

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: P233386

Luminaire Tested: **NFFLD-C25-D-UNV-66-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233386
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-66-7030
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 3000K CCT, 72 CRI LEDS
Ballast/Driver: HATCH
LC100-1050Z-UNV-I

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10236.4 lumens
Efficiency: N/A
Efficacy: 120.4 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_{in}): 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

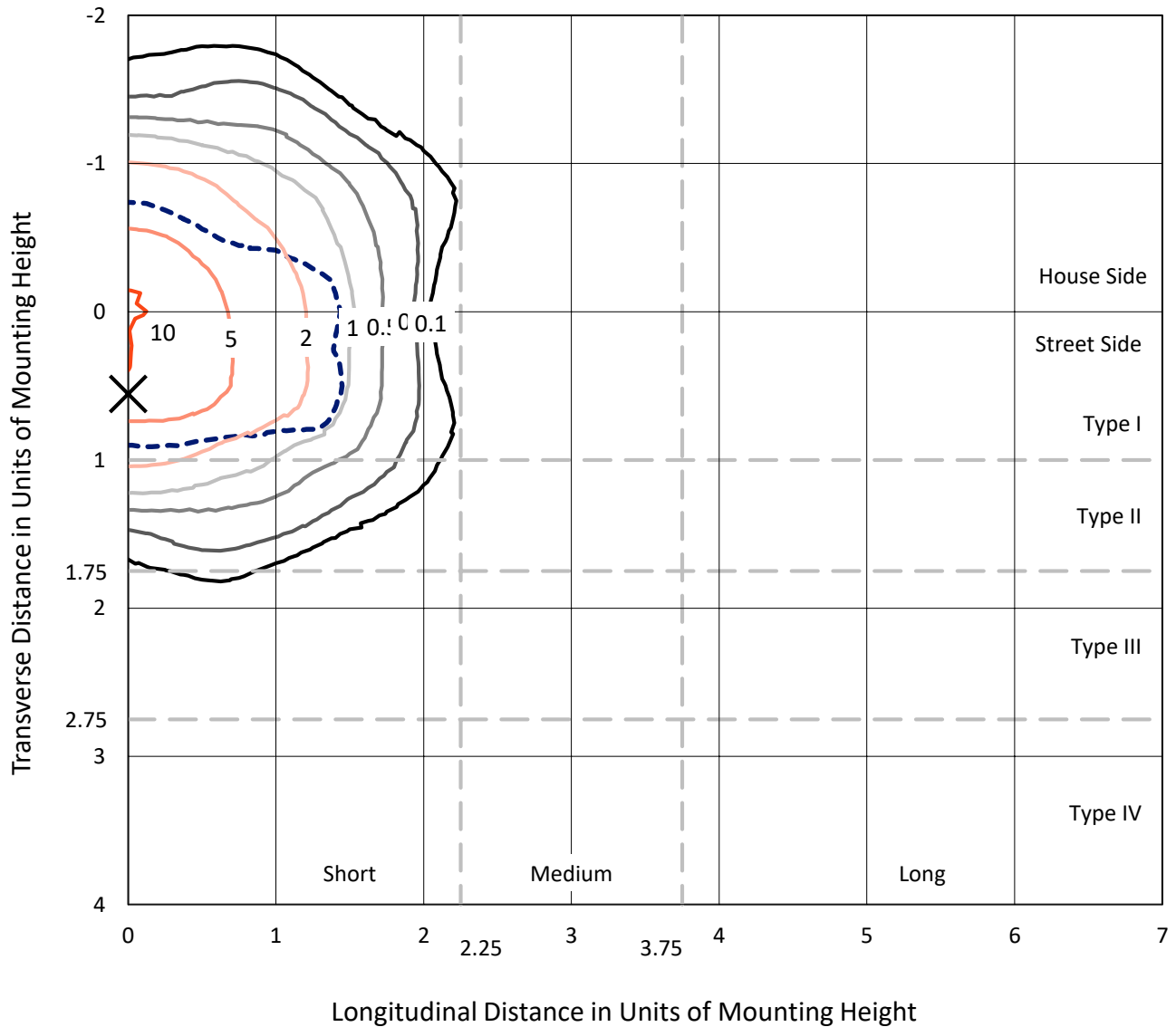


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Iso-Footcandle Lines of Horizontal Illumination

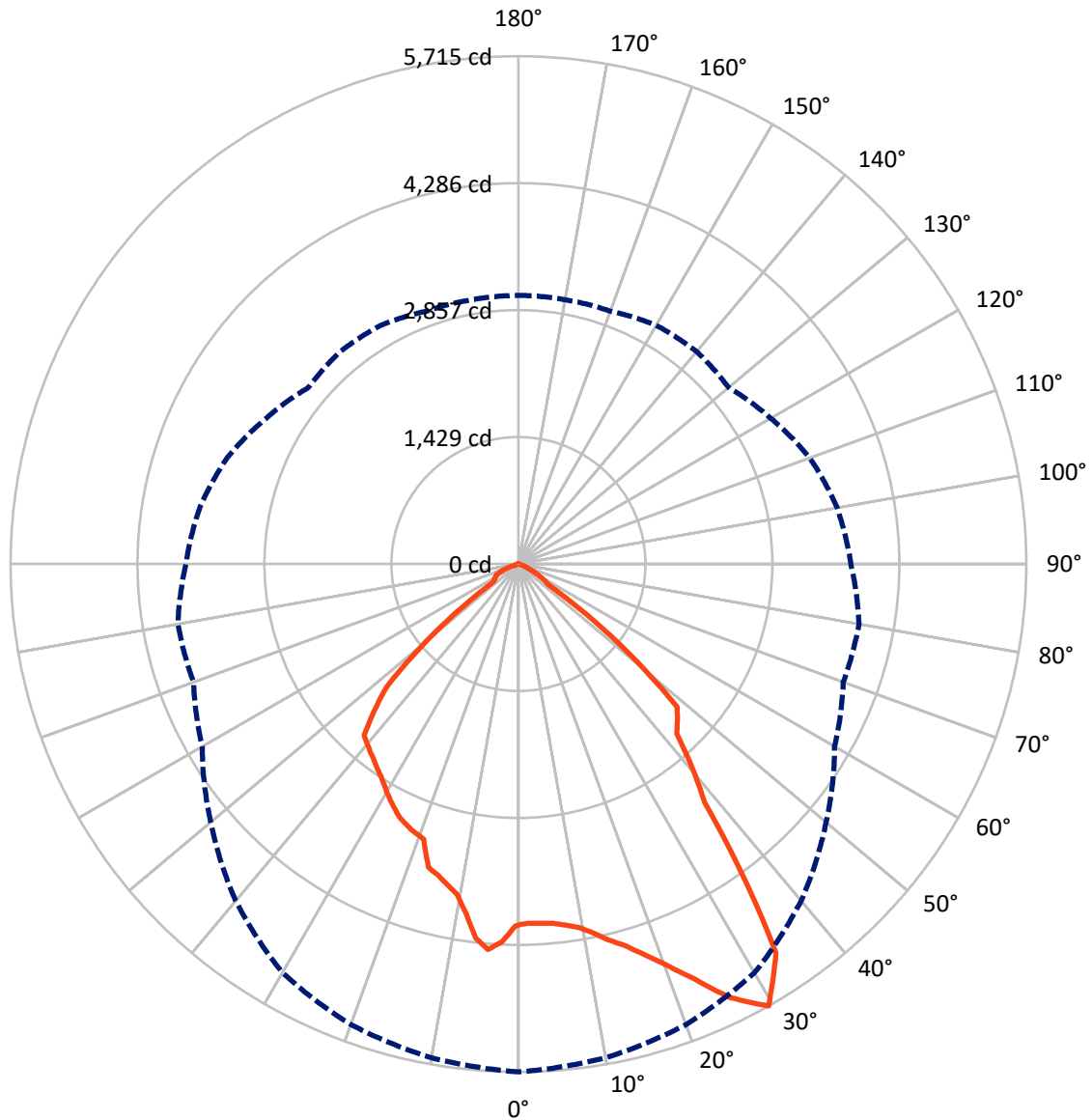
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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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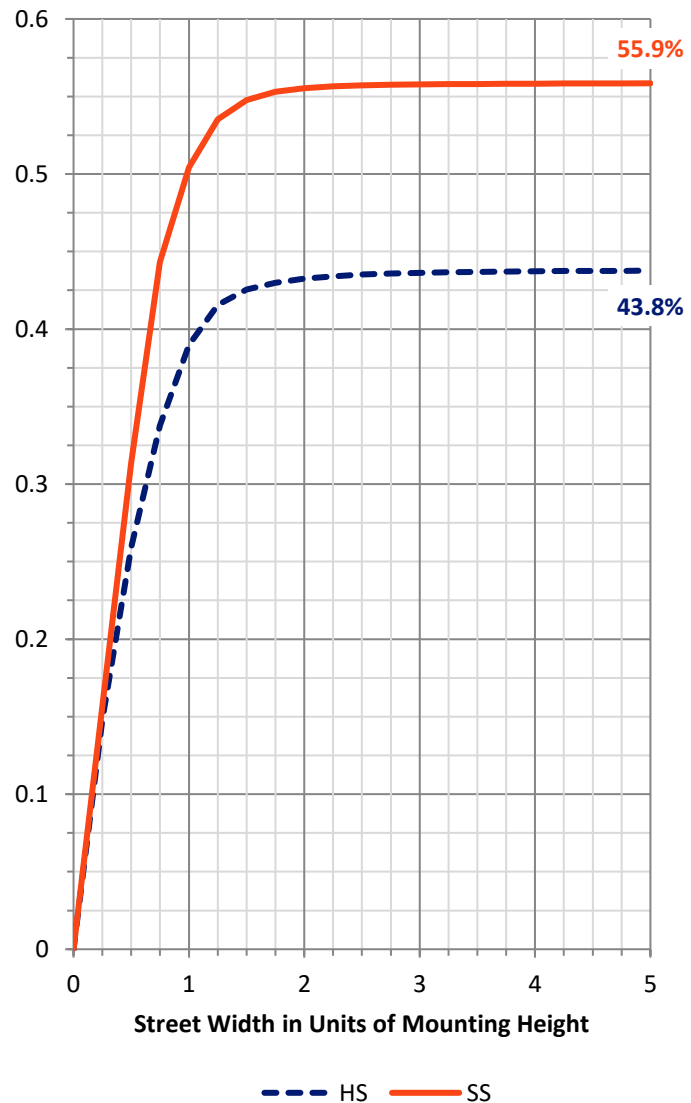
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4521.0	0.0	4521.0
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	5715.3	0.0	5715.3
	% Fixture	55.8	0.0	55.8
Total	Lumens	10236.4	0.0	10236.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.6	3.9
10°-20°	1143.9	11.2
20°-30°	1847.3	18.0
30°-40°	2291.2	22.4
40°-50°	2275.6	22.2
50°-60°	1607.1	15.7
