

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: P212885

Luminaire Tested: **NFFLD-C25-D-UNV-33-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P212885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-16-1196-4)  
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-33-7060  
Description: NIGHT FALCON LED FLOOD LIGHT  
Light Source: (8) 5700K CCT, 72 CRI LEDS  
CLU028-1204C4-40ALK3  
Ballast/Driver: OSRAM  
OT100/UNV/800C/2DIMLT2

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10072 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G1

Input Watts (W): 93.2  
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: 25 FT

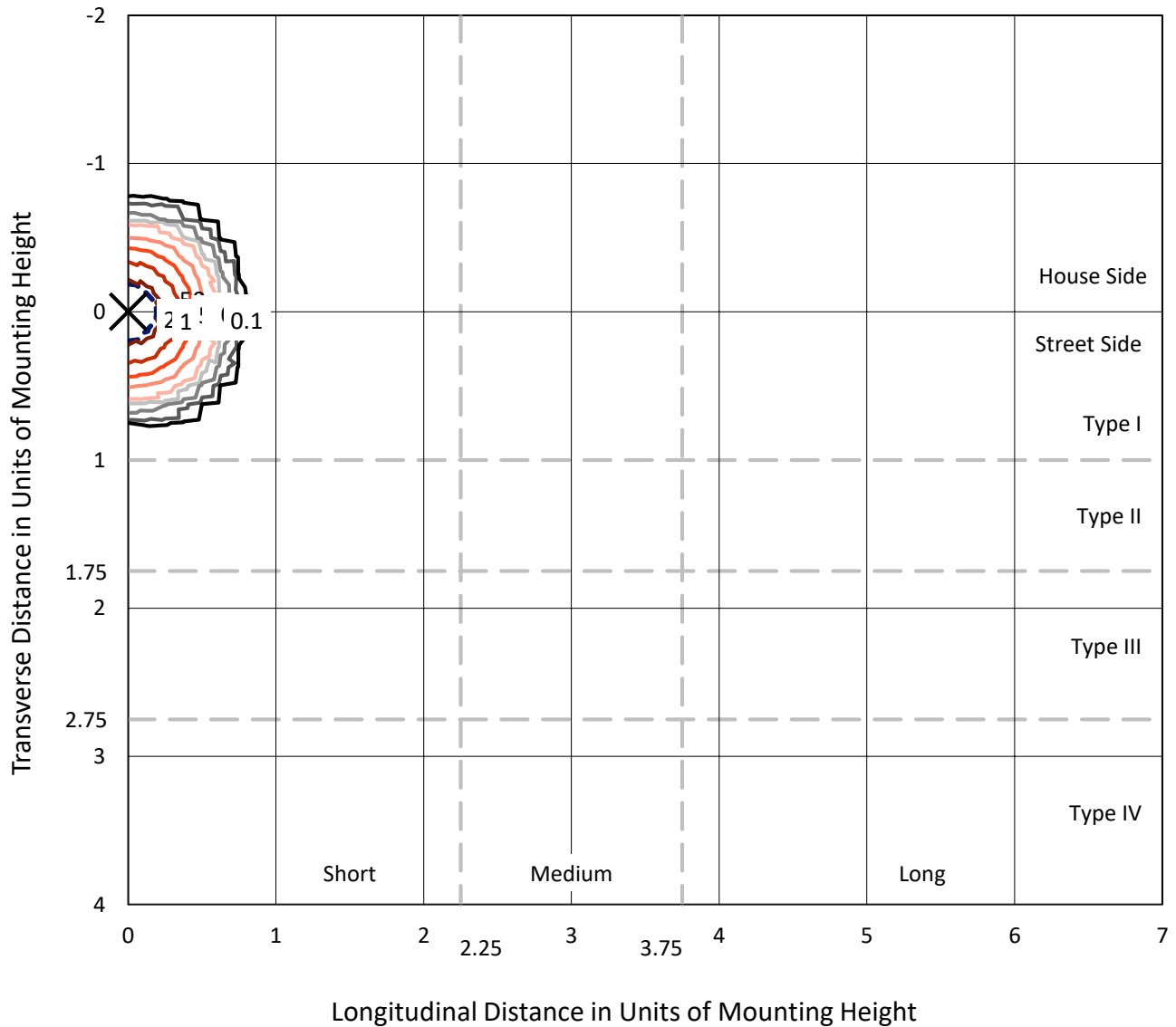


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### Iso-Footcandle Lines of Horizontal Illumination

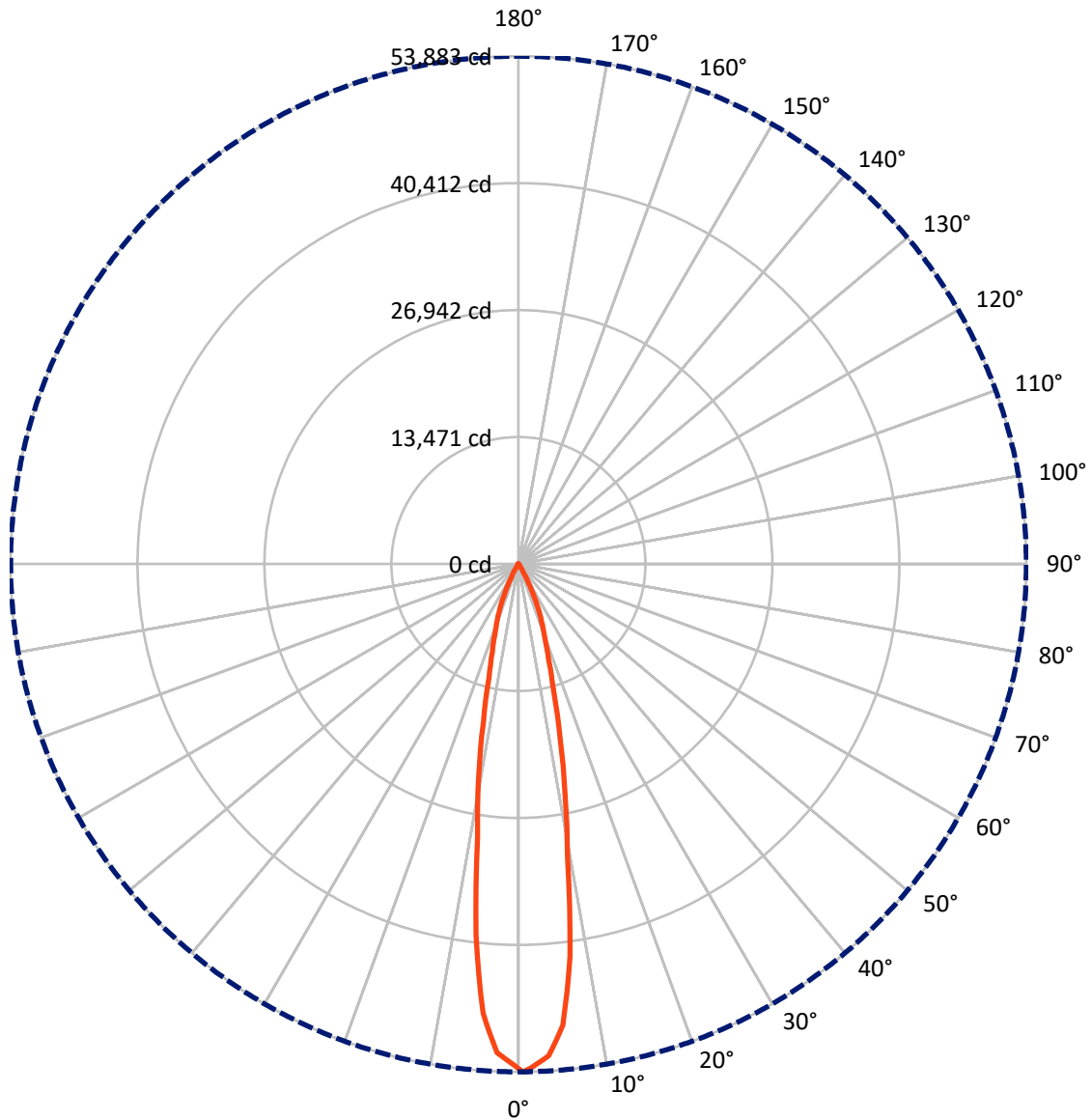
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 134.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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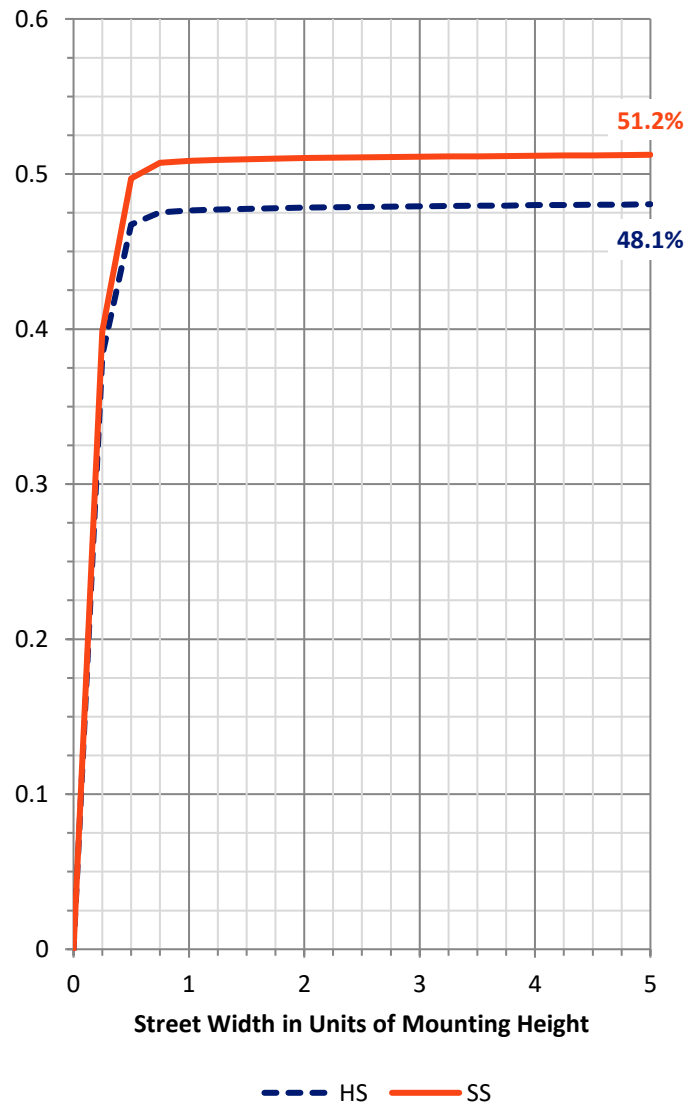
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4921.1	0.0	4921.1
	% Fixture	48.9	0.0	48.9
<b>Street Side</b>	Lumens	5150.9	0.0	5150.9
	% Fixture	51.1	0.0	51.1
<b>Total</b>	Lumens	10072.0	0.0	10072.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3845.9	38.2
