

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: P318969

Luminaire Tested: **GAN-SA5C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318969
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-SA5C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29356 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

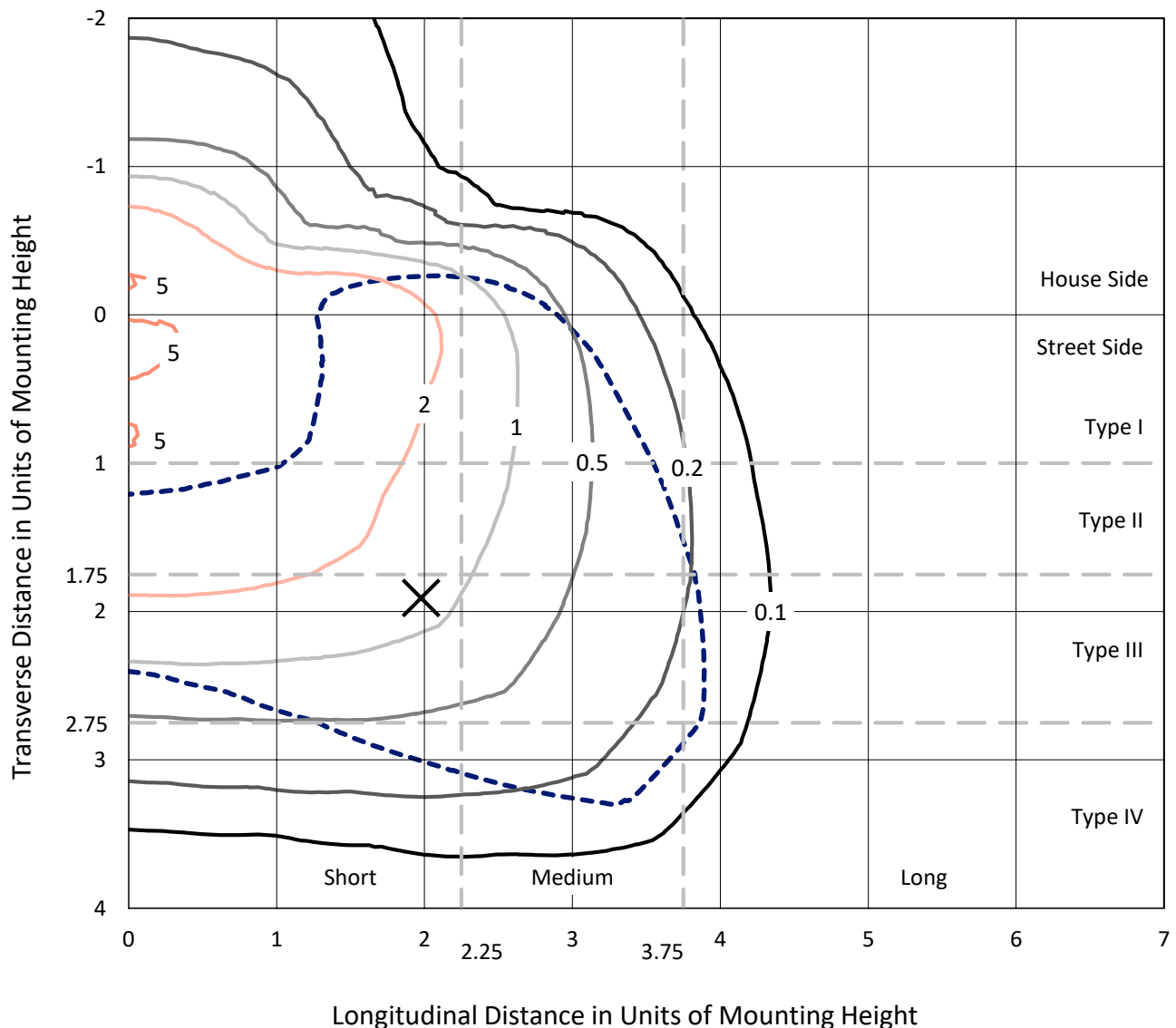
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

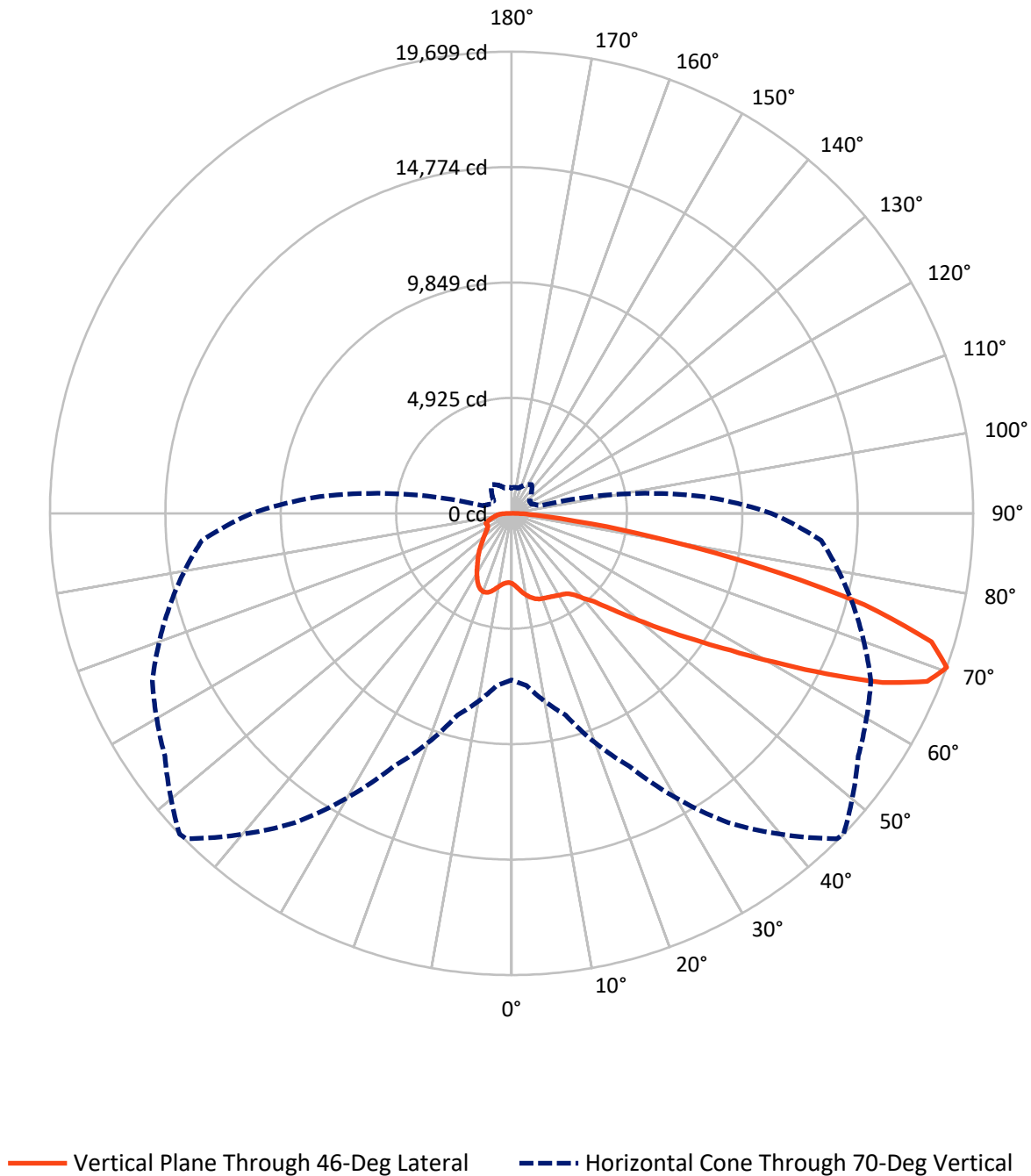
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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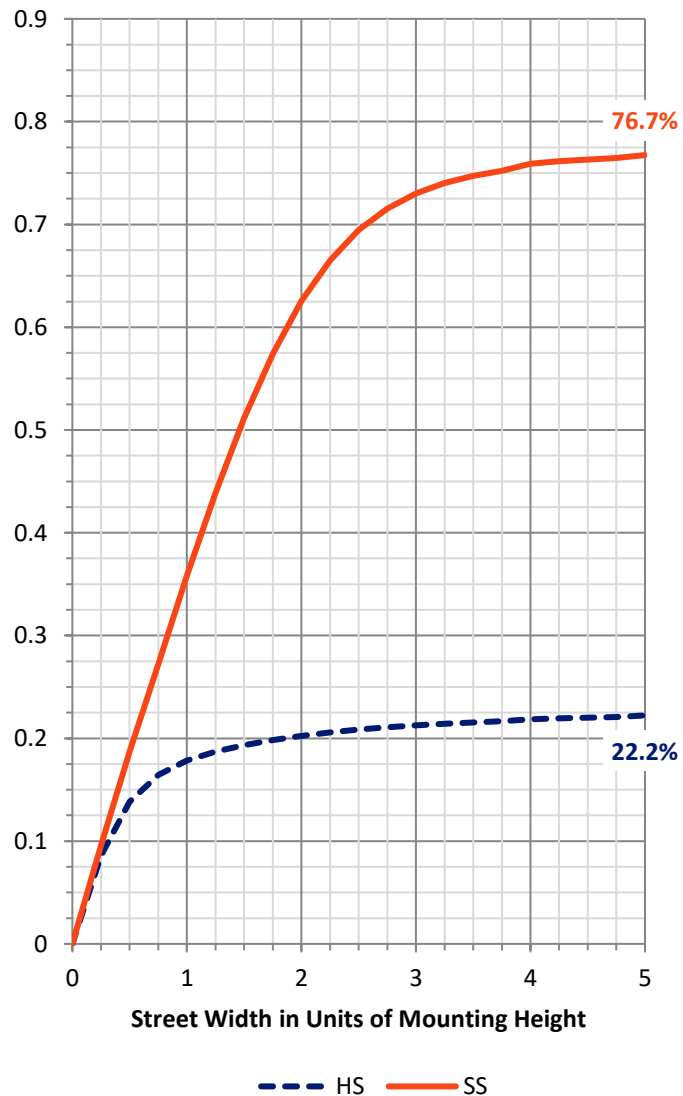
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6728.3	0.0	6728.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22627.7	0.0	22627.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	29356.0	0.0	29356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	1.0
10°-20°	1015.8	3.5
20°-30°	1693.7	5.8
30°-40°	2403.5	8.2
40°-50°	3535.4	12.0
50°-60°	5987.3	20.4
60°-70°	8498.8	29.0
70°-80°	5163.1	17.6
80°-90°	753.5	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°	29356.0	100.0
0°-180°	29356.0	100.0

Coefficient of Utilization



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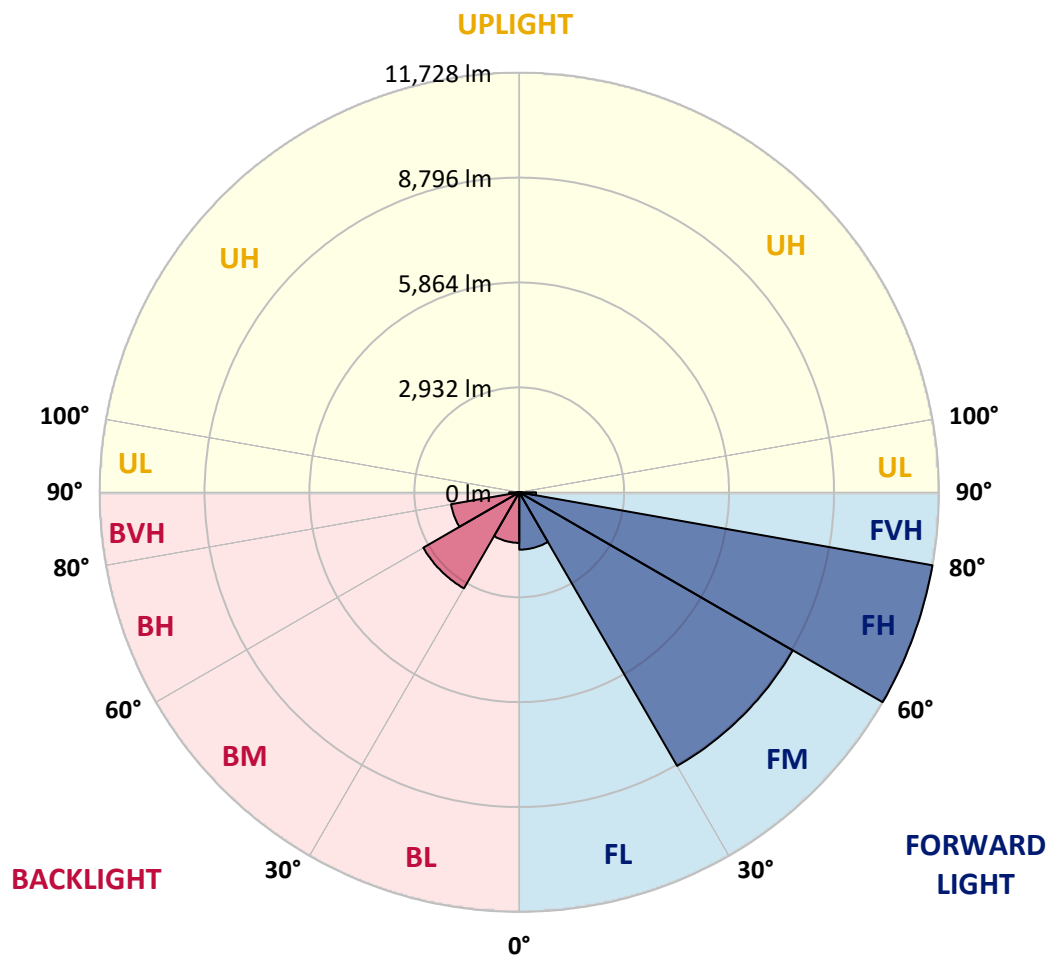