60°-70°	666.4	6.5
70°-80°	137.7	1.3
80°-90°	18.7	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°	10236.4	100.0
0°-180°	10236.4	100.0



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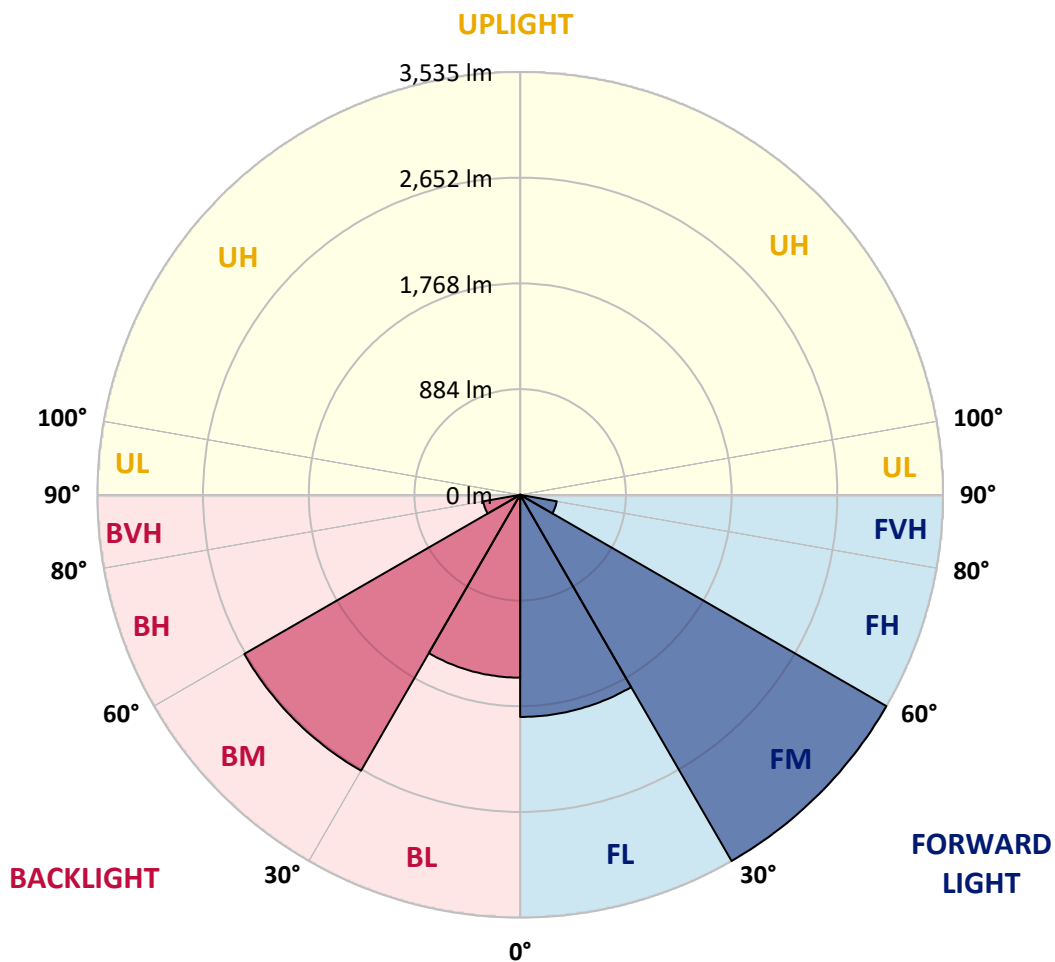
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1857.0	18.1			
FM	(30°-60°)	3535.5	34.5			
FH	(60°-80°)	310.6	3.0			G0/660
FVH	(80°-90°)	7.6	0.1			G0/10
BL	(0°-30°)	1528.6	14.9	B3/2500		
BM	(30°-60°)	2663.7	26.0	B3/5000		
BH	(60°-80°)	313.9	3.1	B1/500		G1/500
BVH	(80°-90°)	10.8	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°	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1
1°	4044.5	4045.0	4045.7	4046.6	4047.7	4049.0	4050.4	4051.9	4053.5	4055.0	4058.8
3°	4048.3	4047.8	4047.4	4048.2	4049.0	4049.7	4050.3	4050.8	4056.5	4062.6	4076.7
5°	4060.7	4060.2	4058.9	4057.2	4055.5	4053.8	4054.0	4055.5	4058.7	4073.0	4102.9
7°	4099.5	4098.1	4090.6	4080.6	4069.2	4061.8	4059.6	4061.8	4068.4	4091.0	4150.3
9°	4147.0	4144.3	4131.6	4114.9	4092.9	4075.0	4064.2	4063.5	4074.1	4110.0	4197.1
11°	4238.0	4231.2	4203.7	4161.2	4117.7	4087.4	4068.2	4064.5	4082.1	4142.2	4227.0
13°	4349.9	4336.3	4295.5	4229.2	4159.5	4097.4	4064.6	4055.7	4081.2	4164.0	4214.9
15°	4451.4	4439.2	4394.9	4310.0	4217.5	4117.6	4057.9	4048.3	4080.0	4172.6	4167.4
17°	4587.9	4565.5	4504.8	4405.1	4294.3	4151.8	4060.0	4053.8	4098.3	4176.4	4099.0
