

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: P319348

Luminaire Tested: **GAN-SA4A-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18416 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

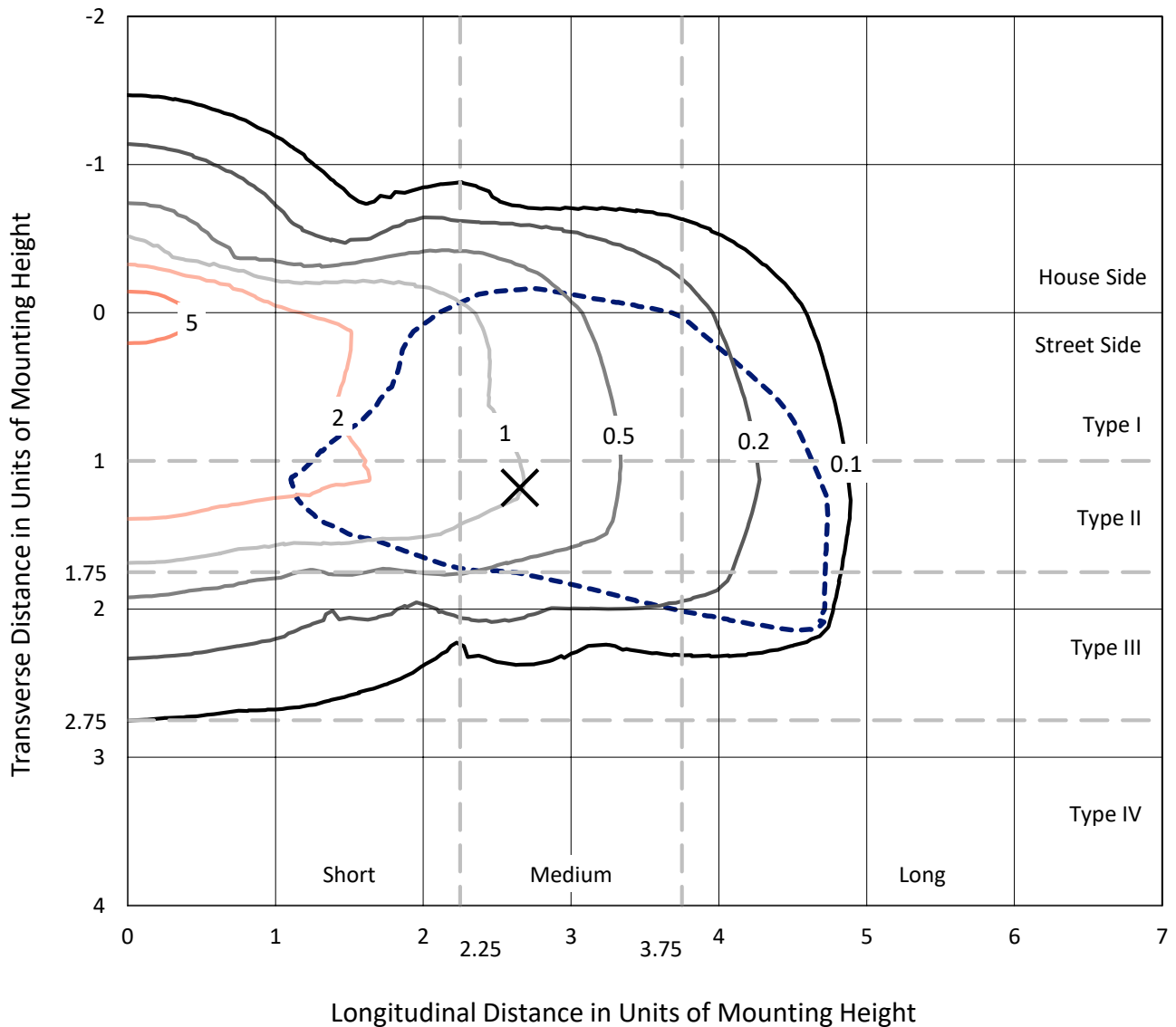
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

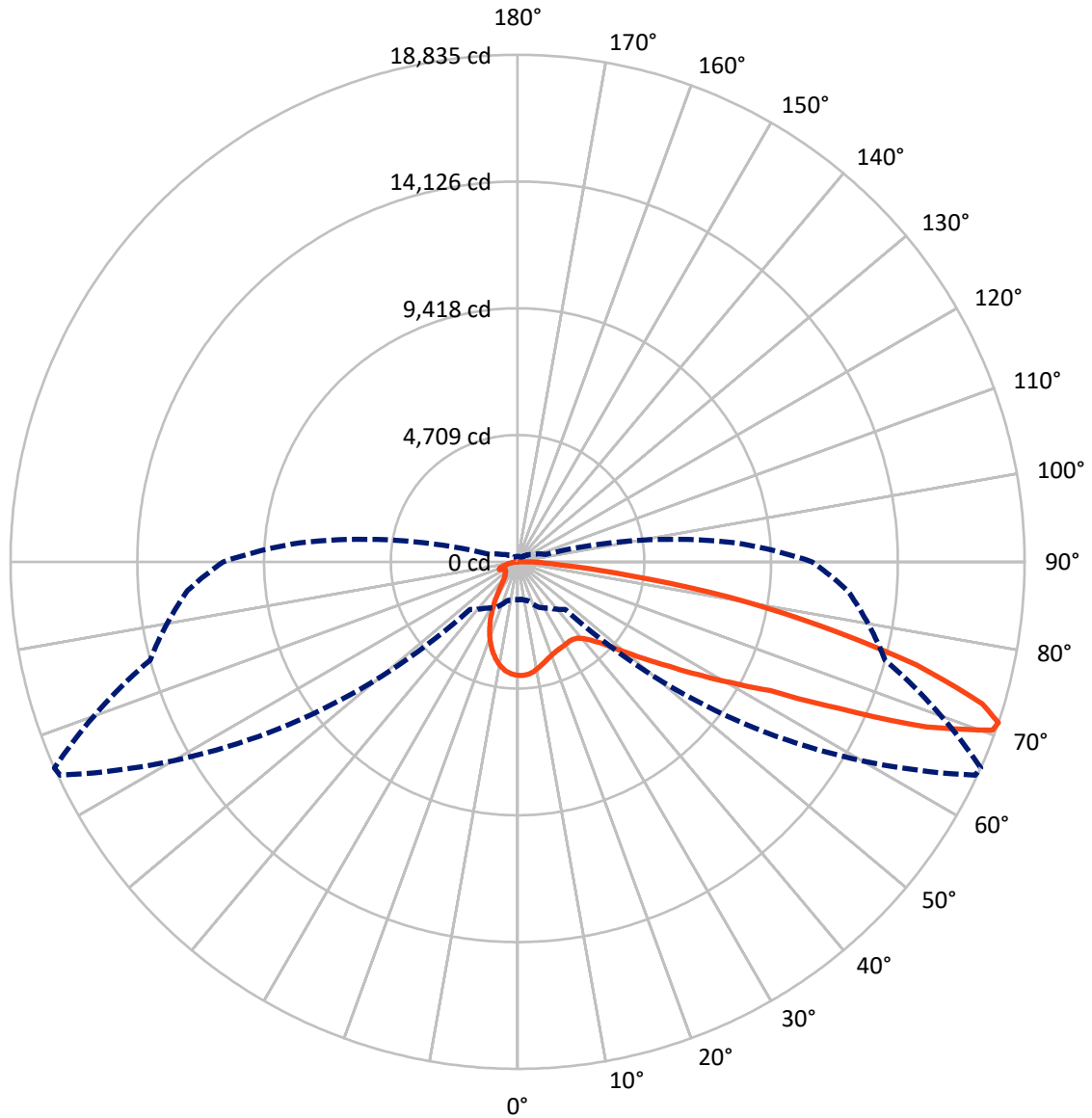
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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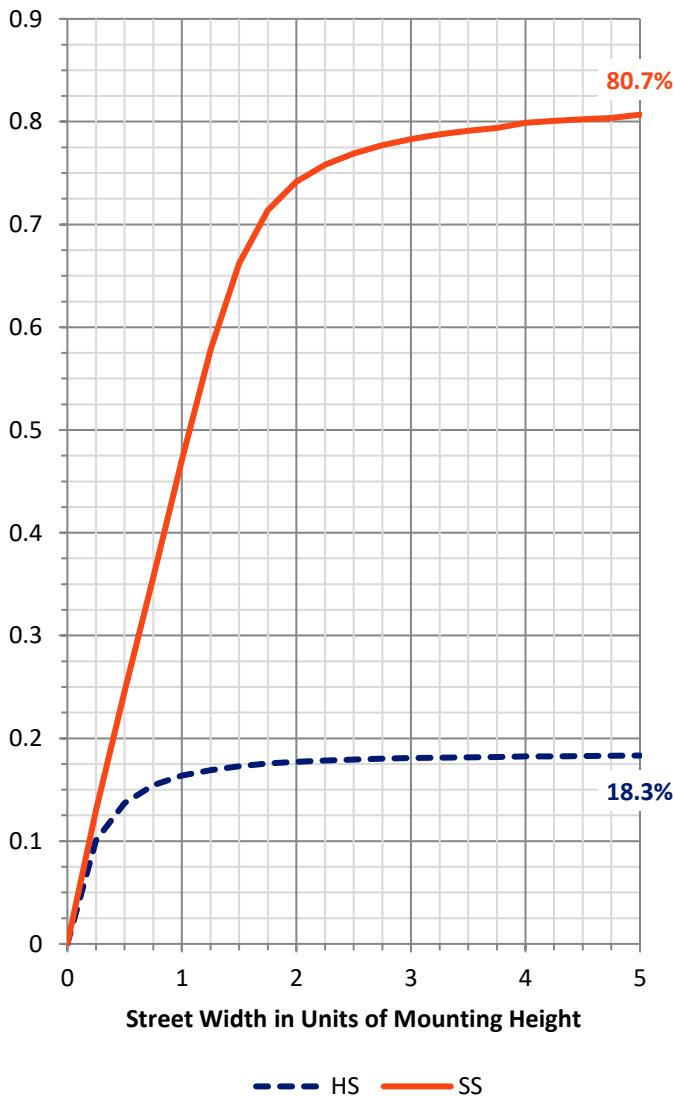
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3413.0	0.0	3413.0
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	15003.0	0.0	15003.0
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	18416.0	0.0	18416.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.3	2.0
10°-20°	890.7	4.8
20°-30°	1196.4	6.5
30°-40°	1573.8	8.5
40°-50°	2289.5	12.4
50°-60°	3576.4	19.4
60°-70°	4480.1	24.3
70°-80°	3417.3	18.6
80°-90°	620.5	3.4
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°	18416.0	100.0
0°-180°	18416.0	100.0

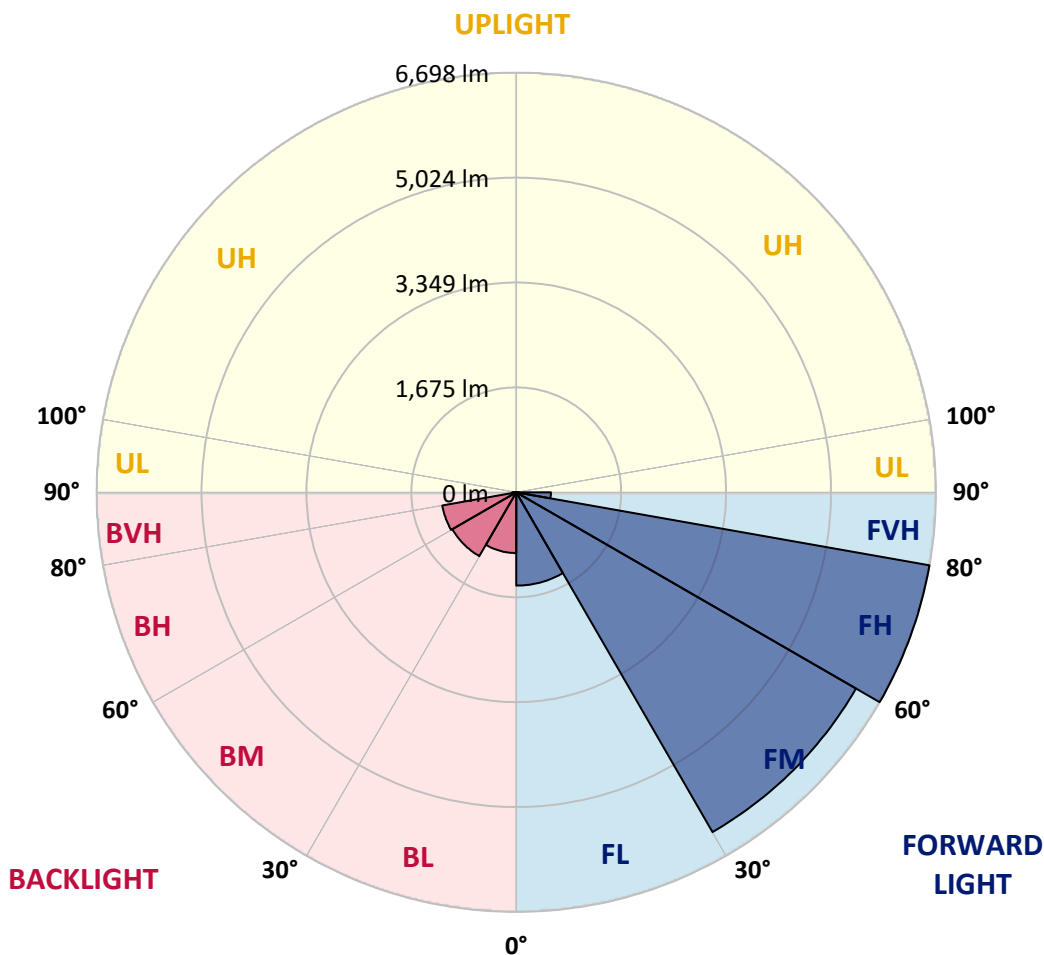


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.2	8.1			
FM (30°-60°)	6262.4	34.0			
FH (60°-80°)	6698.1	36.4			G3/7500
FVH (80°-90°)	553.4	3.0			G4/750
