

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: P214469

Luminaire Tested: **NFFLD-L-C75-D-UNV-33-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214469
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-33-7030
Description: NIGHT CONDOR LED FLOODLIGHT SPOT OPTIC
Light Source: (16) 3000K CCT, 70 CRI LEDS
CLU028-1204C4-40ALK3
Ballast/Driver: OSRAM
OT100/UNV/800C/2DIMLT2

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23955.7 lumens
Efficiency: N/A
Efficacy: 101.5 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

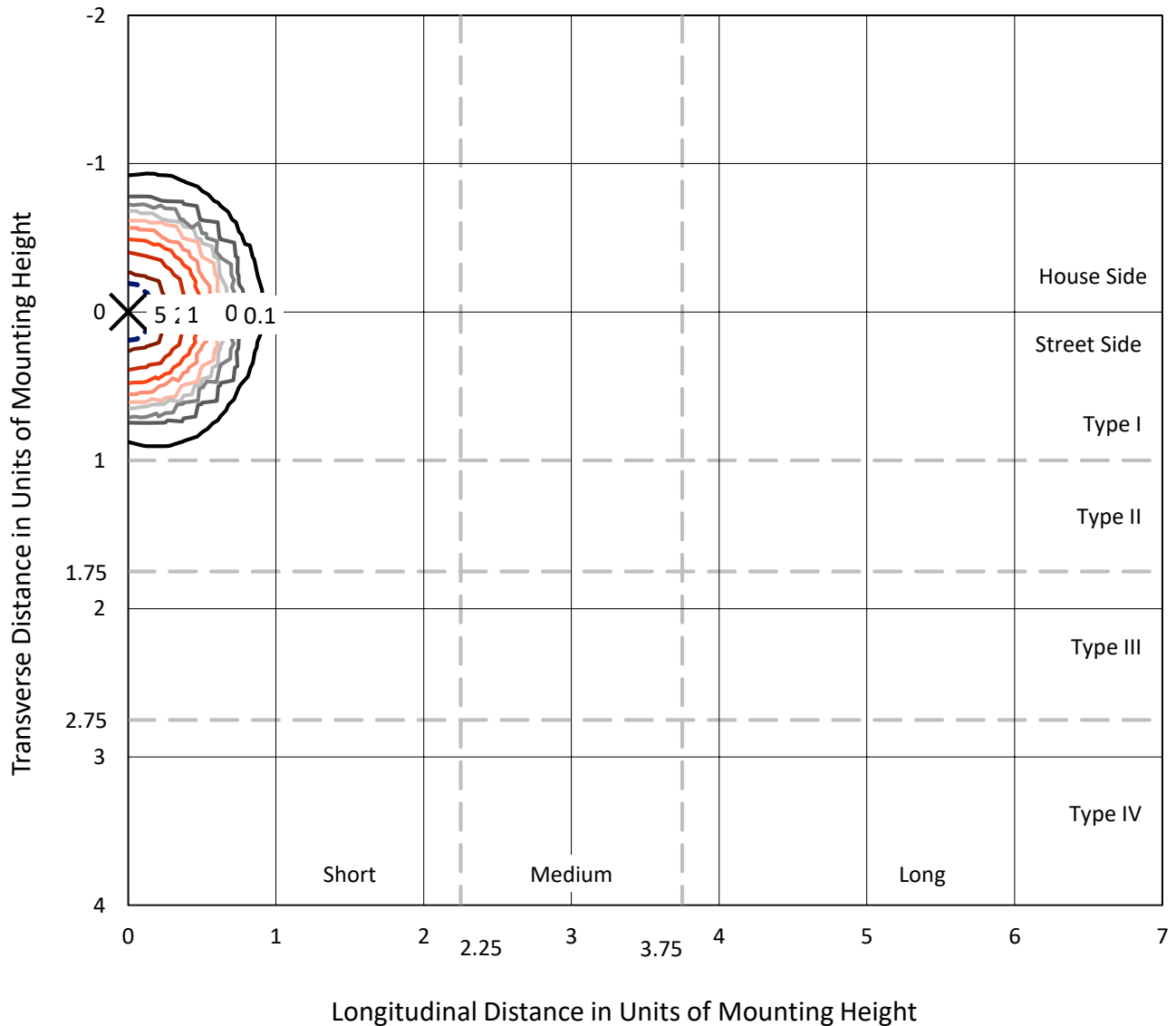
Input Watts (W): 236
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

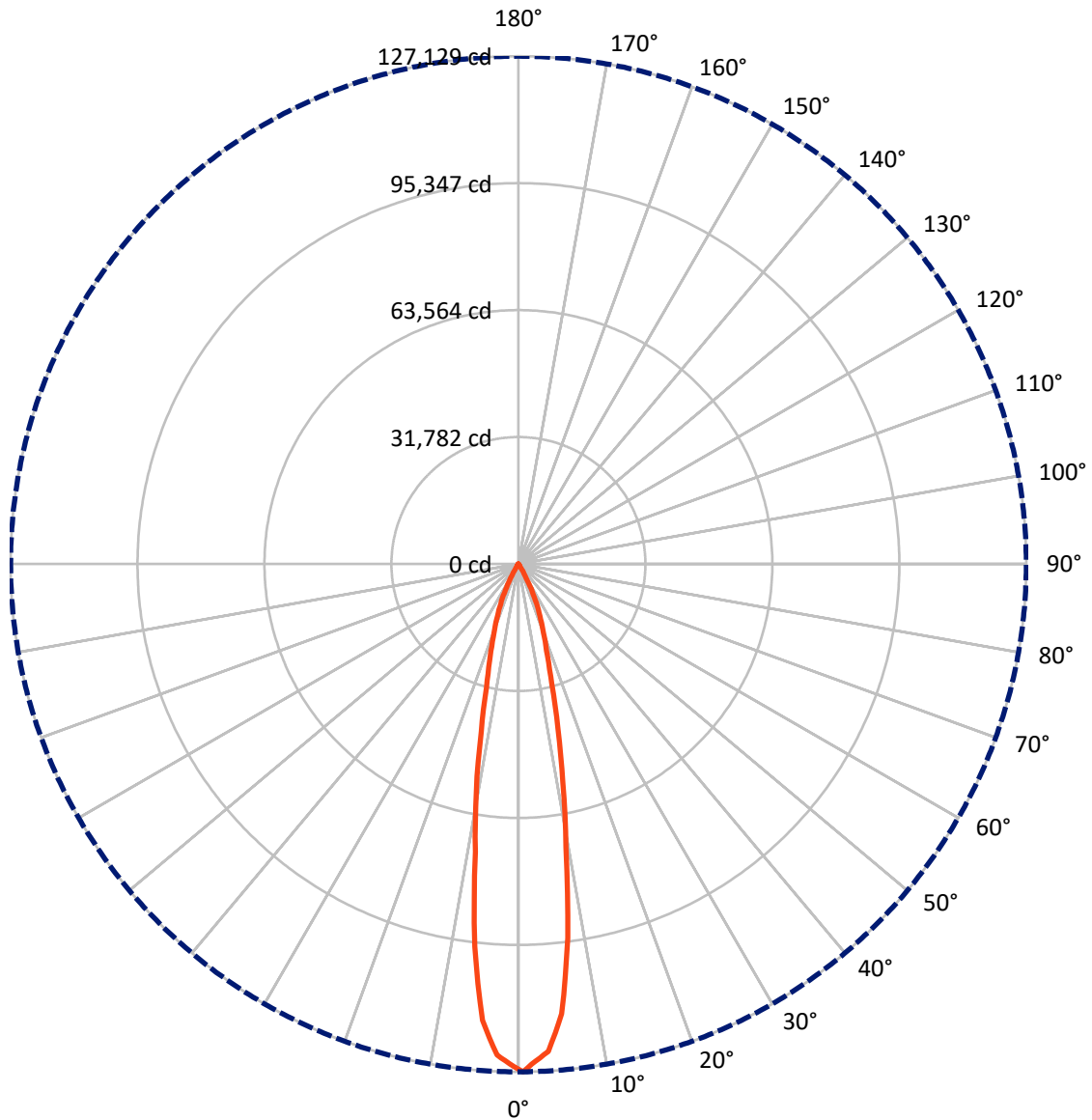
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 203.4 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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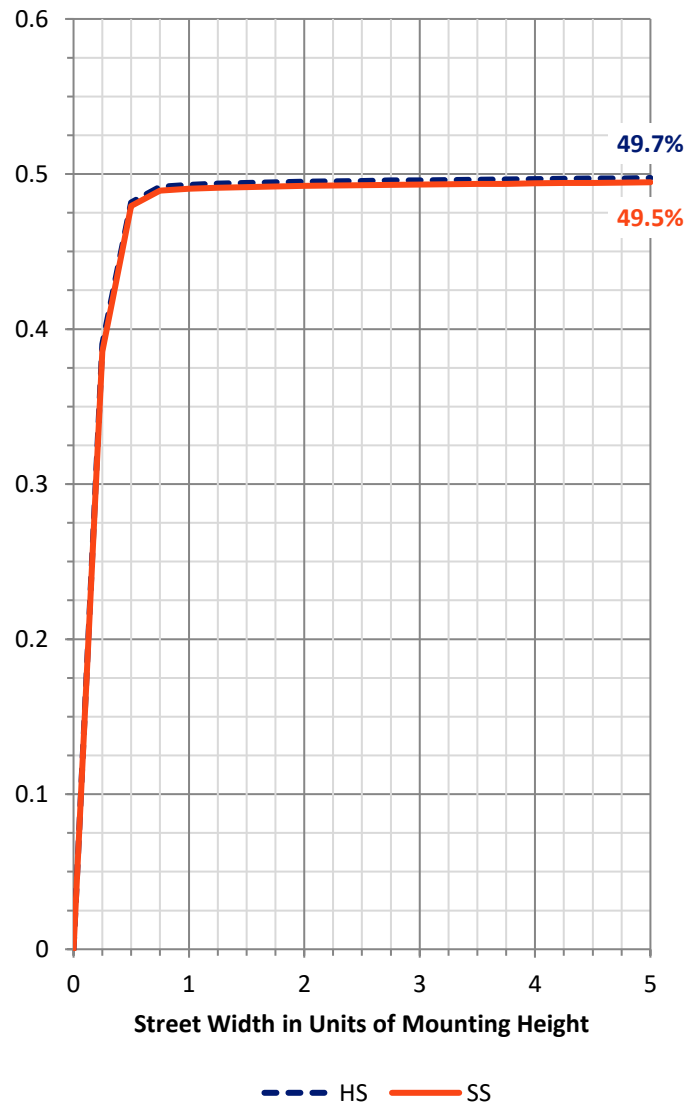
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12120.1	0.0	12120.1
	% Fixture	50.6	0.0	50.6
Street Side	Lumens	11835.6	0.0	11835.6
	% Fixture	49.4	0.0	49.4
Total	Lumens	23955.7	0.0	23955.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9043.0	37.7
10°-20°	9411.8	39.3
20°-30°	4558.3	19.0
30°-40°	884.9	3.7
40°-50°	105.5	0.4
50°-60°	55.8	0.2
60°-70°	43.4	0.2
70°-80°	96.7	0.4
