

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: P321740

Luminaire Tested: **GAN-SA6D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26237 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

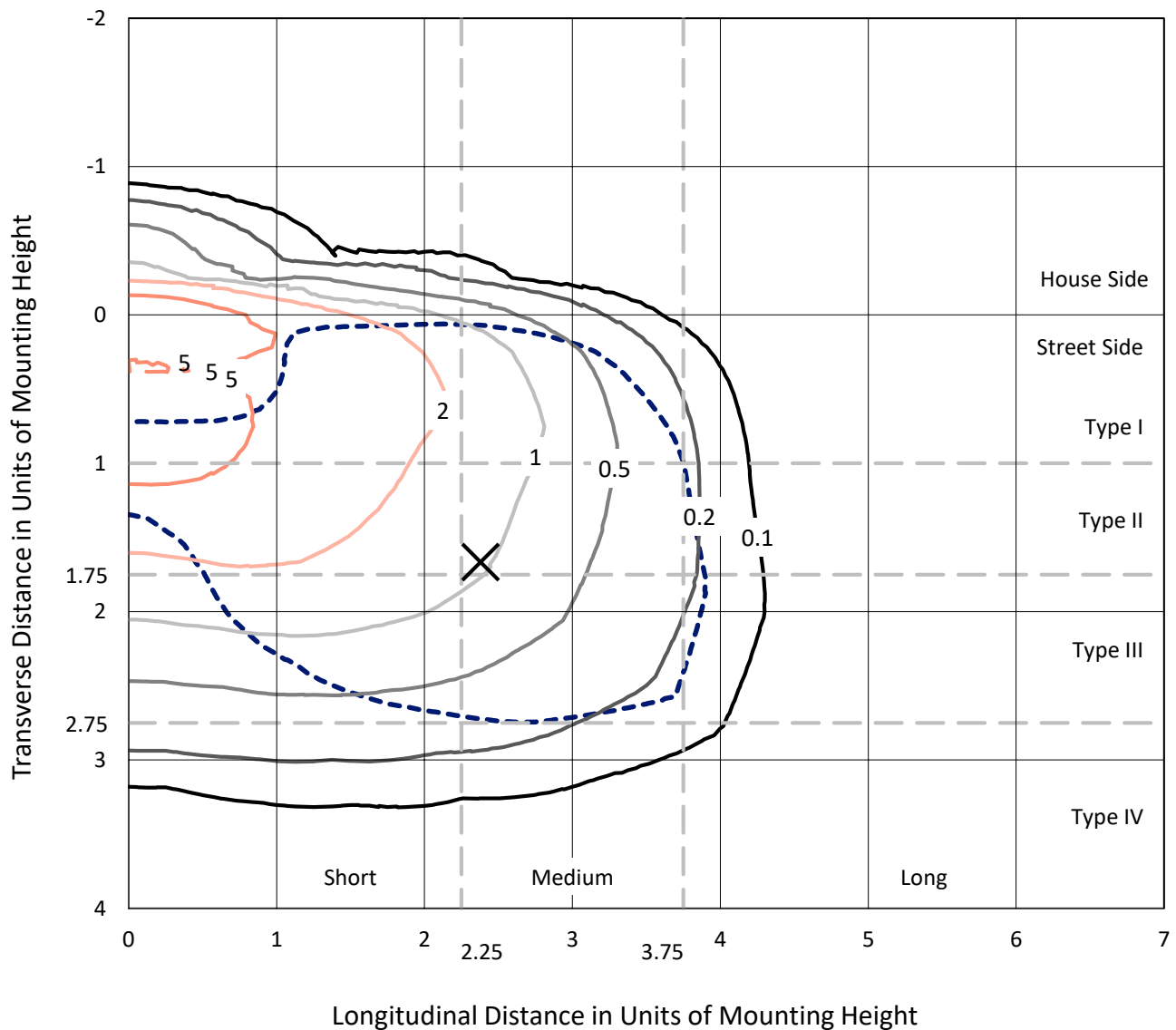
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

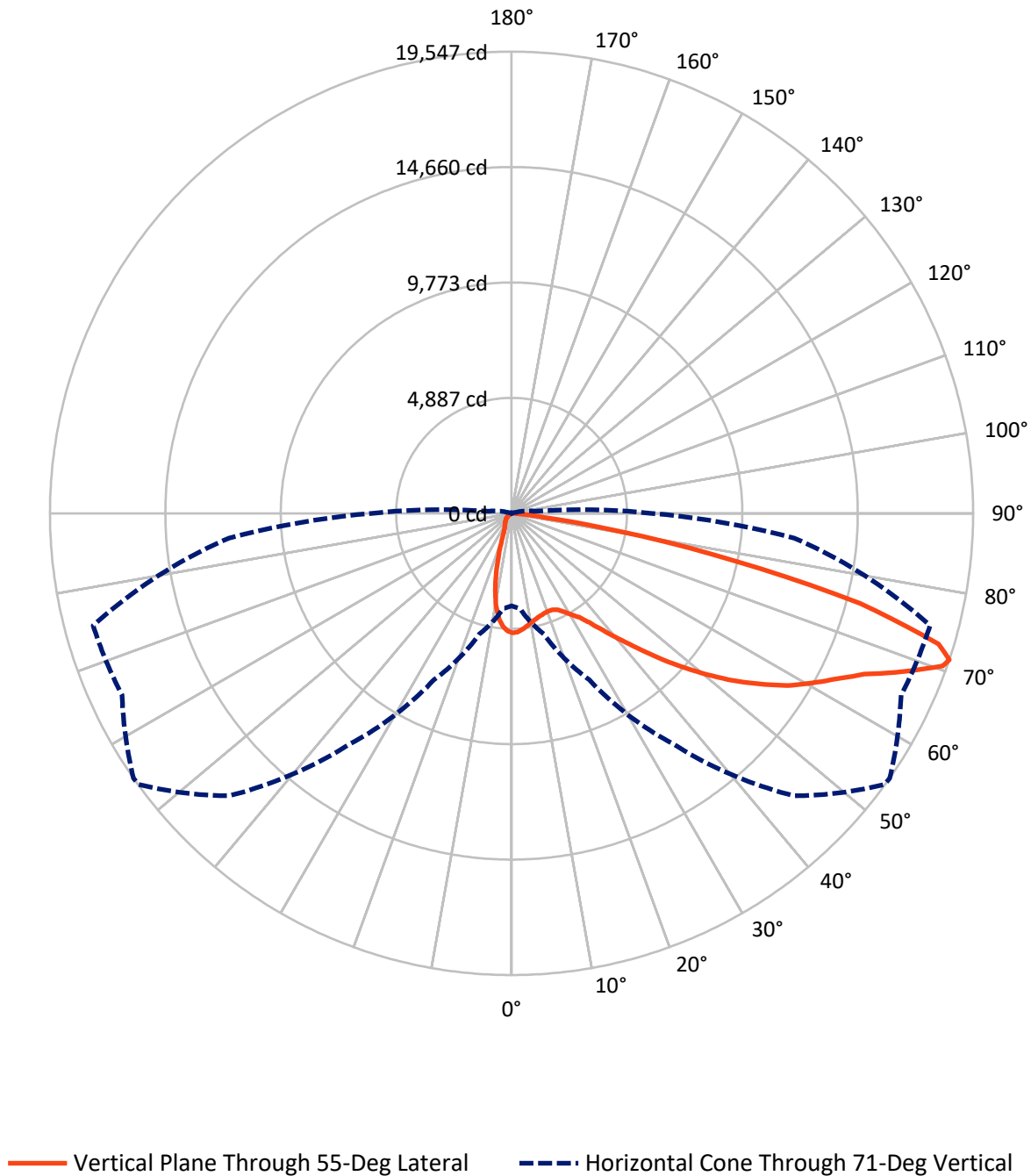
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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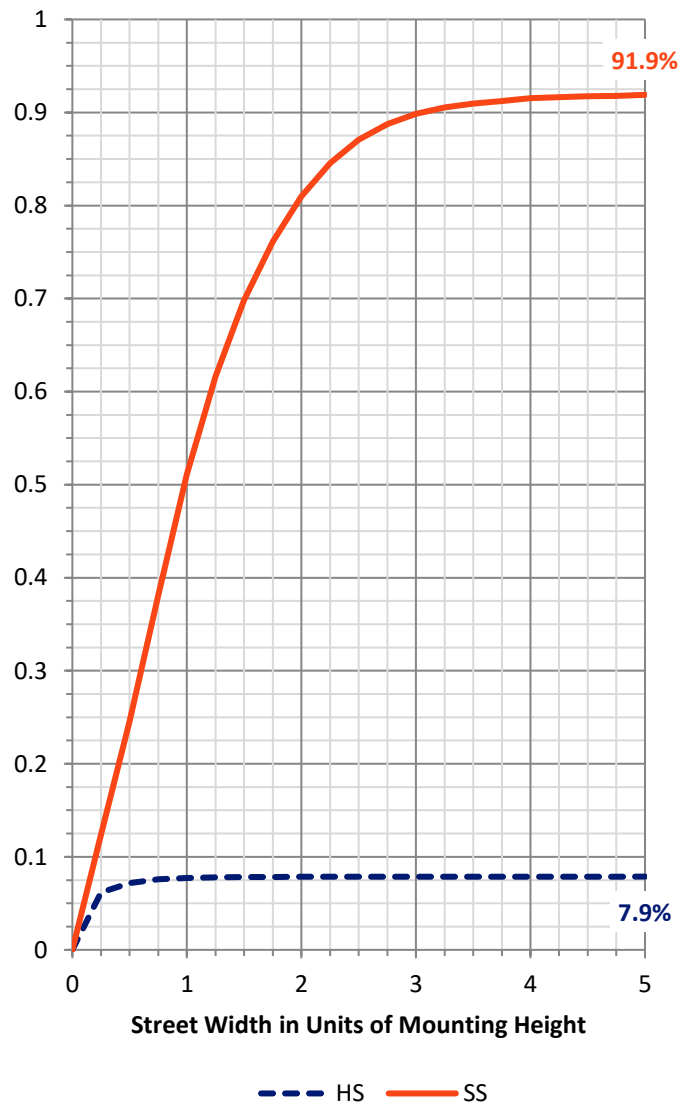
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.3	0.0	2077.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	24159.7	0.0	24159.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	26237.0	0.0	26237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	1.6
10°-20°	974.0	3.7
20°-30°	1565.2	6.0
30°-40°	2659.4	10.1
40°-50°	4127.7	15.7
50°-60°	5549.5	21.2
60°-70°	6788.9	25.9
70°-80°	3969.3	15.1
80°-90°	171.6	0.7
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°	26237.0	100.0
0°-180°	26237.0	100.0

Coefficient of Utilization



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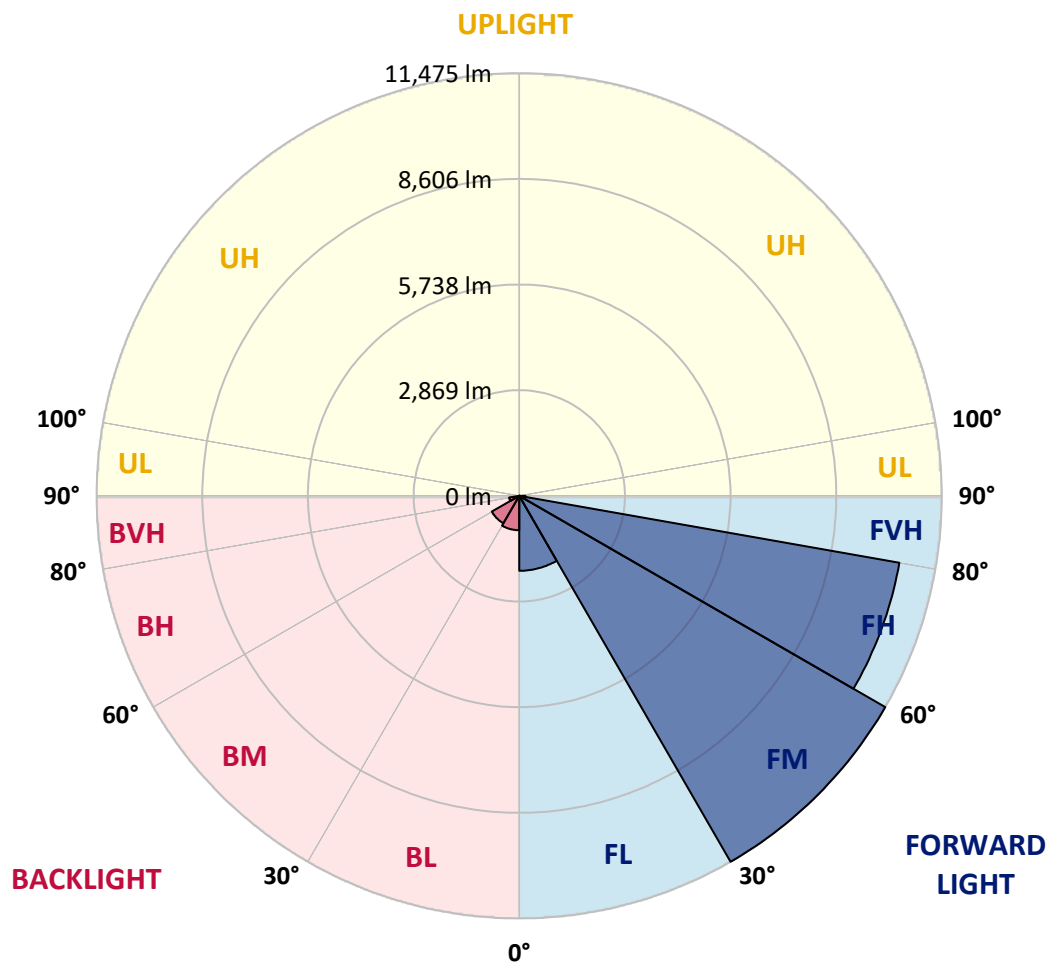
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2035.6	7.8			