BL (0°-30°)	969.2	5.3	B2/1000		
BM (30°-60°)	1177.4	6.4	B2/2500		
BH (60°-80°)	1199.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	67.2	0.4			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7
2.5°	4140.5	4134.2	4153.3	4173.0	4180.6	4193.3	4212.4	4223.2	4222.6	4224.5	4218.1
5°	3865.9	3857.6	3895.7	3926.9	3986.7	4054.1	4136.1	4194.6	4195.9	4228.9	4237.8
7.5°	3605.8	3600.1	3644.0	3694.2	3763.5	3866.5	3999.4	4125.3	4132.9	4222.6	4253.7
10°	3397.3	3396.0	3438.6	3493.3	3574.0	3689.1	3841.7	4026.1	4037.5	4192.0	4256.3
12.5°	3234.5	3237.0	3273.9	3336.2	3421.4	3541.6	3706.9	3914.8	3933.3	4143.7	4241.6
15°	3114.3	3124.5	3154.4	3217.3	3301.2	3423.3	3593.1	3811.8	3839.8	4089.7	4233.4
17.5°	3045.6	3057.1	3078.1	3130.2	3209.0	3326.7	3487.5	3727.3	3752.7	4048.3	4234.0
20°	3025.3	3034.8	3046.9	3078.7	3145.5	3252.3	3404.2	3651.0	3678.3	4015.3	4240.4
22.5°	3065.3	3072.3	3073.6	3071.1	3111.8	3198.9	3343.8	3595.0	3624.2	3993.7	4244.8
25°	3151.2	3160.7	3153.7	3130.2	3116.9	3170.3	3312.7	3558.1	3587.4	3977.8	4235.9
27.5°	3280.3	3281.5	3275.8	3245.3	3182.3	3173.4	3303.2	3536.5	3564.5	3959.3	4217.5
30°	3455.7	3464.0	3453.8	3412.5	3309.5	3224.3	3314.6	3515.5	3541.0	3935.8	4187.6