10°-20°	3980.1	39.5
20°-30°	1882.3	18.7
30°-40°	349.0	3.5
40°-50°	40.3	0.4
50°-60°	23.9	0.2
60°-70°	20.3	0.2
70°-80°	37.6	0.4
80°-90°	26.5	0.3
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°	10072.0	100.0
0°-180°	10072.0	100.0



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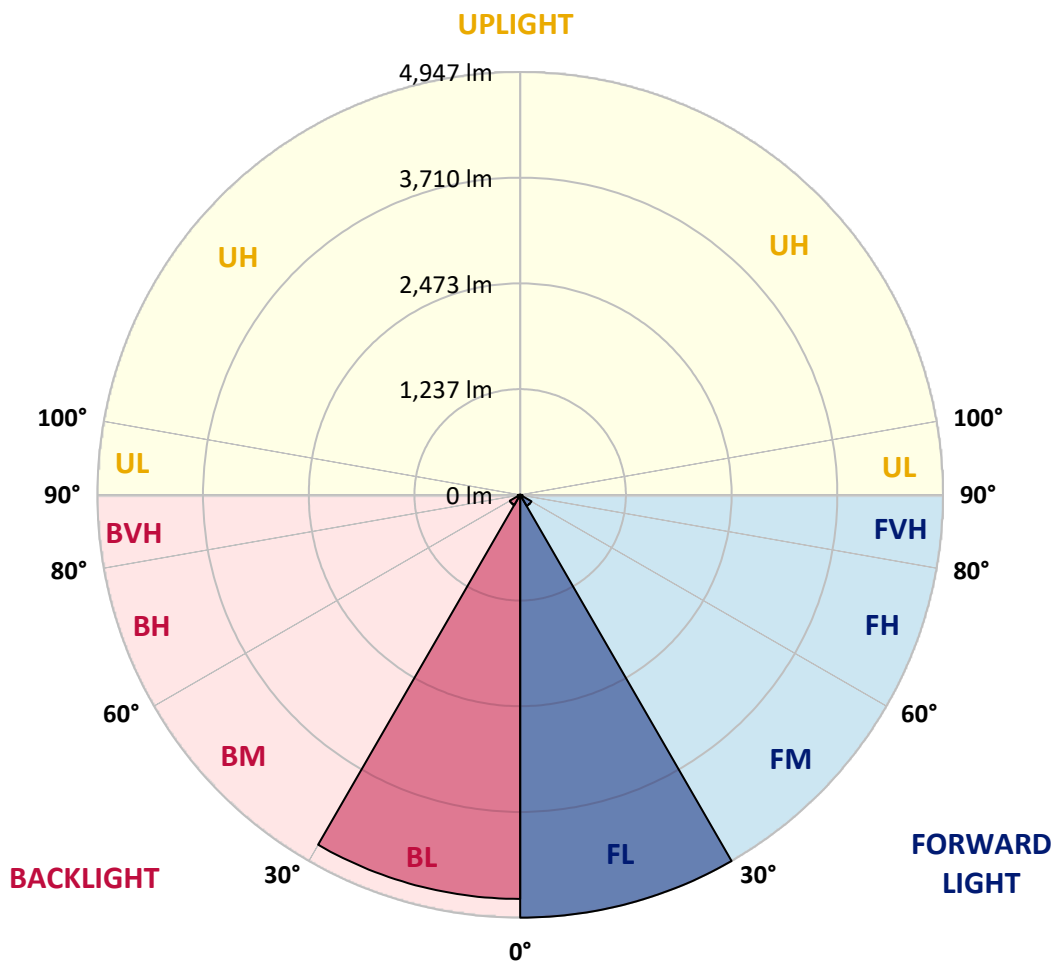
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4946.6	49.1			
FM	(30°-60°)	152.1	1.5			
FH	(60°-80°)	25.7	0.3			G0/660
FVH	(80°-90°)	25.7	0.3			G1/100
BL	(0°-30°)	4727.7	46.9	B4/5000		
BM	(30°-60°)	139.7	1.4	B0/220		
BH	(60°-80°)	26.5	0.3	B0/110		G0/660
BVH	(80°-90°)	26.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1
1°	53427.7	53428.2	53443.2	53472.6	53515.9	53572.0	53639.2	53715.3	53797.6	53883.1	53752.9
3°	52282.5	52223.2	52210.2	51970.9	51822.1	51768.9	51813.1	51952.8	51926.8	51950.3	51838.1
5°	49166.5	49133.1	48655.3	48437.3	48369.2	48212.6	48020.9	47995.2	48280.4	48303.5	48131.0
7°	41970.7	41899.5	41431.8	41189.4	41178.7	41085.0	40757.1	40639.7	40770.3	40724.9	40300.8
9°	31467.5	31584.4	31968.6	31829.2	31680.3	31786.0	31780.0	31639.3	31087.9	30987.4	30716.4
11°	24841.2	24738.6	24782.6	24623.7	24865.5	24742.9	24568.6	24579.2	24418.6	24327.4	24102.5
13°	18985.0	18929.3	18997.0	19047.1	18999.4	18936.5	18905.9	18807.9	18593.5	18518.3	18250.2