80°-90°	73.7	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°	23955.7	100.0
0°-180°	23955.7	100.0



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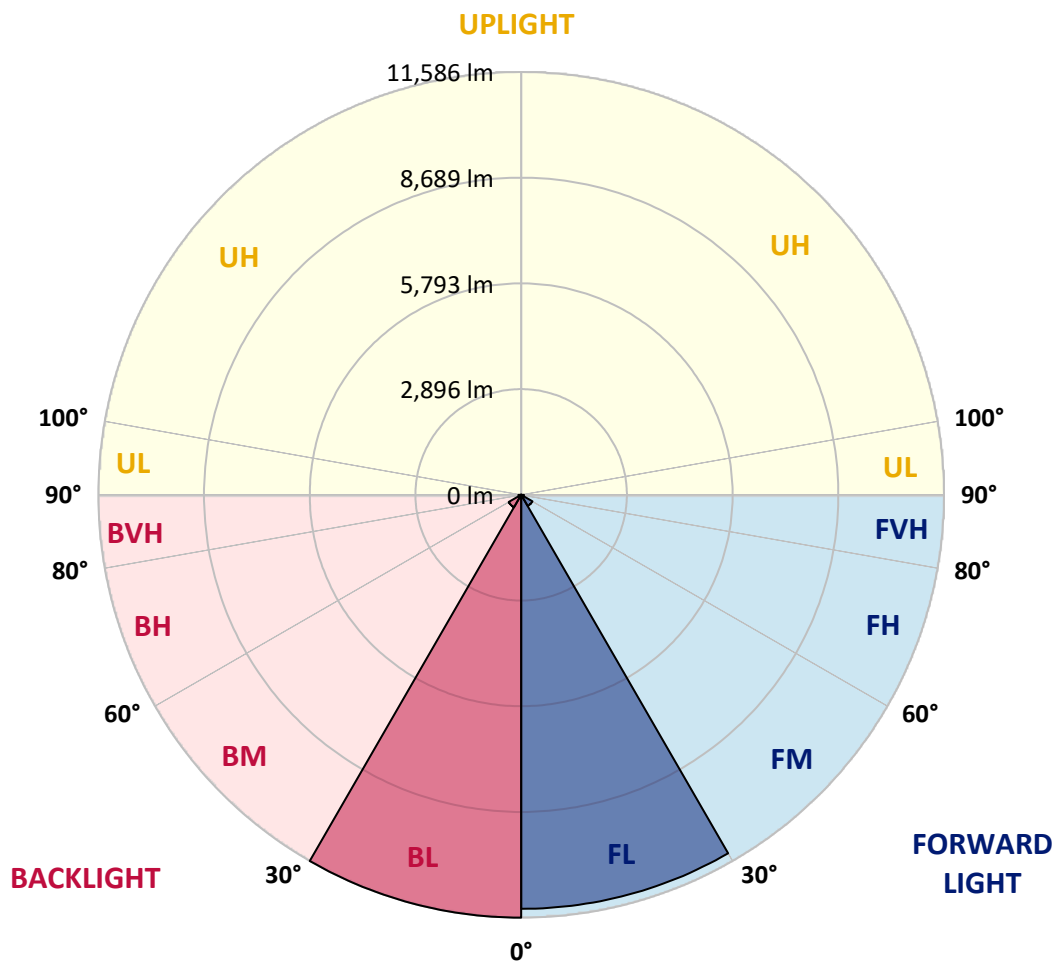
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11343.5	47.4			
FM	(30°-60°)	356.3	1.5			
FH	(60°-80°)	58.0	0.2			G0/660
FVH	(80°-90°)	76.0	0.3			G1/100
BL	(0°-30°)	11585.9	48.4	B5		
BM	(30°-60°)	394.0	1.6	B1/1000		
BH	(60°-80°)	61.7	0.3	B0/110		G0/660
BVH	(80°-90°)	76.5	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°	#####	125373.8	125516.4	125686.3	125870.7	126060.1	126248.7	126434.8	126620.2	126809.5	126628.9
3°	#####	122211.0	122308.1	121774.2	121523.5	121572.3	121919.3	122545.8	122711.1	122992.4	122939.6
5°	#####	113006.9	111891.0	111572.2	111826.9	111949.6	111821.8	112079.0	113143.5	113604.6	113508.4
7°	94420.1	94147.2	93019.8	92994.2	93488.6	93657.5	93506.0	93737.4	94765.9	95578.8	95275.4
9°	71934.6	71910.2	72126.9	72138.2	71980.4	72059.9	72507.9	72645.3	71827.4	71964.8	71927.7
11°	55871.9	55804.6	55745.4	55884.8	56261.2	56456.8	56417.8	56636.1	56767.7	57002.1	56790.6
13°	42269.0	42099.3	42271.5	42518.2	42661.1	42836.4	42940.4	43024.1	42964.8	43296.2	43277.8
15°	31075.7	31182.8	31483.5	31297.4	31613.1	31666.6	31214.4	31701.5	31433.2	31389.0	31690.4
17°	24007.0	24140.0	24224.0	24199.3	24293.4	24125.5	24247.7	24288.9	24244.3	24151.1	24408.7
