

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: P214471

Luminaire Tested: **NFFLD-L-C75-D-UNV-33-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214471
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-33-7060
Description: NIGHT CONDOR LED FLOODLIGHT SPOT OPTIC
Light Source: (16) 5700K CCT, 70 CRI LEDS
CLU028-1204C4-40ALK3
Ballast/Driver: OSRAM
OT100/UNV/800C/2DIMLT2

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24181 lumens
Efficiency: N/A
Efficacy: 102.5 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

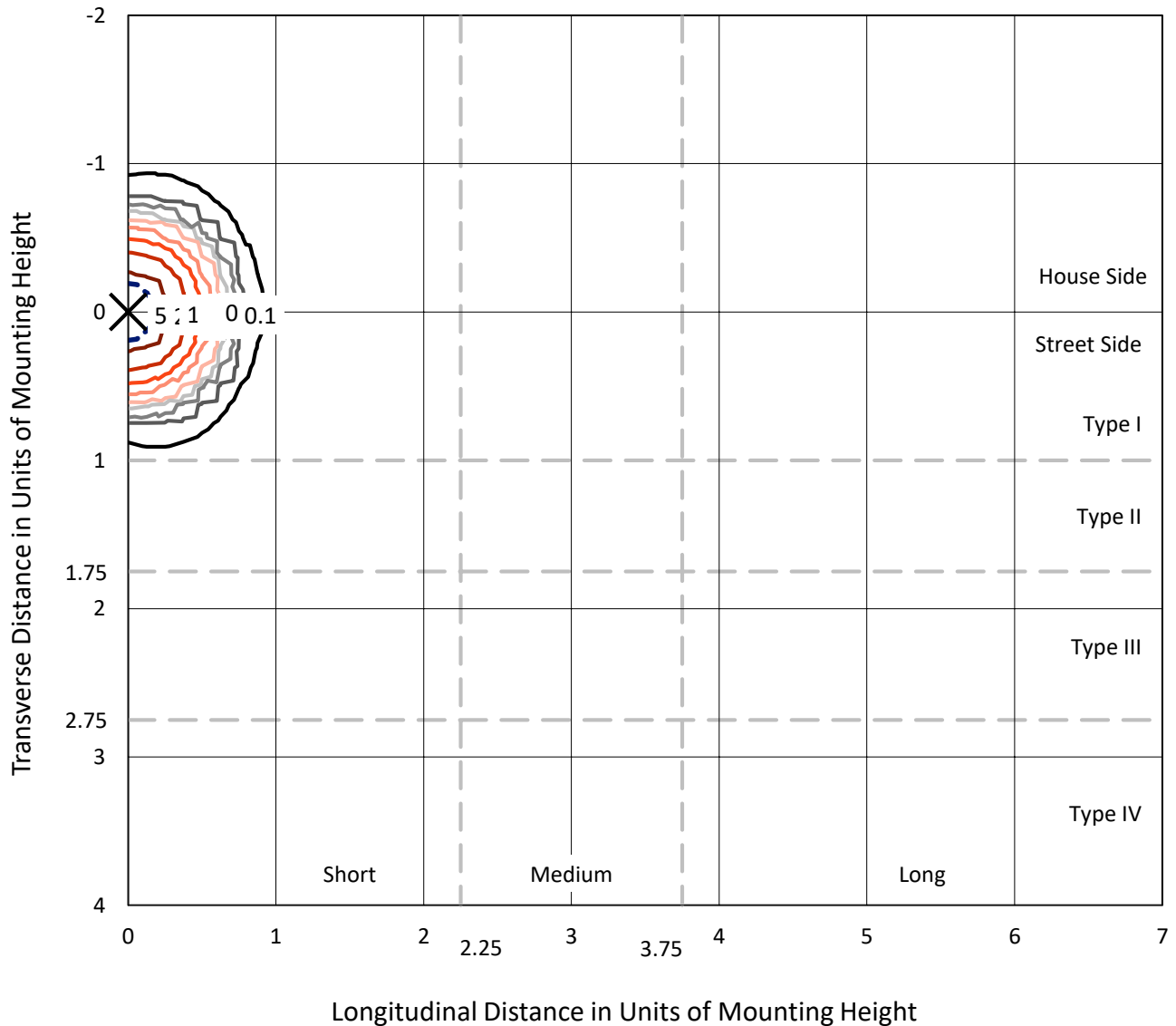
Input Watts (W): 236
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

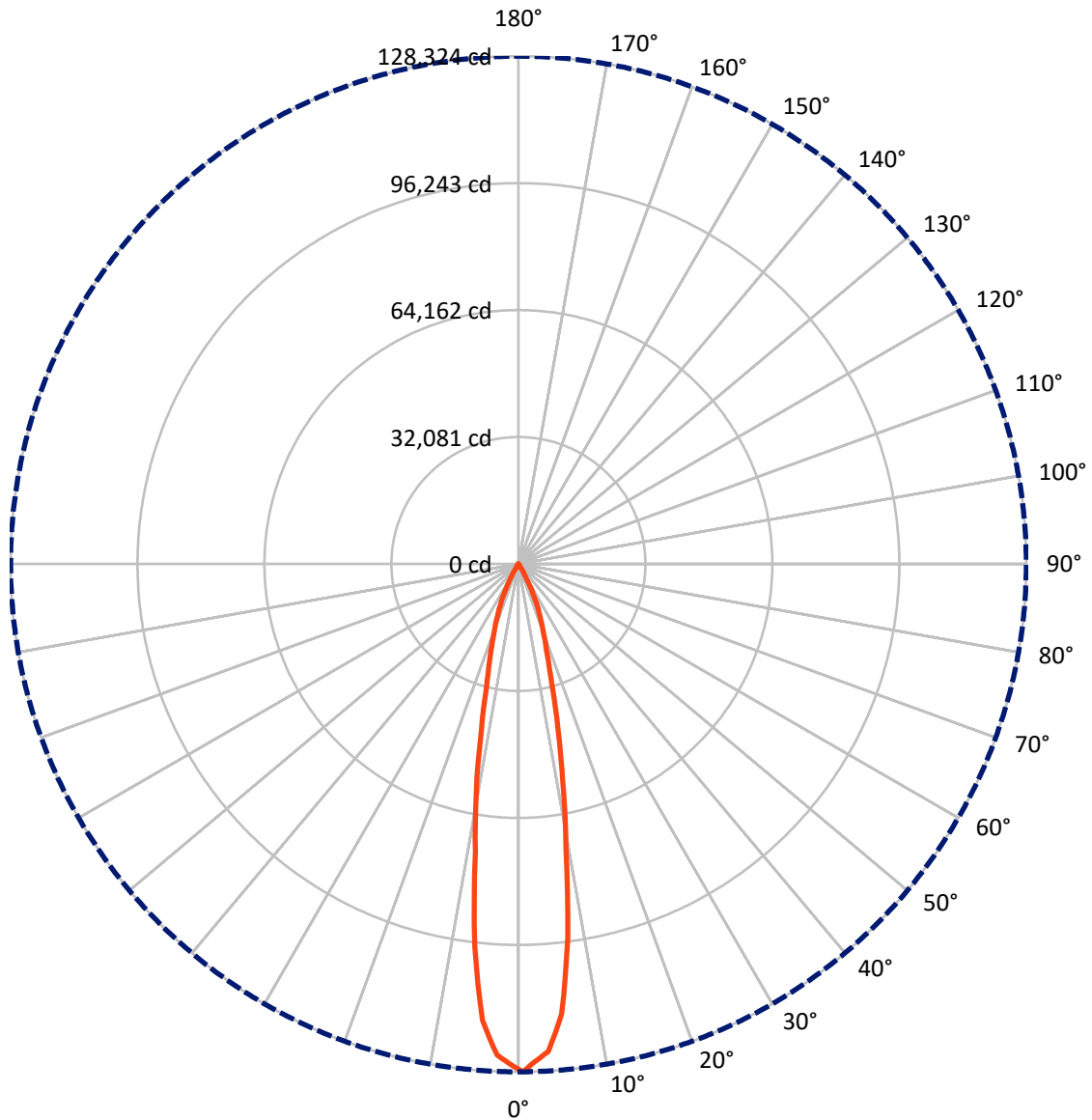
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 205.3 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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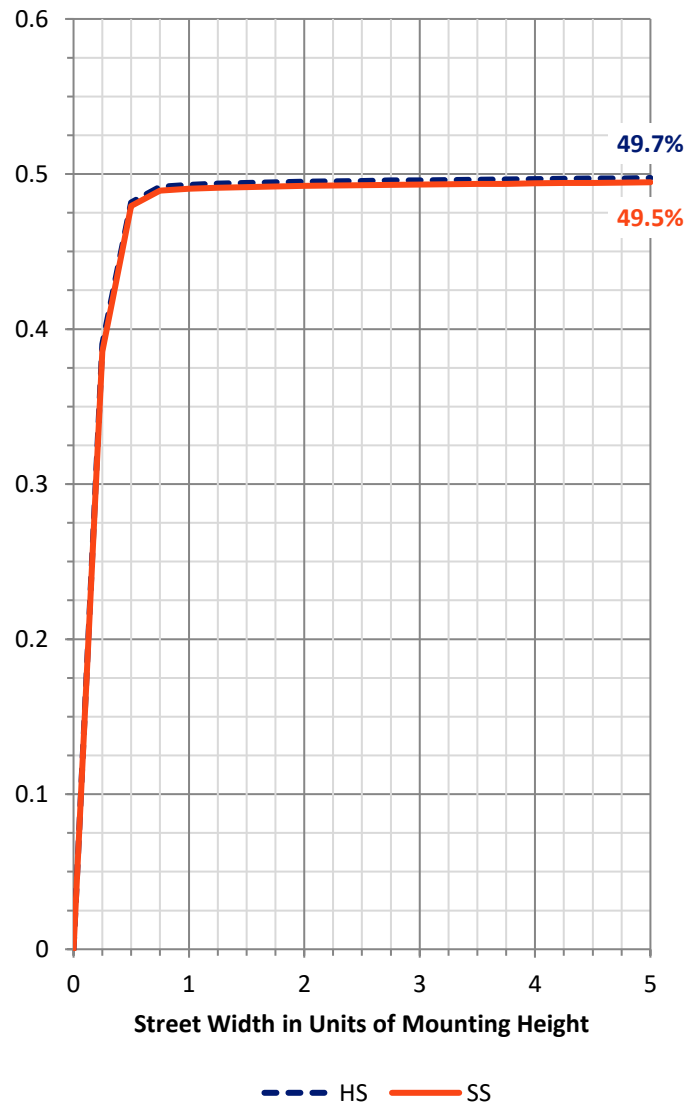
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12234.1	0.0	12234.1
	% Fixture	50.6	0.0	50.6
Street Side	Lumens	11946.9	0.0	11946.9
	% Fixture	49.4	0.0	49.4
Total	Lumens	24181.0	0.0	24181.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9128.0	37.7
10°-20°	9500.3	39.3
20°-30°	4601.2	19.0
30°-40°	893.2	3.7
40°-50°	106.5	0.4
50°-60°	56.3	0.2
60°-70°	43.8	0.2
70°-80°	97.7	0.4