15°	13919.9	14027.1	14096.7	13995.3	14053.1	14006.3	13803.4	13850.0	13561.1	13368.7	13296.0
17°	10672.2	10740.2	10740.4	10699.1	10678.3	10576.8	10550.7	10475.1	10356.0	10194.2	10198.8
19.5°	8012.2	8042.4	8116.5	8108.7	8112.3	8068.8	7988.7	7969.4	7849.6	7932.0	7742.0
22.5°	5833.0	5824.5	5830.2	5917.3	5932.9	5920.6	5881.5	5826.6	5793.7	5986.5	5712.1
25.5°	3670.7	3699.0	3797.7	3936.9	3993.4	3995.6	3970.8	3946.3	3901.4	3864.3	3828.1
29°	1497.8	1573.5	1754.0	1809.3	1904.8	1897.7	1922.2	1946.9	1814.2	1716.8	1746.0
33°	224.5	290.0	455.2	370.6	460.6	453.4	495.2	526.8	401.2	293.5	385.6
37.5°	54.2	73.6	94.4	85.4	86.5	84.6	92.7	83.4	81.5	67.6	80.9
42.5°	51.4	63.4	66.7	69.0	67.1	58.4	56.4	51.6	55.9	59.8	52.0
47.5°	23.2	45.0	47.0	53.7	48.2	44.8	39.5	37.7	41.5	45.8	35.1
55°	2.8	30.9	28.9	27.6	19.3	14.3	10.4	11.0	9.6	8.4	12.4
65°	2.8	31.0	34.7	20.5	15.7	15.9	14.4	12.9	16.1	15.5	15.1
75°	0.0	28.7	24.1	23.8	16.1	21.9	30.4	28.2	39.1	30.3	39.9
85°	2.8	16.8	33.3	76.0	79.8	88.8	89.3	96.8	99.1	106.3	93.9
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°	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1
1°	53627.1	53510.0	53405.6	53317.0	53247.0	53197.6	53170.0	53164.5	53170.0	53197.6	53247.0
3°	51768.2	51484.0	51333.8	51327.7	51465.8	51738.1	51788.7	51898.9	51788.7	51738.1	51465.8