19.5°	18221.8	18342.2	18484.1	18367.8	18463.9	18499.4	18509.9	18639.8	18688.5	18929.8	18765.2
22.5°	13282.0	13333.3	13375.6	13513.3	13546.3	13631.2	13652.9	13658.5	13824.7	13990.8	13947.3
25.5°	8483.8	8584.5	8702.1	8864.7	9013.8	9063.8	9083.0	9180.6	9204.7	9233.6	9299.7
29°	3475.3	3736.1	4010.0	4019.7	4209.2	4195.6	4309.4	4465.6	4278.6	4178.2	4356.8
33°	486.8	714.7	1039.0	830.6	1013.3	981.6	1087.0	1219.7	971.8	739.0	1009.0
37.5°	175.1	209.4	239.6	222.4	219.5	220.4	232.8	229.2	228.8	183.5	239.7
42.5°	138.2	156.8	175.0	171.8	171.4	151.8	144.8	139.1	147.0	144.9	151.3
47.5°	84.6	102.0	119.5	130.1	117.7	102.0	82.4	84.5	100.1	106.4	91.2
55°	26.8	58.6	71.8	66.1	48.9	37.5	21.9	13.4	26.7	13.4	22.0
65°	20.1	66.9	61.4	43.1	34.5	26.1	22.8	20.1	26.8	23.5	32.7
75°	6.7	63.8	39.3	29.4	39.2	52.1	67.7	68.6	96.4	84.6	107.7
85°	0.0	37.1	101.2	196.5	250.2	271.6	280.8	300.4	304.7	329.3	308.5
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
1°	126459.5	126303.1	126161.8	126038.5	125937.0	125861.7	125817.5	125809.2	125817.5	125861.7	125937.0
3°	122963.5	122409.1	122092.7	122029.9	122222.3	122657.9	122760.6	123005.8	122760.6	122657.9	122222.3
5°	112615.0	112524.4	112964.4	113461.2	113399.0	113448.2	114200.9	114541.3	114200.9	113448.2	113399.0
7°	94579.2	94556.9	95007.9	95326.7	95743.9	95899.6	95966.6	96447.7	95966.6	95899.6	95743.9
