

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: LUMARK

Report Number: P233388

Luminaire Tested: **NFFLD-C25-D-UNV-66-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-16-1196-1)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C25-D-UNV-66-7060  
Description: NIGHT FALCON LED FLOOD LIGHT  
Light Source: (2) 5700K CCT, 72 CRI LEDS  
Ballast/Driver: HATCH  
LC100-1050Z-UNV-I

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10332.4 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

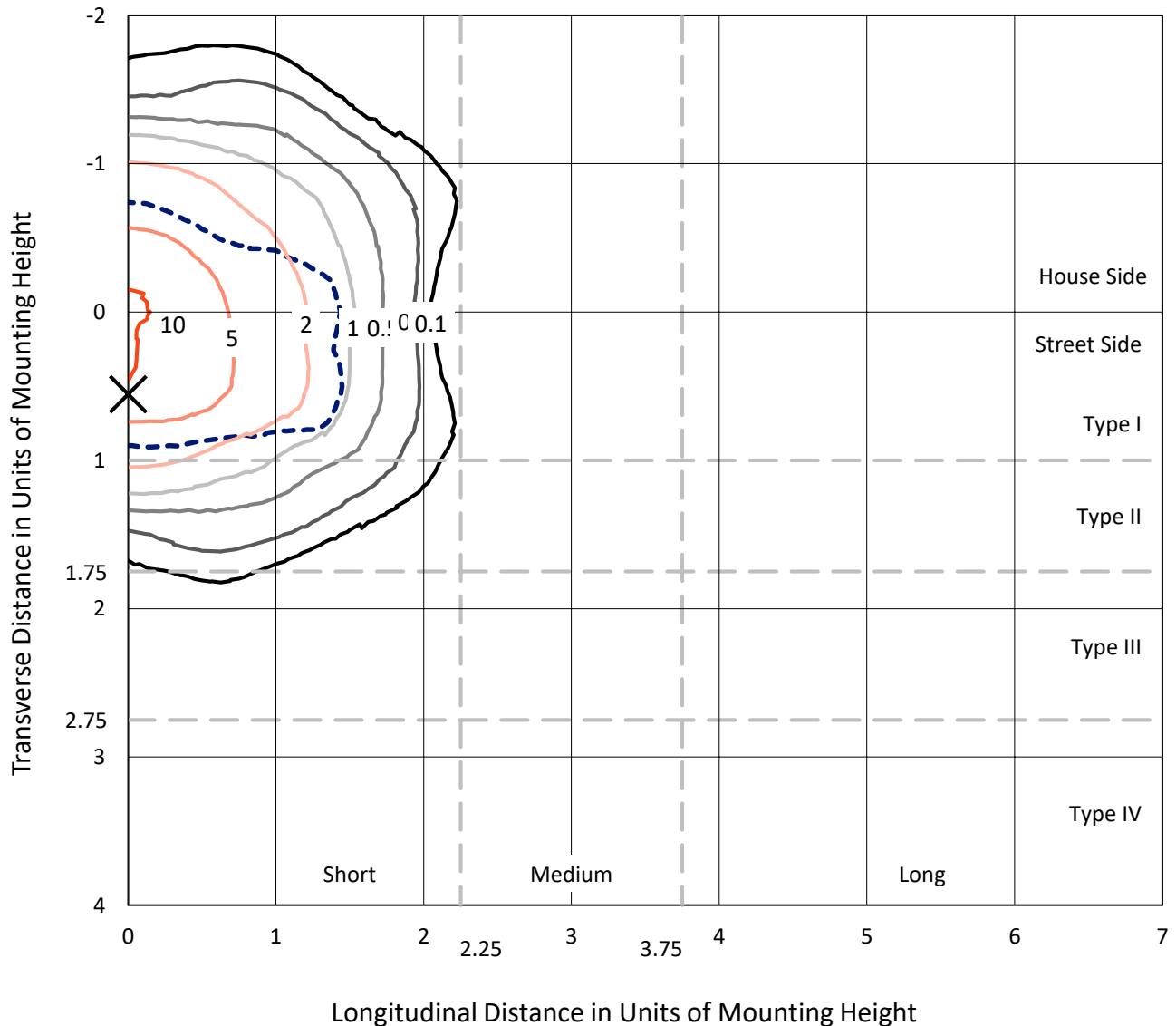


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### Iso-Footcandle Lines of Horizontal Illumination

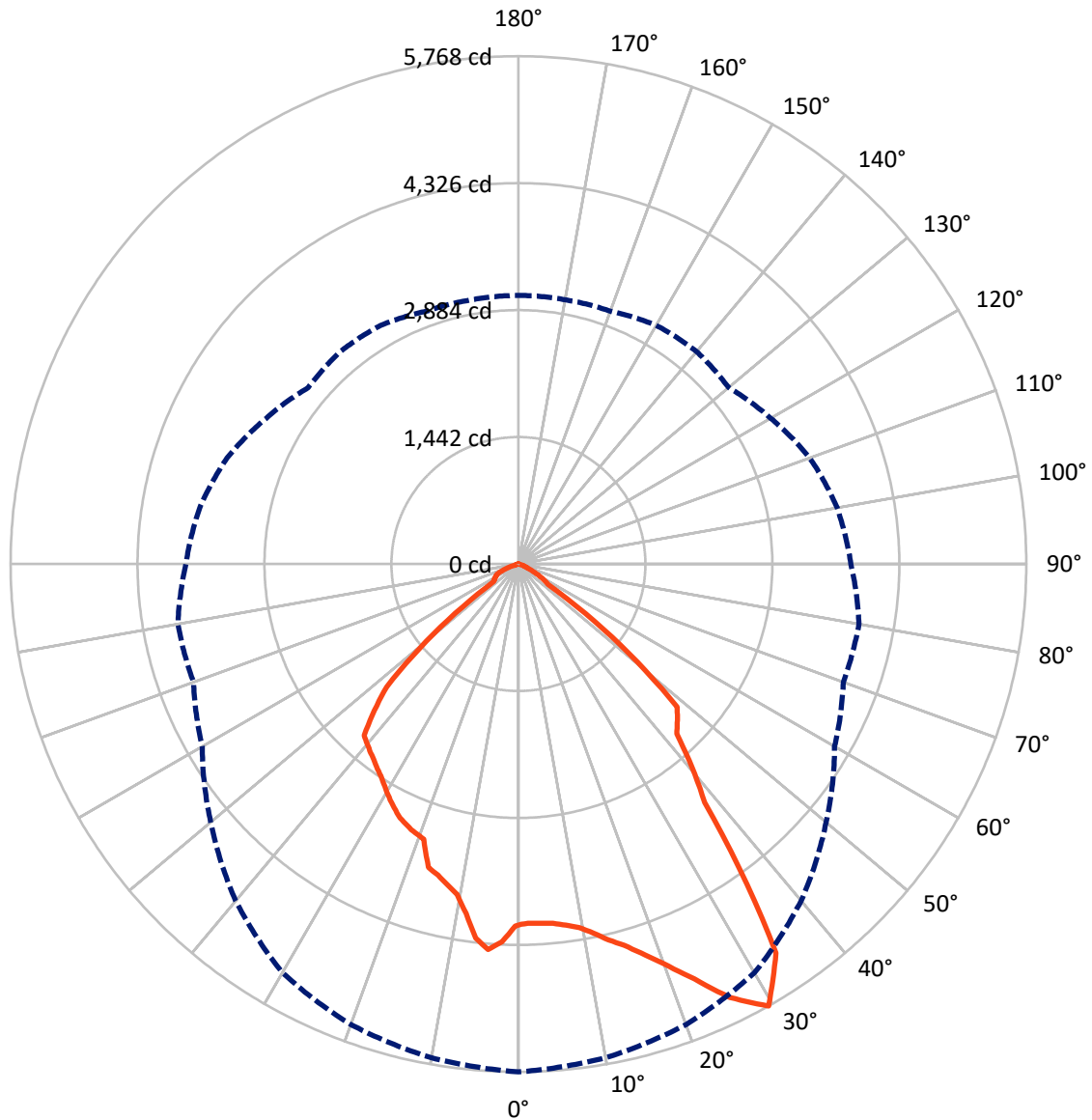
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 29-Deg Vertical

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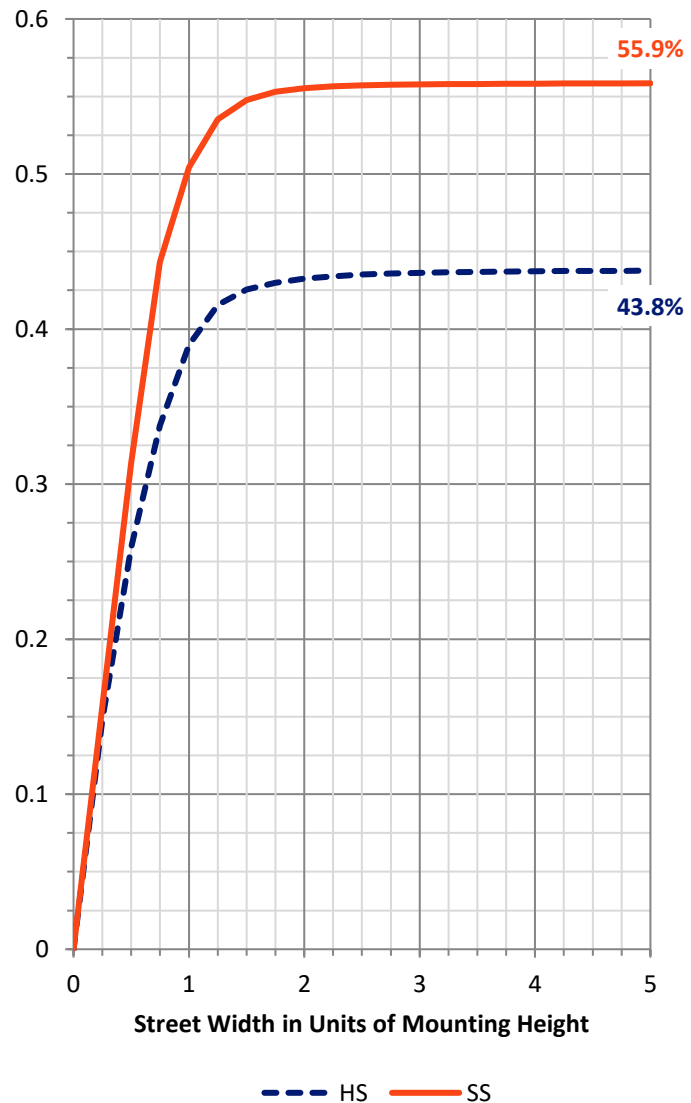
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4563.5	0.0	4563.5
	% Fixture	44.2	0.0	44.2
<b>Street Side</b>	Lumens	5769.0	0.0	5769.0
	% Fixture	55.8	0.0	55.8
<b>Total</b>	Lumens	10332.4	0.0	10332.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.3	3.9
10°-20°	1154.7	11.2
20°-30°	1864.7	18.0
30°-40°	2312.7	22.4
40°-50°	2297.0	22.2
50°-60°	1622.2	15.7
60°-70°	672.7	6.5
70°-80°	139.0	1.3
80°-90°	18.9	0.2