5°	47616.8	47401.4	47333.0	47161.1	47037.1	47191.1	47680.5	47812.2	47680.5	47191.1	47037.1
7°	39797.8	39679.5	39834.5	39602.9	38949.9	38758.5	39277.8	39628.2	39277.8	38758.5	38949.9
9°	30854.4	30596.9	30251.6	30069.2	30034.9	29567.2	29195.9	29245.4	29195.9	29567.2	30034.9
11°	23941.2	23689.2	23532.7	23347.5	23287.4	22974.1	22970.5	23228.6	22970.5	22974.1	23287.4
13°	18143.5	17966.3	17768.5	17579.2	17450.5	17321.4	17040.2	17209.8	17040.2	17321.4	17450.5
15°	13327.2	13074.1	13059.9	12939.4	12688.9	12835.2	12592.4	12479.0	12592.4	12835.2	12688.9
17°	10170.0	10084.7	9971.1	9955.2	9898.4	9892.5	9841.6	9750.1	9841.6	9892.5	9898.4
19.5°	7783.1	7721.6	7666.2	7590.2	7548.6	7564.1	7512.6	7451.2	7512.6	7564.1	7548.6
22.5°	5676.6	5669.3	5681.4	5604.3	5573.6	5514.3	5501.5	5463.5	5501.5	5514.3	5573.6
25.5°	3806.7	3754.8	3723.4	3697.9	3602.4	3582.4	3468.5	3415.9	3468.5	3582.4	3602.4
29°	1833.0	1738.4	1675.2	1675.6	1585.4	1606.5	1444.5	1352.9	1444.5	1606.5	1585.4
33°	480.5	423.9	375.4	379.4	298.4	388.9	247.1	166.1	247.1	388.9	298.4
37.5°	84.1	77.8	75.9	78.1	79.2	91.9	78.3	74.6	78.3	91.9	79.2
42.5°	50.8	47.8	57.0	69.2	70.8	69.6	62.3	51.4	62.3	69.6	70.8
47.5°	35.8	30.7	41.7	50.5	58.7	50.4	43.4	28.9	43.4	50.4	58.7
55°	5.4	9.9	16.4	26.5	26.5	33.2	29.6	8.4	29.6	33.2	26.5
65°	9.7	12.1	21.6	18.2	24.0	30.2	30.9	2.8	30.9	30.2	24.0
