

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: P318338

Luminaire Tested: **GAN-SA4D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318338
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-SA4D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26180 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

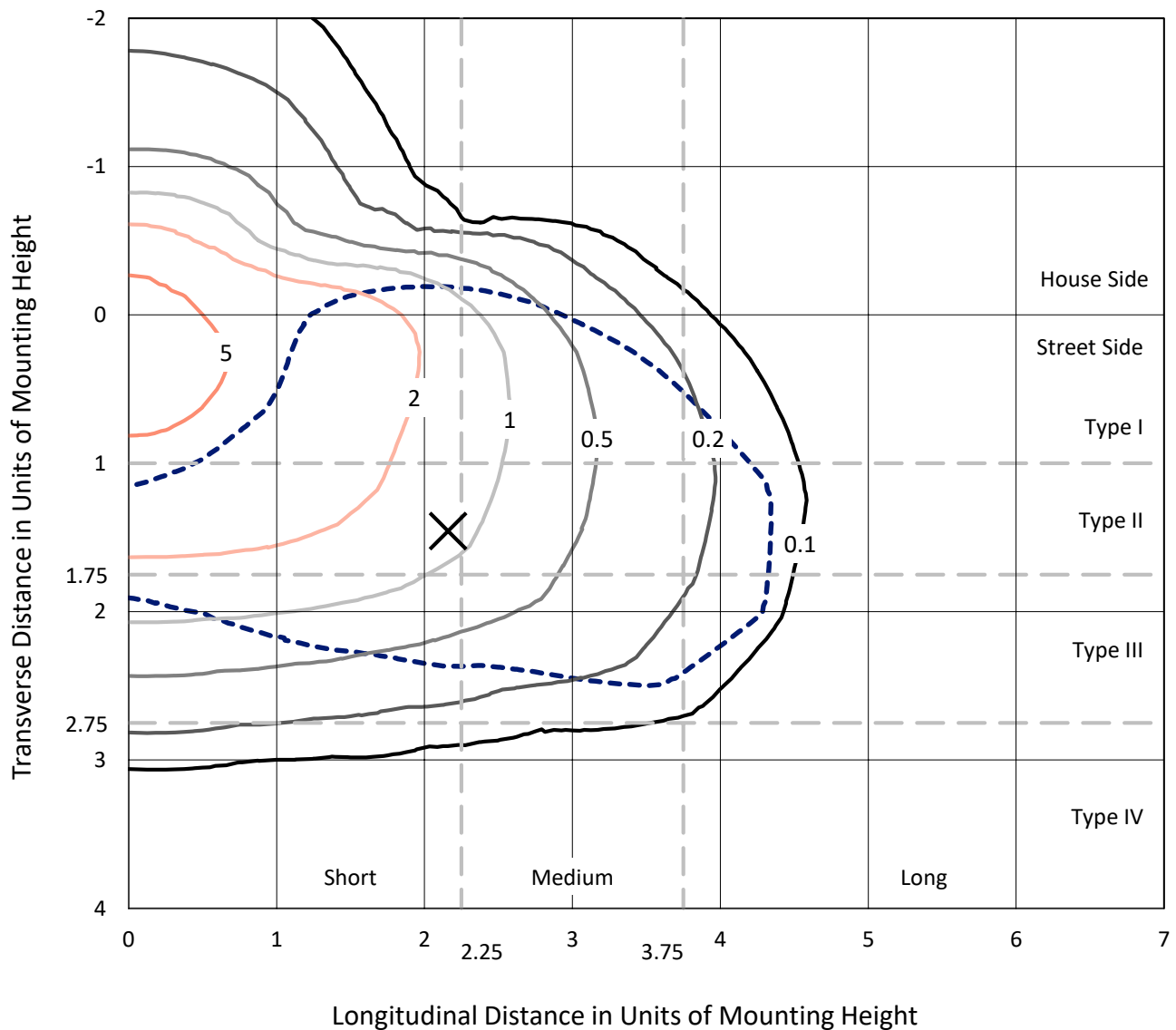
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

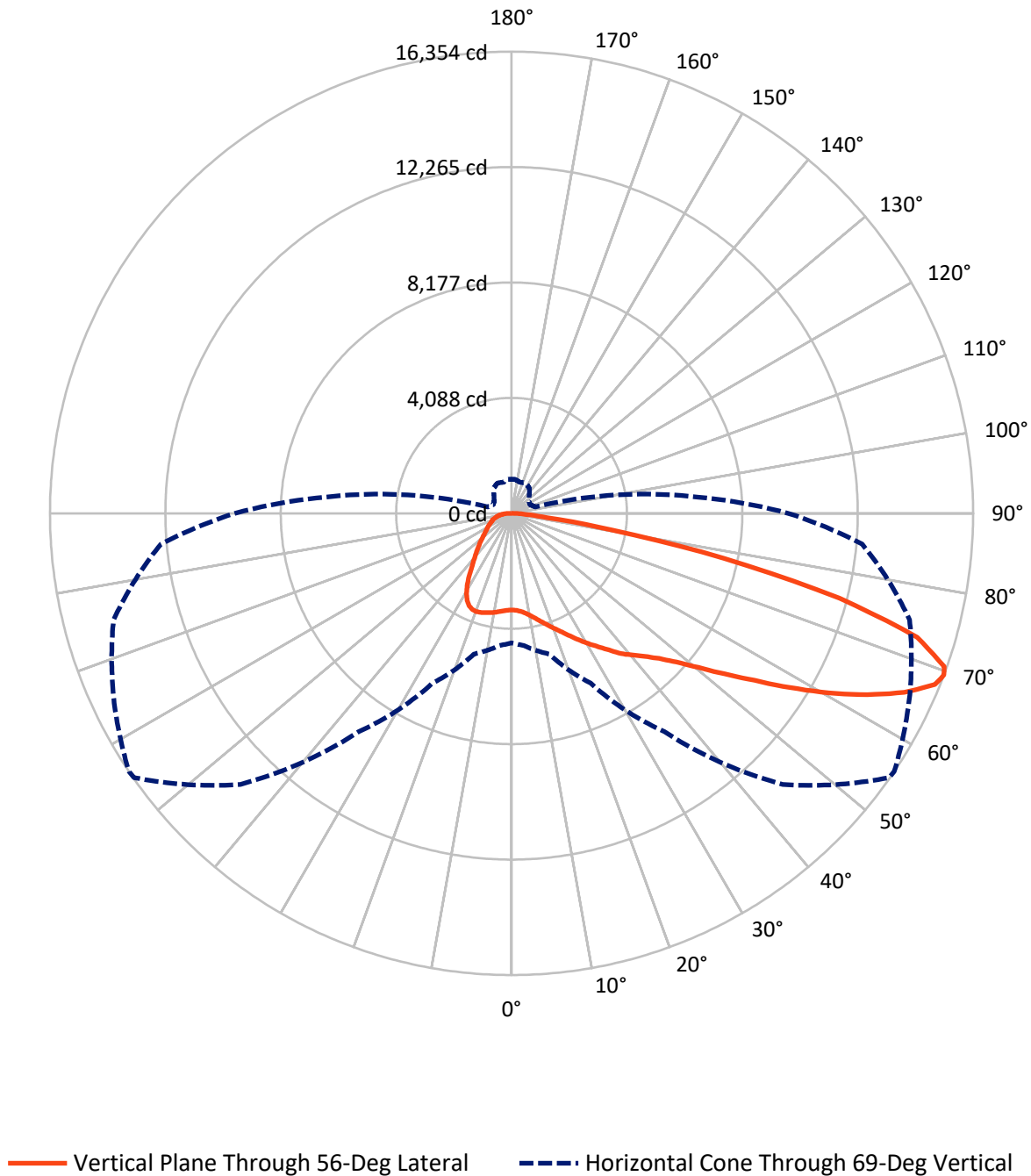
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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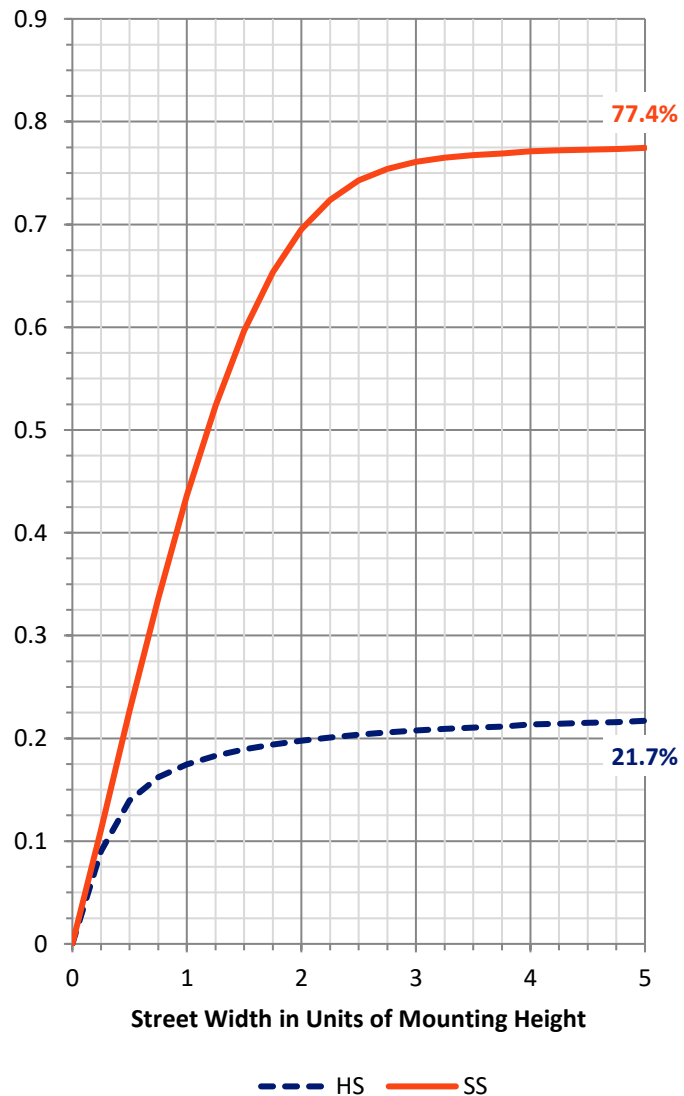
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5830.2	0.0	5830.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20349.8	0.0	20349.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	26180.0	0.0	26180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.3
10°-20°	1081.0	4.1
20°-30°	1886.9	7.2
30°-40°	2710.5	10.4
40°-50°	3751.2	14.3
50°-60°	5496.0	21.0
60°-70°	6700.7	25.6
70°-80°	3704.6	14.2
80°-90°	513.1	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°	26180.0	100.0
0°-180°	26180.0	100.0

Coefficient of Utilization



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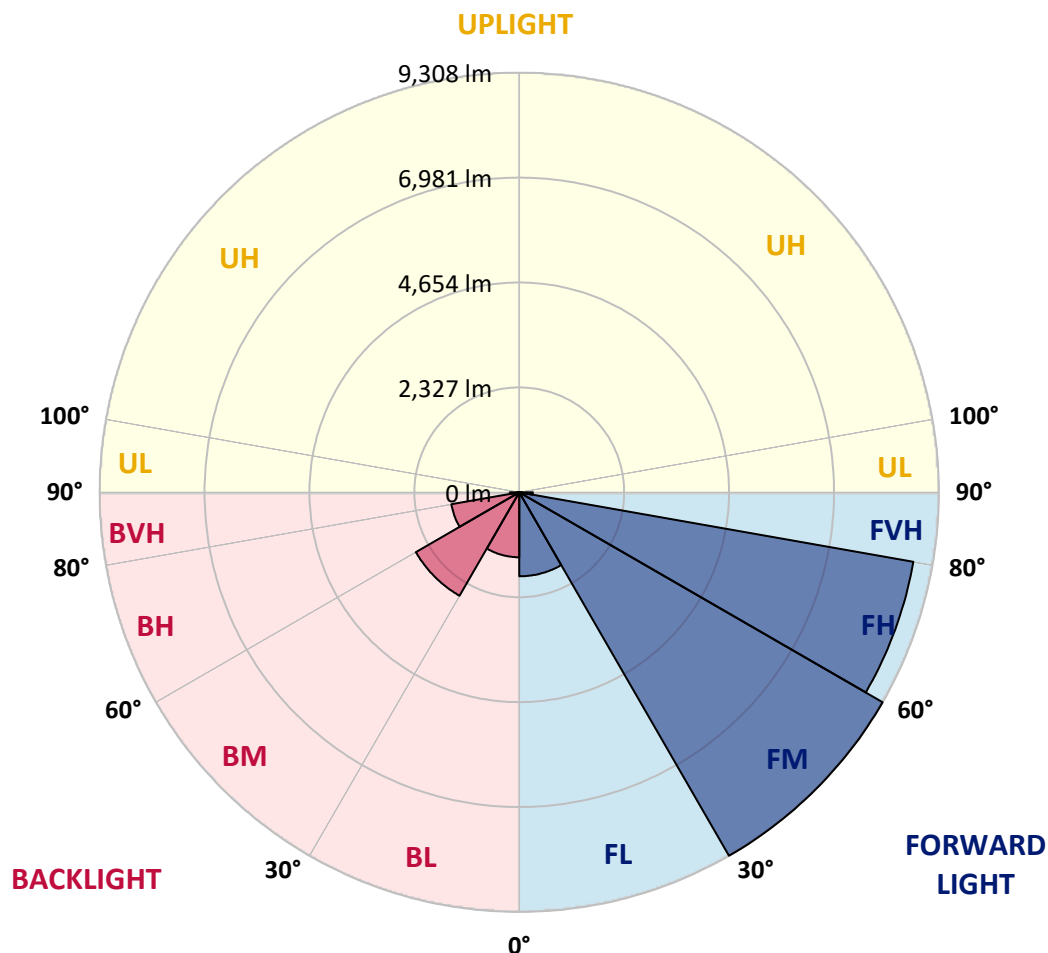
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.2	7.1			
