

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: P214481

Luminaire Tested: **NFFLD-L-C100-D-UNV-66-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P214481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29596)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-L-C100-D-UNV-66-7030  
Description: NIGHT CONDOR LED FLOODLIGHT WIDE OPTIC  
Light Source: (4) 3000K CCT, 70 CRI LEDS  
CLU048-1312C4-40ALK3  
Ballast/Driver: PHILLIPS  
XI150C150V100CNF1

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32991.3 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0.67 '  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B5 - U0 - G2

Input Watts (W): 252  
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

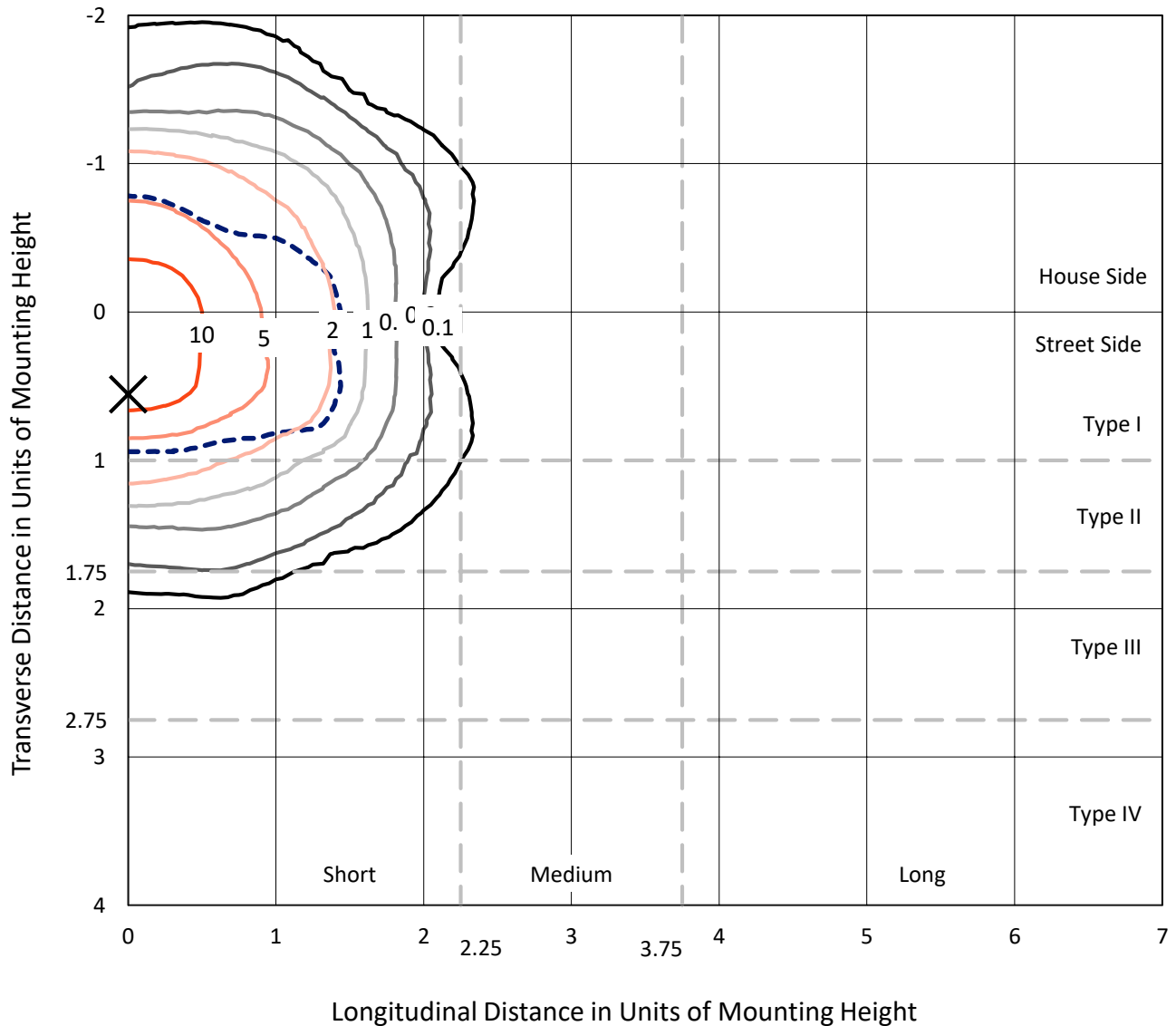


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### Iso-Footcandle Lines of Horizontal Illumination

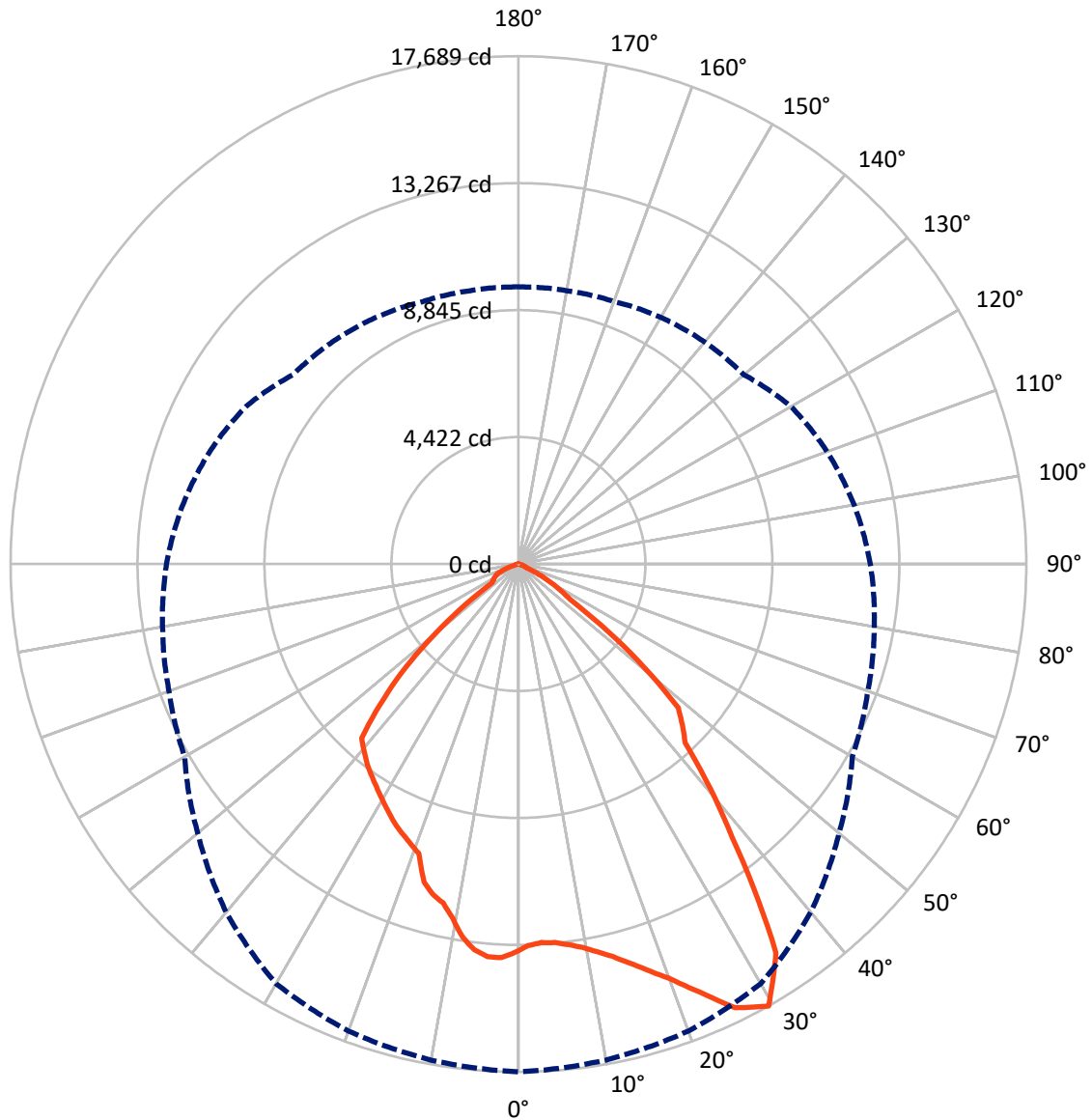
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 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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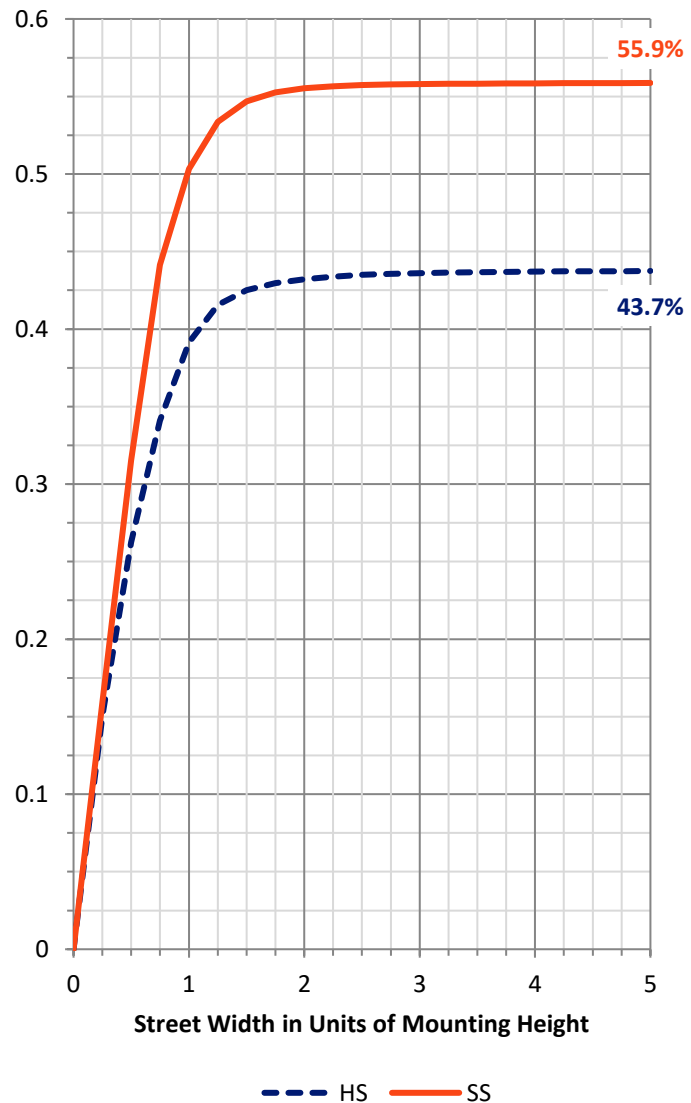
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14561.2	0.0	14561.2
	% Fixture	44.1	0.0	44.1
<b>Street Side</b>	Lumens	18430.1	0.0	18430.1
	% Fixture	55.9	0.0	55.9
<b>Total</b>	Lumens	32991.3	0.0	32991.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1282.3	3.9
10°-20°	3729.4	11.3
20°-30°	5989.8	18.2
