

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: P318841

Luminaire Tested: **GAN-SA7B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29892 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

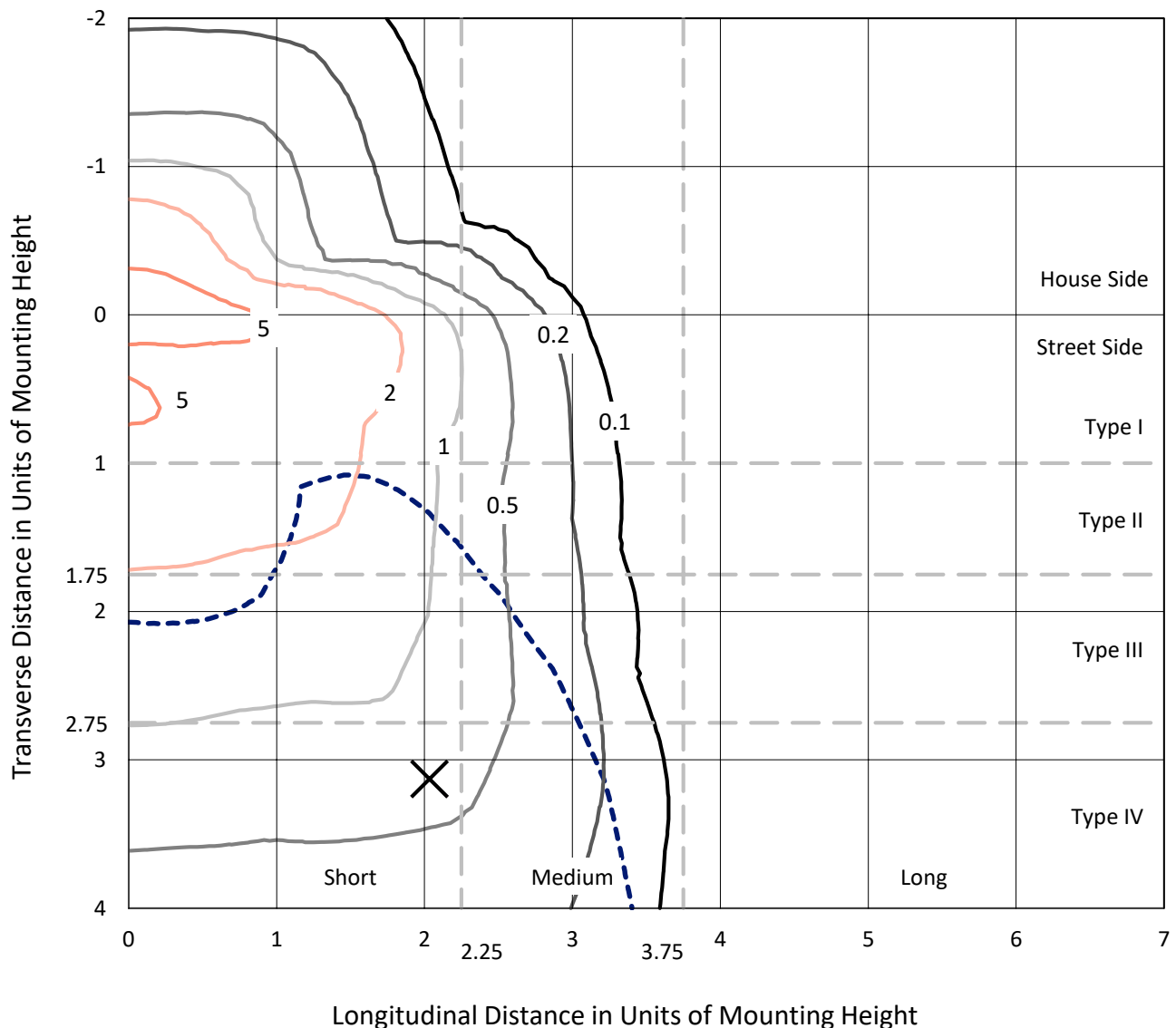
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

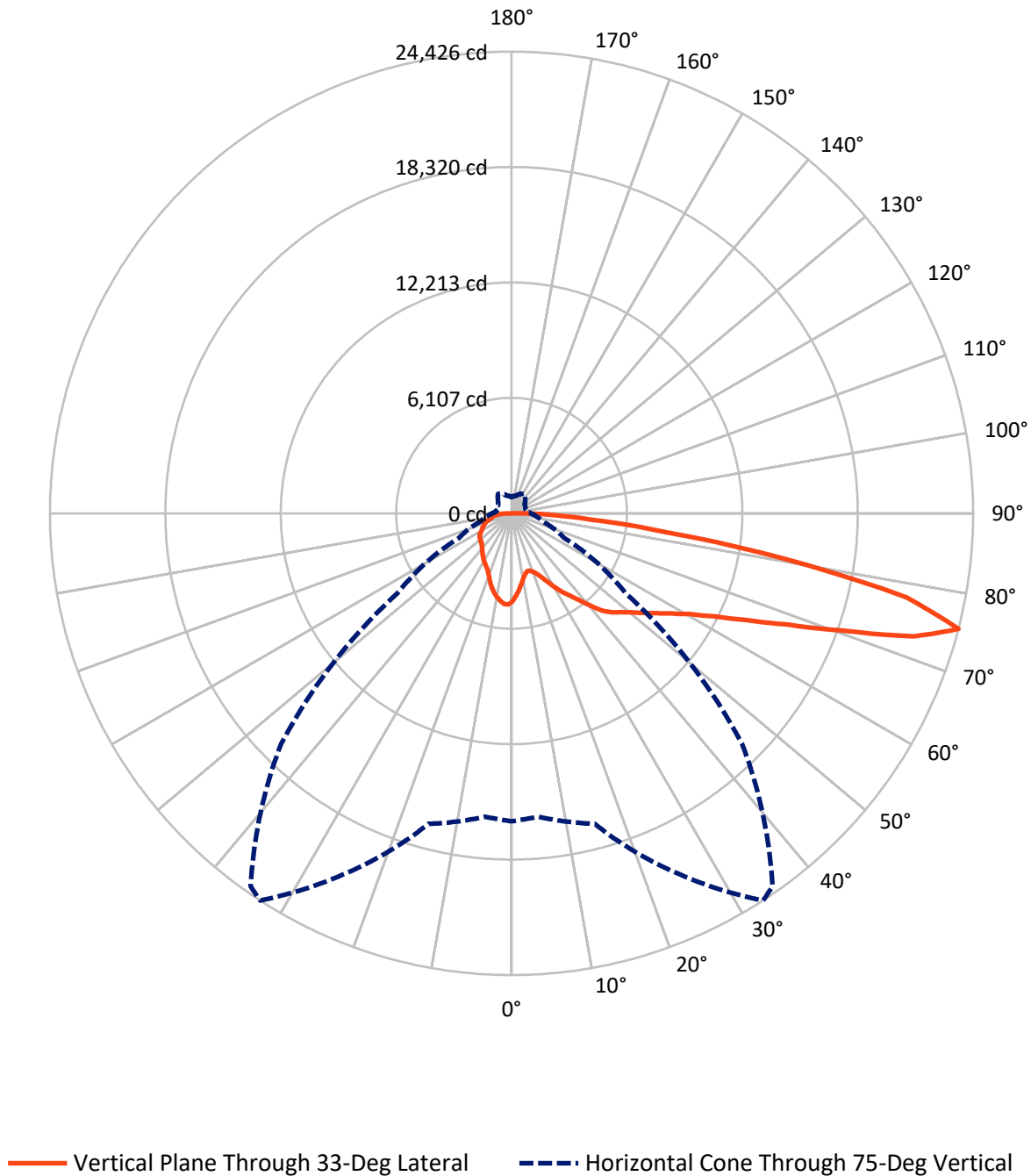
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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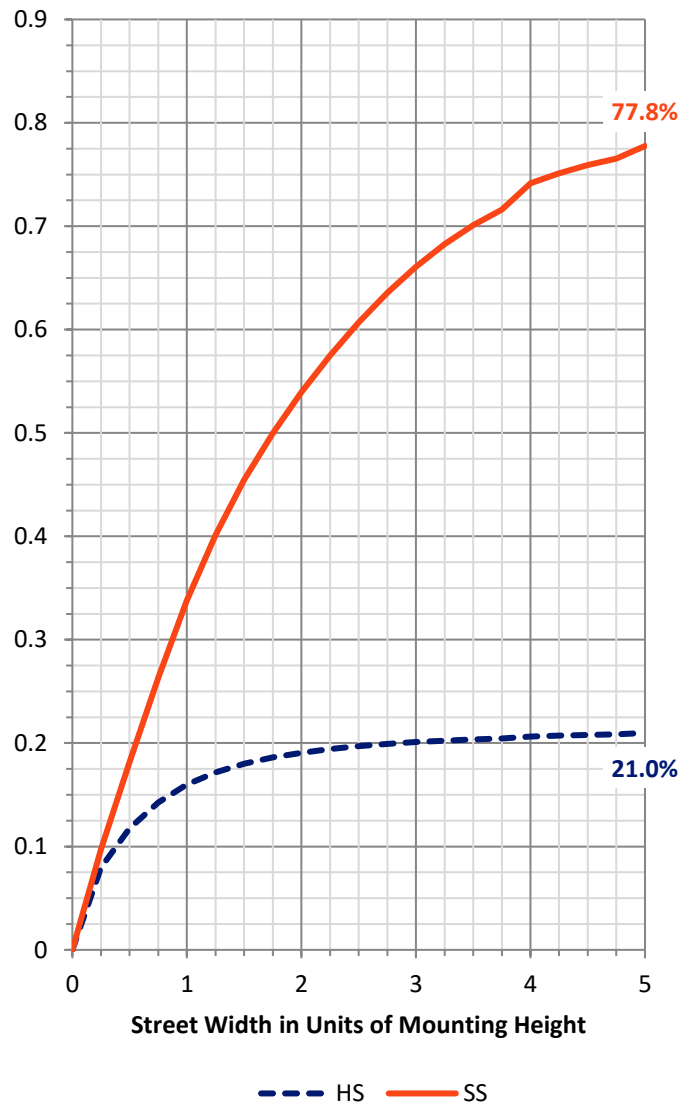
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6418.6	0.0	6418.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	23473.4	0.0	23473.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	29892.0	0.0	29892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	1.4
10°-20°	1144.4	3.8
20°-30°	1869.0	6.3
30°-40°	2783.4	9.3
40°-50°	3992.2	13.4
50°-60°	5480.7	18.3
60°-70°	6861.6	23.0
70°-80°	6207.3	20.8
80°-90°	1130.7	3.8
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°	29892.0	100.0
0°-180°	29892.0	100.0

Coefficient of Utilization



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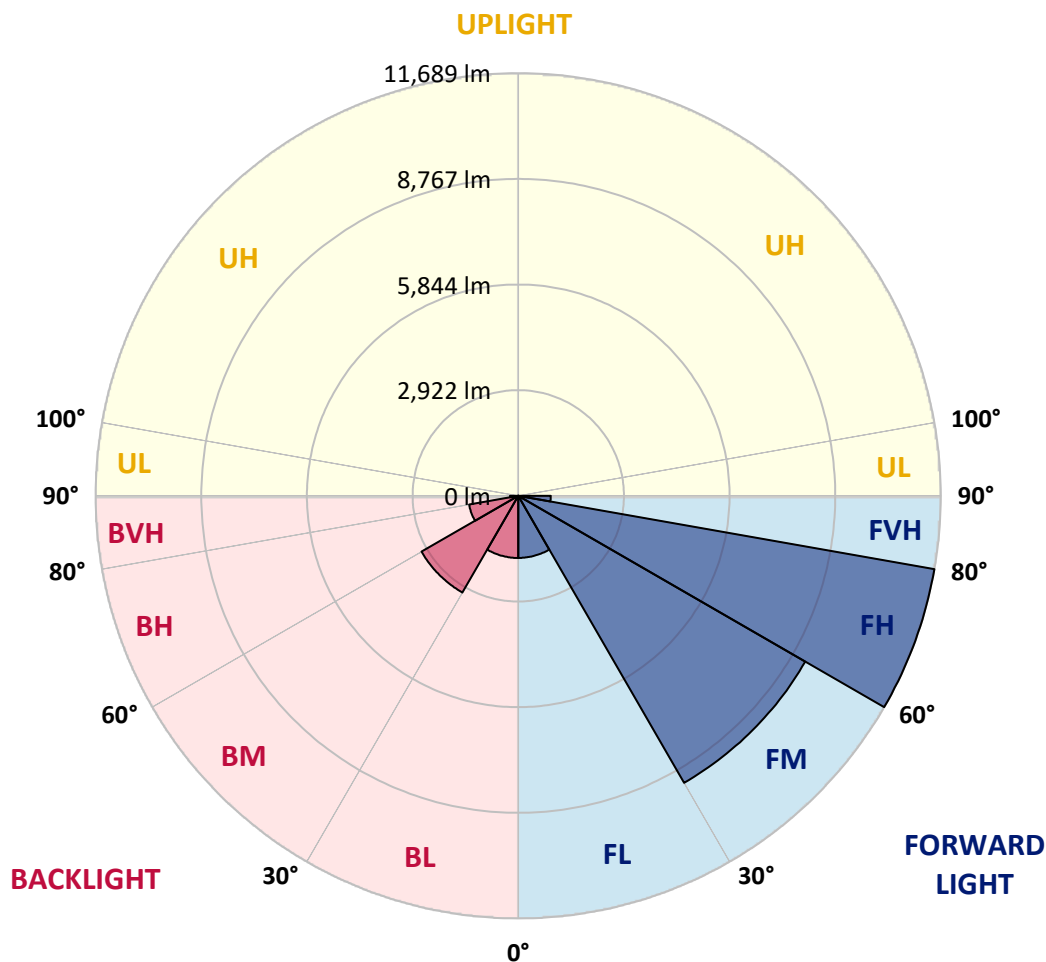
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1716.8	5.7			
FM	(30°-60°)	9167.3	30.7			