FM	(30°-60°)	9308.0	35.6			
FH	(60°-80°)	8876.3	33.9			G4/12000
FVH	(80°-90°)	302.2	1.2			G3/500
BL	(0°-30°)	1440.8	5.5	B3/2500		
BM	(30°-60°)	2649.7	10.1	B3/5000		
BH	(60°-80°)	1528.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	210.9	0.8			G2/225
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°	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3444.3	3447.9	3445.2	3452.4	3444.3	3449.7	3445.2	3445.2	3442.5	3434.4	3425.3
5°	3498.4	3505.6	3501.1	3508.3	3498.4	3500.2	3492.1	3492.1	3484.0	3466.8	3448.8
7.5°	3583.2	3591.3	3587.7	3594.9	3581.4	3581.4	3570.5	3569.6	3553.4	3525.5	3504.7
10°	3684.2	3695.0	3691.4	3702.2	3691.4	3695.0	3684.2	3684.2	3662.5	3622.9	3596.7
12.5°	3831.2	3844.7	3834.8	3833.9	3829.4	3836.6	3827.6	3825.8	3805.9	3751.8	3715.8
15°	4027.8	4042.2	4021.5	4019.7	3994.4	3991.7	3991.7	3989.0	3976.4	3911.5	3851.9
17.5°	4254.2	4258.7	4240.6	4211.8	4179.3	4158.6	4155.9	4163.1	4163.1	4087.3	3992.6
20°	4476.0	4484.2	4469.7	4437.3	4395.8	4365.1	4343.5	4357.9	4357.0	4266.8	4132.4
22.5°	4717.7	4736.7	4715.0	4673.6	4624.8	4590.6	4552.7	4565.3	4566.2	4455.3	4269.5
25°	5030.7	5013.6	5000.0	4941.4	4872.0	4836.8	4801.6	4814.2	4810.6	4658.2	4411.1
27.5°	5307.6	5311.2	5293.1	5230.9	5150.6	5073.1	5071.3	5079.4	5065.9	4869.3	4544.6