32.5°	3661.1	3681.5	3680.8	3637.6	3490.1	3338.1	3361.6	3502.8	3522.5	3911.0	4151.4
35°	3874.1	3902.1	3954.2	3935.8	3753.3	3518.1	3451.9	3523.1	3536.5	3907.8	4125.9
37.5°	4095.4	4123.4	4230.8	4280.4	4066.8	3775.6	3594.4	3595.0	3601.4	3946.6	4124.0
40°	4326.8	4356.7	4518.2	4647.3	4473.1	4101.8	3823.9	3745.1	3738.1	4042.0	4161.5
42.5°	4651.1	4677.8	4871.7	5036.4	4923.9	4519.5	4141.2	3976.5	3961.9	4228.9	4281.7
45°	5061.2	5084.1	5290.1	5466.3	5408.4	4996.4	4539.8	4295.0	4292.5	4540.5	4525.2
47.5°	5548.9	5566.7	5751.7	5922.1	5943.1	5545.1	5040.9	4786.5	4745.2	4967.8	4902.3
50°	6056.9	6076.7	6202.5	6385.7	6541.4	6279.5	5685.6	5388.7	5333.4	5531.7	5436.4
52.5°	6393.3	6419.4	6528.7	6760.8	7214.2	7084.4	6448.0	6118.6	6034.7	6215.3	6142.1
55°	6243.2	6301.7	6469.0	6840.9	7752.1	8314.1	7388.4	6970.0	6875.3	7025.3	6982.1
57.5°	5561.0	5641.1	5869.4	6443.5	7827.7	9397.6	8810.1	7972.7	7905.9	7862.7	7882.4
60°	4314.1	4391.1	4674.0	5422.4	7300.6	10188.6	10949.7	9208.8	9112.1	8703.3	8721.1
62.5°	3053.3	3014.5	3208.4	3755.9	5932.3	10281.4	13384.3	10861.9	10544.0	9590.9	9512.7
65°	2328.4	2319.5	2406.6	2580.8	3593.1	9170.6	14834.6	13640.5	13143.9	10634.9	10450.5
67.5°	1913.2	1897.3	1983.2	2236.9	2313.8	5916.4	14866.4	16864.2	16376.5	11934.6	11535.3
