

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: P323598

Luminaire Tested: **GAN-SA4B-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323598
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-SA4B-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 19694 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

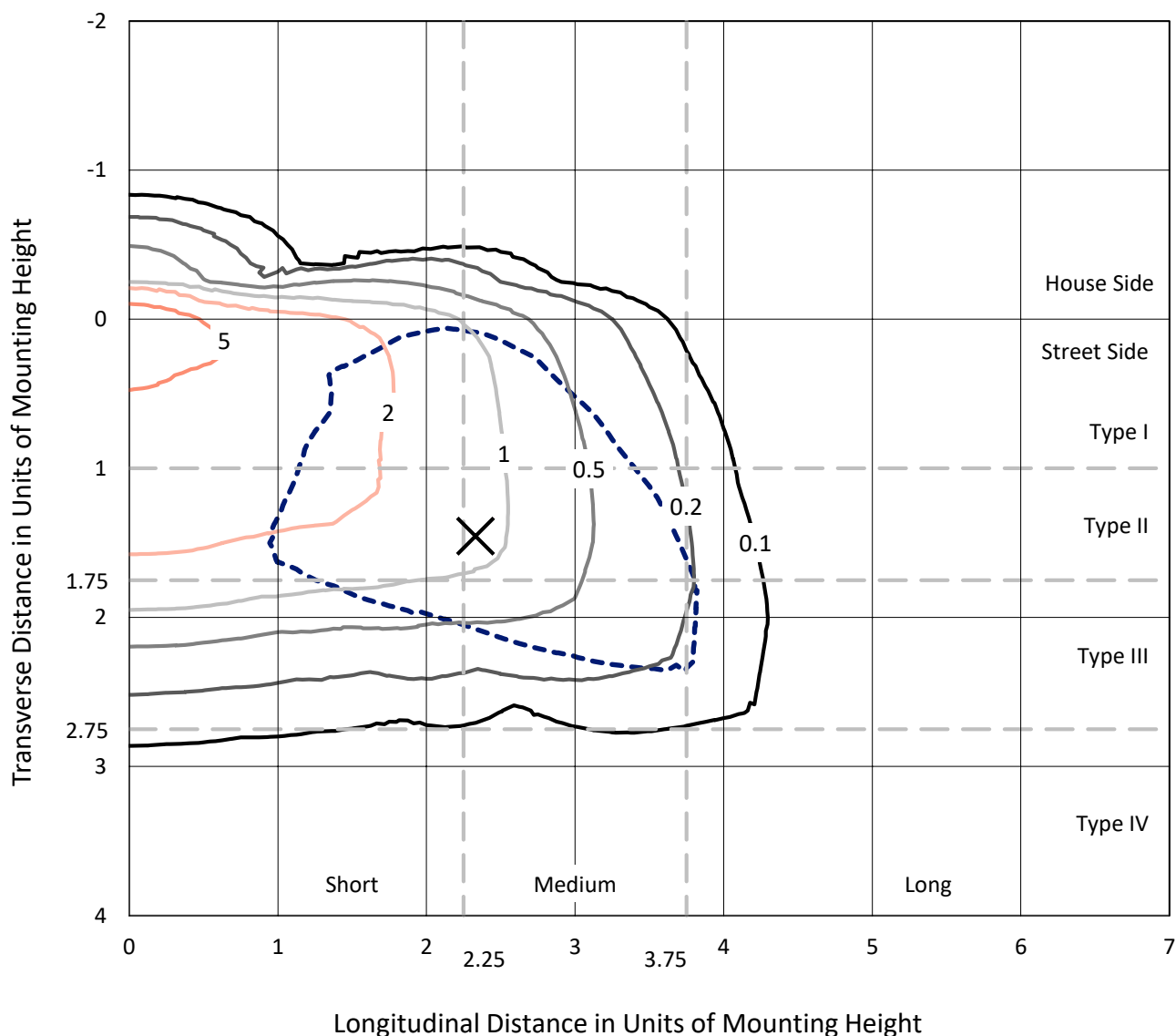
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

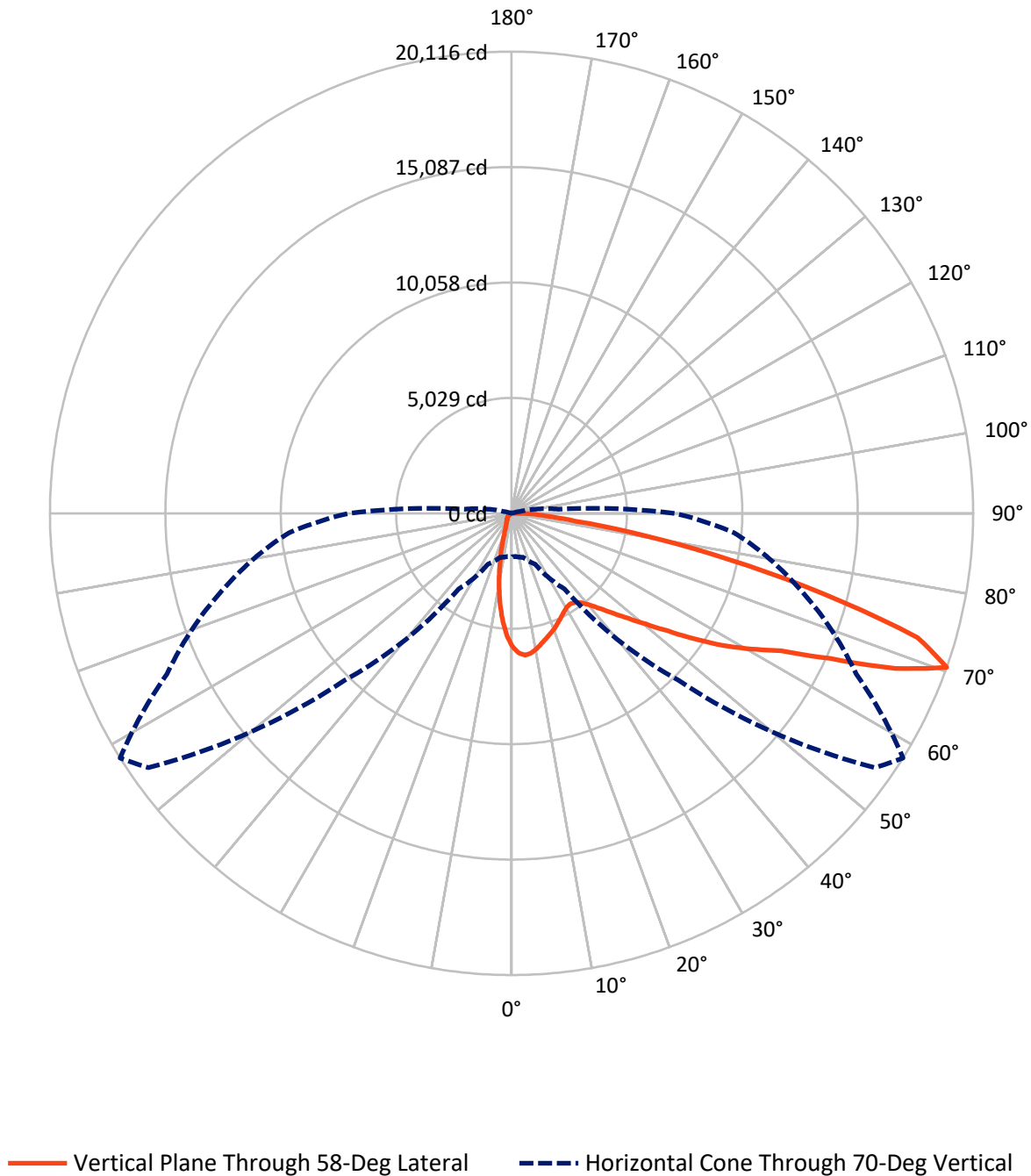
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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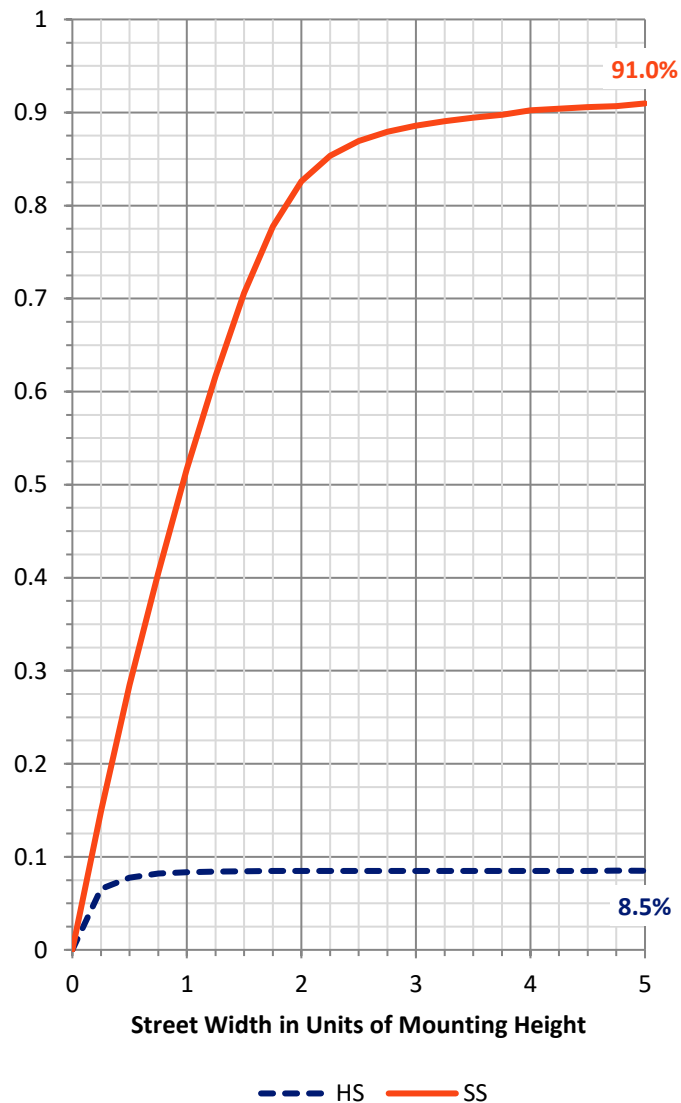
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.4	0.0	1685.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	18008.6	0.0	18008.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	19694.0	0.0	19694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	2.4
10°-20°	998.4	5.1
20°-30°	1312.6	6.7
30°-40°	1738.4	8.8
40°-50°	2598.4	13.2
50°-60°	4162.5	21.1
60°-70°	5246.7	26.6
70°-80°	2830.1	14.4
80°-90°	331.3	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°	19694.0	100.0
0°-180°	19694.0	100.0

Coefficient of Utilization



