

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: P214468

Luminaire Tested: **NFFLD-L-C75-D-UNV-33**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29595)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C75-D-UNV-33
Description: NIGHT CONDOR LED FLOODLIGHT SPOT OPTIC
Light Source: (16) 4000K CCT, 70 CRI LEDS
CLU028-1204C4-40ALK3
Ballast/Driver: OSRAM
OT100/UNV/800C/2DIMLT2

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24920.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: (L: 0 ' x W: 0.66 ' x H: 0.5 '
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G1

Input Watts (W): 236
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

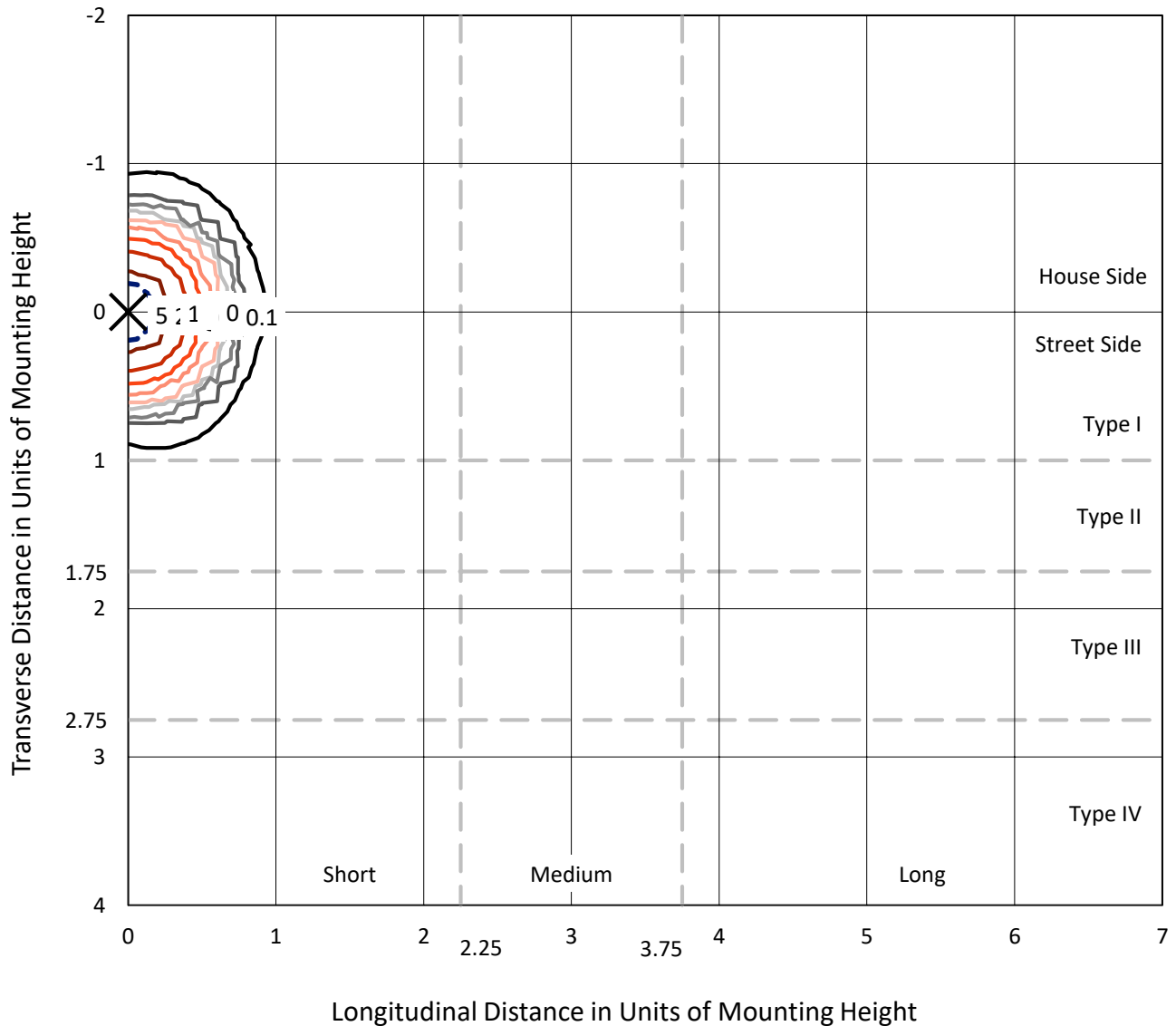


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

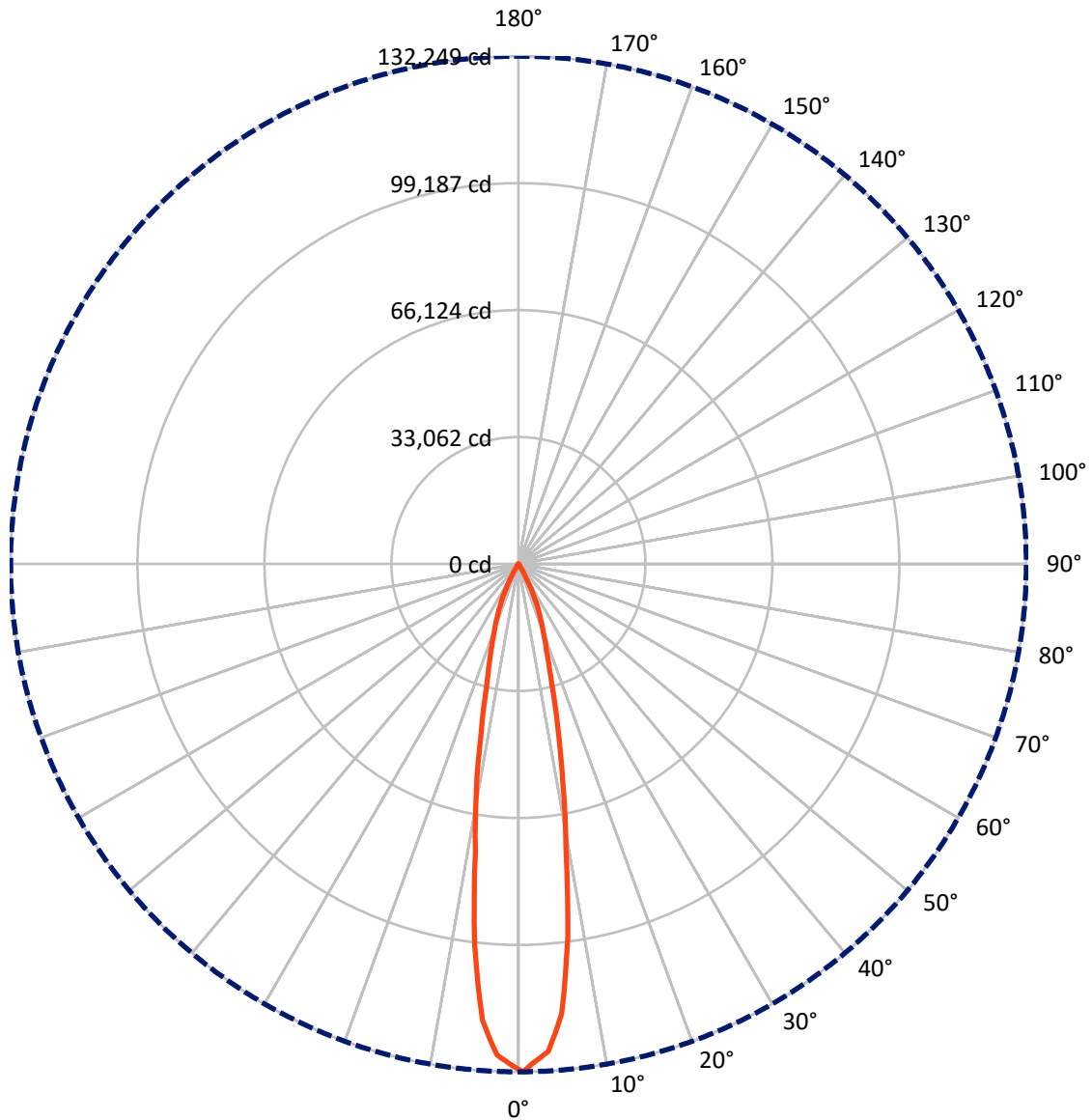


Based on 25 foot mounting height. Maximum calculated value = 211.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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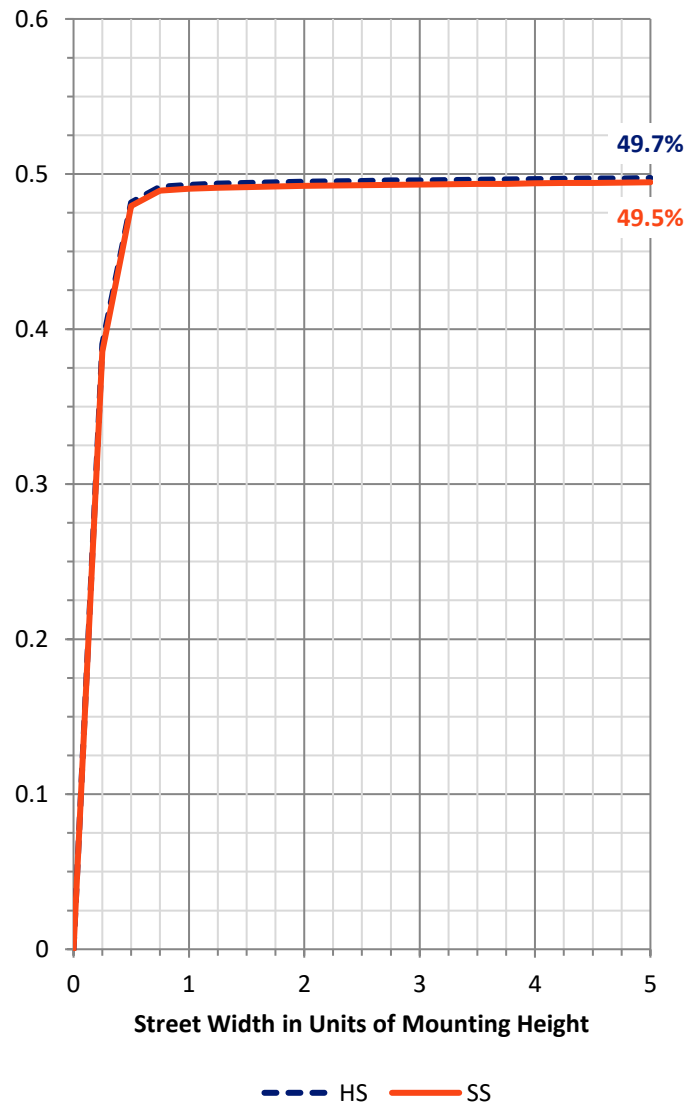
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12608.2	0.0	12608.2
	% Fixture	50.6	0.0	50.6
Street Side	Lumens	12312.3	0.0	12312.3
	% Fixture	49.4	0.0	49.4
Total	Lumens	24920.5	0.0	24920.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9407.2	37.7
10°-20°	9790.9	39.3
20°-30°	4741.9	19.0
30°-40°	920.5	3.7
40°-50°	109.8	0.4
50°-60°	58.1	0.2