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°	10332.4	100.0
0°-180°	10332.4	100.0



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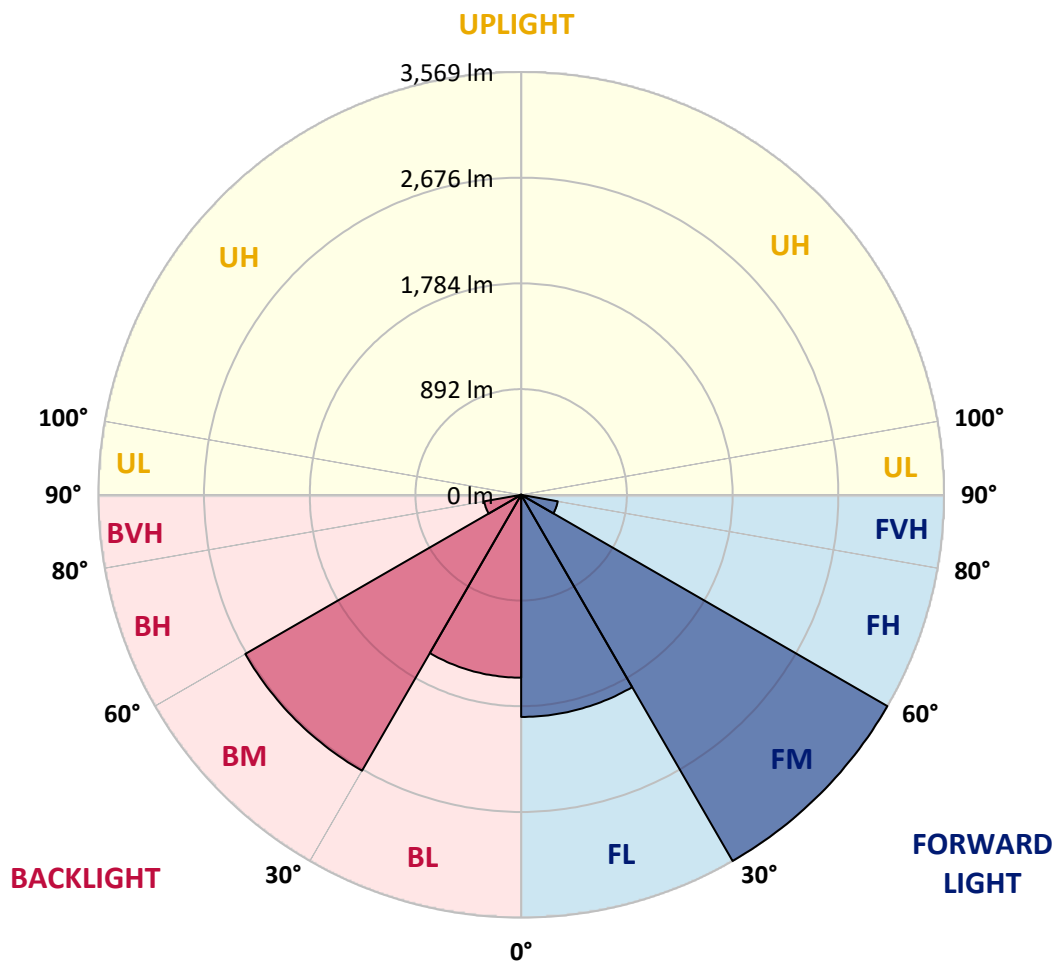
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.4	18.1			
FM (30°-60°)	3568.6	34.5			
FH (60°-80°)	313.5	3.0			G0/660
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	1543.0	14.9	B3/2500		
BM (30°-60°)	2688.6	26.0	B3/5000		
BH (60°-80°)	316.9	3.1	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
1°	4082.5	4083.0	4083.7	4084.6	4085.7	4087.0	4088.4	4089.9	4091.5	4093.0	4096.8
3°	4086.3	4085.8	4085.4	4086.2	4087.0	4087.7	4088.3	4088.8	4094.6	4100.7	4114.9
5°	4098.8	4098.3	4097.0	4095.3	4093.6	4091.8	4092.0	4093.5	4096.8	4111.2	4141.4
7°	4138.0	4136.6	4129.0	4118.9	4107.3	4099.9	4097.6	4099.9	4106.6	4129.4	4189.2
9°	4185.9	4183.2	4170.4	4153.5	4131.3	4113.2	4102.4	4101.6	4112.4	4148.5	4236.5
11°	4277.8	4270.9	4243.1	4200.2	4156.3	4125.7	4106.4	4102.6	4120.4	4181.1	4266.7
13°	4390.7	4377.1	4335.8	4268.9	4198.5	4135.8	4102.7	4093.7	4119.5	4203.1	4254.5
15°	4493.1	4480.8	4436.1	4350.4	4257.2	4156.2	4096.0	4086.3	4118.3	4211.7	4206.6
17°	4631.0	4608.4	4547.1	4446.4	4334.6	4190.7	4098.1	4091.8	4136.7	4215.6	4137.5
19.5°	4830.1	4792.3	4705.2	4572.4	4420.7	4270.2	4128.0	4101.6	4172.0	4282.6	4051.3