FM	(30°-60°)	11475.3	43.7			
FH	(60°-80°)	10479.9	39.9			G4/12000
FVH	(80°-90°)	168.9	0.6			G2/225
BL	(0°-30°)	935.0	3.6	B2/1000		
BM	(30°-60°)	861.3	3.3	B1/1000		
BH	(60°-80°)	278.3	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	54°	55°	65°	75°	85°
0°	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9
2.5°	4911.5	4917.4	4938.6	4948.0	4970.4	5008.1	5026.9	5028.1	5058.7	5070.5	5079.9
5°	4563.9	4599.3	4634.6	4672.3	4740.6	4831.3	4920.9	4929.1	5028.1	5101.1	5140.0
7.5°	4264.7	4296.5	4338.9	4399.0	4495.6	4638.1	4787.8	4805.4	4992.7	5158.9	5246.0
10°	3957.2	3983.1	4044.4	4132.7	4265.9	4456.7	4658.2	4687.6	4960.9	5236.6	5389.8
12.5°	3628.5	3643.8	3718.1	3845.3	4040.9	4283.5	4548.6	4587.5	4940.9	5326.1	5559.4
15°	3378.8	3385.8	3456.5	3588.5	3812.3	4128.0	4463.8	4510.9	4945.6	5433.4	5744.4
17.5°	3315.1	3318.7	3356.4	3447.1	3645.0	3989.0	4396.6	4454.4	4959.8	5538.2	5930.5
20°	3573.1	3548.4	3509.5	3495.4	3580.2	3905.4	4356.6	4421.4	4978.6	5631.3	6097.8
22.5°	4281.2	4208.1	4046.7	3831.2	3700.4	3911.3	4367.2	4432.0	5038.7	5745.5	6291.0
25°	5332.0	5230.7	4956.2	4532.1	4124.5	4080.9	4455.5	4521.5	5155.3	5882.2	6476.0
27.5°	6527.8	6427.7	6091.9	5486.4	4791.3	4416.7	4658.2	4719.4	5328.5	6003.6	6617.3