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1601.8	5.5			
FM	(30°-60°)	8829.0	30.1			
FH	(60°-80°)	11727.6	39.9			G4/12000
FVH	(80°-90°)	469.4	1.6			G3/500
BL	(0°-30°)	1412.6	4.8	B3/2500		
BM	(30°-60°)	3097.2	10.6	B3/5000		
BH	(60°-80°)	1934.3	6.6	B3/2500		G3/2500
BVH	(80°-90°)	284.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8
2.5°	3140.5	3142.5	3146.5	3136.5	3108.3	3100.3	3097.3	3068.2	3049.1	3020.9	2996.8
5°	3391.7	3393.7	3387.6	3359.5	3297.2	3251.0	3247.0	3180.7	3120.4	3056.1	3007.9
7.5°	3653.9	3656.9	3637.8	3584.5	3497.1	3416.8	3411.7	3321.3	3229.9	3132.5	3060.1
10°	3885.9	3873.9	3842.7	3768.4	3664.9	3566.5	3562.4	3468.0	3362.5	3245.0	3148.5
12.5°	4040.6	4030.6	3990.4	3900.0	3786.5	3696.1	3688.0	3600.6	3498.1	3369.5	3254.0
15°	4126.0	4133.1	4078.8	3976.3	3865.8	3789.5	3782.5	3720.2	3628.7	3499.1	3366.5
17.5°	4137.1	4143.1	4090.9	3989.4	3899.0	3846.8	3843.7	3802.5	3736.2	3611.7	3473.0
20°	4072.8	4076.8	4033.6	3950.2	3891.0	3874.9	3873.9	3855.8	3806.6	3696.1	3561.4
22.5°	3979.4	3982.4	3951.2	3891.0	3870.9	3896.0	3903.0	3896.0	3860.8	3757.3	3630.8
25°	3956.3	3954.2	3922.1	3860.8	3877.9	3931.1	3940.2	3943.2	3919.1	3828.7	3719.2
27.5°	4067.8	4060.7	3999.5	3901.0	3912.1	3976.3	3988.4	4017.5	4002.5	3923.1	3819.6
