.5	176.4	164.1	122.4	106.0	108.0	126.6	131.2	60.2
87.5°	47.8	50.9	85.9	80.8	69.4	42.2	45.3	49.4	67.4	63.8	23.1
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°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3323.2	3280.0	3205.9	3124.1	3057.3	3003.8	2949.7	2912.7	2869.5	2846.3	2834.5
5°	3325.8	3240.9	3085.0	2925.1	2782.0	2651.4	2526.9	2431.2	2341.7	2293.3	2280.0
7.5°	3336.6	3209.0	2956.9	2693.6	2439.4	2207.4	2028.4	1916.3	1835.5	1799.5	1789.2
10°	3345.3	3171.5	2798.5	2408.6	2062.9	1827.8	1688.9	1626.1	1598.3	1593.7	1589.1
12.5°	3365.9	3132.9	2631.8	2111.2	1770.2	1607.6	1559.2	1555.1	1562.8	1574.2	1574.2
15°	3398.3	3094.8	2441.5	1856.1	1583.9	1526.8	1536.6	1559.2	1580.3	1597.8	1600.4
17.5°	3422.0	3048.0	2236.7	1651.8	1484.6	1500.1	1535.1	1567.0	1588.6	1605.5	1607.1
20°	3439.0	2975.5	2018.1	1496.0	1427.5	1475.4	1519.1	1547.4	1562.3	1579.3	1581.9
22.5°	3430.2	2878.2	1824.2	1384.3	1381.2	1439.4	1481.0	1515.0	1503.7	1487.2	1498.0
25°	3388.0	2744.5	1624.6	1301.0	1332.4	1391.0	1442.5	1419.8	1381.8	1374.6	1378.7
27.5°	3312.9	2573.7	1439.9	1223.8	1275.8	1346.3	1343.2	1320.5	1307.2	1297.9	1303.6
30°	3232.2	2388.5	1278.4	1156.4	1213.0	1271.2	1259.3	1258.8	1245.4	1230.5	1237.7
32.5°	3152.4	2202.3	1150.3	1100.9	1165.7	1173.4	1199.1	1206.9	1180.6	1149.2	1147.2
35°	3083.0	2026.3	1053.0	1050.5	1108.6	1109.6	1147.2	1136.4	1071.0	1038.6	1038.6
37.5°	3031.0	1850.9	979.0	1005.2	1033.5	1060.2	1079.3	1034.5	1023.7	1005.7	1005.2
40°	3008.4	1696.6	932.7	970.7	980.5	1014.5	965.6	983.1	988.2	979.0	979.0
42.5°	2984.7	1562.3	892.5	944.5	943.0	938.3	913.6	936.3	956.8	957.4	955.8
45°	2961.1	1446.6	857.0	888.4	910.0	860.1	864.8	888.9	917.7	928.0	928.0
47.5°	2934.8	1355.0	824.6	829.3	862.7	829.3	825.7	844.2	878.1	894.6	898.2
50°	2877.2	1272.7	787.6	777.3	786.6	797.9	801.0	809.7	847.3	873.5	879.7
52.5°	2797.5	1199.1	740.3	729.5	729.5	772.2	786.6	789.1	821.0	852.4	858.6
55°	2731.1	1152.3	691.4	689.3	687.3	744.9	769.6	773.7	795.8	820.5	823.6
57°	2735.7	1148.7	653.8	655.9	655.4	717.1	753.6	762.4	773.7	794.8	798.4
57.5°	2738.3	1151.3	645.6	646.6	646.1	709.4	749.0	758.8	767.5	789.7	793.3
60°	2776.9	1158.0	612.2	600.9	603.4	668.2	722.8	735.1	740.8	770.1	774.7
62.5°	2719.8	1128.1	585.4	558.2	558.2	625.0	686.3	705.8	714.5	754.2	761.9
65°	2554.2	1044.3	554.0	509.8	514.9	581.8	642.5	674.4	687.8	737.2	745.4
67.5°	2298.5	947.1	520.6	466.6	471.7	536.6	597.3	631.7	652.8	718.7	725.3
70°	1965.6	828.2	475.3	420.8	427.0	487.2	543.8	582.9	614.2	701.2	703.2
72.5°	1449.2	679.0	412.1	370.4	377.1	429.5	489.7	535.0	577.2	657.4	656.4
75°	861.7	530.9	342.1	319.5	324.1	373.0	440.9	495.9	559.2	640.5	650.2
77.5°	522.7	399.7	278.8	267.5	273.2	323.1	405.9	464.5	551.5	603.9	600.9
80°	315.9	285.5	222.7	215.5	221.2	276.2	375.5	440.9	482.0	516.0	516.0
82.5°	165.1	174.4	163.6	157.9	165.6	224.3	341.6	384.8	425.9	365.8	341.6
85°	67.4	91.1	99.3	98.8	103.4	155.4	294.8	329.2	274.7	260.8	267.0
87.5°	22.6	38.6	48.4	41.7	43.7	97.7	204.2	159.0	188.8	131.7	125.0
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)