

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: P319111

Luminaire Tested: **GAN-SA7A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32732 lumens
Efficiency: N/A
Efficacy: 144.8 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): 226
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

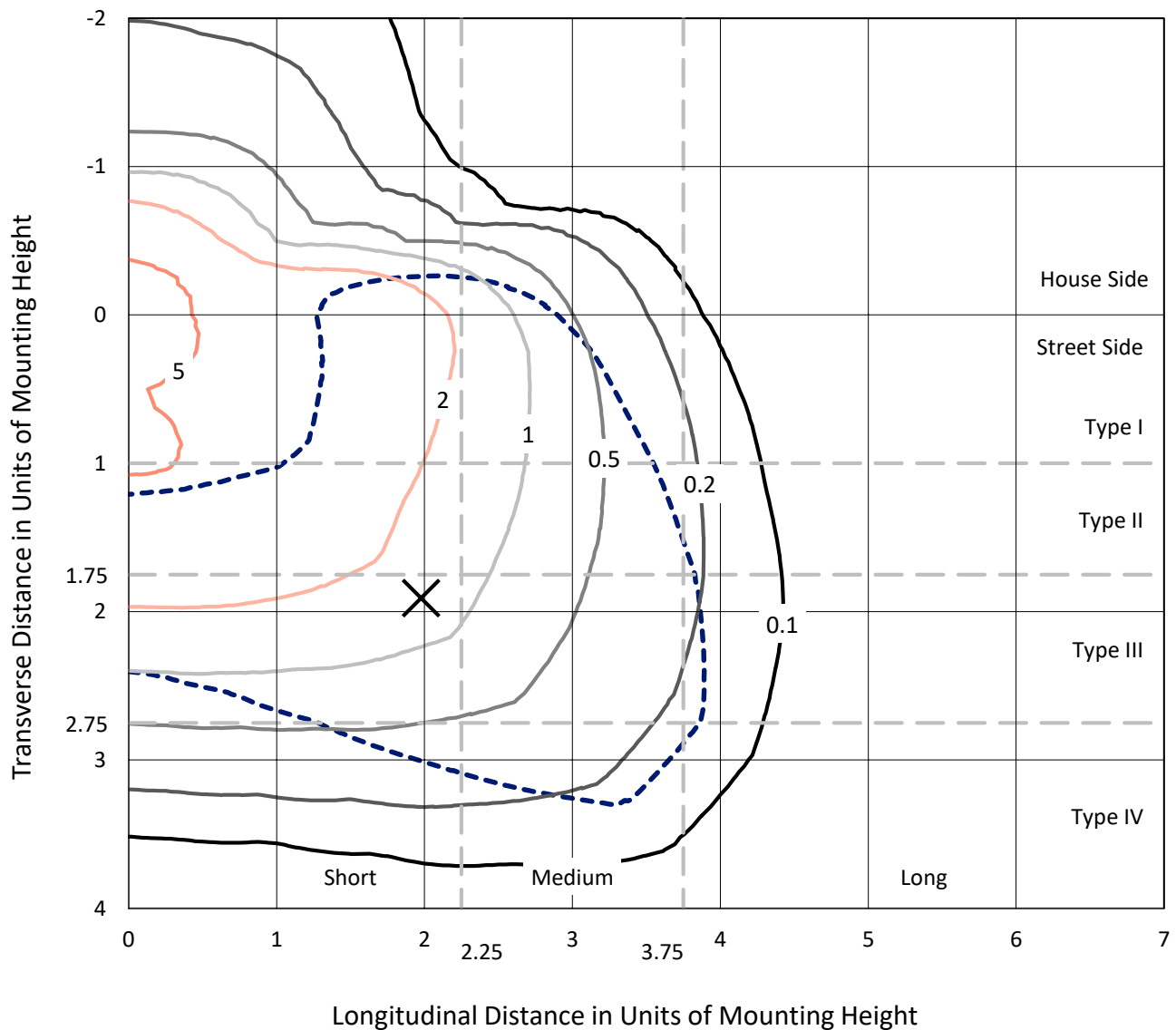


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Iso-Footcandle Lines of Horizontal Illumination

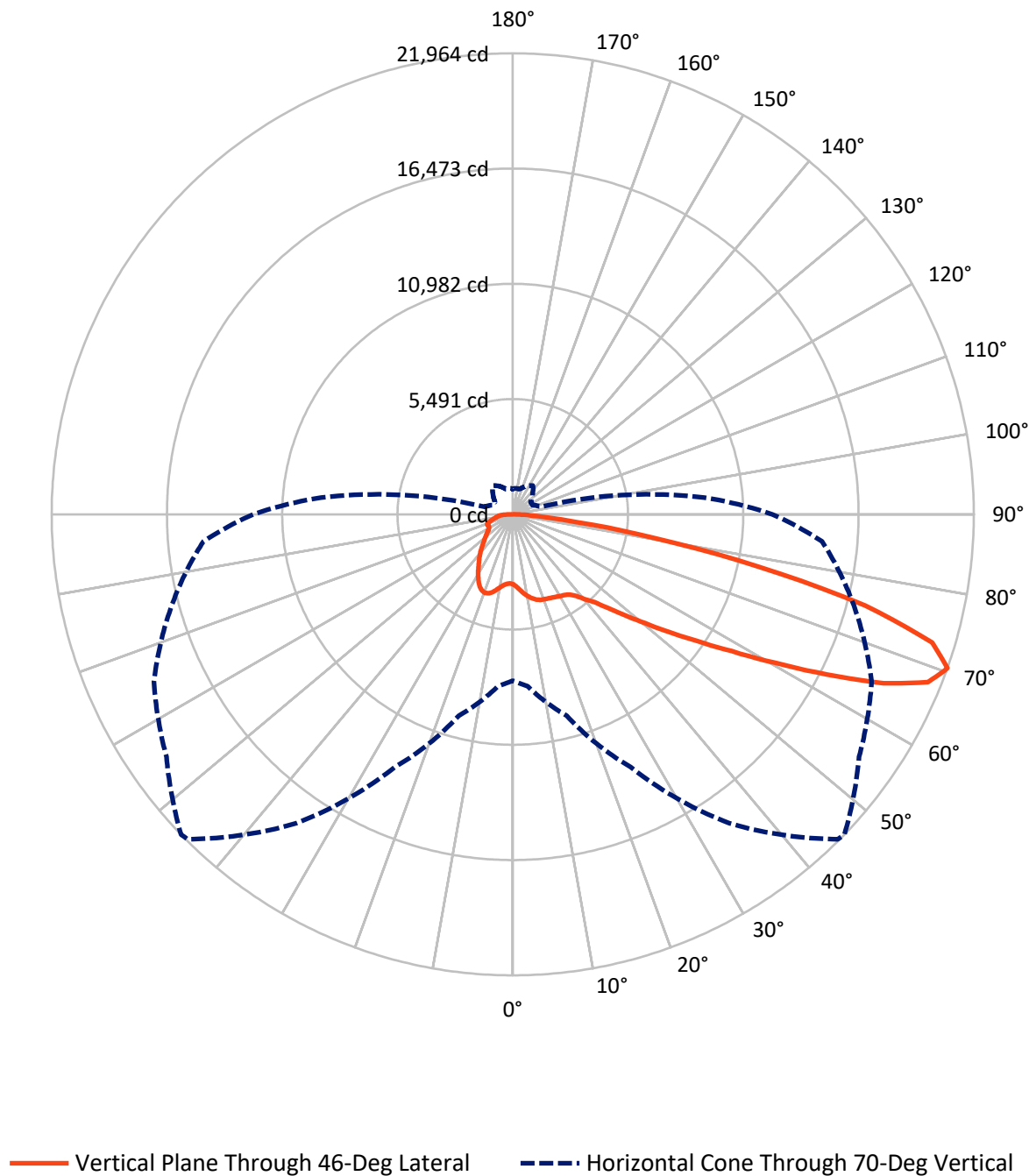
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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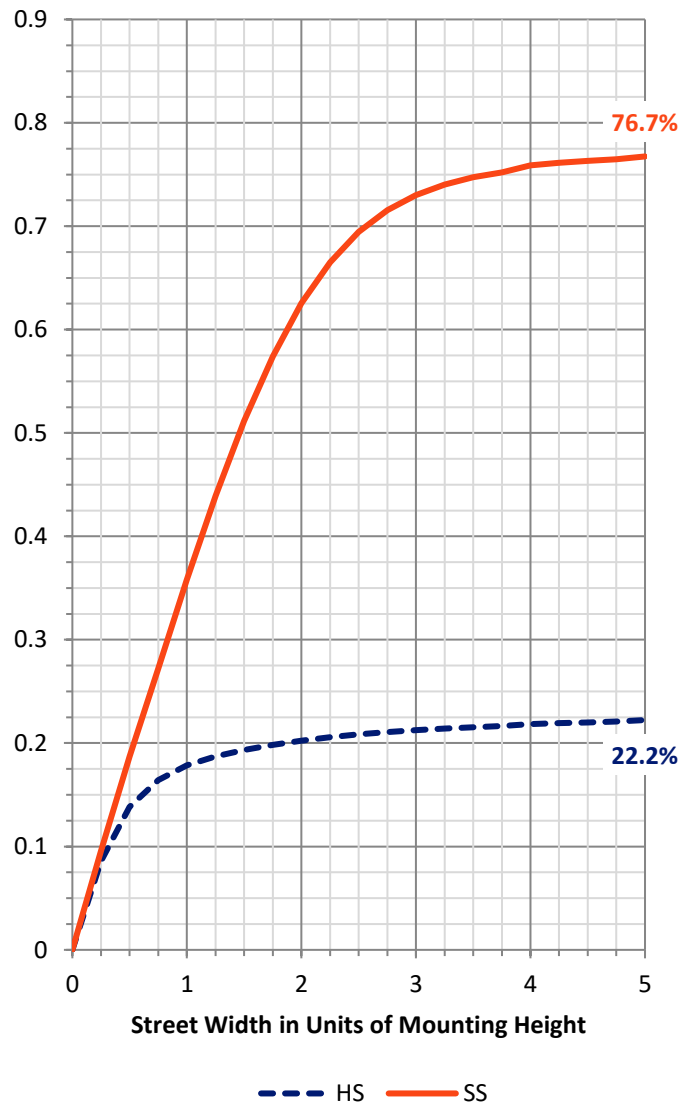
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7502.1	0.0	7502.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25229.9	0.0	25229.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	32732.0	0.0	32732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	1.0
10°-20°	1132.6	3.5
20°-30°	1888.5	5.8
30°-40°	2679.9	8.2
40°-50°	3942.0	12.0
50°-60°	6675.8	20.4
60°-70°	9476.2	29.0
70°-80°	5756.9	17.6
80°-90°	840.1	2.6
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°	32732.0	100.0
0°-180°	32732.0	100.0

Coefficient of Utilization



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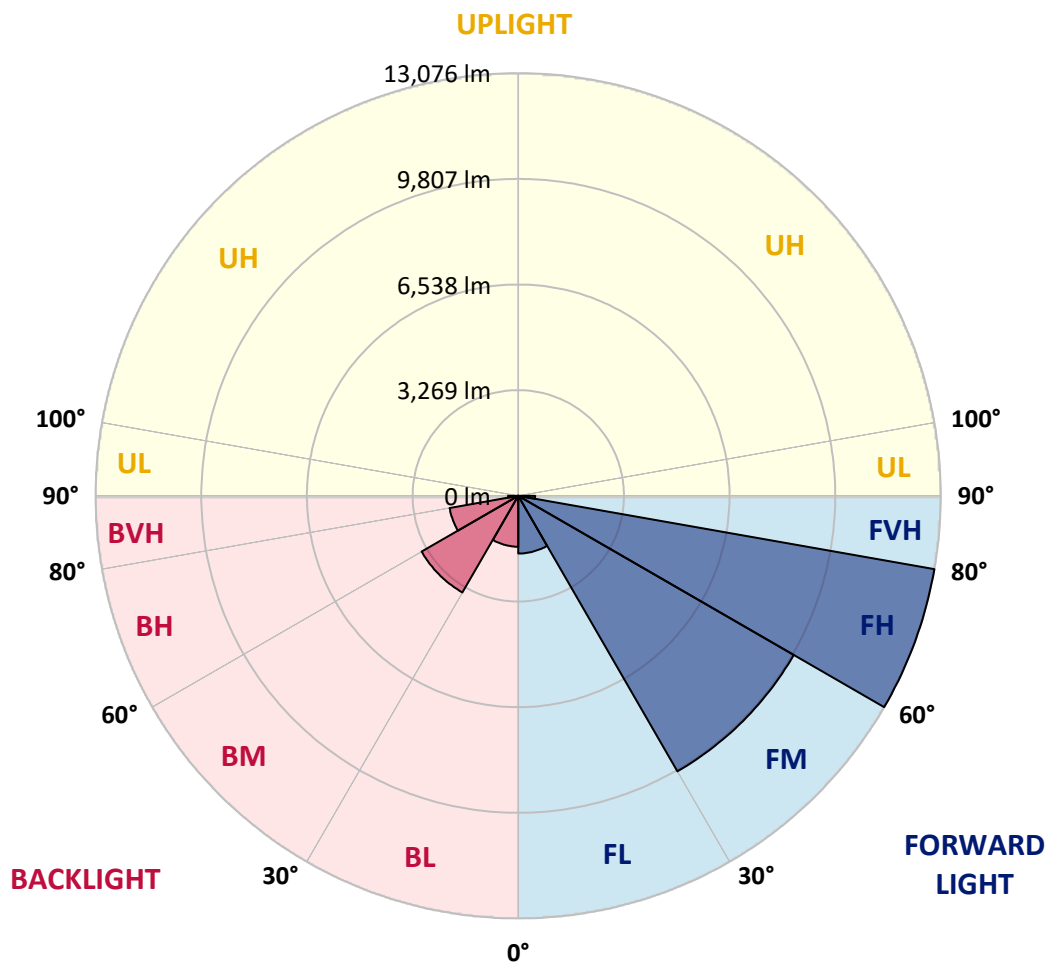
