

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: P324908

Luminaire Tested: **GAN-SA4A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11313 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

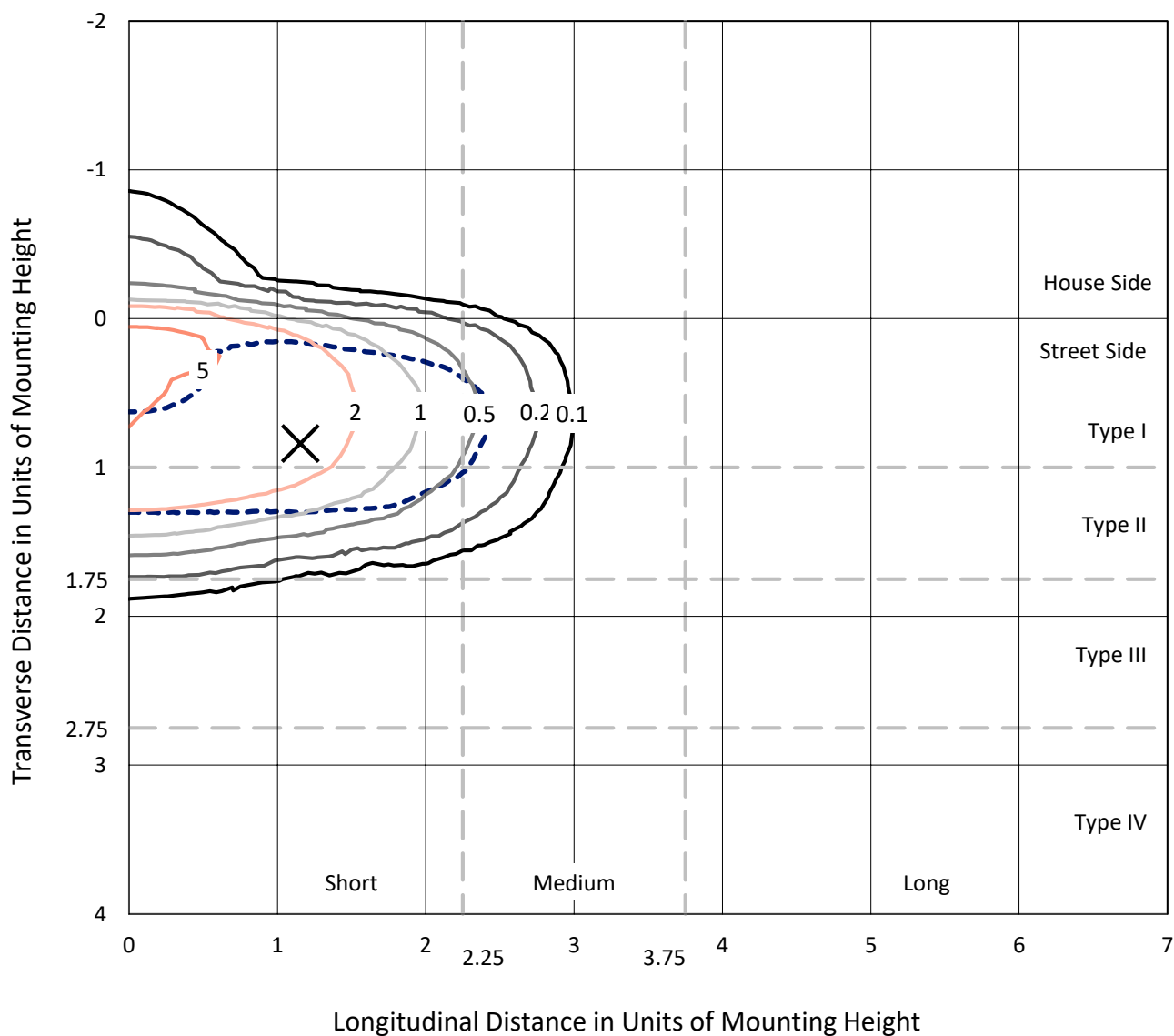
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

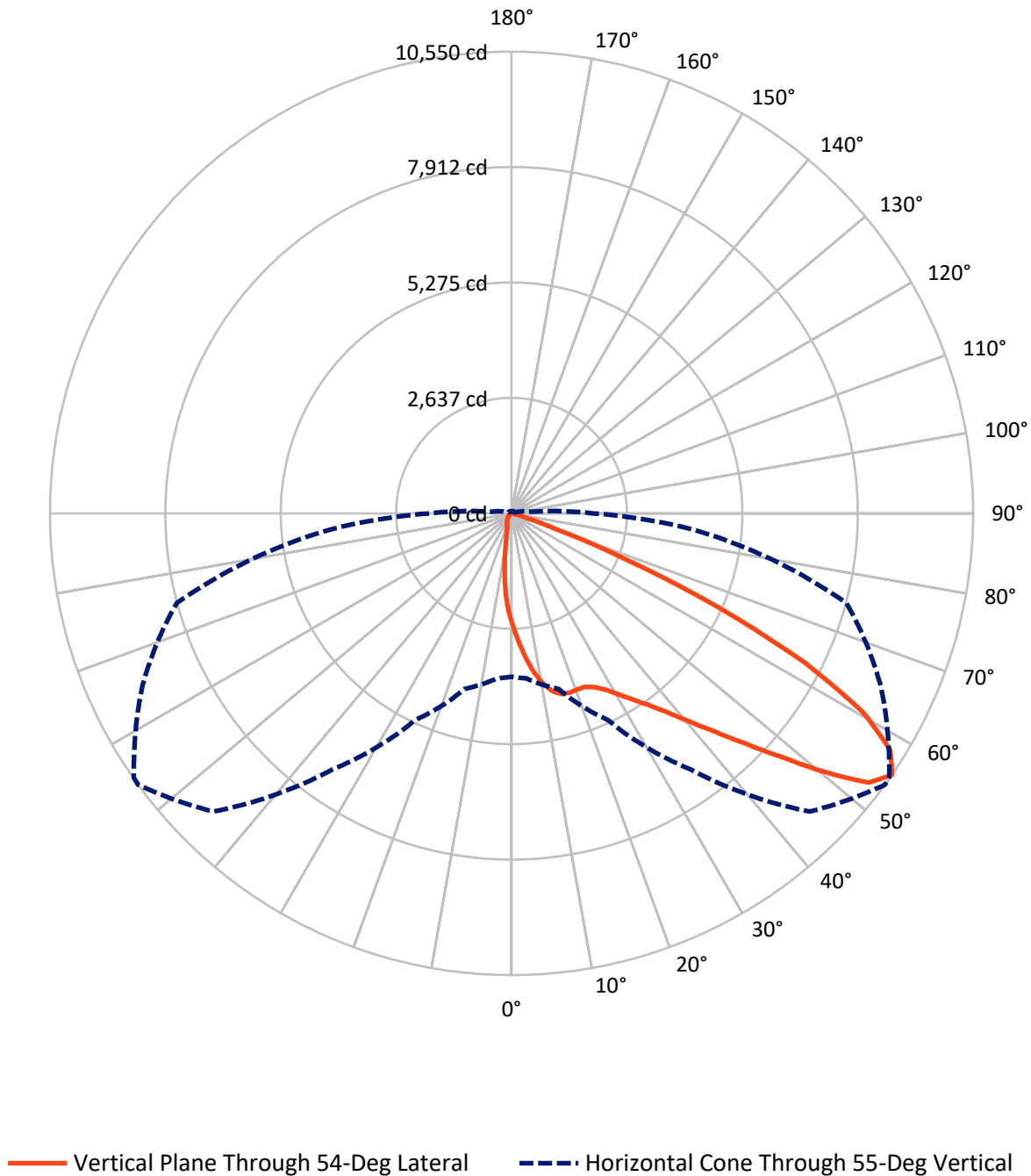
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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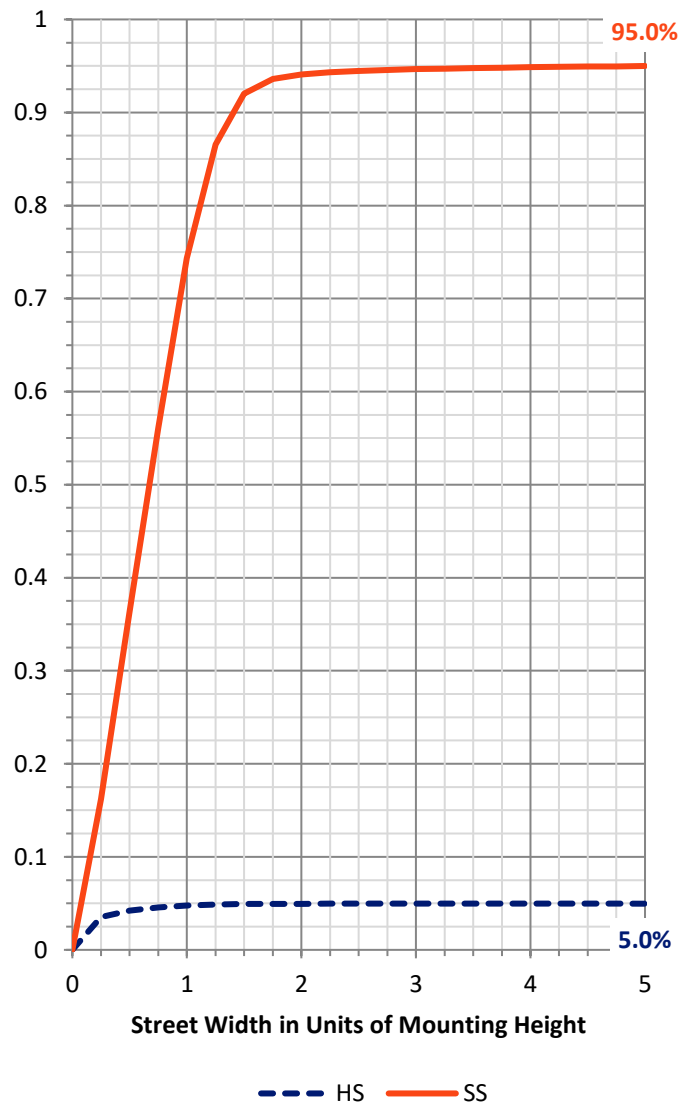
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	564.4	0.0	564.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10748.6	0.0	10748.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	11313.0	0.0	11313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.1
10°-20°	639.9	5.7
20°-30°	1092.5	9.7
30°-40°	1753.3	15.5
40°-50°	2801.8	24.8
50°-60°	3002.2	26.5
60°-70°	1541.4	13.6
70°-80°	233.5	2.1
80°-90°	15.2	0.1
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°	11313.0	100.0
0°-180°	11313.0	100.0

Coefficient of Utilization



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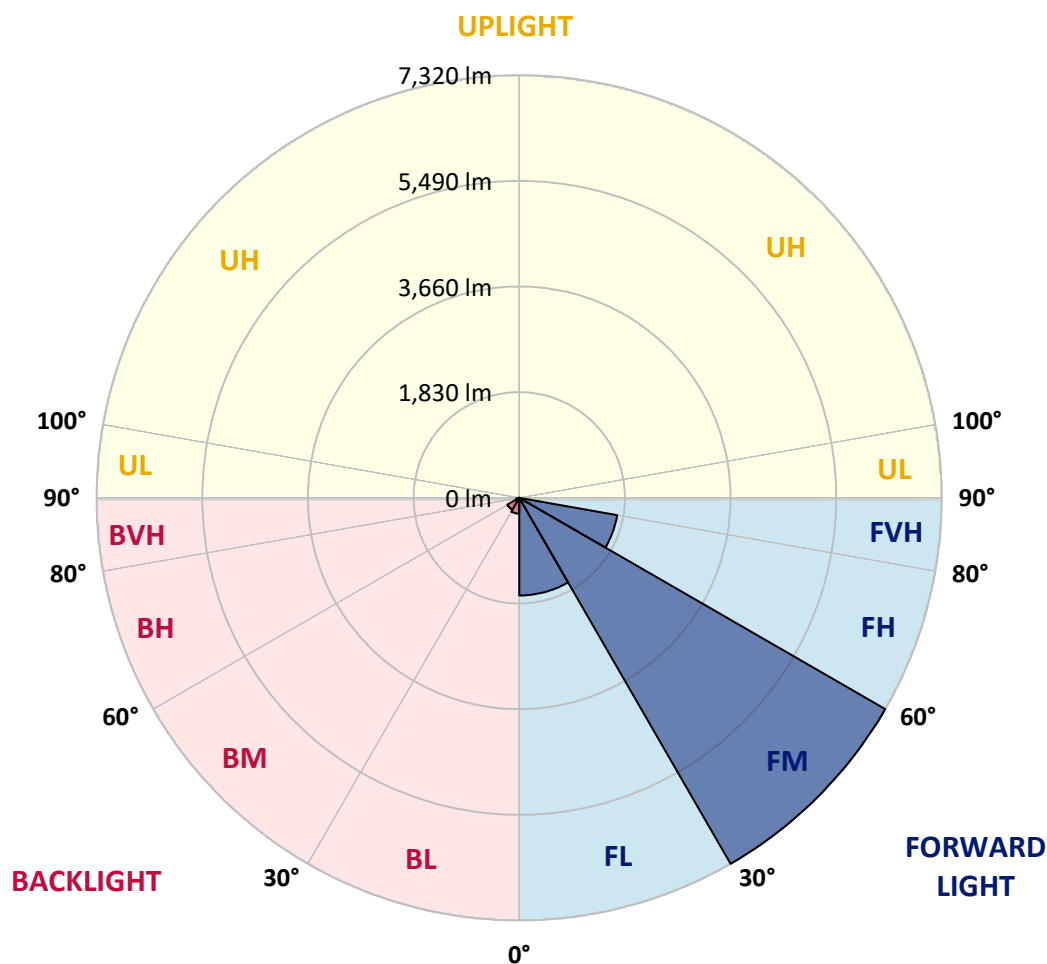