80°-90°	74.4	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°	24181.0	100.0
0°-180°	24181.0	100.0



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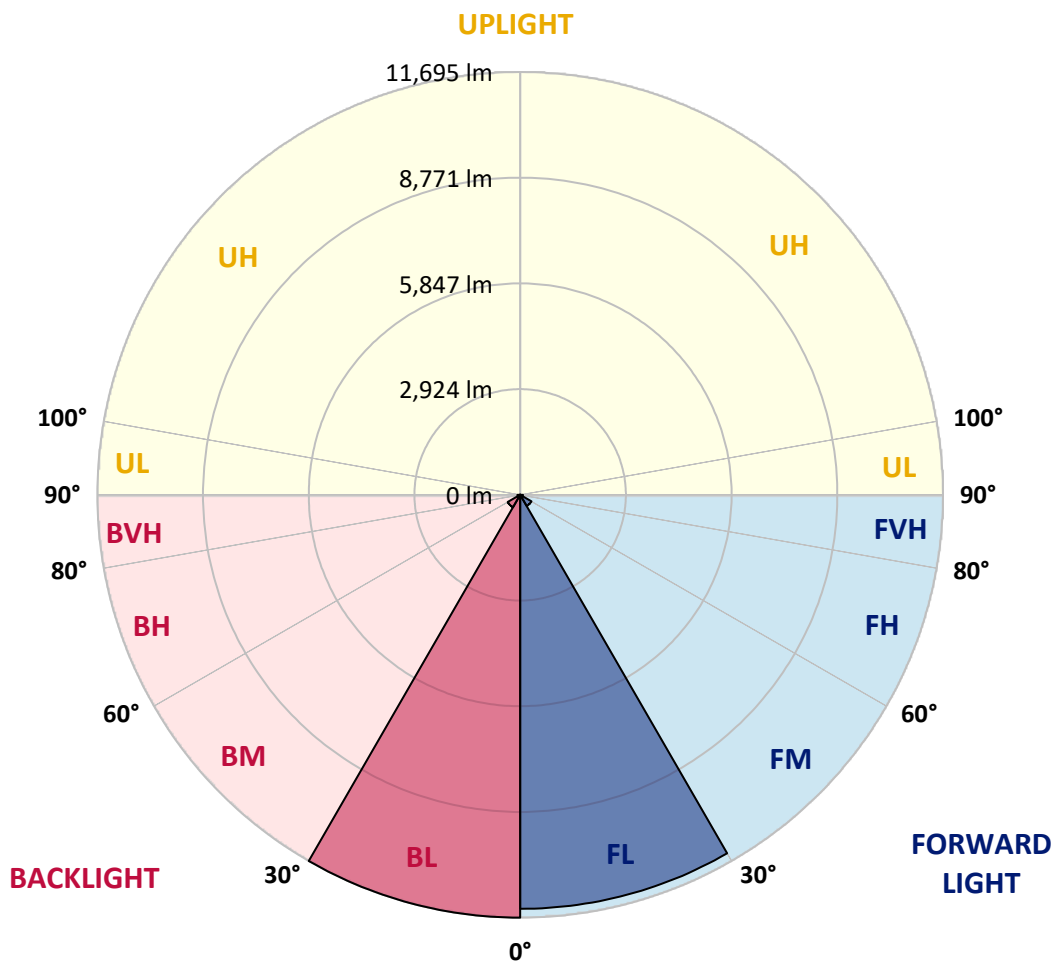
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11450.2	47.4			
FM	(30°-60°)	359.7	1.5			
FH	(60°-80°)	58.5	0.2			G0/660
FVH	(80°-90°)	76.7	0.3			G1/100
BL	(0°-30°)	11694.9	48.4	B5		
BM	(30°-60°)	397.7	1.6	B1/1000		
BH	(60°-80°)	62.2	0.3	B0/110		G0/660
BVH	(80°-90°)	77.3	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°	#####	126552.9	126696.8	126868.3	127054.4	127245.6	127436.0	127623.8	127811.0	128002.1	127819.8
3°	#####	123360.3	123458.3	122919.4	122666.3	122715.6	123066.0	123698.3	123865.2	124149.1	124095.8
5°	#####	114069.7	112943.3	112621.6	112878.7	113002.4	112873.4	113133.1	114207.6	114673.0	114575.9
7°	95308.1	95032.6	93894.6	93868.8	94367.9	94538.3	94385.4	94619.0	95657.2	96477.7	96171.4
9°	72611.2	72586.5	72805.3	72816.7	72657.3	72737.6	73189.8	73328.5	72503.0	72641.6	72604.2
11°	56397.3	56329.5	56269.7	56410.4	56790.4	56987.8	56948.4	57168.7	57301.5	57538.2	57324.7
13°	42666.5	42495.2	42669.1	42918.0	43062.3	43239.3	43344.2	43428.7	43368.8	43703.4	43684.7
15°	31367.9	31476.1	31779.6	31591.8	31910.4	31964.4	31508.0	31999.6	31728.9	31684.2	31988.4
17°	24232.8	24367.0	24451.8	24426.9	24521.9	24352.4	24475.7	24517.3	24472.3	24378.2	24638.2