60°-70°	45.1	0.2
70°-80°	100.6	0.4
80°-90°	76.6	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°	24920.5	100.0
0°-180°	24920.5	100.0



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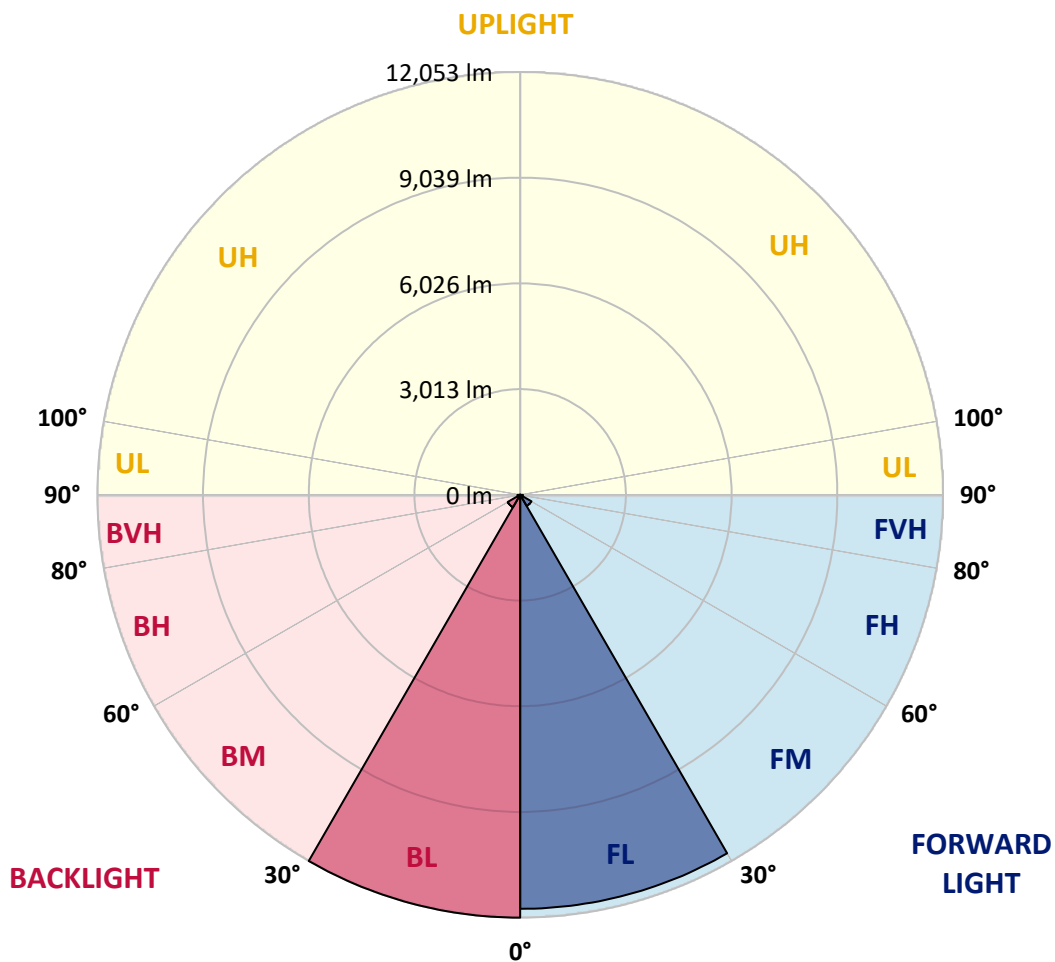
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11800.3	47.4			
FM (30°-60°)	370.7	1.5			
FH (60°-80°)	60.3	0.2			G0/660
FVH (80°-90°)	79.0	0.3			G1/100
BL (0°-30°)	12052.6	48.4	B5		
BM (30°-60°)	409.9	1.6	B1/1000		
BH (60°-80°)	64.1	0.3	B0/110		G0/660
BVH (80°-90°)	79.6	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°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	#####	130423.2	130571.5	130748.3	130940.1	131137.1	131333.3	131526.9	131719.8	131916.8	131728.9
3°	#####	127133.0	127234.0	126678.6	126417.8	126468.6	126829.7	127481.4	127653.3	127945.9	127891.0
5°	#####	117558.2	116397.4	116065.8	116330.8	116458.3	116325.4	116593.0	117700.4	118180.0	118079.9
7°	98222.9	97939.0	96766.1	96739.6	97253.9	97429.5	97271.9	97512.7	98582.7	99428.3	99112.7
9°	74831.8	74806.4	75031.8	75043.7	74879.4	74962.1	75428.2	75571.0	74720.3	74863.2	74824.7
11°	58122.1	58052.1	57990.6	58135.6	58527.2	58730.6	58690.1	58917.1	59054.0	59297.9	59077.9
13°	43971.4	43794.8	43974.0	44230.6	44379.3	44561.6	44669.8	44756.9	44695.2	45039.9	45020.7
15°	32327.3	32438.7	32751.5	32558.0	32886.3	32942.0	32471.6	32978.2	32699.2	32653.2	32966.8