19.5°	4785.2	4747.7	4661.5	4530.0	4379.6	4230.5	4089.6	4063.5	4133.3	4242.7	4013.7
22.5°	5071.6	5014.5	4896.3	4719.1	4499.6	4292.1	4119.6	4038.6	4098.5	4147.9	3885.4
25.5°	5425.3	5341.9	5193.4	4975.6	4698.5	4416.7	4116.1	3956.2	3988.6	3837.8	3735.0
29°	5714.5	5641.7	5514.2	5310.3	4948.3	4519.2	4107.9	3889.6	3890.6	3741.1	3641.6
33°	5249.8	5296.3	5397.5	5566.6	5199.0	4579.1	4137.8	3923.7	3674.9	3494.5	3386.0
37.5°	3403.5	3609.4	4097.5	4795.3	5142.9	4759.9	4186.6	3927.3	3609.2	3381.7	3195.0
42.5°	2612.6	2680.3	2863.6	3120.0	3912.5	4625.3	4348.6	3961.6	3486.8	3344.7	3082.2
47.5°	2402.1	2408.5	2409.2	2392.9	2619.2	3588.2	4490.7	3983.6	3235.5	3135.1	3038.9
55°	409.7	628.5	993.9	1342.5	1863.1	1959.6	3276.1	3249.0	2749.6	2920.8	2698.2
65°	124.2	107.8	232.8	188.2	269.9	552.3	772.3	814.9	500.3	111.9	508.0
75°	14.2	17.2	29.3	24.5	28.9	24.7	43.1	49.7	49.5	85.3	80.1
85°	0.0	9.9	14.2	14.7	16.1	15.7	18.4	19.5	18.5	20.9	21.4
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1
1°	4062.3	4065.6	4068.4	4070.7	4072.5	4073.6	4074.1	4073.9	4074.1	4073.6	4072.5
3°	4091.2	4130.7	4166.1	4196.4	4220.7	4238.2	4250.0	4254.1	4250.0	4238.2	4220.7
5°	4163.5	4226.0	4272.2	4293.9	4315.0	4333.8	4348.0	4350.8	4348.0	4333.8	4315.0
7°	4234.1	4284.7	4307.3	4301.7	4268.5	4248.4	4238.0	4236.1	4238.0	4248.4	4268.5