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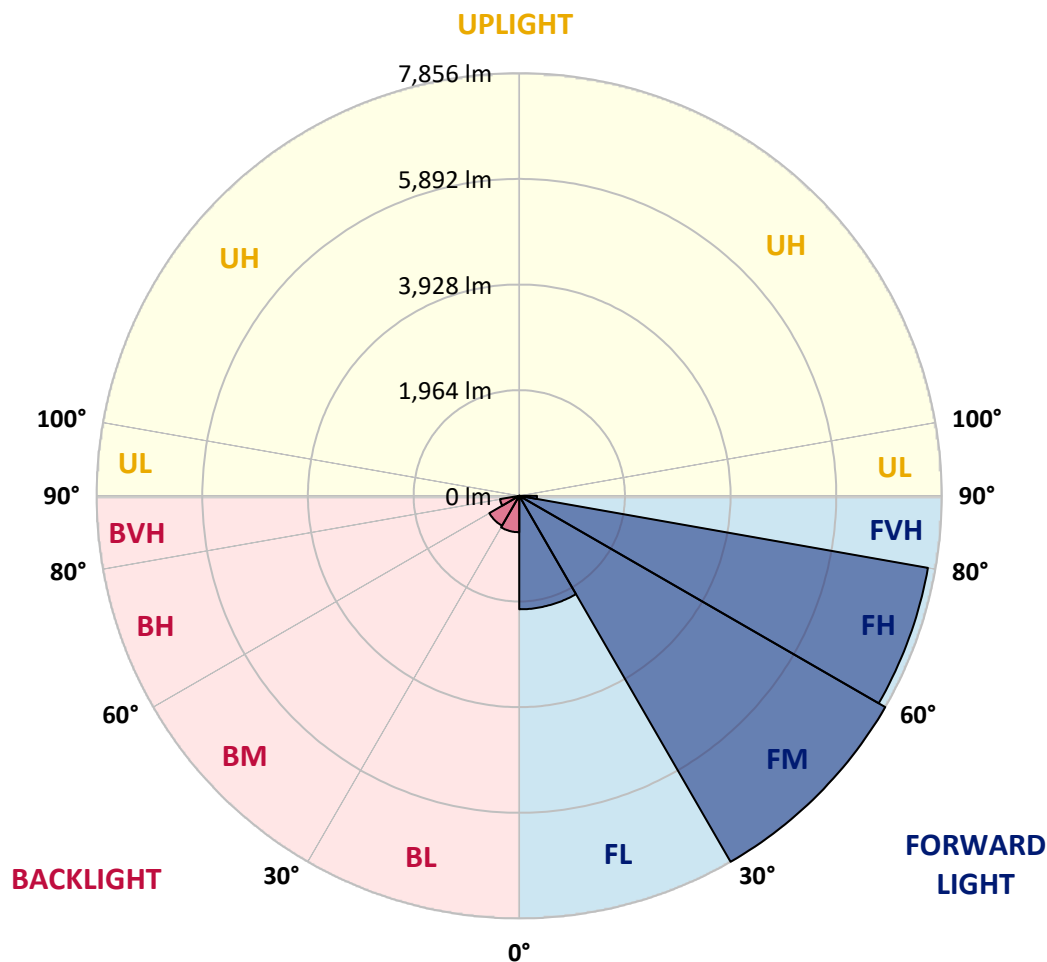
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2109.6	10.7			
FM	(30°-60°)	7856.2	39.9			
FH	(60°-80°)	7714.3	39.2			G4/12000
FVH	(80°-90°)	328.4	1.7			G3/500
BL	(0°-30°)	677.1	3.4	B2/1000		
BM	(30°-60°)	642.9	3.3	B1/1000		
BH	(60°-80°)	362.4	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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	6299.9	6284.3	6278.6	6268.7	6231.1	6194.2	6121.3	6100.9	6055.0	5946.1	5830.6
5°	6304.8	6303.9	6321.1	6317.0	6303.9	6286.7	6234.3	6207.3	6129.5	5973.9	5762.6
7.5°	6000.9	6016.5	6055.0	6086.1	6122.1	6168.8	6175.4	6149.2	6085.3	5917.4	5637.4
10°	5593.1	5617.7	5671.7	5733.2	5827.3	5920.7	6004.2	6000.9	5978.8	5813.4	5486.7
12.5°	5184.5	5213.2	5275.4	5366.3	5499.8	5652.1	5801.1	5821.6	5858.5	5720.1	5347.5
15°	4826.6	4851.2	4912.6	5024.0	5189.4	5394.1	5612.8	5650.5	5745.5	5647.2	5231.2
17.5°	4522.8	4538.4	4583.4	4707.1	4898.7	5146.8	5431.0	5504.7	5646.4	5589.9	5130.5
20°	4310.7	4313.2	4342.7	4429.5	4621.1	4898.7	5242.6	5348.3	5541.5	5540.7	5026.5
22.5°	4205.9	4197.7	4203.4	4253.4	4394.3	4662.0	5054.3	5179.6	5447.4	5499.0	4920.8