17°	24973.9	25112.3	25199.6	25173.9	25271.8	25097.2	25224.2	25267.1	25220.8	25123.8	25391.7
19.5°	18955.7	19080.9	19228.6	19107.5	19207.6	19244.5	19255.4	19390.5	19441.2	19692.2	19520.9
22.5°	13816.9	13870.3	13914.3	14057.6	14092.0	14180.1	14202.8	14208.6	14381.4	14554.3	14509.0
25.5°	8825.5	8930.3	9052.6	9221.7	9376.9	9428.8	9448.8	9550.3	9575.4	9605.5	9674.2
29°	3615.3	3886.6	4171.5	4181.6	4378.7	4364.6	4482.9	4645.5	4450.9	4346.5	4532.3
33°	506.4	743.6	1080.9	864.1	1054.1	1021.2	1130.7	1268.8	1010.9	768.7	1049.7
37.5°	182.2	217.9	249.3	231.4	228.4	229.2	242.2	238.5	238.1	190.9	249.3
42.5°	143.8	163.2	182.1	178.7	178.4	157.9	150.7	144.7	153.0	150.8	157.4
47.5°	88.0	106.1	124.4	135.4	122.4	106.1	85.8	88.0	104.1	110.7	94.9
55°	27.9	61.0	74.7	68.8	50.8	39.0	22.7	14.0	27.8	13.9	22.9
65°	20.9	69.6	63.9	44.9	35.9	27.1	23.7	20.8	27.9	24.4	34.0
75°	7.0	66.4	40.9	30.6	40.7	54.2	70.4	71.3	100.3	88.0	112.1
85°	0.0	38.5	105.2	204.4	260.2	282.5	292.2	312.5	316.9	342.5	320.9
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°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	131552.7	131390.0	131243.0	131114.7	131009.1	130930.7	130884.8	130876.1	130884.8	130930.7	131009.1
3°	127915.9	127339.1	127010.0	126944.6	127144.8	127597.9	127704.8	127959.9	127704.8	127597.9	127144.8
5°	117150.6	117056.3	117514.0	118030.8	117966.1	118017.4	118800.4	119154.4	118800.4	118017.4	117966.1