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1786.0	5.5			
FM	(30°-60°)	9844.3	30.1			
FH	(60°-80°)	13076.3	39.9			G5
FVH	(80°-90°)	523.3	1.6			G4/750
BL	(0°-30°)	1575.1	4.8	B3/2500		
BM	(30°-60°)	3453.4	10.6	B3/5000		
BH	(60°-80°)	2156.8	6.6	B3/2500		G3/2500
BVH	(80°-90°)	316.8	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8
2.5°	3501.7	3503.9	3508.4	3497.2	3465.8	3456.8	3453.5	3421.0	3399.7	3368.4	3341.5
5°	3781.7	3783.9	3777.2	3745.9	3676.4	3624.9	3620.4	3546.5	3479.3	3407.6	3353.8
7.5°	4074.1	4077.4	4056.1	3996.8	3899.3	3809.7	3804.1	3703.3	3601.4	3492.7	3412.0
10°	4332.8	4319.4	4284.7	4201.8	4086.4	3976.6	3972.1	3866.8	3749.2	3618.2	3510.6
12.5°	4505.3	4494.1	4449.3	4348.5	4221.9	4121.1	4112.1	4014.7	3900.4	3757.1	3628.2
15°	4600.5	4608.4	4547.9	4433.6	4310.4	4225.3	4217.4	4148.0	4046.1	3901.6	3753.7
17.5°	4612.9	4619.6	4561.3	4448.2	4347.4	4289.1	4285.8	4239.8	4165.9	4027.0	3872.4
20°	4541.2	4545.7	4497.5	4404.5	4338.4	4320.5	4319.4	4299.2	4244.3	4121.1	3971.0
22.5°	4437.0	4440.4	4405.6	4338.4	4316.0	4344.0	4351.9	4344.0	4304.8	4189.4	4048.3
25°	4411.2	4409.0	4373.1	4304.8	4323.9	4383.2	4393.3	4396.7	4369.8	4269.0	4146.9
27.5°	4535.6	4527.7	4459.4	4349.6	4361.9	4433.6	4447.1	4479.6	4462.8	4374.3	4258.9