25°	4186.3	4179.7	4163.3	4169.9	4255.0	4454.9	4864.3	5009.3	5364.7	5473.6	4829.1
27.5°	4247.7	4254.2	4226.4	4196.9	4203.4	4320.6	4695.6	4863.5	5297.5	5473.6	4764.4
30°	4371.3	4374.6	4354.1	4315.6	4264.0	4282.9	4578.5	4746.4	5263.9	5511.2	4723.5
32.5°	4508.1	4526.1	4523.6	4492.5	4418.8	4342.7	4550.7	4703.8	5261.5	5594.8	4719.4
35°	4677.6	4698.1	4732.5	4725.9	4648.9	4523.6	4645.7	4766.0	5309.8	5732.3	4763.6
37.5°	4857.8	4888.9	4962.6	4997.8	4947.8	4806.2	4858.6	4944.6	5439.2	5955.1	4875.8
40°	5032.2	5067.4	5201.7	5340.1	5302.4	5156.7	5181.2	5250.0	5669.3	6275.3	5088.7
42.5°	5203.3	5255.7	5453.1	5680.8	5725.8	5609.5	5622.6	5677.5	6010.8	6715.9	5436.7
45°	5408.1	5467.0	5759.4	6040.3	6160.6	6109.9	6165.5	6201.6	6457.1	7298.1	5906.0
47.5°	5708.6	5776.6	6135.3	6455.4	6666.7	6699.5	6811.7	6835.4	7021.3	7976.2	6517.7
50°	6294.9	6313.8	6638.1	6928.8	7233.4	7429.9	7557.7	7575.7	7704.3	8717.3	7281.7
52.5°	7032.8	7045.1	7228.5	7423.4	7769.8	8171.1	8470.0	8495.3	8522.4	9439.5	8035.9
55°	7765.7	7764.1	7885.3	7999.9	8396.3	8979.3	9627.9	9643.4	9449.4	10125.0	8612.4
57.5°	8223.5	8267.7	8451.9	8599.3	9152.9	9900.6	10800.6	10857.9	10423.0	10632.7	9182.4