FH	(60°-80°)	11688.8	39.1			G4/12000
FVH	(80°-90°)	900.5	3.0			G5
BL	(0°-30°)	1719.2	5.8	B3/2500		
BM	(30°-60°)	3089.1	10.3	B3/5000		
BH	(60°-80°)	1380.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	230.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3
2.5°	4338.8	4322.3	4353.2	4357.4	4384.2	4394.5	4431.7	4489.5	4537.0	4591.7	4641.3
5°	3945.4	3934.0	3977.4	4008.4	4067.2	4092.0	4179.8	4302.6	4412.1	4536.0	4648.5
7.5°	3571.6	3565.4	3613.9	3684.1	3752.3	3786.4	3938.1	4116.8	4299.5	4499.9	4672.3
10°	3256.7	3254.6	3301.1	3370.2	3470.4	3508.6	3704.8	3940.2	4196.3	4472.0	4712.6
12.5°	3080.1	3087.3	3109.0	3166.8	3259.8	3298.0	3515.8	3792.6	4109.5	4462.7	4771.4
15°	3123.5	3134.8	3097.6	3095.6	3161.7	3191.6	3396.1	3687.2	4047.6	4478.2	4857.1
17.5°	3308.3	3310.4	3212.3	3150.3	3190.6	3206.1	3358.9	3627.3	4011.5	4513.3	4964.5
20°	3568.5	3563.3	3389.9	3286.6	3308.3	3312.4	3411.5	3628.4	4008.4	4574.2	5103.9
22.5°	3913.4	3875.2	3641.8	3501.4	3496.2	3490.0	3546.8	3704.8	4053.8	4673.3	5270.1
25°	4363.6	4327.4	4006.3	3814.2	3772.9	3757.4	3765.7	3867.9	4143.6	4779.7	5456.0
27.5°	4864.3	4801.4	4491.6	4220.0	4134.3	4112.6	4063.1	4098.2	4241.7	4881.9	5677.0
30°	5283.6	5249.5	4979.0	4656.8	4555.6	4524.6	4394.5	4356.3	4383.2	5021.3	5955.7