30°	5629.5	5631.3	5606.1	5550.2	5462.7	5362.6	5339.1	5352.7	5323.8	5069.5	4685.3
32.5°	5949.7	5958.7	5930.8	5863.1	5792.8	5671.0	5624.1	5633.2	5561.0	5274.2	4830.5
35°	6230.2	6242.8	6233.8	6188.7	6112.1	6007.4	5951.5	5946.1	5856.8	5524.9	5022.6
37.5°	6516.1	6527.8	6517.9	6480.0	6449.4	6338.4	6308.7	6308.7	6153.5	5781.1	5267.0
40°	6810.1	6828.1	6816.4	6764.1	6738.0	6687.5	6616.2	6599.1	6431.3	6088.6	5665.6
42.5°	7083.4	7106.8	7153.7	7123.1	7069.9	7077.1	6933.7	6924.6	6802.0	6543.2	6166.2
45°	7471.2	7505.5	7584.8	7561.4	7550.6	7510.9	7340.4	7332.3	7285.4	7154.6	6787.6
47.5°	7894.2	7941.1	8084.5	8089.0	8205.3	8130.5	7898.7	7870.7	7881.5	7887.0	7546.0
50°	8283.8	8335.2	8570.6	8681.5	8955.7	8971.9	8601.2	8576.0	8618.4	8742.8	8429.9
52.5°	8594.9	8659.9	8953.9	9296.6	9766.5	9900.0	9466.1	9447.2	9478.8	9693.4	9429.2
55°	8823.1	8893.5	9213.6	9837.7	10588.1	10823.5	10461.8	10443.8	10463.6	10736.9	10515.9
57.5°	8876.3	8893.5	9357.9	10202.1	11281.6	11847.1	11680.3	11644.2	11546.8	11784.9	11715.4
60°	8626.5	8695.0	9238.9	10330.2	11818.3	12856.3	12953.7	12908.6	12635.4	12830.2	12774.3
62.5°	8119.6	8242.3	8794.2	10135.3	12028.4	13680.6	14202.8	14148.7	13677.9	13804.2	13535.4
65°	7291.7	7344.0	7923.9	9463.4	11761.4	14208.2	15316.7	15289.6	14697.1	14499.6	13676.1