7°	98388.3	98365.1	98834.3	99166.0	99599.9	99762.0	99831.6	100332.1	99831.6	99762.0	99599.9
9°	76002.9	76357.6	76194.7	75945.8	76490.2	77789.4	76169.4	75793.1	76169.4	77789.4	76490.2
11°	59052.7	59015.8	59371.4	59458.1	58850.9	59617.9	59137.4	60298.4	59137.4	59617.9	58850.9
13°	45292.3	44975.0	45010.0	45175.0	45309.6	45184.6	45211.5	44694.8	45211.5	45184.6	45309.6
15°	33647.6	33414.6	33354.8	33481.4	33397.0	33669.9	33763.3	33105.6	33763.3	33669.9	33397.0
17°	25619.7	25773.3	25868.8	25693.0	25872.4	26137.4	26190.3	26265.5	26190.3	26137.4	25872.4
19.5°	19605.7	19565.1	19757.0	19843.6	19764.0	20011.2	19981.1	20046.9	19981.1	20011.2	19764.0
22.5°	14468.0	14547.9	14665.2	14654.7	14682.7	14642.3	14680.6	14473.2	14680.6	14642.3	14682.7
25.5°	9805.4	9841.4	9899.4	9897.8	9896.3	9844.0	9751.7	9862.6	9751.7	9844.0	9896.3
29°	4798.4	4744.8	4711.2	4783.5	4648.7	4822.3	4586.1	4586.2	4586.1	4822.3	4648.7
33°	1329.8	1252.1	1173.5	1223.7	1025.9	1328.7	1012.9	780.1	1012.9	1328.7	1025.9
37.5°	252.7	267.9	266.2	259.3	255.7	283.8	249.1	203.9	249.1	283.8	255.7
42.5°	157.3	155.8	169.7	182.2	179.4	187.5	174.8	168.2	174.8	187.5	179.4
47.5°	96.0	102.6	116.6	119.6	134.4	137.1	119.0	95.0	119.0	137.1	134.4
55°	20.2	27.7	36.8	53.1	70.7	78.0	64.8	31.4	64.8	78.0	70.7
65°	29.3	28.9	25.5	38.7	49.0	67.9	74.7	20.9	74.7	67.9	49.0
75°	75.2	76.5	57.5	48.0	32.6	47.0	64.8	7.0	64.8	47.0	32.6
