

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: P958811

Luminaire Tested: **NFFLD-C40-D-UNV-33-8040**

Issue Date: 2/3/2025



Test Information

Test Method: LM-79-08
Report Number: P958811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P212886)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C40-D-UNV-33-8040
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (8) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13206.3 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

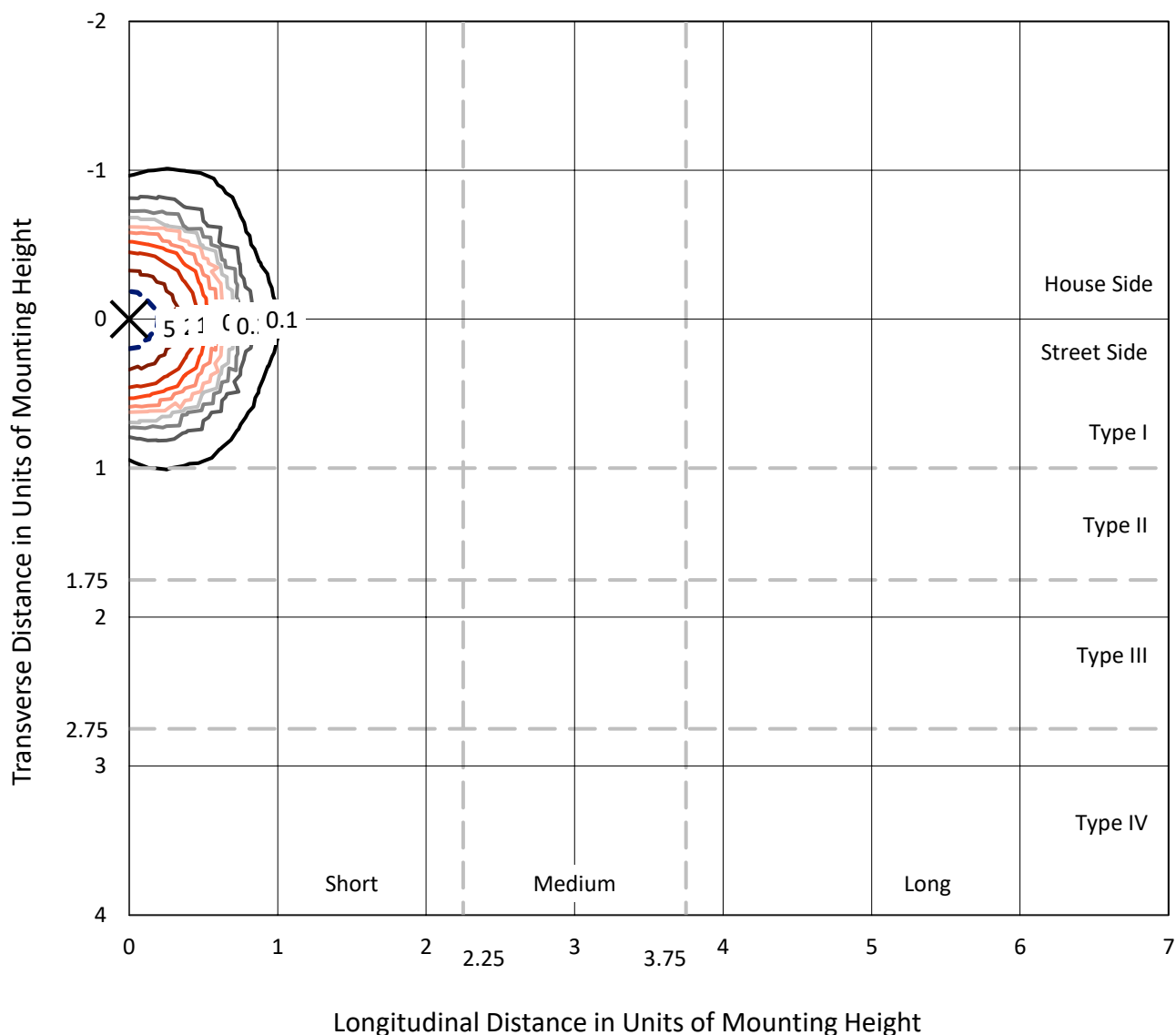
Input Watts (W): 142.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

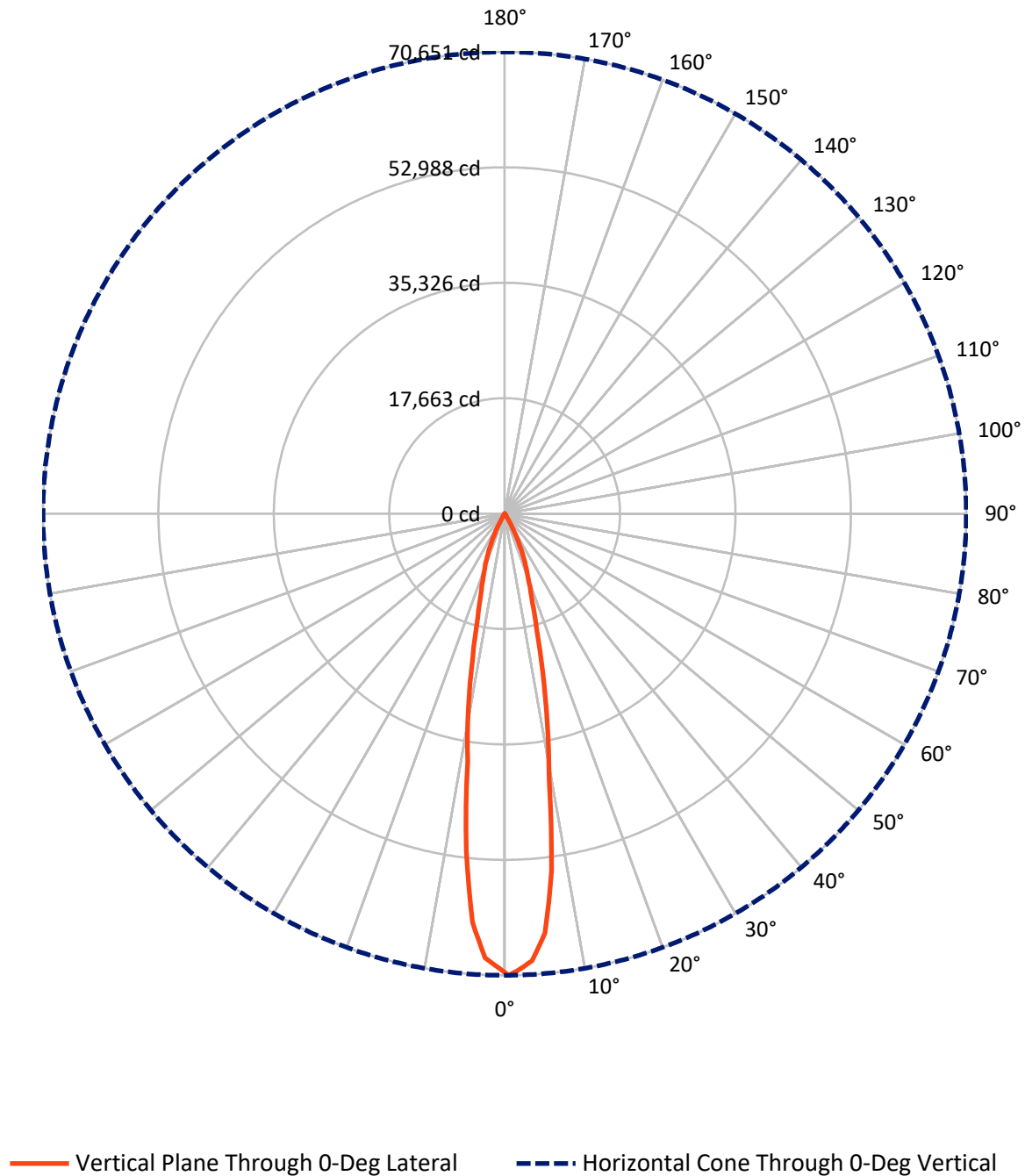
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 314 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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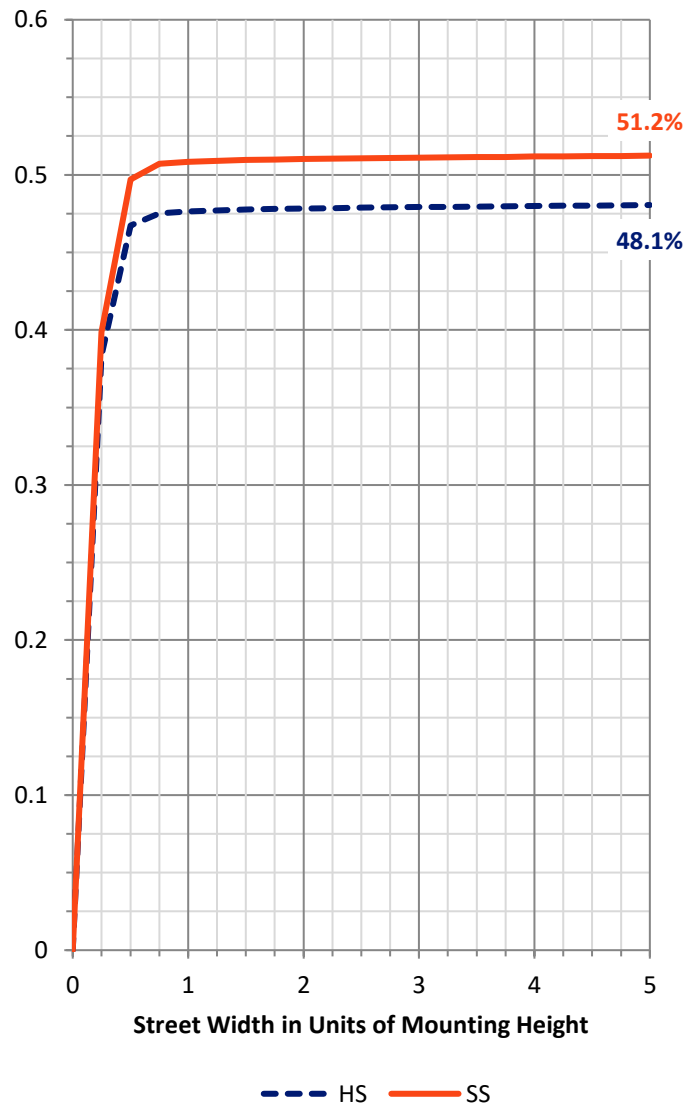
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6452.5	0.0	6452.5
	% Fixture	48.9	0.0	48.9
Street Side	Lumens	6753.9	0.0	6753.9
	% Fixture	51.1	0.0	51.1
Total	Lumens	13206.3	0.0	13206.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5042.7	38.2
10°-20°	5218.7	39.5
20°-30°	2468.1	18.7
30°-40°	457.6	3.5
40°-50°	52.9	0.4
50°-60°	31.4	0.2
60°-70°	26.7	0.2
70°-80°	49.3	0.4
80°-90°	34.8	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°	13206.3	100.0
