

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: P214470

Luminaire Tested: **NFFLD-L-C75-D-UNV-33-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214470
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-33-7050
Description: NIGHT CONDOR LED FLOODLIGHT SPOT OPTIC
Light Source: (16) 5000K CCT, 70 CRI LEDS
CLU028-1204C4-40ALK3
Ballast/Driver: OSRAM
OT100/UNV/800C/2DIMLT2

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24572 lumens
Efficiency: N/A
Efficacy: 104.1 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

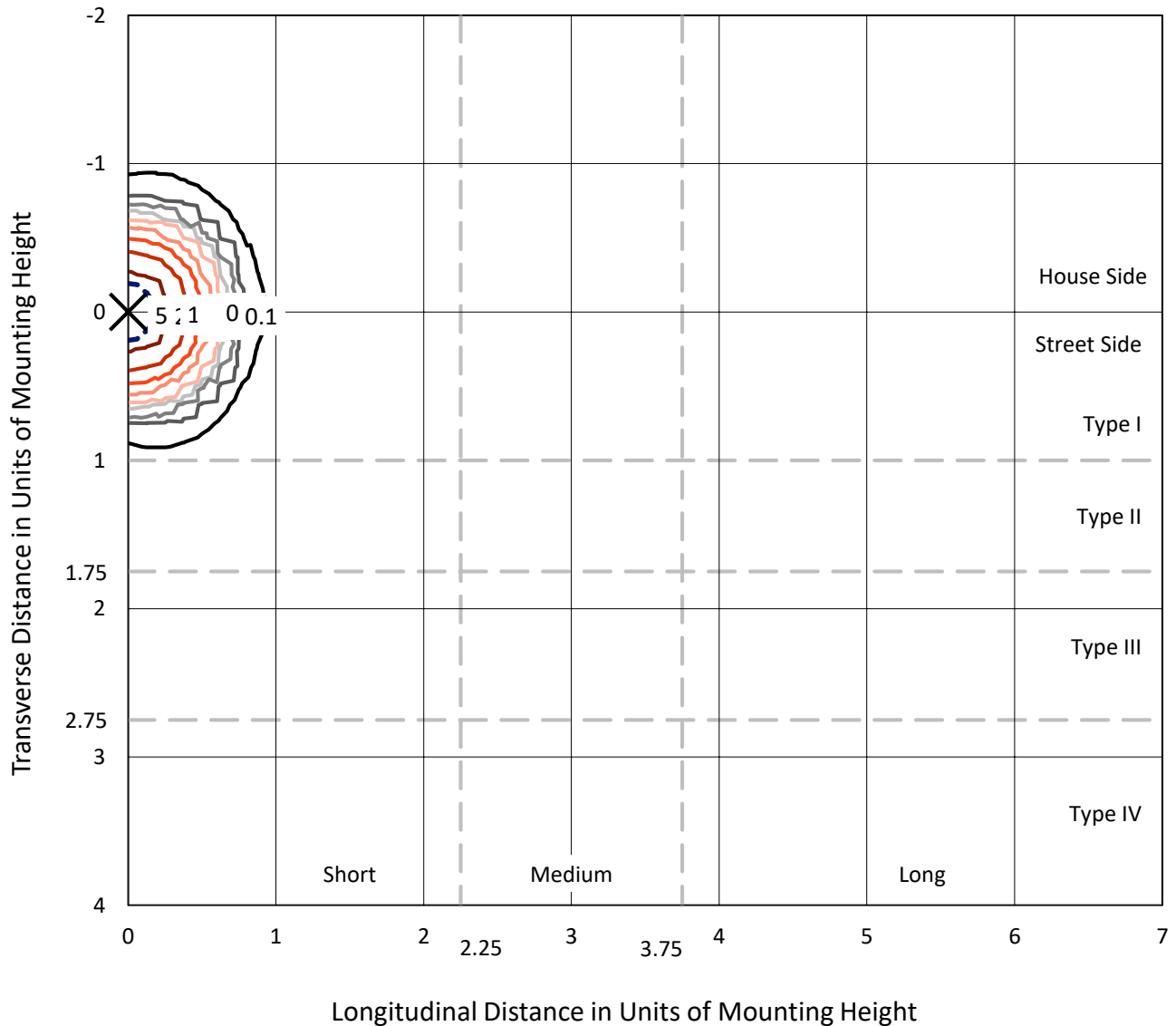
Input Watts (W): 236
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