30°	4390.3	4378.2	4252.6	4053.7	3999.5	4032.6	4047.7	4093.9	4096.9	4030.6	3953.2
32.5°	4934.8	4919.7	4694.7	4339.0	4147.1	4089.9	4103.9	4173.3	4210.4	4159.2	4075.8
35°	5622.9	5605.9	5310.5	4824.3	4394.3	4199.4	4209.4	4264.7	4339.0	4266.7	4156.2
37.5°	6340.3	6299.1	6014.8	5394.9	4787.1	4433.5	4433.5	4440.5	4475.7	4325.0	4250.6
40°	7053.6	7012.4	6755.2	6066.0	5295.4	4802.2	4779.1	4623.3	4595.2	4465.6	4440.5
42.5°	7716.6	7704.6	7552.9	6824.5	5892.2	5164.8	5132.7	4868.5	4874.5	4794.1	4795.1
45°	8421.9	8421.9	8298.3	7590.0	6587.4	5747.5	5715.4	5326.6	5386.9	5349.7	5439.1
47.5°	8997.5	9015.6	8998.5	8387.7	7396.1	6487.9	6429.7	5961.5	6130.3	6257.9	6518.1
50°	9585.2	9613.4	9616.4	9262.7	8373.6	7368.0	7301.7	6804.4	7181.1	7546.8	8058.2
52.5°	10438.2	10501.5	10249.3	10135.8	9571.2	8412.8	8347.5	7888.4	8517.3	9030.7	9911.7
55°	11228.8	11173.6	10993.7	11064.1	10853.1	9602.3	9553.1	9150.2	10006.2	10673.3	11817.5
57.5°	11656.8	11652.8	11833.6	12135.0	12235.5	11069.1	11027.9	10636.1	11684.9	12186.2	13606.8
60°	12159.1	12166.1	12614.2	13298.4	13712.3	12895.5	12877.4	12580.1	13315.4	13598.8	15010.3
62.5°	12229.4	12356.0	13127.6	14305.0	15094.7	15029.4	15069.5	14331.1	14774.2	14726.0	16058.1
65°	11420.7	11587.5	12983.9	14609.4	16469.0	17363.1	17400.3	16092.3	15924.5	15689.4	16432.8