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.1	14.9			
FM	(30°-60°)	7320.0	64.7			
FH	(60°-80°)	1722.9	15.2			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	274.6	2.4	B1/500		
BM	(30°-60°)	237.2	2.1	B1/1000		
BH	(60°-80°)	52.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7
2.5°	3179.5	3132.1	3133.6	3112.1	3033.5	2971.9	2907.9	2892.7	2793.1	2688.5	2587.9
5°	3729.2	3694.5	3686.2	3644.6	3535.2	3419.4	3295.3	3266.5	3071.6	2857.6	2647.0
7.5°	4011.5	4012.0	4005.2	3990.0	3921.6	3809.3	3657.8	3627.5	3362.3	3041.3	2708.6
10°	3929.5	3948.0	3986.1	4036.5	4088.7	4074.6	3960.7	3933.4	3645.1	3235.7	2777.0
12.5°	3738.0	3740.4	3782.9	3865.5	4015.9	4170.3	4172.3	4163.0	3915.3	3439.0	2852.2
15°	3642.7	3652.0	3667.6	3720.9	3863.5	4110.7	4287.6	4300.8	4163.0	3654.9	2932.3
17.5°	3705.2	3718.4	3705.2	3711.6	3794.1	4016.4	4307.6	4341.3	4379.4	3868.4	3008.0
20°	3874.7	3887.0	3863.5	3837.6	3853.7	3989.1	4293.4	4338.9	4549.0	4058.0	3071.6
22.5°	4103.4	4108.3	4072.6	4030.1	4018.4	4081.9	4305.2	4352.1	4684.8	4229.4	3111.6
25°	4355.0	4359.4	4314.9	4266.1	4238.2	4264.1	4401.4	4436.6	4804.5	4393.1	3134.6