30°-40°	7427.5	22.5
40°-50°	7313.0	22.2
50°-60°	5109.6	15.5
60°-70°	2114.8	6.4
70°-80°	436.9	1.3
80°-90°	59.9	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°	32991.3	100.0
0°-180°	32991.3	100.0



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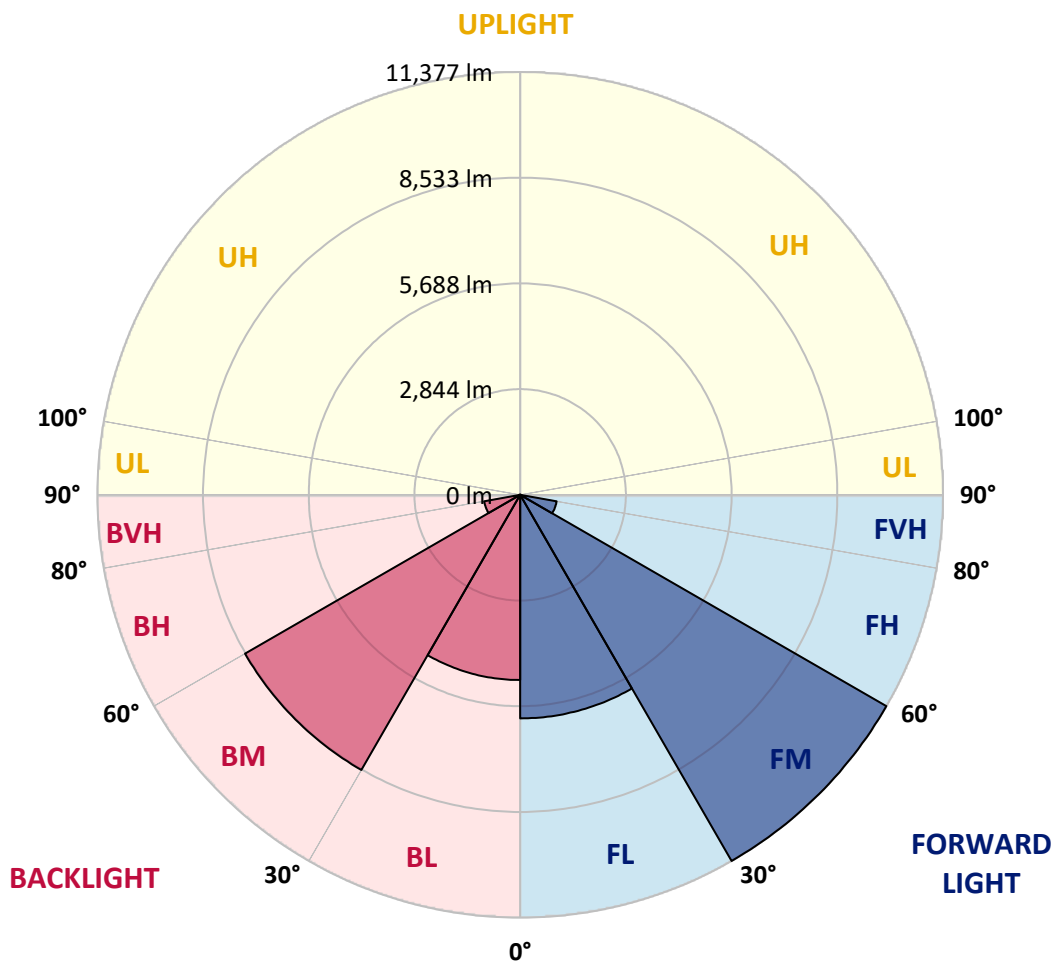
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6015.9	18.2			
FM	(30°-60°)	11376.9	34.5			
FH	(60°-80°)	996.0	3.0			G1/1800
FVH	(80°-90°)	26.0	0.1			G1/100
BL	(0°-30°)	4982.2	15.1	B4/5000		
BM	(30°-60°)	8549.1	25.9	B5		
BH	(60°-80°)	984.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	32.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8
1°	13289.6	13290.2	13294.5	13302.3	13313.3	13327.3	13343.8	13362.3	13382.3	13403.1	13422.2
3°	13209.8	13214.5	13221.9	13233.1	13247.3	13264.0	13282.8	13302.9	13355.8	13410.7	13480.0
5°	13246.4	13252.4	13248.7	13243.6	13239.8	13236.8	13260.0	13300.2	13351.3	13446.3	13537.1
7°	13370.4	13363.9	13343.6	13312.7	13274.8	13251.9	13250.0	13290.7	13371.6	13489.6	13585.0
9°	13540.5	13528.2	13491.4	13427.8	13342.8	13279.2	13249.9	13268.2	13375.8	13504.9	13588.6
11°	13779.9	13766.5	13699.4	13573.3	13425.9	13319.1	13258.8	13271.8	13369.7	13484.8	13536.1
13°	14058.6	14043.6	13947.2	13762.7	13558.4	13382.2	13275.2	13273.9	13387.5	13470.3	13468.9
15°	14413.4	14385.0	14247.4	13982.6	13725.1	13479.5	13309.3	13297.1	13433.0	13455.0	13371.4
17°	14808.4	14780.9	14594.6	14258.9	13913.7	13586.0	13351.7	13325.5	13461.2	13443.4	13251.7