75°	25.7	29.2	29.8	18.4	29.2	21.4	30.3	0.0	30.3	21.4	29.2
85°	96.9	90.6	90.8	84.8	71.2	39.5	29.9	0.0	29.9	39.5	71.2
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°	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1	53883.1
1°	53317.0	53405.6	53510.0	53627.1	53752.9	53883.1	53797.6	53715.3	53639.2	53572.0	53515.9
3°	51327.7	51333.8	51484.0	51768.2	51838.1	51950.3	51926.8	51952.8	51813.1	51768.9	51822.1
5°	47161.1	47333.0	47401.4	47616.8	48131.0	48303.5	48280.4	47995.2	48020.9	48212.6	48369.2
7°	39602.9	39834.5	39679.5	39797.8	40300.8	40724.9	40770.3	40639.7	40757.1	41085.0	41178.7
9°	30069.2	30251.6	30596.9	30854.4	30716.4	30987.4	31087.9	31639.3	31780.0	31786.0	31680.3
11°	23347.5	23532.7	23689.2	23941.2	24102.5	24327.4	24418.6	24579.2	24568.6	24742.9	24865.5
13°	17579.2	17768.5	17966.3	18143.5	18250.2	18518.3	18593.5	18807.9	18905.9	18936.5	18999.4
15°	12939.4	13059.9	13074.1	13327.2	13296.0	13368.7	13561.1	13850.0	13803.4	14006.3	14053.1
17°	9955.2	9971.1	10084.7	10170.0	10198.8	10194.2	10356.0	10475.1	10550.7	10576.8	10678.3
19.5°	7590.2	7666.2	7721.6	7783.1	7742.0	7932.0	7849.6	7969.4	7988.7	8068.8	8112.3
22.5°	5604.3	5681.4	5669.3	5676.6	5712.1	5986.5	5793.7	5826.6	5881.5	5920.6	5932.9
25.5°	3697.9	3723.4	3754.8	3806.7	3828.1	3864.3	3901.4	3946.3	3970.8	3995.6	3993.4