0°-180°	13206.3	100.0



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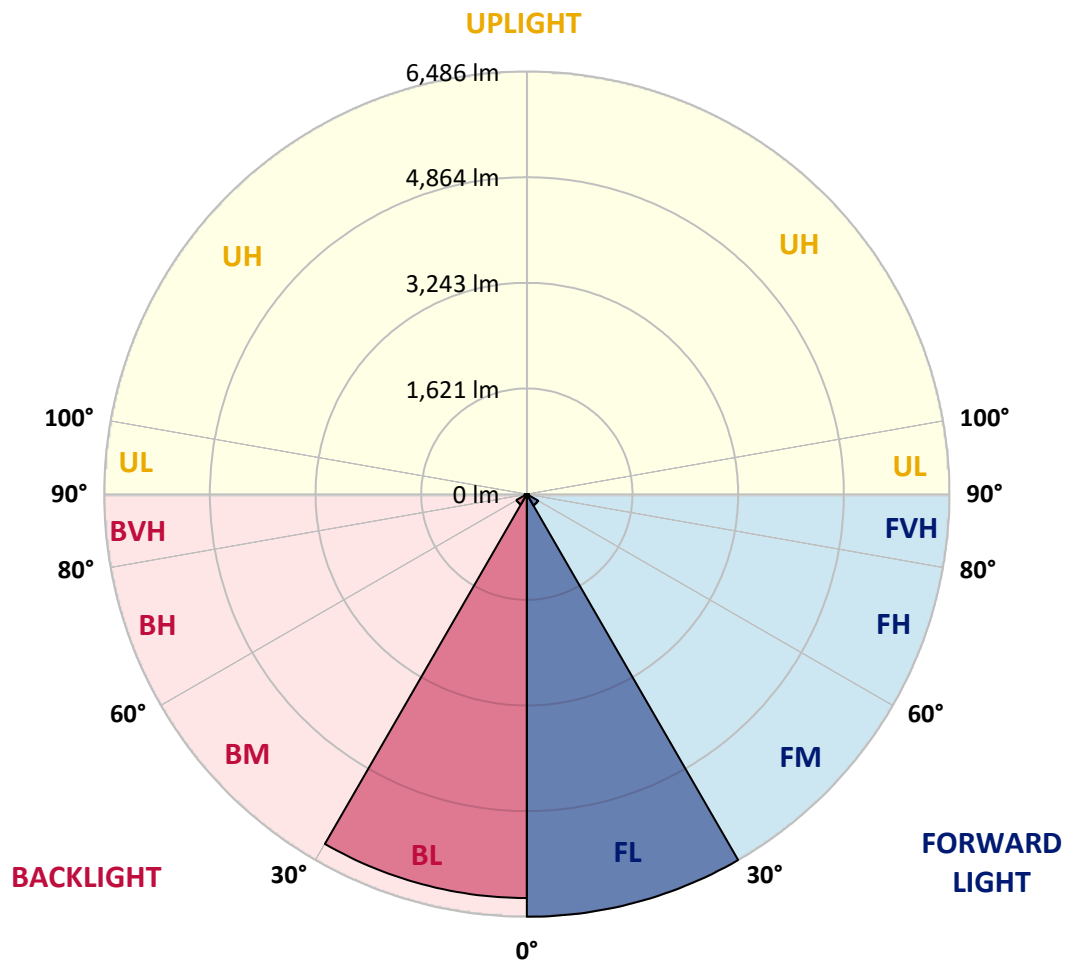
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6485.9	49.1			
FM	(30°-60°)	199.4	1.5			
FH	(60°-80°)	33.7	0.3			G0/660
FVH	(80°-90°)	33.7	0.3			G1/100
BL	(0°-30°)	6199.0	46.9	B5		
BM	(30°-60°)	183.1	1.4	B0/220		
BH	(60°-80°)	34.7	0.3	B0/110		G0/660
BVH	(80°-90°)	34.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0
1°	70053.9	70054.7	70074.2	70112.7	70169.5	70243.1	70331.3	70431.1	70539.0	70651.0	70480.3
3°	68552.3	68474.6	68457.5	68143.8	67948.7	67878.9	67936.9	68120.0	68086.0	68116.7	67969.6
5°	64466.6	64422.8	63796.4	63510.6	63421.3	63216.0	62964.6	62930.8	63304.8	63335.1	63109.0
7°	55031.6	54938.2	54324.9	54007.2	53993.1	53870.3	53440.4	53286.4	53457.7	53398.1	52842.0
9°	41259.9	41413.2	41916.9	41734.2	41539.0	41677.5	41669.5	41485.2	40762.1	40630.5	40275.0
11°	32571.6	32437.0	32494.6	32286.3	32603.4	32442.6	32214.1	32227.9	32017.4	31897.8	31603.0
13°	24892.9	24819.9	24908.7	24974.5	24911.8	24829.3	24789.3	24660.7	24379.5	24281.0	23929.4
15°	18251.6	18392.2	18483.5	18350.5	18426.4	18365.0	18098.8	18160.0	17781.2	17528.9	17433.6
17°	13993.2	14082.4	14082.7	14028.5	14001.2	13868.1	13833.9	13734.7	13578.7	13366.6	13372.6