30°	7672.9	7644.6	7248.8	6560.8	5630.1	4960.9	4919.7	4971.5	5456.9	6076.6	6729.3
32.5°	8643.7	8598.9	8280.8	7611.6	6590.2	5614.8	5227.2	5242.5	5553.5	6170.8	6875.3
35°	9543.7	9488.3	9209.1	8576.5	7575.1	6413.5	5700.8	5678.4	5764.4	6360.5	7087.4
37.5°	10329.5	10380.2	10070.3	9468.3	8458.7	7244.1	6339.3	6272.2	6094.3	6669.2	7394.9
40°	10986.9	10986.9	10825.5	10323.6	9412.9	8102.9	7061.5	6973.1	6590.2	7145.1	7784.8
42.5°	11223.7	11274.3	11334.4	11050.5	10267.1	8995.9	7866.1	7774.2	7288.8	7820.2	8277.3
45°	11237.8	11317.9	11625.4	11624.2	11038.7	9883.0	8773.2	8729.7	8184.2	8687.2	8887.5
47.5°	11038.7	11138.8	11645.4	11932.9	11650.1	10708.8	9765.2	9711.0	9236.2	9749.9	9526.0
50°	10731.2	10842.0	11431.0	12054.2	12066.0	11427.5	10810.2	10728.9	10394.3	10964.5	10185.8
52.5°	10181.1	10395.5	11239.0	12082.5	12339.3	12048.3	11804.5	11769.1	11690.2	12134.3	10711.2
55°	9004.1	9242.1	10757.1	12091.9	12592.6	12598.5	12736.3	12745.8	12904.8	13227.6	11102.3
57.5°	8448.1	8582.4	9916.0	12136.7	12968.4	13222.9	13685.9	13758.9	14005.1	14265.5	11548.8
60°	8098.2	8257.2	9501.3	12075.4	13558.6	14041.7	14565.9	14590.7	14854.5	15336.4	12153.2