22.5°	5119.2	5061.6	4942.2	4763.4	4541.9	4332.3	4158.2	4076.5	4136.9	4186.8	3921.9
25.5°	5476.2	5392.0	5242.1	5022.3	4742.6	4458.1	4154.7	3993.3	4026.1	3873.8	3770.1
29°	5768.1	5694.6	5565.9	5360.2	4994.7	4561.6	4146.4	3926.1	3927.1	3776.2	3675.9
33°	5299.1	5346.0	5448.2	5618.8	5247.8	4622.0	4176.7	3960.5	3709.3	3527.3	3417.8
37.5°	3435.4	3643.3	4136.0	4840.3	5191.2	4804.6	4225.8	3964.1	3643.1	3413.4	3225.0
42.5°	2637.1	2705.5	2890.4	3149.3	3949.2	4668.7	4389.4	3998.8	3519.5	3376.1	3111.2
47.5°	2424.6	2431.1	2431.8	2415.3	2643.8	3621.8	4533.0	4021.0	3265.9	3164.5	3067.5
55°	413.5	634.3	1003.2	1355.2	1880.5	1977.9	3306.9	3279.5	2775.4	2948.2	2723.5
65°	125.4	108.9	234.9	190.0	272.4	557.4	779.5	822.5	505.0	113.0	512.7
75°	14.4	17.3	29.6	24.8	29.2	24.9	43.5	50.1	50.0	86.1	80.9
85°	0.0	10.0	14.4	14.9	16.3	15.9	18.6	19.7	18.7	21.1	21.6
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
1°	4100.4	4103.7	4106.6	4108.9	4110.7	4111.9	4112.4	4112.2	4112.4	4111.9	4110.7
3°	4129.5	4169.4	4205.2	4235.8	4260.3	4277.9	4289.9	4294.0	4289.9	4277.9	4260.3
5°	4202.5	4265.6	4312.3	4334.2	4355.4	4374.5	4388.8	4391.7	4388.8	4374.5	4355.4
7°	4273.8	4324.9	4347.7	4342.1	4308.5	4288.3	4277.8	4275.9	4277.8	4288.3	4308.5
9°	4321.2	4326.5	4279.2	4213.4	4136.8	4076.2	4033.9	4013.6	4033.9	4076.2	4136.8