19.5°	10505.6	10545.1	10642.3	10632.1	10636.7	10579.8	10474.6	10449.4	10292.3	10400.4	10151.2
22.5°	7648.2	7637.0	7644.5	7758.8	7779.2	7763.0	7711.9	7639.7	7596.6	7849.4	7489.7
25.5°	4813.0	4850.0	4979.6	5162.0	5236.2	5238.9	5206.4	5174.4	5115.6	5066.8	5019.4
29°	1964.0	2063.1	2299.8	2372.3	2497.5	2488.2	2520.4	2552.7	2378.7	2251.0	2289.3
33°	294.4	380.2	596.7	486.0	603.9	594.5	649.3	690.7	526.1	384.8	505.5
37.5°	71.0	96.5	123.7	112.0	113.4	111.0	121.5	109.5	106.9	88.6	106.1
42.5°	67.4	83.2	87.5	90.5	88.0	76.6	74.0	67.7	73.2	78.4	68.2
47.5°	30.5	59.0	61.7	70.5	63.2	58.8	51.9	49.4	54.4	60.0	46.0
55°	3.7	40.6	38.0	36.2	25.3	18.7	13.6	14.4	12.6	11.1	16.3
65°	3.7	40.7	45.5	26.9	20.6	20.8	18.8	16.9	21.1	20.3	19.7
75°	0.0	37.7	31.7	31.3	21.1	28.7	39.8	37.0	51.3	39.7	52.2
85°	3.7	21.9	43.7	99.7	104.7	116.4	117.0	126.9	130.0	139.4	123.2
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0
1°	70315.3	70161.9	70024.9	69908.7	69817.0	69752.2	69715.9	69708.7	69715.9	69752.2	69817.0
3°	67877.9	67505.4	67308.3	67300.4	67481.4	67838.5	67904.9	68049.3	67904.9	67838.5	67481.4
5°	62434.8	62152.4	62062.6	61837.2	61674.6	61876.5	62518.2	62690.9	62518.2	61876.5	61674.6
7°	52182.5	52027.5	52230.8	51927.0	51070.8	50819.7	51500.6	51960.2	51500.6	50819.7	51070.8