60°	8077.7	8099.0	8507.6	9053.0	10095.5	11210.0	11987.2	12001.9	11155.1	11139.6	9903.0
62.5°	6882.1	6893.6	7535.6	8659.9	10572.9	12908.4	13418.6	13178.7	11997.0	11843.0	10765.3
65°	4716.9	4791.4	5327.8	6717.5	9695.9	13973.8	15634.6	15237.4	13280.2	12856.8	11544.9
67.5°	2777.7	2762.2	3027.5	4051.1	7121.2	13266.3	18437.7	18043.0	15030.2	13535.7	11316.5
70°	1897.4	1886.8	1988.3	2452.6	4020.0	10291.2	19319.7	20116.4	16575.5	13078.8	9739.3
72.5°	1354.5	1360.2	1510.1	1905.6	2523.9	5996.0	16614.0	18499.9	16091.5	11401.6	7402.9
75°	919.6	935.2	1149.7	1563.3	2212.7	3050.4	11789.8	14063.1	13103.3	8286.5	4255.0
77.5°	494.6	511.8	764.9	1259.5	2000.6	2119.3	7583.9	9678.7	8230.8	3725.2	1233.3
80°	206.4	216.2	357.9	915.5	1728.7	1861.4	4462.2	5869.1	3507.4	734.6	275.2
82.5°	89.3	94.2	149.0	546.2	1292.2	1571.5	2362.5	2823.6	1062.9	161.3	138.4
85°	17.2	18.0	61.4	289.1	824.6	886.9	1531.4	1501.1	477.4	69.6	100.7
87.5°	0.0	0.0	14.7	90.9	242.4	483.2	934.4	922.9	162.1	33.6	37.7
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5771.7	5715.2	5596.4	5449.8	5337.6	5214.0	5115.7	4991.2	4937.2	4939.6	4910.2
5°	5642.3	5526.0	5263.1	4931.5	4676.0	4412.3	4185.4	3959.4	3825.9	3782.5	3741.6