85°	314.6	288.6	283.8	266.2	210.2	103.9	26.3	10.5	26.3	103.9	210.2
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°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	131114.7	131243.0	131390.0	131552.7	131728.9	131916.8	131719.8	131526.9	131333.3	131137.1	130940.1
3°	126944.6	127010.0	127339.1	127915.9	127891.0	127945.9	127653.3	127481.4	126829.7	126468.6	126417.8
5°	118030.8	117514.0	117056.3	117150.6	118079.9	118180.0	117700.4	116593.0	116325.4	116458.3	116330.8
7°	99166.0	98834.3	98365.1	98388.3	99112.7	99428.3	98582.7	97512.7	97271.9	97429.5	97253.9
9°	75945.8	76194.7	76357.6	76002.9	74824.7	74863.2	74720.3	75571.0	75428.2	74962.1	74879.4
11°	59458.1	59371.4	59015.8	59052.7	59077.9	59297.9	59054.0	58917.1	58690.1	58730.6	58527.2
13°	45175.0	45010.0	44975.0	45292.3	45020.7	45039.9	44695.2	44756.9	44669.8	44561.6	44379.3
15°	33481.4	33354.8	33414.6	33647.6	32966.8	32653.2	32699.2	32978.2	32471.6	32942.0	32886.3
17°	25693.0	25868.8	25773.3	25619.7	25391.7	25123.8	25220.8	25267.1	25224.2	25097.2	25271.8
19.5°	19843.6	19757.0	19565.1	19605.7	19520.9	19692.2	19441.2	19390.5	19255.4	19244.5	19207.6
22.5°	14654.7	14665.2	14547.9	14468.0	14509.0	14554.3	14381.4	14208.6	14202.8	14180.1	14092.0
25.5°	9897.8	9899.4	9841.4	9805.4	9674.2	9605.5	9575.4	9550.3	9448.8	9428.8	9376.9
29°	4783.5	4711.2	4744.8	4798.4	4532.3	4346.5	4450.9	4645.5	4482.9	4364.6	4378.7