67.5°	9763.1	10010.2	11527.2	13947.4	16922.1	19088.1	19140.3	17457.6	16878.9	16015.9	15530.7
70°	7104.8	7379.1	8906.1	11912.0	16114.4	19639.6	19698.9	18061.3	16915.1	15086.6	13258.2
72.5°	4291.8	4506.8	5765.6	8769.5	13600.8	18635.0	18740.5	17295.8	15443.3	12779.0	9790.2
75°	1884.7	2025.3	2787.9	5053.3	9736.9	15418.2	15549.8	14804.3	12547.9	9286.9	5786.7
77.5°	802.7	842.9	1143.3	2195.1	5504.4	10535.6	10716.5	10816.9	8513.3	5053.3	2445.3
80°	500.3	516.4	647.0	993.6	2575.9	5917.3	6112.2	6364.4	4227.5	1857.6	853.9
82.5°	304.4	322.5	430.0	600.8	1341.2	2682.4	2775.8	2953.6	1640.6	802.7	442.0
85°	182.8	195.9	263.2	379.8	763.5	1054.9	1053.9	1165.4	772.6	516.4	233.1
87.5°	87.4	97.4	140.6	196.9	384.8	395.8	370.7	419.9	469.2	338.6	117.5
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°	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8	2990.8
2.5°	2988.8	2984.8	2971.7	2961.7	2959.7	2953.6	2948.6	2951.6	2955.6	2956.6	2956.6
5°	2987.8	2976.7	2959.7	2952.6	2961.7	2973.7	2988.8	3008.9	3020.9	3030.0	3036.0
7.5°	3036.0	3014.9	2995.8	2991.8	3009.9	3042.0	3076.2	3118.4	3147.5	3167.6	3171.6
10°	3116.4	3090.3	3071.2	3075.2	3107.3	3153.6	3201.8	3256.0	3300.2	3327.4	3329.4
12.5°	3208.8	3183.7	3165.6	3182.7	3235.9	3292.2	3342.4	3389.6	3429.8	3457.0	3457.0