7.5°	5457.2	5272.9	4853.7	4342.7	3910.3	3487.7	3120.0	2796.6	2591.8	2491.9	2455.1
10°	5248.4	4989.6	4382.8	3709.6	3092.2	2520.6	2044.0	1629.6	1464.2	1352.0	1323.4
12.5°	5064.9	4714.4	3922.6	3060.3	2327.3	1637.8	1183.3	925.4	813.2	769.0	761.6
15°	4892.1	4457.3	3479.5	2472.3	1611.6	1008.1	752.6	665.0	638.7	631.4	631.4
17.5°	4729.2	4212.5	3046.3	1893.3	1066.2	706.7	623.2	603.5	595.3	594.5	595.3
20°	4558.9	3967.6	2620.5	1387.2	744.4	598.6	575.7	565.0	562.6	562.6	562.6
22.5°	4395.9	3722.8	2206.1	990.9	597.0	546.2	534.7	527.4	524.9	524.1	522.5
25°	4239.5	3490.2	1801.6	700.2	524.1	500.4	490.5	480.7	473.3	469.2	466.8
27.5°	4110.9	3283.0	1424.9	561.8	473.3	452.9	440.6	425.8	407.8	399.6	396.4
30°	4008.5	3093.8	1098.2	474.1	425.8	405.4	386.5	361.1	334.9	321.0	320.2
32.5°	3928.3	2907.9	833.6	419.3	383.2	357.9	330.8	298.9	268.6	253.0	252.2
35°	3889.0	2744.2	637.1	379.2	345.6	313.6	280.1	244.9	215.4	200.6	199.0
37.5°	3915.2	2605.8	497.1	345.6	313.6	276.8	237.5	200.6	174.4	161.3	160.5
40°	4011.0	2517.3	403.7	316.9	286.6	241.6	199.0	164.6	142.5	131.8	131.0
42.5°	4214.9	2484.6	344.8	293.2	260.4	208.8	165.4	135.9	115.5	108.1	106.5