27.5°	4629.1	4633.0	4577.3	4517.2	4485.0	4485.9	4560.2	4597.8	4932.0	4579.7	3153.1
30°	4918.8	4916.8	4865.5	4782.0	4741.0	4740.0	4788.8	4826.9	5116.7	4819.1	3178.6
32.5°	5244.2	5240.3	5167.5	5063.9	5017.5	5024.3	5067.8	5089.8	5345.8	5074.2	3224.0
35°	5672.6	5661.4	5551.5	5423.0	5337.5	5335.0	5371.7	5389.3	5638.0	5382.9	3299.7
37.5°	6228.6	6218.4	6069.3	5882.7	5762.5	5717.6	5761.1	5783.5	6054.7	5779.1	3421.4
40°	6776.8	6766.5	6678.1	6507.1	6321.9	6214.0	6248.2	6272.1	6575.0	6259.9	3574.8
42.5°	7154.9	7163.7	7194.5	7208.7	7035.2	6808.5	6824.2	6849.1	7121.7	6773.8	3750.2
45°	7254.6	7273.6	7447.6	7789.1	7854.0	7677.2	7513.5	7527.2	7677.2	7287.8	3925.6
47.5°	6955.1	6990.3	7325.9	7961.0	8511.2	8636.2	8326.5	8308.4	8210.2	7703.6	4050.1
50°	6274.5	6306.8	6741.6	7681.1	8710.5	9551.8	9300.7	9247.4	8677.8	7952.2	4094.1
52.5°	5289.6	5328.7	5681.9	6799.7	8334.8	9960.2	10223.1	10178.6	9020.7	7971.8	4101.4
55°	3735.5	3782.9	4156.6	5211.4	7144.2	9635.3	10549.9	10536.7	9305.6	7920.0	4117.1
57.5°	2099.3	2133.5	2536.6	3340.8	5232.4	8392.4	10208.4	10295.9	9477.5	7830.1	4140.5