30°	4895.1	4881.7	4741.7	4519.9	4459.4	4496.4	4513.2	4564.7	4568.1	4494.1	4407.9
32.5°	5502.3	5485.5	5234.6	4838.0	4624.1	4560.2	4575.9	4653.2	4694.6	4637.5	4544.5
35°	6269.6	6250.6	5921.2	5379.1	4899.6	4682.3	4693.5	4755.1	4838.0	4757.4	4634.1
37.5°	7069.4	7023.5	6706.5	6015.3	5337.6	4943.3	4943.3	4951.2	4990.4	4822.3	4739.4
40°	7864.7	7818.8	7532.0	6763.6	5904.4	5354.4	5328.7	5155.0	5123.7	4979.2	4951.2
42.5°	8604.0	8590.6	8421.4	7609.3	6569.8	5758.8	5723.0	5428.4	5435.1	5345.5	5346.6
45°	9390.4	9390.4	9252.6	8462.9	7345.0	6408.5	6372.7	5939.1	6006.4	5964.9	6064.6
47.5°	10032.3	10052.4	10033.4	9352.3	8246.7	7234.1	7169.1	6647.1	6835.3	6977.5	7267.7
50°	10687.6	10718.9	10722.3	10328.0	9336.6	8215.3	8141.4	7586.9	8007.0	8414.7	8984.9
52.5°	11638.6	11709.2	11428.0	11301.4	10671.9	9380.3	9307.5	8795.6	9496.8	10069.2	11051.6
55°	12520.2	12458.5	12258.0	12336.4	12101.2	10706.6	10651.7	10202.5	11156.9	11900.7	13176.6
57.5°	12997.3	12992.9	13194.5	13530.5	13642.6	12342.0	12296.1	11859.3	13028.7	13587.7	15171.6
60°	13557.4	13565.3	14064.9	14827.7	15289.2	14378.5	14358.4	14026.8	14846.8	15162.6	16736.5
62.5°	13635.8	13777.0	14637.3	15950.1	16830.6	16757.8	16802.6	15979.2	16473.2	16419.5	17904.8
65°	12734.1	12920.1	14477.1	16289.5	18363.0	19359.9	19401.4	17942.9	17755.8	17493.7	18322.6