19.5°	15359.2	15322.1	15072.7	14683.5	14183.5	13747.3	13440.4	13357.7	13624.2	13823.1	13192.2
22.5°	16198.4	16113.4	15768.3	15229.2	14609.2	13995.6	13550.2	13264.7	13257.8	13163.7	12721.0
25.5°	17194.3	17036.0	16623.7	15945.7	15171.8	14312.1	13451.1	13060.8	12946.9	12721.5	12313.5
29°	17689.4	17542.2	17309.3	16878.9	15835.0	14580.2	13426.9	12950.6	12586.4	12257.2	11871.4
33°	16250.4	16270.4	16611.3	17182.5	16360.1	14808.7	13510.8	12903.2	12174.6	11518.0	11209.3
37.5°	12087.1	12338.4	13411.9	15103.6	15744.4	15109.9	13681.0	12904.6	11832.5	11170.0	10660.3
42.5°	8514.0	8780.2	9588.8	10729.8	12587.1	14238.2	14008.3	12984.8	11452.7	10958.5	10389.9
47.5°	7492.2	7401.2	7578.0	7720.5	8832.1	11430.6	13766.2	12823.8	10759.8	10382.7	10115.9
55°	2188.8	2577.5	3470.2	4370.3	5667.1	6526.1	10101.9	10062.6	8660.9	9160.0	8501.4
65°	334.5	363.8	766.3	748.4	1095.1	1789.2	2224.2	2408.8	1586.1	402.8	1591.4
75°	40.4	56.0	91.7	82.2	89.2	79.0	132.4	170.7	164.0	284.5	259.3
85°	4.8	42.3	47.8	45.9	50.0	51.9	61.3	69.6	70.9	77.9	74.7
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°	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8
1°	13441.1	13459.3	13476.3	13491.7	13505.0	13515.7	13523.5	13528.0	13523.5	13515.7	13505.0
3°	13544.0	13584.4	13621.8	13655.6	13684.6	13707.6	13720.9	13724.1	13720.9	13707.6	13684.6
5°	13606.6	13671.1	13712.7	13711.2	13710.2	13710.5	13712.7	13715.5	13712.7	13710.5	13710.2