60°	932.2	941.4	1150.1	1663.0	3063.3	6413.8	9230.8	9378.3	9330.0	7709.9	4180.1
62.5°	516.9	509.1	509.1	691.3	1331.3	3970.5	7527.2	7771.0	8700.2	7567.8	4182.1
65°	405.0	397.7	376.7	379.6	507.1	1762.2	5212.4	5645.8	7504.2	7151.0	4041.3
67.5°	343.5	337.1	316.1	307.8	315.1	581.4	2863.9	3313.9	5694.1	6067.9	3500.5
70°	290.2	285.8	275.1	264.8	246.2	287.3	1095.8	1401.7	3508.8	4036.5	2389.5
72.5°	233.5	231.6	235.5	226.7	204.2	191.5	374.7	453.9	1576.1	1801.3	984.4
75°	201.3	200.3	202.3	193.5	168.1	133.4	190.5	208.1	444.6	440.7	199.3
77.5°	130.9	132.4	167.6	163.7	144.6	88.9	98.7	106.5	134.8	101.1	60.6
80°	83.5	82.6	85.0	135.8	130.0	67.9	49.3	51.8	65.0	49.8	29.3
82.5°	50.8	49.8	55.7	63.5	65.5	47.4	30.3	30.8	40.6	32.2	15.6
85°	4.4	5.9	33.7	31.3	22.5	14.7	14.7	15.6	21.5	19.1	8.8
87.5°	0.0	0.0	5.9	8.8	4.9	5.4	5.4	5.9	8.3	8.3	4.4
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°	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7
2.5°	2535.6	2484.8	2382.2	2283.5	2200.0	2119.4	2027.5	1936.6	1894.1	1877.0	1859.4
5°	2540.0	2435.5	2223.9	2010.9	1790.1	1591.2	1421.7	1247.8	1160.8	1122.7	1105.1
