

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: P318313

Luminaire Tested: **GAN-SA9A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34848 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

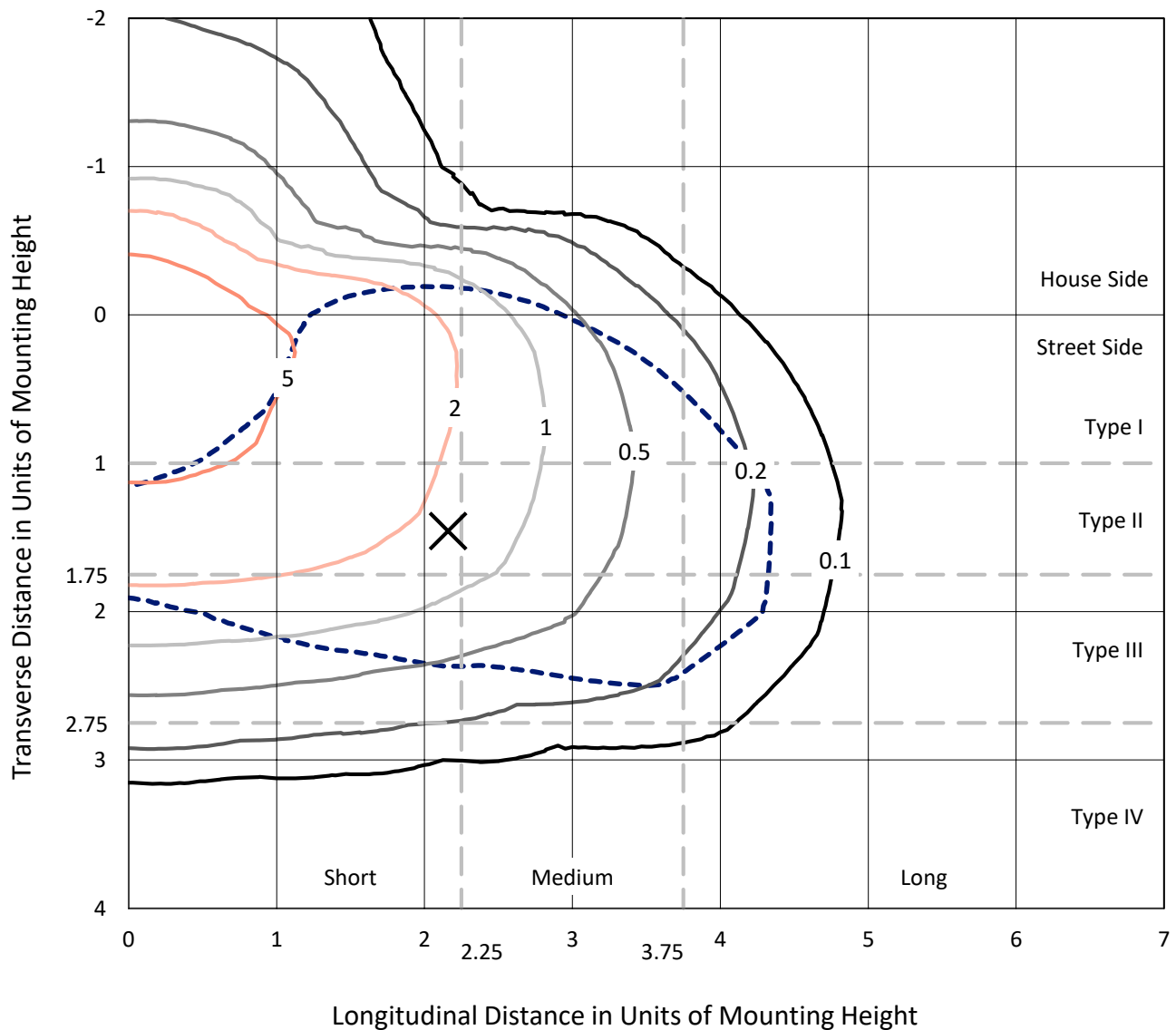
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

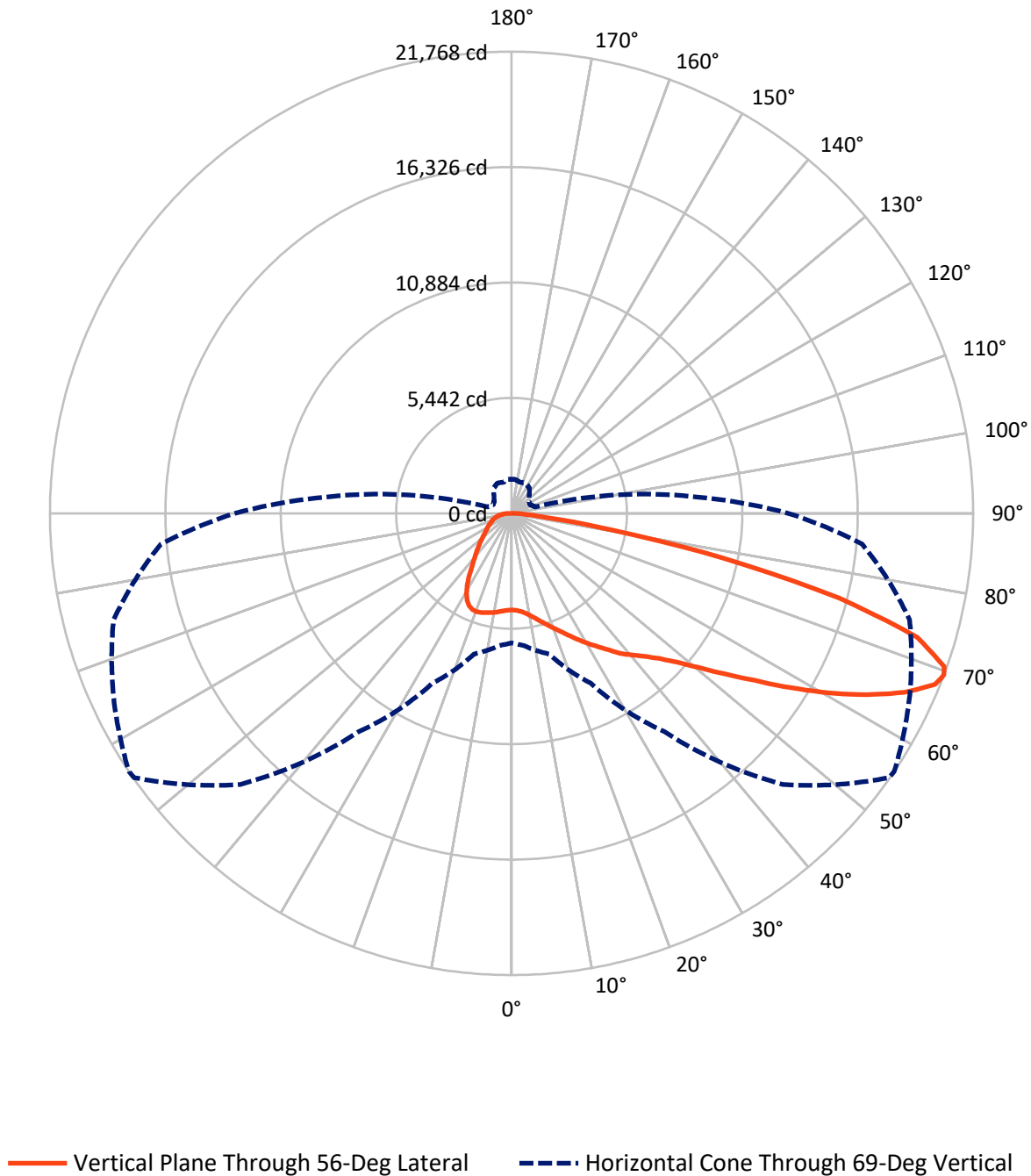
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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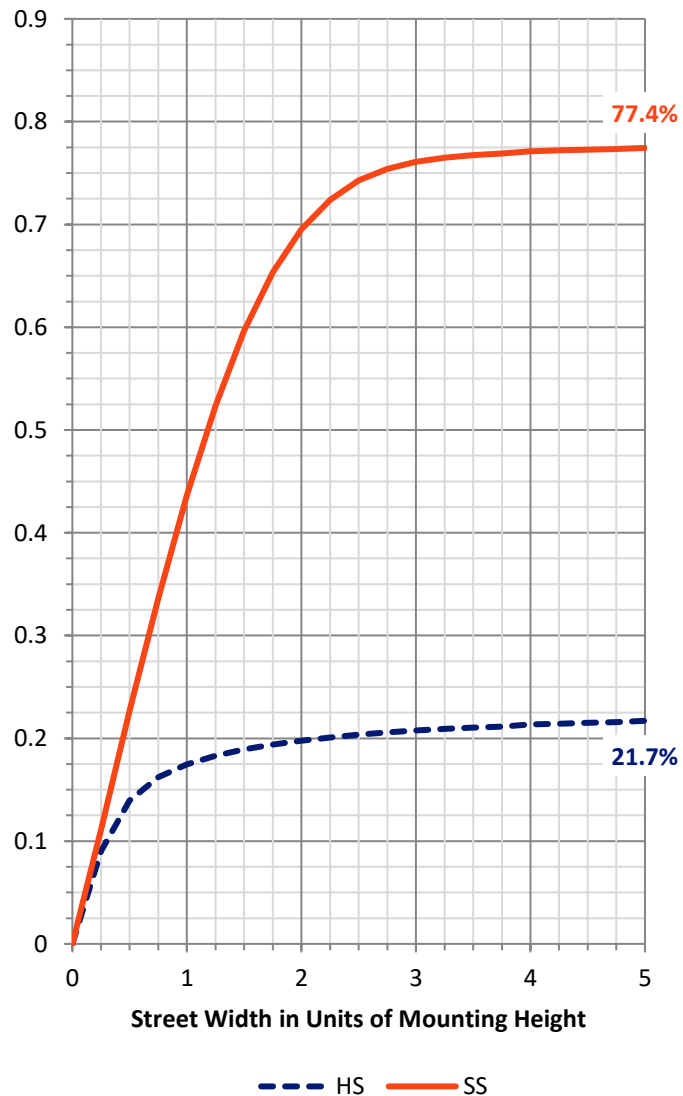
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7760.6	0.0	7760.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27087.4	0.0	27087.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	34848.0	0.0	34848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	1.3
10°-20°	1438.8	4.1
20°-30°	2511.7	7.2
30°-40°	3607.9	10.4
40°-50°	4993.2	14.3
50°-60°	7315.7	21.0
60°-70°	8919.2	25.6
70°-80°	4931.1	14.2
80°-90°	683.0	2.0
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°	34848.0	100.0
0°-180°	34848.0	100.0

Coefficient of Utilization



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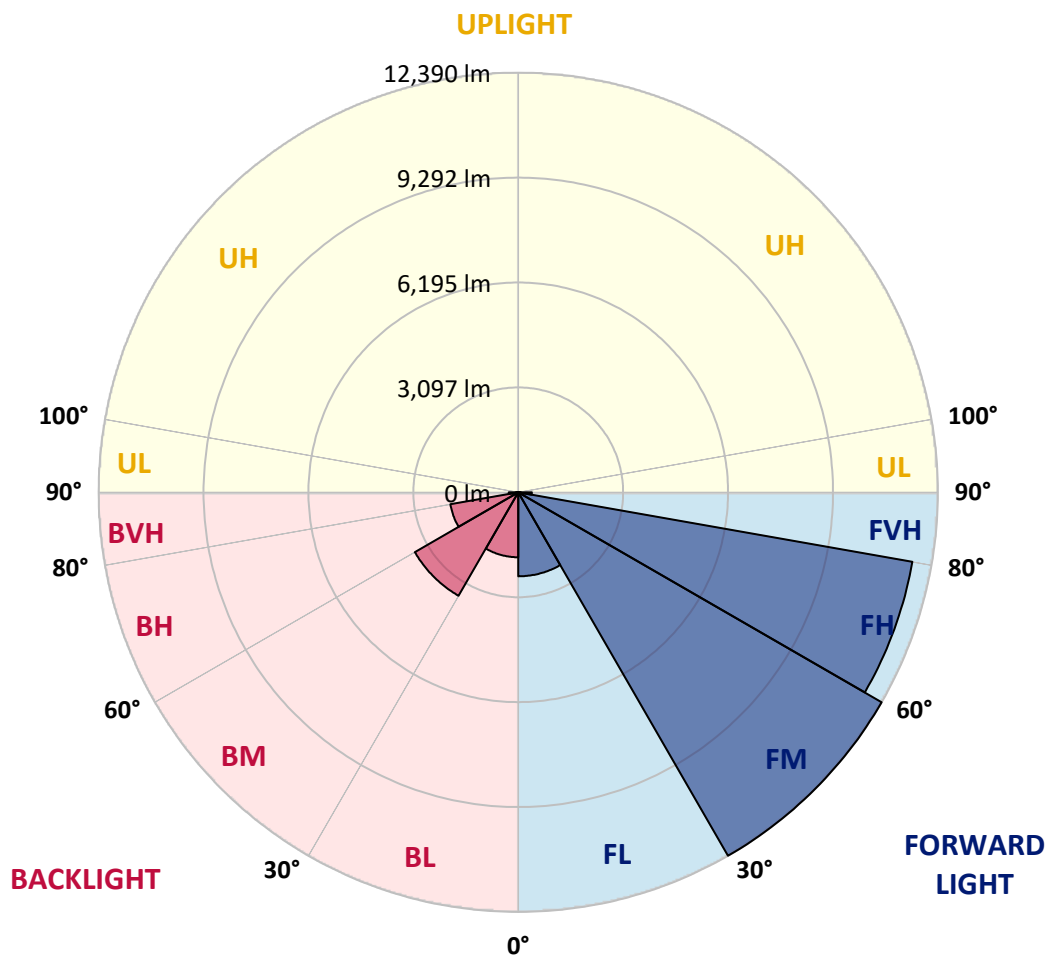
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2480.1	7.1			
FM	(30°-60°)	12389.8	35.6			
FH	(60°-80°)	11815.2	33.9			G4/12000