9°	73060.3	73401.4	73244.8	73005.5	73528.8	74777.7	73220.4	72858.8	73220.4	74777.7	73528.8
11°	56766.4	56730.9	57072.8	57156.2	56572.4	57309.7	56847.9	57963.9	56847.9	57309.7	56572.4
13°	43538.8	43233.7	43267.4	43426.0	43555.4	43435.3	43461.2	42964.4	43461.2	43435.3	43555.4
15°	32345.0	32120.9	32063.4	32185.2	32104.0	32366.3	32456.1	31823.9	32456.1	32366.3	32104.0
17°	24627.8	24775.5	24867.2	24698.3	24870.7	25125.5	25176.3	25248.6	25176.3	25125.5	24870.7
19.5°	18846.7	18807.6	18992.0	19075.4	18998.8	19236.5	19207.5	19270.8	19207.5	19236.5	18998.8
22.5°	13907.9	13984.7	14097.5	14087.4	14114.2	14075.4	14112.2	13912.9	14112.2	14075.4	14114.2
25.5°	9425.8	9460.4	9516.1	9514.6	9513.2	9462.9	9374.1	9480.8	9374.1	9462.9	9513.2
29°	4612.6	4561.2	4528.7	4598.3	4468.6	4635.6	4408.6	4408.6	4408.6	4635.6	4468.6
33°	1278.3	1203.6	1128.1	1176.4	986.1	1277.3	973.7	749.9	973.7	1277.3	986.1
37.5°	242.9	257.5	255.9	249.3	245.8	272.8	239.5	196.1	239.5	272.8	245.8
42.5°	151.2	149.7	163.1	175.2	172.5	180.3	168.0	161.7	168.0	180.3	172.5
47.5°	92.3	98.6	112.1	115.0	129.2	131.8	114.4	91.3	114.4	131.8	129.2
55°	19.5	26.6	35.4	51.1	68.0	75.0	62.3	30.2	62.3	75.0	68.0
65°	28.2	27.7	24.6	37.2	47.1	65.3	71.8	20.1	71.8	65.3	47.1
75°	72.3	73.6	55.3	46.2	31.4	45.2	62.2	6.7	62.2	45.2	31.4