32.5°	5517.9	5495.2	5331.1	5070.9	4976.9	4933.5	4749.7	4673.3	4610.3	5241.2	6333.7
35°	5801.9	5787.4	5688.3	5499.4	5360.0	5314.5	5172.0	5092.5	4930.4	5543.8	6822.1
37.5°	6163.3	6147.8	6149.9	5997.0	5830.8	5788.5	5694.5	5610.9	5345.5	5941.3	7352.8
40°	6572.2	6542.2	6530.9	6523.6	6418.3	6394.6	6345.0	6231.4	5865.9	6416.3	7876.3
42.5°	7187.6	7081.2	6854.1	6939.8	7044.1	7031.7	7071.9	6908.8	6444.1	6978.0	8387.4
45°	7781.3	7606.8	7214.4	7233.0	7461.2	7530.4	7831.9	7716.2	7070.9	7593.4	8916.1
47.5°	8051.8	7919.7	7586.1	7587.2	7813.3	7956.8	8617.7	8535.1	7729.7	8292.4	9561.4
50°	8354.4	8222.2	7922.8	8035.3	8232.5	8385.3	9376.6	9334.2	8356.4	9057.5	10334.8
52.5°	8684.8	8460.7	8270.7	8472.1	8748.8	8926.4	10136.5	10020.9	8931.6	9827.8	11223.8
55°	8688.9	8628.0	8772.5	8920.2	9334.2	9552.1	10932.6	10627.0	9400.3	10584.7	11947.6
57.5°	9183.5	9084.4	9391.0	9459.2	10000.2	10246.0	11724.6	11154.6	9877.4	11165.0	12337.9
60°	9838.1	9753.5	10004.4	10184.0	10824.2	11152.6	12570.3	11696.7	10252.2	11602.8	12319.3
62.5°	10968.8	10872.7	10869.7	11121.6	11983.8	12365.8	13519.2	12228.5	10400.9	11689.5	11793.8
65°	12624.0	12471.1	12183.1	12302.8	13585.3	13966.3	14579.6	12613.6	10204.7	11224.8	10440.1