FVH	(80°-90°)	402.3	1.2			G3/500
BL	(0°-30°)	1917.8	5.5	B3/2500		
BM	(30°-60°)	3527.0	10.1	B3/5000		
BH	(60°-80°)	2035.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	280.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9
2.5°	4584.7	4589.5	4585.9	4595.5	4584.7	4591.9	4585.9	4585.9	4582.3	4571.5	4559.5
5°	4656.7	4666.3	4660.3	4669.9	4656.7	4659.1	4648.3	4648.3	4637.5	4614.7	4590.7
7.5°	4769.5	4780.3	4775.5	4785.1	4767.1	4767.1	4752.7	4751.5	4729.9	4692.7	4665.1
10°	4904.0	4918.4	4913.6	4928.0	4913.6	4918.4	4904.0	4904.0	4875.2	4822.4	4787.5
12.5°	5099.7	5117.7	5104.5	5103.3	5097.3	5106.9	5094.9	5092.5	5066.1	4994.0	4946.0
15°	5361.4	5380.6	5353.0	5350.6	5317.0	5313.4	5313.4	5309.8	5293.0	5206.5	5127.3
17.5°	5662.7	5668.7	5644.7	5606.3	5563.1	5535.4	5531.8	5541.5	5541.5	5440.6	5314.6
20°	5958.0	5968.8	5949.6	5906.4	5851.2	5810.4	5781.5	5800.8	5799.6	5679.5	5500.6
22.5°	6279.8	6305.0	6276.2	6220.9	6156.1	6110.5	6060.1	6076.9	6078.1	5930.4	5683.1
25°	6696.3	6673.5	6655.5	6577.5	6485.0	6438.2	6391.4	6408.2	6403.4	6200.5	5871.6
27.5°	7064.9	7069.7	7045.7	6962.8	6856.0	6752.7	6750.3	6761.1	6743.1	6481.4	6049.3
30°	7493.4	7495.8	7462.2	7387.8	7271.4	7138.1	7106.9	7124.9	7086.5	6747.9	6236.5
32.5°	7919.6	7931.6	7894.4	7804.4	7710.7	7548.7	7486.2	7498.2	7402.2	7020.5	6429.8