62.5°	7819.0	7975.7	9239.8	11839.8	14221.9	15026.5	15425.9	15428.3	15626.2	16612.3	12840.0
65°	7129.8	7261.8	8710.8	11574.7	14660.2	16000.8	16424.9	16409.6	16571.0	17957.6	13637.6
67.5°	6133.1	6234.5	7630.5	10569.8	14495.2	16886.8	17932.9	17882.2	17686.7	19120.4	13951.0
70°	4741.8	4778.3	6014.2	8808.6	12949.6	17227.2	19390.2	19364.3	18371.1	18911.9	12802.3
71°	3919.5	4039.7	5300.2	7774.2	11914.0	16912.7	19531.6	19546.9	18199.1	18344.1	12011.8
72.5°	2276.1	2378.6	3841.8	5970.6	10115.1	15600.3	18798.8	18909.5	17395.7	16685.3	10260.0
75°	487.7	521.9	1424.3	2889.9	5564.1	10933.9	14838.1	15232.7	14178.3	11350.9	6183.8
77.5°	339.3	366.4	610.3	1311.2	1839.0	5402.7	9217.4	9662.7	8470.5	4265.9	1979.2
80°	268.6	299.2	475.9	647.9	497.2	1742.4	4317.7	4589.8	2825.1	951.9	333.4
82.5°	149.6	177.9	371.1	349.9	190.9	331.0	1208.7	1366.6	565.5	192.0	78.9
85°	43.6	53.0	239.2	254.5	81.3	63.6	206.2	255.6	107.2	50.7	35.3
87.5°	0.0	0.0	115.5	97.8	23.6	9.4	18.8	21.2	21.2	21.2	23.6
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°	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9	5059.9
2.5°	5079.9	5088.2	5058.7	5019.8	4978.6	4928.0	4874.9	4833.7	4832.5	4812.5	4792.5
5°	5142.4	5137.7	5056.4	4932.7	4786.6	4634.6	4489.7	4325.9	4271.8	4204.6	4182.2