11°	4289.9	4234.9	4124.4	4025.5	3939.9	3882.0	3840.5	3818.3	3840.5	3882.0	3939.9
13°	4210.1	4064.8	3954.9	3871.1	3799.0	3764.9	3742.2	3730.2	3742.2	3764.9	3799.0
15°	4091.4	3925.0	3844.7	3774.8	3717.6	3677.0	3657.8	3650.8	3657.8	3677.0	3717.6
17°	3976.1	3851.6	3783.1	3704.5	3631.3	3608.9	3605.3	3594.3	3605.3	3608.9	3631.3
19.5°	3897.5	3804.0	3713.3	3597.9	3554.7	3416.5	3333.0	3304.3	3333.0	3416.5	3554.7
22.5°	3825.3	3735.9	3576.4	3449.5	3278.3	3254.9	3252.8	3252.6	3252.8	3254.9	3278.3
25.5°	3696.8	3580.0	3394.6	3227.1	3231.3	3186.6	3177.6	3181.8	3177.6	3186.6	3231.3
29°	3521.3	3309.1	3116.6	3148.5	3129.6	3055.7	3047.3	3050.6	3047.3	3055.7	3129.6
33°	3276.9	3060.9	2962.6	2982.0	2912.9	2880.5	2889.8	2886.0	2889.8	2880.5	2912.9
37.5°	3043.0	2891.6	2802.3	2734.9	2719.0	2727.4	2750.4	2749.1	2750.4	2727.4	2719.0
42.5°	2886.6	2761.9	2592.7	2521.3	2550.5	2583.8	2611.8	2618.0	2611.8	2583.8	2550.5
47.5°	2819.9	2669.7	2366.0	2340.8	2327.8	2154.8	2037.0	2046.5	2037.0	2154.8	2327.8
55°	2486.9	2527.5	2049.6	1732.5	1134.6	694.4	423.0	344.6	423.0	694.4	1134.6
65°	838.0	673.4	330.5	247.0	329.1	287.6	269.1	269.0	269.1	287.6	329.1
75°	106.6	78.0	75.3	56.7	75.6	58.3	36.8	29.7	36.8	58.3	75.6
85°	20.5	19.1	19.4	17.9	17.4	19.5	16.8	1.0	16.8	19.5	17.4