35°	8293.0	8309.8	8297.8	8237.7	8135.7	7996.4	7922.0	7914.8	7796.0	7354.2	6685.5
37.5°	8673.5	8689.1	8675.9	8625.5	8584.7	8437.0	8397.4	8397.4	8190.9	7695.1	7010.8
40°	9064.9	9088.9	9073.3	9003.7	8968.8	8901.6	8806.8	8784.0	8560.7	8104.5	7541.5
42.5°	9428.6	9459.8	9522.3	9481.5	9410.6	9420.2	9229.4	9217.3	9054.1	8709.5	8207.7
45°	9944.8	9990.5	10096.1	10064.9	10050.5	9997.7	9770.8	9760.0	9697.5	9523.5	9034.9
47.5°	10507.9	10570.3	10761.2	10767.2	10922.0	10822.4	10513.9	10476.7	10491.1	10498.3	10044.5
50°	11026.5	11094.9	11408.2	11555.9	11920.8	11942.5	11449.1	11415.4	11471.9	11637.5	11221.0
52.5°	11440.6	11527.1	11918.4	12374.6	13000.1	13177.8	12600.3	12575.1	12617.1	12902.8	12551.1
55°	11744.4	11838.0	12264.2	13094.9	14093.7	14407.1	13925.7	13901.6	13928.1	14291.8	13997.7
57.5°	11815.2	11838.0	12456.3	13579.9	15016.9	15769.6	15547.5	15499.5	15369.8	15686.8	15594.3
60°	11482.7	11573.9	12297.8	13750.4	15731.2	17113.0	17242.6	17182.6	16818.8	17078.1	17003.7
62.5°	10808.0	10971.3	11706.0	13491.1	16010.9	18210.2	18905.3	18833.3	18206.6	18374.7	18016.9
65°	9705.9	9775.6	10547.5	12596.7	15655.6	18912.5	20387.9	20351.9	19563.2	19300.2	18204.2
67.5°	7734.7	7865.6	8521.1	10727.6	14201.8	18829.7	21534.4	21530.7	20449.1	19643.6	17540.3