7.5°	5257.8	5224.8	5052.8	4781.9	4461.4	4143.3	3814.7	3483.6	3342.2	3215.0	3192.6
10°	5402.7	5340.3	5030.4	4555.7	3967.8	3381.1	2885.1	2435.1	2237.2	2085.2	2078.2
12.5°	5553.5	5458.1	4968.0	4214.0	3321.0	2496.4	1925.0	1482.0	1317.1	1211.1	1220.5
15°	5711.4	5568.8	4833.7	3753.4	2584.7	1694.1	1182.8	922.4	856.5	829.4	836.4
17.5°	5872.8	5645.4	4646.4	3198.5	1857.8	1093.3	818.8	745.7	745.7	751.6	754.0
20°	6013.0	5686.6	4370.7	2576.5	1259.4	796.4	716.3	705.7	711.6	721.0	722.2
22.5°	6152.0	5689.0	4011.4	1946.2	881.2	697.4	682.1	677.4	680.9	691.5	692.7
25°	6265.1	5660.7	3561.4	1384.3	703.3	657.4	650.3	647.9	650.3	663.3	663.3
27.5°	6311.0	5558.2	3012.4	973.1	630.3	612.6	610.3	612.6	616.1	625.6	626.7
30°	6315.7	5379.2	2413.9	704.5	571.4	552.5	557.2	565.5	561.9	559.6	561.9
32.5°	6327.5	5171.8	1830.8	579.6	521.9	492.4	486.6	486.6	472.4	464.2	459.5
35°	6366.4	4928.0	1327.7	520.7	471.2	437.1	414.7	388.8	361.7	347.5	344.0
37.5°	6427.7	4672.3	950.7	481.8	426.5	387.6	345.2	299.2	260.4	249.8	249.8
40°	6539.6	4408.4	703.3	451.2	391.1	342.8	279.2	219.1	183.8	177.9	177.9
42.5°	6716.3	4130.4	560.8	424.1	360.5	296.9	213.2	159.0	133.1	129.6	128.4