19.5°	18393.2	18514.7	18657.9	18540.5	18637.6	18673.4	18684.0	18815.1	18864.3	19107.8	18941.7
22.5°	13406.9	13458.7	13501.4	13640.5	13673.8	13759.4	13781.4	13787.0	13954.6	14122.4	14078.4
25.5°	8563.6	8665.3	8784.0	8948.0	9098.6	9149.0	9168.4	9266.9	9291.3	9320.5	9387.1
29°	3508.0	3771.2	4047.7	4057.5	4248.8	4235.0	4349.9	4507.6	4318.8	4217.5	4397.8
33°	491.4	721.5	1048.8	838.4	1022.9	990.9	1097.2	1231.1	980.9	745.9	1018.6
37.5°	176.8	211.4	241.9	224.5	221.6	222.5	235.0	231.4	231.0	185.2	242.0
42.5°	139.5	158.3	176.7	173.5	173.1	153.2	146.2	140.4	148.4	146.3	152.8
47.5°	85.4	102.9	120.7	131.4	118.8	102.9	83.2	85.4	101.1	107.4	92.1
55°	27.1	59.1	72.4	66.8	49.3	37.9	22.1	13.6	26.9	13.5	22.2
65°	20.3	67.6	61.9	43.6	34.9	26.3	23.0	20.2	27.1	23.7	33.0
75°	6.8	64.4	39.7	29.7	39.5	52.6	68.3	69.2	97.4	85.4	108.8
85°	0.0	37.4	102.2	198.4	252.5	274.1	283.5	303.2	307.5	332.4	311.4
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°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	127648.8	127490.9	127348.3	127223.8	127121.3	127045.3	127000.7	126992.3	127000.7	127045.3	127121.3
3°	124120.0	123560.3	123241.0	123177.5	123371.7	123811.5	123915.1	124162.6	123915.1	123811.5	123371.7
5°	113674.1	113582.6	114026.7	114528.3	114465.4	114515.1	115275.0	115618.5	115275.0	114515.1	114465.4