69°	6110.5	6246.1	6870.4	8836.8	12566.7	18072.1	21726.4	21768.4	20698.8	19434.7	16591.9
70°	4871.6	5028.8	5457.4	7443.0	11115.3	17073.3	21566.8	21642.4	20650.8	19090.2	15716.8
72.5°	2073.2	2200.5	2505.4	3836.8	6774.4	12749.2	19719.2	20004.9	19537.9	17471.9	12989.3
75°	905.2	944.8	1082.8	1564.2	3007.2	6938.8	15447.9	15976.1	16706.0	14768.4	9675.9
77.5°	662.7	679.5	755.1	918.4	1349.3	2620.7	9934.0	10241.4	12048.1	10746.8	5935.2
80°	512.6	524.6	583.4	674.7	881.2	1060.0	4530.6	4794.7	6774.4	5519.8	2471.8
82.5°	408.2	416.6	457.4	497.0	608.6	642.3	1504.2	1668.7	2500.6	1524.6	654.3
85°	379.4	389.0	403.4	362.5	390.2	377.0	650.7	680.7	755.1	599.0	273.7
87.5°	171.7	202.9	399.8	282.1	207.7	165.7	266.5	278.5	313.3	314.5	121.2
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°	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9	4555.9
2.5°	4566.7	4563.1	4569.1	4554.7	4572.7	4571.5	4565.5	4567.9	4579.9	4578.7	4579.9
5°	4594.3	4591.9	4599.1	4588.3	4609.9	4617.1	4618.3	4629.1	4642.3	4645.9	4645.9
7.5°	4663.9	4663.9	4667.5	4653.1	4667.5	4666.3	4660.3	4671.1	4684.3	4685.5	4684.3
10°	4783.9	4785.1	4779.1	4741.9	4729.9	4697.5	4667.5	4668.7	4685.5	4698.7	4702.3
12.5°	4935.2	4930.4	4904.0	4835.6	4785.1	4719.1	4687.9	4686.7	4703.5	4714.3	4717.9