67.5°	14234.7	14229.6	13875.4	14121.1	15699.9	16005.6	15787.7	12651.8	9592.4	9606.8	8038.4
70°	15840.3	15861.0	15801.1	16656.1	18557.0	18875.0	17074.2	12138.7	8216.0	6937.7	4815.8
72.5°	17112.4	17107.3	17408.8	19613.3	22264.9	22193.6	18158.4	10583.6	5899.0	3745.1	2301.6
75°	16288.5	16108.8	17007.1	21077.4	24426.0	24078.0	17236.4	7382.7	3061.5	1704.7	1239.1
77.5°	10623.9	10794.3	12112.8	17411.9	21365.5	20942.2	12645.6	3444.6	1442.5	1118.3	898.3
80°	3847.3	4026.9	5671.8	9862.9	14720.0	14650.8	6227.3	1415.6	975.8	844.6	654.6
82.5°	1323.7	1389.8	2237.5	4380.1	8311.0	8620.8	2342.9	804.4	709.4	598.9	448.1
85°	519.4	594.7	1023.3	2107.4	4192.2	4223.1	948.9	481.2	493.6	392.4	245.7
87.5°	197.2	239.6	489.4	978.9	1914.3	1758.4	339.7	229.2	280.9	233.4	116.7
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°	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3	4672.3
2.5°	4679.5	4701.2	4746.6	4777.6	4810.6	4819.9	4824.1	4832.3	4840.6	4837.5	4838.5
5°	4708.4	4750.8	4824.1	4855.0	4869.5	4853.0	4821.0	4795.2	4776.6	4766.2	4763.2
7.5°	4755.9	4815.8	4894.3	4889.1	4856.1	4782.8	4700.2	4638.2	4586.6	4568.0	4557.7
10°	4818.9	4889.1	4943.8	4885.0	4789.0	4662.0	4538.1	4442.0	4364.6	4334.6	4329.5
12.5°	4899.4	4970.7	4981.0	4856.1	4697.1	4523.6	4355.3	4228.3	4112.6	4075.5	4067.2