7°	95468.6	95446.1	95901.4	96223.2	96644.3	96801.5	96869.1	97354.7	96869.1	96801.5	96644.3
9°	73747.5	74091.7	73933.6	73692.1	74220.3	75480.9	73909.0	73544.0	73909.0	75480.9	74220.3
11°	57300.3	57264.5	57609.5	57693.7	57104.5	57848.7	57382.5	58509.1	57382.5	57848.7	57104.5
13°	43948.2	43640.3	43674.3	43834.4	43965.0	43843.8	43869.9	43368.5	43869.9	43843.8	43965.0
15°	32649.1	32423.0	32365.0	32487.9	32405.9	32670.7	32761.3	32123.2	32761.3	32670.7	32405.9
17°	24859.4	25008.5	25101.1	24930.5	25104.6	25361.7	25413.1	25486.1	25413.1	25361.7	25104.6
19.5°	19023.9	18984.5	19170.7	19254.8	19177.5	19417.4	19388.1	19452.0	19388.1	19417.4	19177.5
22.5°	14038.7	14116.1	14230.0	14219.8	14247.0	14207.7	14245.0	14043.7	14245.0	14207.7	14247.0
25.5°	9514.5	9549.3	9605.6	9604.0	9602.7	9551.8	9462.3	9570.0	9462.3	9551.8	9602.7
29°	4656.0	4604.0	4571.3	4641.5	4510.7	4679.2	4450.0	4450.1	4450.0	4679.2	4510.7
33°	1290.4	1214.9	1138.7	1187.4	995.4	1289.3	982.9	756.9	982.9	1289.3	995.4
37.5°	245.2	259.9	258.3	251.7	248.1	275.4	241.7	197.9	241.7	275.4	248.1
42.5°	152.6	151.1	164.7	176.8	174.1	182.0	169.6	163.2	169.6	182.0	174.1
47.5°	93.1	99.6	113.1	116.0	130.4	133.0	115.5	92.2	115.5	133.0	130.4
55°	19.6	26.8	35.7	51.5	68.6	75.7	62.8	30.4	62.8	75.7	68.6
65°	28.5	28.0	24.8	37.5	47.5	65.9	72.4	20.3	72.4	65.9	47.5
75°	73.0	74.3	55.8	46.6	31.6	45.6	62.8	6.8	62.8	45.6	31.6