15°	5108.1	5094.9	5026.4	4914.8	4826.0	4761.1	4710.7	4698.7	4689.1	4677.1	4678.3
17.5°	5271.3	5241.3	5127.3	4972.4	4878.8	4792.3	4695.1	4617.1	4563.1	4531.8	4522.2
20°	5437.0	5378.2	5213.7	5026.4	4907.6	4750.3	4563.1	4404.6	4306.1	4260.5	4252.1
22.5°	5588.3	5493.4	5294.2	5082.9	4884.8	4608.7	4314.6	4084.1	3947.2	3886.0	3890.8
25°	5735.9	5603.9	5378.2	5122.5	4769.5	4359.0	3968.8	3685.5	3527.0	3458.6	3456.2
27.5°	5865.6	5715.5	5469.4	5090.1	4554.7	4003.6	3559.4	3283.3	3151.3	3092.5	3082.9
30°	6014.4	5856.0	5590.7	4966.4	4240.1	3593.1	3159.7	2965.2	2871.6	2812.7	2801.9
32.5°	6195.7	6046.9	5690.3	4741.9	3838.0	3164.5	2847.6	2711.9	2626.7	2560.6	2548.6
35°	6459.8	6299.0	5715.5	4420.2	3396.2	2825.9	2618.3	2479.0	2363.8	2278.5	2270.1
37.5°	6791.2	6614.7	5657.9	4003.6	2967.6	2606.3	2427.4	2255.7	2105.7	1985.6	1966.4
40°	7269.0	7002.4	5498.2	3523.4	2651.9	2437.0	2241.3	2045.6	1859.6	1719.1	1691.5
42.5°	7842.8	7457.4	5253.3	3045.6	2420.2	2265.3	2056.4	1813.9	1636.3	1536.6	1522.2
45°	8572.7	7930.4	4913.6	2627.9	2192.1	2093.7	1857.2	1633.9	1523.4	1450.2	1438.2
47.5°	9405.8	8461.0	4557.1	2288.1	1998.8	1932.8	1697.5	1553.4	1465.8	1408.2	1397.4
50°	10429.8	9060.1	4178.9	2009.6	1804.3	1739.5	1621.9	1509.0	1439.4	1395.0	1384.2
52.5°	11584.7	9736.0	3906.4	1789.9	1643.5	1596.6	1582.2	1485.0	1428.6	1395.0	1384.2