15°	3315.3	3297.2	3276.1	3315.3	3387.6	3437.9	3459.0	3482.1	3504.2	3524.3	3520.2
17.5°	3417.8	3400.7	3389.6	3435.9	3511.2	3534.3	3520.2	3503.2	3503.2	3514.2	3516.2
20°	3506.2	3491.1	3498.1	3543.4	3582.5	3558.4	3506.2	3451.9	3429.8	3435.9	3441.9
22.5°	3583.5	3576.5	3597.6	3618.7	3590.6	3506.2	3409.7	3336.4	3309.3	3307.3	3309.3
25°	3674.0	3672.9	3699.1	3660.9	3536.3	3380.6	3251.0	3179.7	3164.6	3176.7	3196.8
27.5°	3786.5	3797.5	3810.6	3670.9	3425.8	3190.7	3059.1	3009.9	3025.0	3054.1	3073.2
30°	3930.1	3960.3	3932.1	3645.8	3267.1	2973.7	2848.1	2834.1	2875.3	2916.5	2936.6
32.5°	4069.8	4117.0	4048.7	3580.5	3062.1	2743.7	2646.2	2642.2	2692.4	2732.6	2760.7
35°	4182.3	4275.7	4136.1	3450.9	2825.0	2531.7	2460.4	2433.2	2451.3	2498.5	2530.7
37.5°	4329.0	4484.7	4196.4	3253.0	2567.8	2356.9	2273.5	2211.2	2195.1	2214.2	2230.3
40°	4597.2	4803.2	4224.5	2976.7	2316.7	2182.1	2097.7	2006.3	1943.0	1896.8	1897.8
42.5°	5035.2	5218.1	4206.4	2641.2	2084.6	2011.3	1915.8	1810.4	1707.9	1603.4	1595.4
45°	5746.5	5834.9	4152.2	2285.5	1880.7	1832.5	1743.0	1637.6	1500.9	1382.4	1371.3
47.5°	6884.8	6688.9	4067.8	1975.1	1700.8	1680.8	1598.4	1476.8	1332.1	1236.7	1228.7
50°	8436.9	7921.6	4026.6	1728.0	1542.1	1548.1	1480.8	1352.2	1215.6	1145.3	1137.2