67.5°	10885.8	11161.4	12852.8	15551.3	18868.2	21283.3	21341.5	19465.2	18820.0	17857.8	17316.7
70°	7921.9	8227.7	9930.3	13281.9	17967.5	21898.2	21964.3	20138.4	18860.3	16821.6	14782.9
72.5°	4785.4	5025.1	6428.7	9778.0	15164.9	20778.1	20895.7	19284.9	17219.3	14248.6	10916.1
75°	2101.4	2258.3	3108.5	5634.5	10856.7	17191.3	17338.0	16506.8	13990.9	10354.9	6452.2
77.5°	895.0	939.8	1274.8	2447.6	6137.4	11747.2	11948.9	12060.9	9492.3	5634.5	2726.5
80°	557.8	575.8	721.4	1107.8	2872.1	6597.8	6815.1	7096.3	4713.7	2071.2	952.1
82.5°	339.4	359.6	479.4	669.9	1495.4	2990.9	3095.0	3293.3	1829.2	895.0	492.9
85°	203.9	218.4	293.5	423.4	851.3	1176.2	1175.1	1299.4	861.4	575.8	259.9
87.5°	97.5	108.7	156.8	219.6	429.0	441.3	413.3	468.2	523.1	377.5	131.1
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°	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8	3334.8
2.5°	3332.5	3328.0	3313.5	3302.3	3300.0	3293.3	3287.7	3291.1	3295.5	3296.7	3296.7
5°	3331.4	3319.1	3300.0	3292.2	3302.3	3315.7	3332.5	3354.9	3368.4	3378.4	3385.2
7.5°	3385.2	3361.6	3340.4	3335.9	3356.0	3391.9	3430.0	3477.0	3509.5	3531.9	3536.4
10°	3474.8	3445.6	3424.4	3428.8	3464.7	3516.2	3570.0	3630.5	3679.8	3710.0	3712.2
12.5°	3577.8	3549.8	3529.7	3548.7	3608.1	3670.8	3726.8	3779.5	3824.3	3854.5	3854.5