55°	12828.4	10423.8	3612.3	1605.1	1504.2	1517.4	1555.8	1487.4	1449.0	1408.2	1392.6
57.5°	14073.3	11134.5	3284.5	1449.0	1393.8	1458.6	1537.8	1492.2	1459.8	1420.2	1405.8
60°	15057.7	11584.7	2776.7	1318.1	1306.1	1393.8	1494.6	1456.2	1414.2	1415.4	1413.0
62.5°	15517.5	11560.7	2216.1	1201.7	1218.5	1306.1	1425.0	1399.8	1365.0	1411.8	1415.4
65°	15259.4	10984.5	1725.1	1096.0	1124.9	1214.9	1352.9	1372.2	1384.2	1474.2	1486.2
67.5°	14176.6	9863.2	1336.1	1003.6	1039.6	1152.5	1360.2	1494.6	1510.2	1605.1	1603.9
69°	13056.5	8811.6	1160.9	955.6	997.6	1168.1	1453.8	1572.6	1513.8	1614.7	1600.3
70°	12117.7	7979.6	1067.2	923.2	978.4	1195.7	1516.2	1571.4	1495.8	1582.2	1558.2
72.5°	9332.6	5740.7	905.2	863.2	913.6	1144.1	1534.2	1536.6	1453.8	1470.6	1429.8
75°	6401.0	3627.9	789.9	781.5	815.1	1031.2	1476.6	1468.2	1344.5	1320.5	1286.9
77.5°	3529.4	1842.7	671.1	703.5	726.3	913.6	1342.1	1330.1	1228.1	1177.7	1165.7
80°	1361.4	806.7	566.6	625.5	639.9	791.1	1176.5	1165.7	1080.4	1015.6	997.6
82.5°	513.8	422.6	468.2	541.4	536.6	653.1	996.4	990.4	907.6	812.7	783.9
85°	237.7	253.3	371.0	446.6	411.8	483.8	797.1	807.9	707.1	594.2	594.2
87.5°	100.8	141.7	262.9	337.3	277.3	326.5	584.6	558.2	512.6	355.3	333.7
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)