85°	305.3	280.1	275.4	258.3	204.0	100.8	25.6	10.1	25.6	100.8	204.0
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	127223.8	127348.3	127490.9	127648.8	127819.8	128002.1	127811.0	127623.8	127436.0	127245.6	127054.4
3°	123177.5	123241.0	123560.3	124120.0	124095.8	124149.1	123865.2	123698.3	123066.0	122715.6	122666.3
5°	114528.3	114026.7	113582.6	113674.1	114575.9	114673.0	114207.6	113133.1	112873.4	113002.4	112878.7
7°	96223.2	95901.4	95446.1	95468.6	96171.4	96477.7	95657.2	94619.0	94385.4	94538.3	94367.9
9°	73692.1	73933.6	74091.7	73747.5	72604.2	72641.6	72503.0	73328.5	73189.8	72737.6	72657.3
11°	57693.7	57609.5	57264.5	57300.3	57324.7	57538.2	57301.5	57168.7	56948.4	56987.8	56790.4
13°	43834.4	43674.3	43640.3	43948.2	43684.7	43703.4	43368.8	43428.7	43344.2	43239.3	43062.3
15°	32487.9	32365.0	32423.0	32649.1	31988.4	31684.2	31728.9	31999.6	31508.0	31964.4	31910.4
17°	24930.5	25101.1	25008.5	24859.4	24638.2	24378.2	24472.3	24517.3	24475.7	24352.4	24521.9
19.5°	19254.8	19170.7	18984.5	19023.9	18941.7	19107.8	18864.3	18815.1	18684.0	18673.4	18637.6
22.5°	14219.8	14230.0	14116.1	14038.7	14078.4	14122.4	13954.6	13787.0	13781.4	13759.4	13673.8
25.5°	9604.0	9605.6	9549.3	9514.5	9387.1	9320.5	9291.3	9266.9	9168.4	9149.0	9098.6
29°	4641.5	4571.3	4604.0	4656.0	4397.8	4217.5	4318.8	4507.6	4349.9	4235.0	4248.8