7.5°	2545.9	2386.6	2044.6	1687.0	1331.3	1061.6	826.2	674.7	609.2	599.0	573.6
10°	2546.8	2327.5	1836.5	1329.4	892.6	640.0	492.5	414.3	385.5	380.6	372.3
12.5°	2548.8	2257.6	1605.4	984.4	595.1	428.0	356.2	330.3	322.4	322.0	322.0
15°	2554.7	2184.3	1365.5	709.4	427.5	339.1	312.7	302.4	299.5	301.0	300.5
17.5°	2554.7	2097.9	1130.0	528.6	345.4	304.9	290.2	283.4	282.4	283.9	284.3
20°	2536.1	1992.8	914.1	411.4	306.3	282.9	269.7	263.3	260.9	261.9	262.4
22.5°	2491.6	1863.8	738.2	340.5	280.4	262.8	248.7	238.9	235.0	235.5	235.5
25°	2422.3	1710.9	577.5	294.6	259.4	241.3	224.7	213.5	211.1	210.6	211.5
27.5°	2333.3	1541.9	459.7	259.4	234.5	217.4	200.8	191.5	189.6	190.0	190.5
30°	2245.9	1366.5	362.5	229.6	206.7	190.5	177.8	173.4	173.4	174.9	175.4
32.5°	2165.8	1197.9	286.8	203.7	181.7	167.1	159.8	159.3	161.7	162.7	163.2
35°	2096.9	1042.1	237.4	183.7	162.2	149.5	147.1	149.0	151.9	153.9	154.4
37.5°	2048.0	902.9	207.6	167.1	147.1	136.8	136.3	140.2	144.1	148.5	149.5
40°	2027.5	785.1	187.1	152.4	134.8	127.0	125.6	130.9	138.3	144.6	145.6
42.5°	2010.4	688.9	169.5	138.3	125.1	113.8	113.3	120.2	129.0	135.3	136.8