85°	302.4	277.4	272.9	255.9	202.1	99.8	25.3	10.1	25.3	99.8	202.1
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°	126038.5	126161.8	126303.1	126459.5	126628.9	126809.5	126620.2	126434.8	126248.7	126060.1	125870.7
3°	122029.9	122092.7	122409.1	122963.5	122939.6	122992.4	122711.1	122545.8	121919.3	121572.3	121523.5
5°	113461.2	112964.4	112524.4	112615.0	113508.4	113604.6	113143.5	112079.0	111821.8	111949.6	111826.9
7°	95326.7	95007.9	94556.9	94579.2	95275.4	95578.8	94765.9	93737.4	93506.0	93657.5	93488.6
9°	73005.5	73244.8	73401.4	73060.3	71927.7	71964.8	71827.4	72645.3	72507.9	72059.9	71980.4
11°	57156.2	57072.8	56730.9	56766.4	56790.6	57002.1	56767.7	56636.1	56417.8	56456.8	56261.2
13°	43426.0	43267.4	43233.7	43538.8	43277.8	43296.2	42964.8	43024.1	42940.4	42836.4	42661.1
15°	32185.2	32063.4	32120.9	32345.0	31690.4	31389.0	31433.2	31701.5	31214.4	31666.6	31613.1
17°	24698.3	24867.2	24775.5	24627.8	24408.7	24151.1	24244.3	24288.9	24247.7	24125.5	24293.4
19.5°	19075.4	18992.0	18807.6	18846.7	18765.2	18929.8	18688.5	18639.8	18509.9	18499.4	18463.9
22.5°	14087.4	14097.5	13984.7	13907.9	13947.3	13990.8	13824.7	13658.5	13652.9	13631.2	13546.3
25.5°	9514.6	9516.1	9460.4	9425.8	9299.7	9233.6	9204.7	9180.6	9083.0	9063.8	9013.8
29°	4598.3	4528.7	4561.2	4612.6	4356.8	4178.2	4278.6	4465.6	4309.4	4195.6	4209.2