70°	1573.0	1555.2	1635.4	1962.8	2138.3	3000.5	12511.9	18752.0	18725.9	13580.1	12354.2
71°	1410.3	1397.6	1493.6	1857.3	2100.8	2500.7	10802.8	18757.1	18835.3	14137.1	12305.9
72.5°	1148.3	1152.8	1254.5	1653.2	2072.8	2208.2	7939.6	17882.8	18048.1	14668.0	11866.5
75°	763.0	766.8	900.3	1271.7	2009.9	2160.6	4363.7	15005.6	15309.6	14350.1	10828.2
77.5°	512.5	511.2	602.1	872.4	1751.1	2160.6	2558.6	11223.1	11556.9	11418.3	8347.8
80°	352.9	350.3	414.6	602.1	1325.7	2186.6	1978.1	7865.2	7966.3	6166.3	3392.8
82.5°	216.2	218.1	270.9	425.4	902.2	1967.9	1867.4	4288.7	4178.7	1729.5	847.6
85°	124.0	123.4	172.9	288.0	579.2	1660.8	1821.0	1845.8	1693.2	520.7	306.5
87.5°	44.5	47.7	92.8	159.6	331.9	1156.6	1545.1	960.1	865.4	235.3	138.6
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°	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7	4218.7
2.5°	4213.7	4217.5	4213.0	4187.6	4166.0	4131.0	4111.3	4084.0	4075.7	4071.9	4082.0
5°	4229.6	4230.8	4193.3	4126.6	4051.5	3963.1	3899.6	3821.4	3784.5	3768.6	3778.8
7.5°	4244.2	4238.5	4156.4	4028.6	3890.0	3736.2	3599.4	3474.2	3401.1	3371.2	3373.7
10°	4246.1	4221.9	4090.3	3892.6	3677.7	3451.9	3242.1	3048.8	2926.7	2847.3	2871.4