9°	40456.0	40118.4	39665.6	39426.5	39381.5	38768.3	38281.4	38346.2	38281.4	38768.3	39381.5
11°	31391.5	31061.1	30855.8	30612.9	30534.1	30123.3	30118.7	30457.2	30118.7	30123.3	30534.1
13°	23789.6	23557.3	23297.9	23049.7	22880.9	22711.6	22342.8	22565.3	22342.8	22711.6	22880.9
15°	17474.5	17142.7	17124.0	16966.0	16637.5	16829.3	16511.0	16362.4	16511.0	16829.3	16637.5
17°	13334.9	13222.8	13074.0	13053.2	12978.7	12970.9	12904.2	12784.3	12904.2	12970.9	12978.7
19.5°	10205.1	10124.5	10051.9	9952.3	9897.6	9917.9	9850.5	9769.9	9850.5	9917.9	9897.6
22.5°	7443.1	7433.6	7449.5	7348.4	7308.0	7230.3	7213.5	7163.6	7213.5	7230.3	7308.0
25.5°	4991.3	4923.3	4882.0	4848.6	4723.4	4697.2	4548.0	4478.9	4548.0	4697.2	4723.4
29°	2403.4	2279.4	2196.5	2196.9	2078.8	2106.5	1894.0	1773.8	1894.0	2106.5	2078.8
33°	630.0	555.9	492.2	497.4	391.3	509.9	324.0	217.8	324.0	509.9	391.3
37.5°	110.2	102.0	99.5	102.3	103.8	120.5	102.7	97.8	102.7	120.5	103.8
42.5°	66.7	62.6	74.7	90.7	92.8	91.3	81.8	67.4	81.8	91.3	92.8
47.5°	47.0	40.2	54.7	66.2	77.0	66.1	56.9	37.9	56.9	66.1	77.0
55°	7.1	13.1	21.5	34.8	34.7	43.5	38.9	11.1	38.9	43.5	34.7
65°	12.7	15.8	28.4	23.9	31.6	39.5	40.6	3.7	40.6	39.5	31.6
75°	33.6	38.3	39.1	24.1	38.2	28.1	39.7	0.0	39.7	28.1	38.2
85°	127.0	118.7	119.1	111.3	93.4	51.8	39.3	0.0	39.3	51.8	93.4