33°	1223.7	1173.5	1252.1	1329.8	1049.7	768.7	1010.9	1268.8	1130.7	1021.2	1054.1
37.5°	259.3	266.2	267.9	252.7	249.3	190.9	238.1	238.5	242.2	229.2	228.4
42.5°	182.2	169.7	155.8	157.3	157.4	150.8	153.0	144.7	150.7	157.9	178.4
47.5°	119.6	116.6	102.6	96.0	94.9	110.7	104.1	88.0	85.8	106.1	122.4
55°	53.1	36.8	27.7	20.2	22.9	13.9	27.8	14.0	22.7	39.0	50.8
65°	38.7	25.5	28.9	29.3	34.0	24.4	27.9	20.8	23.7	27.1	35.9
75°	48.0	57.5	76.5	75.2	112.1	88.0	100.3	71.3	70.4	54.2	40.7
85°	266.2	283.8	288.6	314.6	320.9	342.5	316.9	312.5	292.2	282.5	260.2
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):

	330°	340°	350°	360°
0°	#####	#####	#####	#####
1°	130748.3	130571.5	130423.2	130318.3
3°	126678.6	127234.0	127133.0	127173.7
5°	116065.8	116397.4	117558.2	117662.3
7°	96739.6	96766.1	97939.0	98222.9
9°	75043.7	75031.8	74806.4	74831.8
11°	58135.6	57990.6	58052.1	58122.1
13°	44230.6	43974.0	43794.8	43971.4
15°	32558.0	32751.5	32438.7	32327.3
17°	25173.9	25199.6	25112.3	24973.9
19.5°	19107.5	19228.6	19080.9	18955.7
22.5°	14057.6	13914.3	13870.3	13816.9
25.5°	9221.7	9052.6	8930.3	8825.5
29°	4181.6	4171.5	3886.6	3615.3
33°	864.1	1080.9	743.6	506.4
37.5°	231.4	249.3	217.9	182.2
42.5°	178.7	182.1	163.2	143.8
47.5°	135.4	124.4	106.1	88.0
55°	68.8	74.7	61.0	27.9
65°	44.9	63.9	69.6	20.9
75°	30.6	40.9	66.4	7.0
85°	204.4	105.2	38.5	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)