15°	5003.7	5070.9	5006.8	4805.5	4583.5	4350.1	4132.3	3959.8	3838.0	3792.6	3776.0
17.5°	5113.2	5177.2	5012.0	4721.8	4434.8	4144.7	3871.0	3694.5	3555.1	3502.4	3496.2
20°	5244.3	5273.2	4990.3	4602.1	4230.4	3878.3	3590.2	3423.9	3349.6	3312.4	3308.3
22.5°	5406.4	5375.5	4940.8	4440.0	3971.2	3570.6	3336.2	3258.7	3240.1	3231.9	3235.0
25°	5577.8	5482.8	4867.4	4228.3	3643.9	3262.9	3150.3	3172.0	3196.8	3193.7	3193.7
27.5°	5766.8	5592.3	4754.9	3947.4	3281.4	3010.9	3024.3	3103.8	3141.0	3140.0	3139.0
30°	6009.4	5716.2	4611.4	3609.8	2942.8	2833.3	2914.9	3011.9	3062.5	3060.5	3061.5
32.5°	6307.8	5852.5	4416.2	3232.9	2698.1	2702.2	2796.1	2892.2	2951.0	2945.9	2946.9
35°	6656.8	6005.3	4151.9	2861.2	2535.9	2597.9	2672.2	2739.4	2795.1	2787.9	2780.7
37.5°	7036.8	6155.0	3800.8	2528.7	2403.8	2500.8	2562.8	2574.1	2600.0	2581.4	2568.0
40°	7398.2	6269.6	3348.6	2256.1	2270.6	2418.2	2458.5	2413.1	2366.6	2360.4	2341.8
42.5°	7713.1	6307.8	2891.1	2038.3	2130.1	2331.5	2356.3	2261.3	2177.6	2138.4	2121.9
45°	8045.6	6321.3	2464.7	1855.5	1994.9	2254.1	2280.9	2153.9	2036.2	1951.5	1923.6
47.5°	8480.3	6418.3	2133.2	1720.2	1891.6	2202.4	2240.6	2068.2	1915.4	1794.6	1768.8
50°	9049.3	6610.4	1863.8	1617.0	1824.5	2168.4	2211.7	1984.6	1816.3	1670.7	1644.9