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):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
1°	4108.9	4106.6	4103.7	4100.4	4096.8	4093.0	4091.5	4089.9	4088.4	4087.0	4085.7
3°	4235.8	4205.2	4169.4	4129.5	4114.9	4100.7	4094.6	4088.8	4088.3	4087.7	4087.0
5°	4334.2	4312.3	4265.6	4202.5	4141.4	4111.2	4096.8	4093.5	4092.0	4091.8	4093.6
7°	4342.1	4347.7	4324.9	4273.8	4189.2	4129.4	4106.6	4099.9	4097.6	4099.9	4107.3
9°	4213.4	4279.2	4326.5	4321.2	4236.5	4148.5	4112.4	4101.6	4102.4	4113.2	4131.3
11°	4025.5	4124.4	4234.9	4289.9	4266.7	4181.1	4120.4	4102.6	4106.4	4125.7	4156.3
13°	3871.1	3954.9	4064.8	4210.1	4254.5	4203.1	4119.5	4093.7	4102.7	4135.8	4198.5
15°	3774.8	3844.7	3925.0	4091.4	4206.6	4211.7	4118.3	4086.3	4096.0	4156.2	4257.2
17°	3704.5	3783.1	3851.6	3976.1	4137.5	4215.6	4136.7	4091.8	4098.1	4190.7	4334.6
19.5°	3597.9	3713.3	3804.0	3897.5	4051.3	4282.6	4172.0	4101.6	4128.0	4270.2	4420.7
22.5°	3449.5	3576.4	3735.9	3825.3	3921.9	4186.8	4136.9	4076.5	4158.2	4332.3	4541.9
25.5°	3227.1	3394.6	3580.0	3696.8	3770.1	3873.8	4026.1	3993.3	4154.7	4458.1	4742.6
29°	3148.5	3116.6	3309.1	3521.3	3675.9	3776.2	3927.1	3926.1	4146.4	4561.6	4994.7
33°	2982.0	2962.6	3060.9	3276.9	3417.8	3527.3	3709.3	3960.5	4176.7	4622.0	5247.8
37.5°	2734.9	2802.3	2891.6	3043.0	3225.0	3413.4	3643.1	3964.1	4225.8	4804.6	5191.2