7°	13659.4	13687.3	13675.3	13642.9	13587.7	13550.6	13529.6	13524.2	13529.6	13550.6	13587.7
9°	13652.6	13607.4	13521.3	13433.5	13318.2	13223.8	13171.8	13142.5	13171.8	13223.8	13318.2
11°	13521.6	13411.7	13244.6	13047.9	12897.1	12731.9	12615.4	12555.2	12615.4	12731.9	12897.1
13°	13364.6	13137.8	12872.0	12624.4	12411.8	12268.4	12151.5	12092.8	12151.5	12268.4	12411.8
15°	13161.5	12834.7	12537.2	12279.2	12060.7	11962.9	11899.2	11890.0	11899.2	11962.9	12060.7
17°	12917.9	12559.2	12267.2	12036.4	11864.6	11669.8	11565.4	11553.6	11565.4	11669.8	11864.6
19.5°	12685.8	12334.4	12018.3	11781.1	11469.7	11003.7	10743.3	10663.4	10743.3	11003.7	11469.7
22.5°	12399.6	12087.4	11723.0	11256.3	10642.8	10449.5	10361.6	10345.2	10361.6	10449.5	10642.8
25.5°	12014.5	11630.9	11277.4	10557.5	10326.1	10157.7	10069.5	10057.8	10069.5	10157.7	10326.1
29°	11442.8	10964.3	10253.6	10092.0	9919.4	9730.3	9667.2	9651.2	9667.2	9730.3	9919.4
33°	10754.6	10156.7	9568.3	9501.4	9315.2	9223.7	9206.1	9203.2	9206.1	9223.7	9315.2
37.5°	10114.9	9437.6	9047.9	8798.3	8730.0	8753.0	8757.1	8739.9	8757.1	8753.0	8730.0
42.5°	9590.2	8943.2	8413.5	8144.7	8138.6	8114.9	8109.7	8159.3	8109.7	8114.9	8138.6
47.5°	9204.8	8526.1	7727.0	7488.4	7123.0	6283.3	5715.0	5609.0	5715.0	6283.3	7123.0
55°	7800.7	7752.5	6471.6	4928.9	3380.1	2216.8	1517.7	1123.7	1517.7	2216.8	3380.1
65°	2393.0	1904.2	1165.6	897.8	1077.9	949.2	839.5	832.5	839.5	949.2	1077.9
75°	330.3	247.7	248.4	173.4	225.4	184.0	116.5	88.4	116.5	184.0	225.4