9°	4281.1	4286.3	4239.4	4174.2	4098.3	4038.3	3996.4	3976.3	3996.4	4038.3	4098.3
11°	4250.0	4195.5	4086.0	3988.1	3903.3	3845.9	3804.8	3782.8	3804.8	3845.9	3903.3
13°	4171.0	4027.0	3918.2	3835.1	3763.7	3729.9	3707.4	3695.6	3707.4	3729.9	3763.7
15°	4053.4	3888.4	3808.9	3739.8	3683.0	3642.8	3623.8	3616.9	3623.8	3642.8	3683.0
17°	3939.2	3815.7	3747.9	3670.0	3597.5	3575.4	3571.7	3560.9	3571.7	3575.4	3597.5
19.5°	3861.3	3768.7	3678.9	3564.5	3521.7	3384.7	3302.0	3273.6	3302.0	3384.7	3521.7
22.5°	3789.7	3701.2	3543.1	3417.4	3247.8	3224.6	3222.6	3222.4	3222.6	3224.6	3247.8
25.5°	3662.4	3546.8	3363.0	3197.1	3201.2	3157.0	3148.1	3152.2	3148.1	3157.0	3201.2
29°	3488.6	3278.3	3087.6	3119.2	3100.4	3027.3	3019.0	3022.3	3019.0	3027.3	3100.4
33°	3246.4	3032.5	2935.1	2954.3	2885.8	2853.7	2863.0	2859.2	2863.0	2853.7	2885.8
37.5°	3014.7	2864.6	2776.3	2709.4	2693.7	2702.0	2724.9	2723.5	2724.9	2702.0	2693.7
42.5°	2859.7	2736.2	2568.6	2497.9	2526.8	2559.8	2587.5	2593.6	2587.5	2559.8	2526.8
47.5°	2793.7	2644.8	2344.0	2319.1	2306.2	2134.8	2018.1	2027.5	2018.1	2134.8	2306.2
55°	2463.8	2504.0	2030.5	1716.5	1124.1	688.0	419.1	341.4	419.1	688.0	1124.1
65°	830.2	667.1	327.5	244.7	326.0	285.0	266.6	266.5	266.6	285.0	326.0
75°	105.6	77.2	74.6	56.1	74.9	57.8	36.4	29.4	36.4	57.8	74.9