45°	6900.1	3824.1	490.1	398.2	327.5	243.9	157.9	117.8	102.5	99.0	99.0
47.5°	7083.9	3497.8	455.9	373.5	295.7	189.7	117.8	93.1	86.0	86.0	87.2
50°	7239.4	3157.3	431.2	346.4	254.5	143.7	93.1	78.9	76.6	81.3	82.5
52.5°	7278.2	2822.7	400.6	312.2	203.8	109.6	76.6	69.5	69.5	69.5	69.5
55°	7254.7	2563.5	360.5	269.8	150.8	87.2	66.0	61.3	60.1	60.1	60.1
57.5°	7334.8	2410.4	288.6	209.7	108.4	70.7	57.7	54.2	51.8	50.7	50.7
60°	7496.2	2310.2	206.2	150.8	81.3	58.9	49.5	45.9	42.4	40.1	40.1
62.5°	7710.6	2223.1	153.2	111.9	62.4	47.1	41.2	37.7	33.0	30.6	30.6
65°	7875.5	2067.5	116.6	83.6	47.1	37.7	31.8	30.6	23.6	21.2	20.0
67.5°	7623.4	1725.9	94.2	61.3	35.3	29.5	24.7	23.6	14.1	11.8	11.8
70°	6538.4	1201.7	75.4	44.8	25.9	23.6	20.0	15.3	10.6	9.4	9.4
71°	5929.3	1003.7	68.3	37.7	22.4	22.4	18.8	13.0	9.4	8.2	8.2
72.5°	4925.6	712.7	57.7	29.5	20.0	23.6	20.0	11.8	9.4	8.2	7.1
75°	2859.2	298.1	40.1	20.0	15.3	28.3	25.9	10.6	7.1	5.9	5.9
77.5°	860.0	109.6	22.4	13.0	11.8	24.7	29.5	9.4	3.5	1.2	1.2
80°	156.7	47.1	14.1	8.2	8.2	15.3	22.4	4.7	0.0	0.0	0.0
82.5°	55.4	23.6	8.2	4.7	3.5	7.1	10.6	0.0	0.0	0.0	0.0
85°	31.8	16.5	4.7	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	21.2	4.7	0.0	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)