15°	3696.6	3676.4	3652.9	3696.6	3777.2	3833.2	3856.7	3882.5	3907.2	3929.6	3925.1
17.5°	3810.8	3791.8	3779.5	3831.0	3915.0	3940.8	3925.1	3906.0	3906.0	3918.4	3920.6
20°	3909.4	3892.6	3900.4	3950.8	3994.5	3967.6	3909.4	3848.9	3824.3	3831.0	3837.7
22.5°	3995.7	3987.8	4011.3	4034.9	4003.5	3909.4	3801.9	3720.1	3689.8	3687.6	3689.8
25°	4096.5	4095.3	4124.5	4081.9	3943.0	3769.4	3624.9	3545.3	3528.5	3542.0	3564.4
27.5°	4221.9	4234.2	4248.8	4093.1	3819.8	3557.7	3410.9	3356.0	3372.8	3405.3	3426.6
30°	4382.1	4415.7	4384.4	4065.1	3642.8	3315.7	3175.7	3160.0	3205.9	3251.9	3274.3
32.5°	4537.8	4590.5	4514.3	3992.3	3414.3	3059.2	2950.5	2946.1	3002.1	3046.9	3078.2
35°	4663.3	4767.4	4611.7	3847.8	3149.9	2822.8	2743.3	2713.1	2733.2	2785.9	2821.7
37.5°	4826.8	5000.4	4679.0	3627.1	2863.2	2627.9	2534.9	2465.5	2447.6	2468.9	2486.8
40°	5125.9	5355.5	4710.3	3319.1	2583.1	2433.0	2338.9	2237.0	2166.4	2114.9	2116.0
42.5°	5614.3	5818.2	4690.2	2944.9	2324.4	2242.6	2136.2	2018.5	1904.3	1787.8	1778.8
45°	6407.4	6506.0	4629.7	2548.4	2097.0	2043.2	1943.5	1825.9	1673.5	1541.4	1529.0
47.5°	7676.5	7458.1	4535.6	2202.3	1896.5	1874.0	1782.2	1646.7	1485.3	1378.9	1370.0
50°	9407.2	8832.6	4489.6	1926.7	1719.5	1726.2	1651.1	1507.8	1355.4	1277.0	1268.0