42.5°	2521.3	2592.7	2761.9	2886.6	3111.2	3376.1	3519.5	3998.8	4389.4	4668.7	3949.2
47.5°	2340.8	2366.0	2669.7	2819.9	3067.5	3164.5	3265.9	4021.0	4533.0	3621.8	2643.8
55°	1732.5	2049.6	2527.5	2486.9	2723.5	2948.2	2775.4	3279.5	3306.9	1977.9	1880.5
65°	247.0	330.5	673.4	838.0	512.7	113.0	505.0	822.5	779.5	557.4	272.4
75°	56.7	75.3	78.0	106.6	80.9	86.1	50.0	50.1	43.5	24.9	29.2
85°	17.9	19.4	19.1	20.5	21.6	21.1	18.7	19.7	18.6	15.9	16.3
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):**

	330°	340°	350°	360°
0°	4091.1	4091.1	4091.1	4091.1
1°	4084.6	4083.7	4083.0	4082.5
3°	4086.2	4085.4	4085.8	4086.3
5°	4095.3	4097.0	4098.3	4098.8
7°	4118.9	4129.0	4136.6	4138.0
9°	4153.5	4170.4	4183.2	4185.9
11°	4200.2	4243.1	4270.9	4277.8
13°	4268.9	4335.8	4377.1	4390.7
15°	4350.4	4436.1	4480.8	4493.1
17°	4446.4	4547.1	4608.4	4631.0
19.5°	4572.4	4705.2	4792.3	4830.1
22.5°	4763.4	4942.2	5061.6	5119.2
25.5°	5022.3	5242.1	5392.0	5476.2
29°	5360.2	5565.9	5694.6	5768.1
33°	5618.8	5448.2	5346.0	5299.1
37.5°	4840.3	4136.0	3643.3	3435.4
42.5°	3149.3	2890.4	2705.5	2637.1
47.5°	2415.3	2431.8	2431.1	2424.6
55°	1355.2	1003.2	634.3	413.5
65°	190.0	234.9	108.9	125.4
75°	24.8	29.6	17.3	14.4
85°	14.9	14.4	10.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)