67.5°	5810.8	5909.1	6401.6	8059.2	10669.3	14146.0	16178.0	16175.2	15362.7	14757.5	13177.4
69°	4590.6	4692.5	5161.5	6638.8	9440.9	13576.9	16322.3	16353.8	15550.2	14600.6	12464.9
70°	3659.8	3778.0	4100.0	5591.7	8350.5	12826.6	16202.3	16259.1	15514.2	14341.7	11807.4
72.5°	1557.5	1653.1	1882.2	2882.4	5089.3	9578.0	14814.3	15029.0	14678.1	13126.0	9758.4
75°	680.0	709.8	813.5	1175.2	2259.2	5212.9	11605.4	12002.2	12550.6	11094.9	7269.2
77.5°	497.8	510.5	567.3	689.9	1013.7	1968.8	7463.1	7694.0	9051.3	8073.6	4458.9
80°	385.1	394.1	438.3	506.9	662.0	796.4	3403.7	3602.1	5089.3	4146.9	1857.0
82.5°	306.6	313.0	343.6	373.4	457.3	482.5	1130.1	1253.6	1878.6	1145.4	491.5
85°	285.0	292.2	303.0	272.4	293.1	283.2	488.8	511.4	567.3	450.0	205.6
87.5°	129.0	152.4	300.3	211.9	156.0	124.5	200.2	209.2	235.4	236.3	91.1
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°	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3430.8	3428.1	3432.6	3421.7	3435.3	3434.4	3429.9	3431.7	3440.7	3439.8	3440.7
5°	3451.5	3449.7	3455.1	3447.0	3463.2	3468.6	3469.5	3477.7	3487.6	3490.3	3490.3
7.5°	3503.8	3503.8	3506.5	3495.7	3506.5	3505.6	3501.1	3509.2	3519.1	3520.0	3519.1
10°	3594.0	3594.9	3590.4	3562.4	3553.4	3529.1	3506.5	3507.4	3520.0	3530.0	3532.7
12.5°	3707.6	3704.0	3684.2	3632.8	3594.9	3545.3	3521.8	3520.9	3533.6	3541.7	3544.4