52.5°	9681.2	6786.9	1645.9	1533.3	1759.5	2108.5	2174.5	1924.7	1723.3	1556.1	1528.2
55°	10123.1	6651.7	1470.4	1446.6	1674.8	2022.8	2122.9	1874.1	1590.1	1444.5	1419.8
57.5°	10207.8	6189.1	1337.2	1356.8	1572.6	1915.4	2043.4	1761.5	1517.8	1396.0	1370.2
60°	9976.5	5544.8	1238.0	1274.2	1463.1	1780.1	1894.7	1682.0	1448.7	1344.4	1322.7
62.5°	9395.2	4885.0	1164.7	1199.8	1360.9	1642.8	1801.8	1598.4	1378.5	1285.5	1263.8
65°	8221.2	4101.3	1094.5	1133.7	1265.9	1524.0	1718.2	1520.9	1309.3	1238.0	1217.4
67.5°	6205.6	3071.8	1028.4	1063.5	1181.2	1420.8	1627.3	1444.5	1242.2	1196.7	1171.9
70°	3654.2	1923.6	953.0	990.2	1092.4	1313.4	1530.2	1360.9	1158.5	1137.9	1105.9
72.5°	1700.6	1157.5	867.3	903.5	980.9	1169.9	1405.3	1251.5	1059.4	1014.0	970.6
75°	1015.0	846.7	766.2	798.2	852.9	1017.1	1248.4	1139.9	965.4	905.5	860.1
77.5°	758.9	647.4	654.6	688.7	733.1	890.1	1105.9	1052.2	893.2	846.7	815.7
80°	546.2	491.5	533.8	571.0	617.5	809.5	1059.4	972.7	807.5	745.5	716.6
82.5°	364.5	353.1	401.7	439.9	485.3	708.3	995.4	851.9	689.7	611.3	547.3
85°	201.3	212.7	270.5	287.0	326.3	498.7	815.7	684.6	519.4	418.2	399.6
87.5°	83.6	98.1	145.6	140.4	173.5	297.4	536.9	413.0	330.4	246.8	192.1
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)