33°	1187.4	1138.7	1214.9	1290.4	1018.6	745.9	980.9	1231.1	1097.2	990.9	1022.9
37.5°	251.7	258.3	259.9	245.2	242.0	185.2	231.0	231.4	235.0	222.5	221.6
42.5°	176.8	164.7	151.1	152.6	152.8	146.3	148.4	140.4	146.2	153.2	173.1
47.5°	116.0	113.1	99.6	93.1	92.1	107.4	101.1	85.4	83.2	102.9	118.8
55°	51.5	35.7	26.8	19.6	22.2	13.5	26.9	13.6	22.1	37.9	49.3
65°	37.5	24.8	28.0	28.5	33.0	23.7	27.1	20.2	23.0	26.3	34.9
75°	46.6	55.8	74.3	73.0	108.8	85.4	97.4	69.2	68.3	52.6	39.5
85°	258.3	275.4	280.1	305.3	311.4	332.4	307.5	303.2	283.5	274.1	252.5
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°	126868.3	126696.8	126552.9	126451.1
3°	122919.4	123458.3	123360.3	123399.8
5°	112621.6	112943.3	114069.7	114170.7
7°	93868.8	93894.6	95032.6	95308.1
9°	72816.7	72805.3	72586.5	72611.2
11°	56410.4	56269.7	56329.5	56397.3
13°	42918.0	42669.1	42495.2	42666.5
15°	31591.8	31779.6	31476.1	31367.9
17°	24426.9	24451.8	24367.0	24232.8
19.5°	18540.5	18657.9	18514.7	18393.2
22.5°	13640.5	13501.4	13458.7	13406.9
25.5°	8948.0	8784.0	8665.3	8563.6
29°	4057.5	4047.7	3771.2	3508.0
33°	838.4	1048.8	721.5	491.4
37.5°	224.5	241.9	211.4	176.8
42.5°	173.5	176.7	158.3	139.5
47.5°	131.4	120.7	102.9	85.4
55°	66.8	72.4	59.1	27.1
65°	43.6	61.9	67.6	20.3
75°	29.7	39.7	64.4	6.8
85°	198.4	102.2	37.4	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)