12.5°	4226.4	4185.7	3993.0	3716.4	3418.2	3110.5	2826.9	2537.0	2362.8	2282.0	2284.5
15°	4211.1	4137.4	3873.5	3509.2	3108.6	2701.0	2313.8	1973.0	1787.3	1704.7	1665.9
17.5°	4198.4	4085.2	3734.9	3275.8	2743.0	2226.0	1760.6	1456.7	1355.0	1330.8	1320.6
20°	4180.6	4029.9	3580.4	3005.6	2326.5	1694.5	1285.7	1135.6	1136.2	1164.2	1168.0
22.5°	4155.8	3967.0	3415.7	2702.3	1879.5	1234.2	1007.8	964.6	1008.4	1061.8	1071.4
25°	4118.9	3892.6	3232.6	2367.2	1433.2	948.7	860.9	859.0	912.4	968.4	976.6
27.5°	4066.8	3795.3	3029.1	2007.3	1056.1	806.2	771.3	784.6	824.0	864.7	867.9
30°	3996.8	3682.1	2804.7	1627.7	827.9	717.9	714.0	726.1	750.3	778.9	781.4
32.5°	3919.9	3567.0	2564.9	1260.2	709.0	670.2	674.0	679.7	691.1	702.6	705.1
35°	3850.0	3449.4	2319.5	957.6	652.4	639.0	636.5	635.2	636.5	632.7	633.3
37.5°	3804.8	3352.1	2063.9	762.4	619.9	611.7	604.0	594.5	583.7	577.3	578.6
40°	3788.3	3279.6	1805.1	658.7	593.2	587.5	572.9	552.5	539.8	536.0	536.0
42.5°	3832.8	3242.1	1555.2	606.6	571.0	561.4	537.3	513.8	504.2	503.6	502.9
45°	3968.9	3257.4	1317.4	578.0	550.6	532.2	500.4	480.7	474.3	475.6	475.0
47.5°	4213.0	3353.4	1114.0	558.9	530.3	506.1	470.5	454.6	447.0	447.0	447.6
50°	4628.2	3577.8	951.8	543.0	513.1	482.0	448.9	429.2	419.0	418.4	418.4