85°	20.3	18.9	19.2	17.7	17.2	19.4	16.7	0.9	16.7	19.4	17.2
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°	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1	4053.1
1°	4070.7	4068.4	4065.6	4062.3	4058.8	4055.0	4053.5	4051.9	4050.4	4049.0	4047.7
3°	4196.4	4166.1	4130.7	4091.2	4076.7	4062.6	4056.5	4050.8	4050.3	4049.7	4049.0
5°	4293.9	4272.2	4226.0	4163.5	4102.9	4073.0	4058.7	4055.5	4054.0	4053.8	4055.5
7°	4301.7	4307.3	4284.7	4234.1	4150.3	4091.0	4068.4	4061.8	4059.6	4061.8	4069.2
9°	4174.2	4239.4	4286.3	4281.1	4197.1	4110.0	4074.1	4063.5	4064.2	4075.0	4092.9
11°	3988.1	4086.0	4195.5	4250.0	4227.0	4142.2	4082.1	4064.5	4068.2	4087.4	4117.7
13°	3835.1	3918.2	4027.0	4171.0	4214.9	4164.0	4081.2	4055.7	4064.6	4097.4	4159.5
15°	3739.8	3808.9	3888.4	4053.4	4167.4	4172.6	4080.0	4048.3	4057.9	4117.6	4217.5
17°	3670.0	3747.9	3815.7	3939.2	4099.0	4176.4	4098.3	4053.8	4060.0	4151.8	4294.3
19.5°	3564.5	3678.9	3768.7	3861.3	4013.7	4242.7	4133.3	4063.5	4089.6	4230.5	4379.6
22.5°	3417.4	3543.1	3701.2	3789.7	3885.4	4147.9	4098.5	4038.6	4119.6	4292.1	4499.6
25.5°	3197.1	3363.0	3546.8	3662.4	3735.0	3837.8	3988.6	3956.2	4116.1	4416.7	4698.5
29°	3119.2	3087.6	3278.3	3488.6	3641.6	3741.1	3890.6	3889.6	4107.9	4519.2	4948.3
33°	2954.3	2935.1	3032.5	3246.4	3386.0	3494.5	3674.9	3923.7	4137.8	4579.1	5199.0