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°	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0	70651.0
1°	69908.7	70024.9	70161.9	70315.3	70480.3	70651.0	70539.0	70431.1	70331.3	70243.1	70169.5
3°	67300.4	67308.3	67505.4	67877.9	67969.6	68116.7	68086.0	68120.0	67936.9	67878.9	67948.7
5°	61837.2	62062.6	62152.4	62434.8	63109.0	63335.1	63304.8	62930.8	62964.6	63216.0	63421.3
7°	51927.0	52230.8	52027.5	52182.5	52842.0	53398.1	53457.7	53286.4	53440.4	53870.3	53993.1
9°	39426.5	39665.6	40118.4	40456.0	40275.0	40630.5	40762.1	41485.2	41669.5	41677.5	41539.0
11°	30612.9	30855.8	31061.1	31391.5	31603.0	31897.8	32017.4	32227.9	32214.1	32442.6	32603.4
13°	23049.7	23297.9	23557.3	23789.6	23929.4	24281.0	24379.5	24660.7	24789.3	24829.3	24911.8
15°	16966.0	17124.0	17142.7	17474.5	17433.6	17528.9	17781.2	18160.0	18098.8	18365.0	18426.4
17°	13053.2	13074.0	13222.8	13334.9	13372.6	13366.6	13578.7	13734.7	13833.9	13868.1	14001.2
19.5°	9952.3	10051.9	10124.5	10205.1	10151.2	10400.4	10292.3	10449.4	10474.6	10579.8	10636.7
22.5°	7348.4	7449.5	7433.6	7443.1	7489.7	7849.4	7596.6	7639.7	7711.9	7763.0	7779.2
25.5°	4848.6	4882.0	4923.3	4991.3	5019.4	5066.8	5115.6	5174.4	5206.4	5238.9	5236.2
29°	2196.9	2196.5	2279.4	2403.4	2289.3	2251.0	2378.7	2552.7	2520.4	2488.2	2497.5
33°	497.4	492.2	555.9	630.0	505.5	384.8	526.1	690.7	649.3	594.5	603.9