52.5°	5232.9	3979.7	850.7	529.6	494.0	460.3	427.3	402.5	390.4	387.9	386.6
55°	5990.8	4555.7	822.8	520.7	468.6	436.8	401.2	376.4	363.1	357.3	356.7
57.5°	6838.4	5256.4	878.1	509.9	442.5	408.8	372.6	349.1	335.1	328.1	327.5
60°	7696.1	6021.3	1103.8	494.7	420.9	378.3	343.3	321.7	307.7	300.1	298.8
62.5°	8555.1	6827.6	1564.8	493.4	405.7	349.1	313.5	295.0	281.7	273.4	271.5
65°	9524.1	7710.1	2088.7	527.1	400.6	322.4	282.9	268.3	256.9	249.2	248.6
67.5°	10636.8	8706.5	2038.5	596.4	417.7	298.2	254.3	242.9	234.6	228.3	227.6
70°	11158.9	8550.7	1267.2	645.4	441.9	274.7	227.0	218.7	212.4	207.9	206.0
71°	10940.1	8118.9	1062.5	639.6	439.4	264.5	216.2	209.8	203.5	199.7	197.7
72.5°	10343.7	7404.3	886.4	595.1	410.7	246.1	202.2	195.8	190.1	185.7	184.4
75°	9281.9	6612.7	709.6	475.6	327.5	207.9	177.4	170.4	166.0	163.4	160.9
77.5°	6823.1	4719.1	548.7	375.8	241.0	169.8	151.3	146.2	141.8	138.0	136.1
80°	2613.9	1828.0	369.4	280.4	176.8	134.2	122.1	119.5	115.1	112.5	112.5
82.5°	703.9	546.2	197.1	169.8	118.3	97.9	93.5	92.2	88.4	83.3	83.9
85°	284.9	241.0	110.6	93.5	72.5	57.9	62.9	63.6	59.1	52.8	53.4
87.5°	125.3	102.4	61.7	41.3	31.8	22.3	28.6	28.6	26.1	21.6	19.7
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)