45°	4555.6	2532.9	304.6	270.2	233.4	177.7	136.8	111.4	93.4	87.6	86.8
47.5°	5009.3	2659.8	276.0	248.1	208.8	149.9	113.8	90.1	76.2	70.4	69.6
50°	5594.0	2861.3	252.2	226.0	185.9	126.9	94.2	71.2	59.0	54.9	54.9
52.5°	6230.2	3101.2	230.9	205.5	163.0	105.6	76.2	54.9	46.7	41.8	41.8
55°	6756.0	3310.8	208.0	190.0	135.1	87.6	58.1	41.8	34.4	31.9	31.9
57.5°	7280.9	3534.4	181.8	163.0	108.1	71.2	44.2	31.1	25.4	23.7	23.7
60°	7961.4	3807.9	156.4	132.7	85.2	54.0	32.8	22.1	18.8	18.0	18.0
62.5°	8709.9	3968.4	133.5	106.5	66.3	40.1	23.7	14.7	13.9	13.9	13.1
65°	9167.7	3741.6	112.2	85.2	51.6	30.3	15.6	10.6	12.3	11.5	9.8
67.5°	8583.8	2929.2	91.7	66.3	40.1	22.9	9.8	7.4	13.1	10.6	8.2
70°	7107.3	2050.5	71.2	46.7	31.9	19.7	6.6	4.9	13.9	10.6	6.6
72.5°	5318.8	1372.5	56.5	31.1	23.7	17.2	5.7	2.5	12.3	9.0	5.7
75°	2906.3	552.8	45.0	19.7	14.7	12.3	4.1	1.6	8.2	6.6	4.1
77.5°	764.9	145.8	32.8	13.1	8.2	4.9	2.5	0.8	4.1	3.3	1.6
80°	194.9	56.5	21.3	9.0	5.7	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	104.0	23.7	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.6	15.6	7.4	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.3	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)