37.5°	2709.4	2776.3	2864.6	3014.7	3195.0	3381.7	3609.2	3927.3	4186.6	4759.9	5142.9
42.5°	2497.9	2568.6	2736.2	2859.7	3082.2	3344.7	3486.8	3961.6	4348.6	4625.3	3912.5
47.5°	2319.1	2344.0	2644.8	2793.7	3038.9	3135.1	3235.5	3983.6	4490.7	3588.2	2619.2
55°	1716.5	2030.5	2504.0	2463.8	2698.2	2920.8	2749.6	3249.0	3276.1	1959.6	1863.1
65°	244.7	327.5	667.1	830.2	508.0	111.9	500.3	814.9	772.3	552.3	269.9
75°	56.1	74.6	77.2	105.6	80.1	85.3	49.5	49.7	43.1	24.7	28.9
85°	17.7	19.2	18.9	20.3	21.4	20.9	18.5	19.5	18.4	15.7	16.1
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):

	330°	340°	350°	360°
0°	4053.1	4053.1	4053.1	4053.1
1°	4046.6	4045.7	4045.0	4044.5
3°	4048.2	4047.4	4047.8	4048.3
5°	4057.2	4058.9	4060.2	4060.7
7°	4080.6	4090.6	4098.1	4099.5
9°	4114.9	4131.6	4144.3	4147.0
11°	4161.2	4203.7	4231.2	4238.0
13°	4229.2	4295.5	4336.3	4349.9
15°	4310.0	4394.9	4439.2	4451.4
17°	4405.1	4504.8	4565.5	4587.9
19.5°	4530.0	4661.5	4747.7	4785.2
22.5°	4719.1	4896.3	5014.5	5071.6
25.5°	4975.6	5193.4	5341.9	5425.3
29°	5310.3	5514.2	5641.7	5714.5
33°	5566.6	5397.5	5296.3	5249.8
37.5°	4795.3	4097.5	3609.4	3403.5
42.5°	3120.0	2863.6	2680.3	2612.6
47.5°	2392.9	2409.2	2408.5	2402.1
55°	1342.5	993.9	628.5	409.7
65°	188.2	232.8	107.8	124.2
75°	24.5	29.3	17.2	14.2
85°	14.7	14.2	9.9	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)