15°	3837.5	3827.6	3776.2	3692.3	3625.6	3576.9	3539.0	3530.0	3522.7	3513.7	3514.6
17.5°	3960.2	3937.6	3851.9	3735.6	3665.2	3600.3	3527.3	3468.6	3428.1	3404.6	3397.4
20°	4084.6	4040.4	3916.9	3776.2	3686.9	3568.7	3428.1	3309.0	3235.0	3200.8	3194.5
22.5°	4198.3	4127.0	3977.3	3818.6	3669.8	3462.3	3241.4	3068.2	2965.4	2919.4	2923.0
25°	4309.2	4210.0	4040.4	3848.3	3583.2	3274.7	2981.6	2768.8	2649.7	2598.3	2596.5
27.5°	4406.6	4293.9	4109.0	3824.0	3421.7	3007.8	2674.1	2466.6	2367.4	2323.2	2316.0
30°	4518.4	4399.4	4200.1	3731.1	3185.4	2699.3	2373.8	2227.6	2157.3	2113.1	2105.0
32.5°	4654.6	4542.8	4274.9	3562.4	2883.3	2377.4	2139.3	2037.4	1973.3	1923.7	1914.7
35°	4853.0	4732.2	4293.9	3320.7	2551.4	2123.0	1967.0	1862.4	1775.8	1711.8	1705.5
37.5°	5101.9	4969.4	4250.6	3007.8	2229.5	1958.0	1823.6	1694.6	1581.9	1491.7	1477.3
40°	5460.9	5260.7	4130.6	2647.0	1992.3	1830.8	1683.8	1536.8	1397.0	1291.5	1270.8
42.5°	5892.0	5602.5	3946.6	2288.1	1818.2	1701.9	1544.9	1362.7	1229.3	1154.4	1143.6
45°	6440.3	5957.8	3691.4	1974.2	1646.8	1572.9	1395.2	1227.5	1144.5	1089.5	1080.5
47.5°	7066.2	6356.5	3423.5	1719.0	1501.6	1452.0	1275.3	1167.0	1101.2	1057.9	1049.8
50°	7835.5	6806.5	3139.5	1509.7	1355.5	1306.8	1218.4	1133.7	1081.4	1048.0	1039.9