85°	66.5	60.3	58.4	51.8	44.2	43.7	32.1	0.0	32.1	43.7	44.2
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°	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8	13408.8
1°	13491.7	13476.3	13459.3	13441.1	13422.2	13403.1	13382.3	13362.3	13343.8	13327.3	13313.3
3°	13655.6	13621.8	13584.4	13544.0	13480.0	13410.7	13355.8	13302.9	13282.8	13264.0	13247.3
5°	13711.2	13712.7	13671.1	13606.6	13537.1	13446.3	13351.3	13300.2	13260.0	13236.8	13239.8
7°	13642.9	13675.3	13687.3	13659.4	13585.0	13489.6	13371.6	13290.7	13250.0	13251.9	13274.8
9°	13433.5	13521.3	13607.4	13652.6	13588.6	13504.9	13375.8	13268.2	13249.9	13279.2	13342.8
11°	13047.9	13244.6	13411.7	13521.6	13536.1	13484.8	13369.7	13271.8	13258.8	13319.1	13425.9
13°	12624.4	12872.0	13137.8	13364.6	13468.9	13470.3	13387.5	13273.9	13275.2	13382.2	13558.4
15°	12279.2	12537.2	12834.7	13161.5	13371.4	13455.0	13433.0	13297.1	13309.3	13479.5	13725.1
17°	12036.4	12267.2	12559.2	12917.9	13251.7	13443.4	13461.2	13325.5	13351.7	13586.0	13913.7
19.5°	11781.1	12018.3	12334.4	12685.8	13192.2	13823.1	13624.2	13357.7	13440.4	13747.3	14183.5
22.5°	11256.3	11723.0	12087.4	12399.6	12721.0	13163.7	13257.8	13264.7	13550.2	13995.6	14609.2
25.5°	10557.5	11277.4	11630.9	12014.5	12313.5	12721.5	12946.9	13060.8	13451.1	14312.1	15171.8
29°	10092.0	10253.6	10964.3	11442.8	11871.4	12257.2	12586.4	12950.6	13426.9	14580.2	15835.0
33°	9501.4	9568.3	10156.7	10754.6	11209.3	11518.0	12174.6	12903.2	13510.8	14808.7	16360.1