37.5°	102.3	99.5	102.0	110.2	106.1	88.6	106.9	109.5	121.5	111.0	113.4
42.5°	90.7	74.7	62.6	66.7	68.2	78.4	73.2	67.7	74.0	76.6	88.0
47.5°	66.2	54.7	40.2	47.0	46.0	60.0	54.4	49.4	51.9	58.8	63.2
55°	34.8	21.5	13.1	7.1	16.3	11.1	12.6	14.4	13.6	18.7	25.3
65°	23.9	28.4	15.8	12.7	19.7	20.3	21.1	16.9	18.8	20.8	20.6
75°	24.1	39.1	38.3	33.6	52.2	39.7	51.3	37.0	39.8	28.7	21.1
85°	111.3	119.1	118.7	127.0	123.2	139.4	130.0	126.9	117.0	116.4	104.7
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):

	330°	340°	350°	360°
0°	70651.0	70651.0	70651.0	70651.0
1°	70112.7	70074.2	70054.7	70053.9
3°	68143.8	68457.5	68474.6	68552.3
5°	63510.6	63796.4	64422.8	64466.6
7°	54007.2	54324.9	54938.2	55031.6
9°	41734.2	41916.9	41413.2	41259.9
11°	32286.3	32494.6	32437.0	32571.6
13°	24974.5	24908.7	24819.9	24892.9
15°	18350.5	18483.5	18392.2	18251.6
17°	14028.5	14082.7	14082.4	13993.2
19.5°	10632.1	10642.3	10545.1	10505.6
22.5°	7758.8	7644.5	7637.0	7648.2
25.5°	5162.0	4979.6	4850.0	4813.0
29°	2372.3	2299.8	2063.1	1964.0
33°	486.0	596.7	380.2	294.4
37.5°	112.0	123.7	96.5	71.0
42.5°	90.5	87.5	83.2	67.4
47.5°	70.5	61.7	59.0	30.5
55°	36.2	38.0	40.6	3.7
65°	26.9	45.5	40.7	3.7
75°	31.3	31.7	37.7	0.0
85°	99.7	43.7	21.9	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)