33°	1176.4	1128.1	1203.6	1278.3	1009.0	739.0	971.8	1219.7	1087.0	981.6	1013.3
37.5°	249.3	255.9	257.5	242.9	239.7	183.5	228.8	229.2	232.8	220.4	219.5
42.5°	175.2	163.1	149.7	151.2	151.3	144.9	147.0	139.1	144.8	151.8	171.4
47.5°	115.0	112.1	98.6	92.3	91.2	106.4	100.1	84.5	82.4	102.0	117.7
55°	51.1	35.4	26.6	19.5	22.0	13.4	26.7	13.4	21.9	37.5	48.9
65°	37.2	24.6	27.7	28.2	32.7	23.5	26.8	20.1	22.8	26.1	34.5
75°	46.2	55.3	73.6	72.3	107.7	84.6	96.4	68.6	67.7	52.1	39.2
85°	255.9	272.9	277.4	302.4	308.5	329.3	304.7	300.4	280.8	271.6	250.2
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°	125686.3	125516.4	125373.8	125273.0
3°	121774.2	122308.1	122211.0	122250.1
5°	111572.2	111891.0	113006.9	113106.9
7°	92994.2	93019.8	94147.2	94420.1
9°	72138.2	72126.9	71910.2	71934.6
11°	55884.8	55745.4	55804.6	55871.9
13°	42518.2	42271.5	42099.3	42269.0
15°	31297.4	31483.5	31182.8	31075.7
17°	24199.3	24224.0	24140.0	24007.0
19.5°	18367.8	18484.1	18342.2	18221.8
22.5°	13513.3	13375.6	13333.3	13282.0
25.5°	8864.7	8702.1	8584.5	8483.8
29°	4019.7	4010.0	3736.1	3475.3
33°	830.6	1039.0	714.7	486.8
37.5°	222.4	239.6	209.4	175.1
42.5°	171.8	175.0	156.8	138.2
47.5°	130.1	119.5	102.0	84.6
55°	66.1	71.8	58.6	26.8
65°	43.1	61.4	66.9	20.1
75°	29.4	39.3	63.8	6.7
85°	196.5	101.2	37.1	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)