45°	1995.8	611.7	153.4	123.1	112.4	97.7	99.2	108.0	114.8	121.7	123.1
47.5°	1965.5	548.2	135.8	107.0	92.8	83.5	86.5	94.3	99.7	109.9	111.4
50°	1911.2	496.4	117.7	87.5	75.7	72.3	76.7	82.1	88.9	97.7	98.7
52.5°	1874.6	457.3	102.1	73.3	62.5	63.5	67.9	69.9	73.8	77.2	76.2
55°	1853.6	435.8	89.4	63.5	53.3	56.2	57.2	54.7	52.8	49.3	47.9
57.5°	1851.1	416.3	79.6	55.2	46.9	48.4	44.9	36.6	29.8	25.9	24.9
60°	1847.2	392.3	71.8	46.4	41.5	39.6	32.2	20.0	14.2	13.2	13.2
62.5°	1804.7	355.2	66.0	39.1	35.2	29.8	18.6	9.3	7.8	8.3	8.3
65°	1669.4	303.4	60.1	31.8	27.8	21.5	9.3	5.4	2.9	3.4	3.4
67.5°	1419.3	241.8	53.7	24.4	21.0	13.7	5.4	2.4	0.0	0.0	0.0
70°	950.2	150.0	45.4	17.1	13.7	8.3	3.9	0.5	0.0	0.0	0.0
72.5°	364.5	81.1	36.6	10.3	8.8	5.9	2.4	0.0	0.0	0.0	0.0
75°	82.1	53.3	25.4	7.3	6.4	3.9	1.0	0.0	0.0	0.0	0.0
77.5°	31.3	38.6	14.7	4.9	4.4	2.4	0.0	0.0	0.0	0.0	0.0
80°	15.1	23.0	6.8	2.9	2.4	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	8.8	2.9	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	4.4	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.5	0.5	0.5	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)