37.5°	8798.3	9047.9	9437.6	10114.9	10660.3	11170.0	11832.5	12904.6	13681.0	15109.9	15744.4
42.5°	8144.7	8413.5	8943.2	9590.2	10389.9	10958.5	11452.7	12984.8	14008.3	14238.2	12587.1
47.5°	7488.4	7727.0	8526.1	9204.8	10115.9	10382.7	10759.8	12823.8	13766.2	11430.6	8832.1
55°	4928.9	6471.6	7752.5	7800.7	8501.4	9160.0	8660.9	10062.6	10101.9	6526.1	5667.1
65°	897.8	1165.6	1904.2	2393.0	1591.4	402.8	1586.1	2408.8	2224.2	1789.2	1095.1
75°	173.4	248.4	247.7	330.3	259.3	284.5	164.0	170.7	132.4	79.0	89.2
85°	51.8	58.4	60.3	66.5	74.7	77.9	70.9	69.6	61.3	51.9	50.0
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°	13408.8	13408.8	13408.8	13408.8
1°	13302.3	13294.5	13290.2	13289.6
3°	13233.1	13221.9	13214.5	13209.8
5°	13243.6	13248.7	13252.4	13246.4
7°	13312.7	13343.6	13363.9	13370.4
9°	13427.8	13491.4	13528.2	13540.5
11°	13573.3	13699.4	13766.5	13779.9
13°	13762.7	13947.2	14043.6	14058.6
15°	13982.6	14247.4	14385.0	14413.4
17°	14258.9	14594.6	14780.9	14808.4
19.5°	14683.5	15072.7	15322.1	15359.2
22.5°	15229.2	15768.3	16113.4	16198.4
25.5°	15945.7	16623.7	17036.0	17194.3
29°	16878.9	17309.3	17542.2	17689.4
33°	17182.5	16611.3	16270.4	16250.4
37.5°	15103.6	13411.9	12338.4	12087.1
42.5°	10729.8	9588.8	8780.2	8514.0
47.5°	7720.5	7578.0	7401.2	7492.2
55°	4370.3	3470.2	2577.5	2188.8
65°	748.4	766.3	363.8	334.5
75°	82.2	91.7	56.0	40.4
85°	45.9	47.8	42.3	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)