29°	1675.6	1675.2	1738.4	1833.0	1746.0	1716.8	1814.2	1946.9	1922.2	1897.7	1904.8
33°	379.4	375.4	423.9	480.5	385.6	293.5	401.2	526.8	495.2	453.4	460.6
37.5°	78.1	75.9	77.8	84.1	80.9	67.6	81.5	83.4	92.7	84.6	86.5
42.5°	69.2	57.0	47.8	50.8	52.0	59.8	55.9	51.6	56.4	58.4	67.1
47.5°	50.5	41.7	30.7	35.8	35.1	45.8	41.5	37.7	39.5	44.8	48.2
55°	26.5	16.4	9.9	5.4	12.4	8.4	9.6	11.0	10.4	14.3	19.3
65°	18.2	21.6	12.1	9.7	15.1	15.5	16.1	12.9	14.4	15.9	15.7
75°	18.4	29.8	29.2	25.7	39.9	30.3	39.1	28.2	30.4	21.9	16.1
85°	84.8	90.8	90.6	96.9	93.9	106.3	99.1	96.8	89.3	88.8	79.8
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°	53883.1	53883.1	53883.1	53883.1
1°	53472.6	53443.2	53428.2	53427.7
3°	51970.9	52210.2	52223.2	52282.5
5°	48437.3	48655.3	49133.1	49166.5
7°	41189.4	41431.8	41899.5	41970.7
9°	31829.2	31968.6	31584.4	31467.5
11°	24623.7	24782.6	24738.6	24841.2
13°	19047.1	18997.0	18929.3	18985.0
15°	13995.3	14096.7	14027.1	13919.9
17°	10699.1	10740.4	10740.2	10672.2
19.5°	8108.7	8116.5	8042.4	8012.2
22.5°	5917.3	5830.2	5824.5	5833.0
25.5°	3936.9	3797.7	3699.0	3670.7
29°	1809.3	1754.0	1573.5	1497.8
33°	370.6	455.2	290.0	224.5
37.5°	85.4	94.4	73.6	54.2
42.5°	69.0	66.7	63.4	51.4
47.5°	53.7	47.0	45.0	23.2
55°	27.6	28.9	30.9	2.8
65°	20.5	34.7	31.0	2.8
75°	23.8	24.1	28.7	0.0
85°	76.0	33.3	16.8	2.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)