52.5°	10293.5	9357.2	4105.9	1537.1	1414.5	1435.6	1385.4	1264.8	1150.3	1095.1	1087.0
55°	12219.4	10844.0	4191.3	1398.5	1294.0	1335.2	1318.1	1218.6	1115.1	1063.9	1056.9
57.5°	13868.0	11954.2	4020.6	1285.9	1186.5	1250.8	1265.8	1189.5	1097.1	1050.8	1042.8
60°	14905.8	12401.2	3572.5	1180.4	1101.1	1183.5	1235.7	1181.5	1104.1	1100.1	1094.0
62.5°	15398.1	12362.0	2900.4	1097.1	1047.8	1154.3	1257.8	1226.7	1184.5	1220.6	1223.6
65°	15177.0	11771.3	2160.0	1041.8	1009.7	1165.4	1324.1	1312.1	1207.6	1243.7	1248.8
67.5°	13722.3	10361.8	1599.4	993.6	967.5	1196.5	1444.7	1340.2	1162.4	1188.5	1172.4
70°	11091.2	8214.9	1233.7	939.3	924.3	1192.5	1498.9	1323.1	1113.1	1119.2	1076.0
72.5°	7648.3	5601.9	1003.6	889.1	862.0	1087.0	1460.7	1280.9	1071.9	1025.7	968.5
75°	4159.2	3006.9	852.9	836.9	752.5	954.4	1390.4	1250.8	1034.8	973.5	941.3
77.5°	1636.6	1247.8	740.4	765.5	658.0	842.9	1312.1	1193.5	983.5	903.2	887.1
80°	668.1	636.9	613.8	662.1	565.6	737.4	1217.6	1126.2	922.3	837.9	805.7
82.5°	378.7	395.8	477.2	522.4	459.1	679.1	1172.4	1071.9	848.9	750.5	712.3
85°	193.9	232.1	332.5	374.7	337.6	577.7	1080.0	938.3	681.1	574.7	577.7
87.5°	93.4	129.6	210.0	235.1	219.0	417.9	806.7	680.1	530.4	419.9	406.9
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)