52.5°	11477.3	10433.3	4578.1	1713.9	1577.2	1600.7	1544.7	1410.3	1282.6	1221.0	1212.0
55°	13624.6	12091.1	4673.4	1559.3	1442.8	1488.7	1469.7	1358.8	1243.4	1186.3	1178.4
57.5°	15462.8	13328.9	4482.9	1433.8	1322.9	1394.6	1411.4	1326.3	1223.2	1171.7	1162.7
60°	16620.0	13827.4	3983.3	1316.2	1227.7	1319.6	1377.8	1317.3	1231.1	1226.6	1219.9
62.5°	17168.9	13783.7	3233.9	1223.2	1168.3	1287.1	1402.5	1367.7	1320.7	1361.0	1364.4
65°	16922.4	13125.0	2408.4	1161.6	1125.8	1299.4	1476.4	1462.9	1346.4	1386.8	1392.4
67.5°	15300.4	11553.4	1783.3	1107.8	1078.7	1334.1	1610.8	1494.3	1296.0	1325.2	1307.2
70°	12366.7	9159.6	1375.6	1047.4	1030.6	1329.6	1671.3	1475.3	1241.1	1247.9	1199.7
72.5°	8527.9	6246.1	1119.1	991.4	961.1	1212.0	1628.7	1428.2	1195.2	1143.7	1079.8
75°	4637.5	3352.7	951.0	933.1	839.0	1064.2	1550.3	1394.6	1153.8	1085.4	1049.6
77.5°	1824.8	1391.3	825.6	853.6	733.7	939.8	1462.9	1330.8	1096.6	1007.0	989.1
80°	744.9	710.2	684.4	738.2	630.7	822.2	1357.6	1255.7	1028.3	934.2	898.4
82.5°	422.3	441.3	532.1	582.5	511.9	757.2	1307.2	1195.2	946.5	836.8	794.2
85°	216.2	258.8	370.8	417.8	376.4	644.1	1204.2	1046.2	759.5	640.7	644.1
87.5°	104.2	144.5	234.1	262.1	244.2	466.0	899.5	758.4	591.5	468.2	453.7
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)