52.5°	8703.2	7314.3	2934.7	1344.7	1234.7	1199.5	1188.7	1115.6	1073.2	1048.0	1039.9
55°	9637.5	7831.0	2713.8	1205.8	1130.1	1140.0	1168.8	1117.4	1088.6	1057.9	1046.2
57.5°	10572.8	8365.0	2467.5	1088.6	1047.1	1095.8	1155.3	1121.0	1096.7	1066.9	1056.1
60°	11312.3	8703.2	2086.1	990.3	981.2	1047.1	1122.8	1094.0	1062.4	1063.3	1061.5
62.5°	11657.7	8685.1	1664.9	902.8	915.4	981.2	1070.5	1051.6	1025.4	1060.6	1063.3
65°	11463.8	8252.2	1296.0	823.4	845.1	912.7	1016.4	1030.9	1039.9	1107.5	1116.5
67.5°	10650.3	7409.9	1003.8	754.0	781.0	865.8	1021.8	1122.8	1134.6	1205.8	1204.9
69°	9808.9	6619.8	872.1	717.9	749.5	877.5	1092.2	1181.5	1137.3	1213.0	1202.2
70°	9103.6	5994.8	801.8	693.5	735.0	898.3	1139.1	1180.6	1123.7	1188.7	1170.6
72.5°	7011.2	4312.8	680.0	648.5	686.3	859.5	1152.6	1154.4	1092.2	1104.8	1074.1
75°	4808.8	2725.5	593.4	587.1	612.4	774.7	1109.3	1103.0	1010.1	992.1	966.8
77.5°	2651.5	1384.4	504.2	528.5	545.6	686.3	1008.3	999.3	922.6	884.7	875.7
80°	1022.7	606.1	425.7	469.9	480.7	594.3	883.8	875.7	811.7	763.0	749.5
82.5°	386.0	317.5	351.7	406.7	403.1	490.6	748.6	744.1	681.8	610.6	588.9
85°	178.6	190.3	278.7	335.5	309.3	363.5	598.8	607.0	531.2	446.4	446.4
87.5°	75.8	106.4	197.5	253.4	208.3	245.3	439.2	419.4	385.1	267.0	250.7
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)