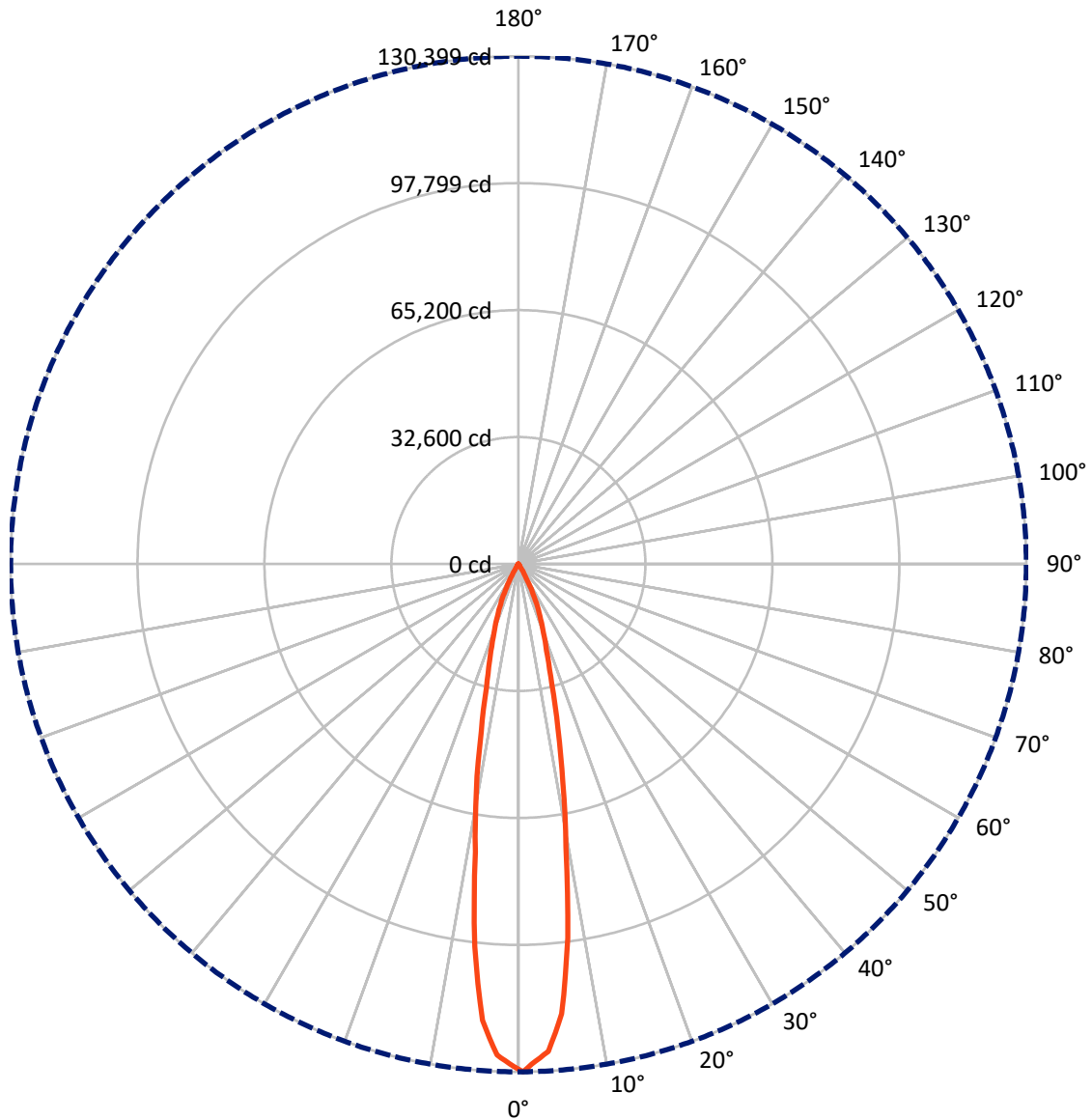
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 208.6 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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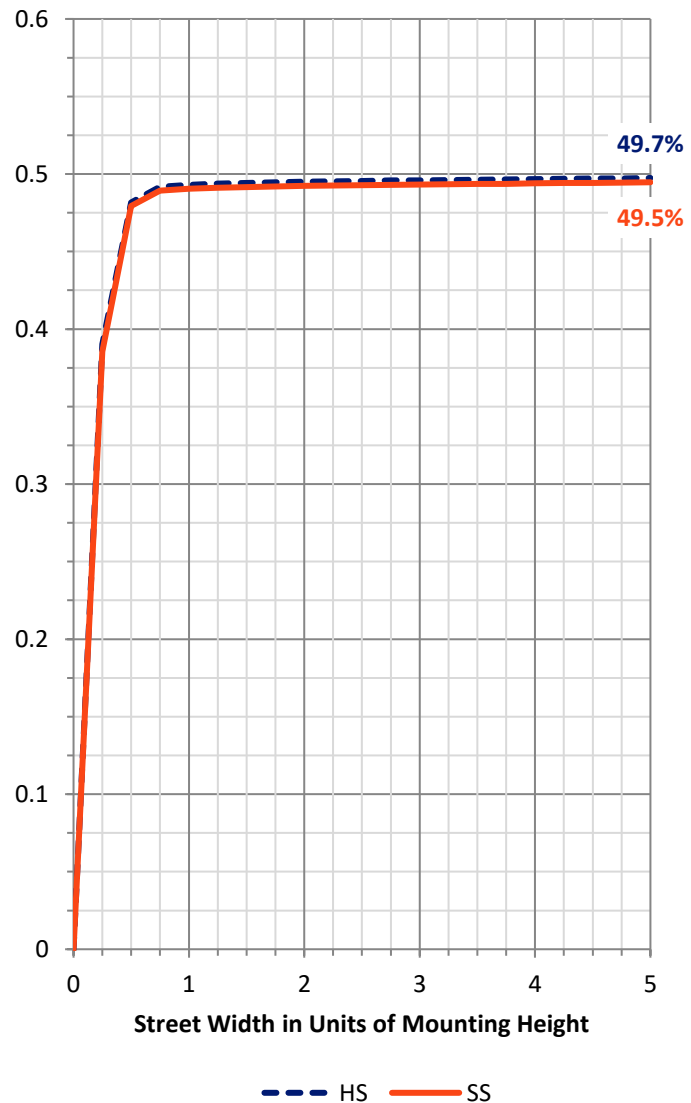
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12431.9	0.0	12431.9
	% Fixture	50.6	0.0	50.6
Street Side	Lumens	12140.1	0.0	12140.1
	% Fixture	49.4	0.0	49.4
Total	Lumens	24572.0	0.0	24572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9275.6	37.7
10°-20°	9653.9	39.3
20°-30°	4675.6	19.0
30°-40°	907.6	3.7
40°-50°	108.3	0.4
50°-60°	57.3	0.2
60°-70°	44.5	0.2
70°-80°	99.2	0.4
80°-90°	75.6	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°	24572.0	100.0
0°-180°	24572.0	100.0



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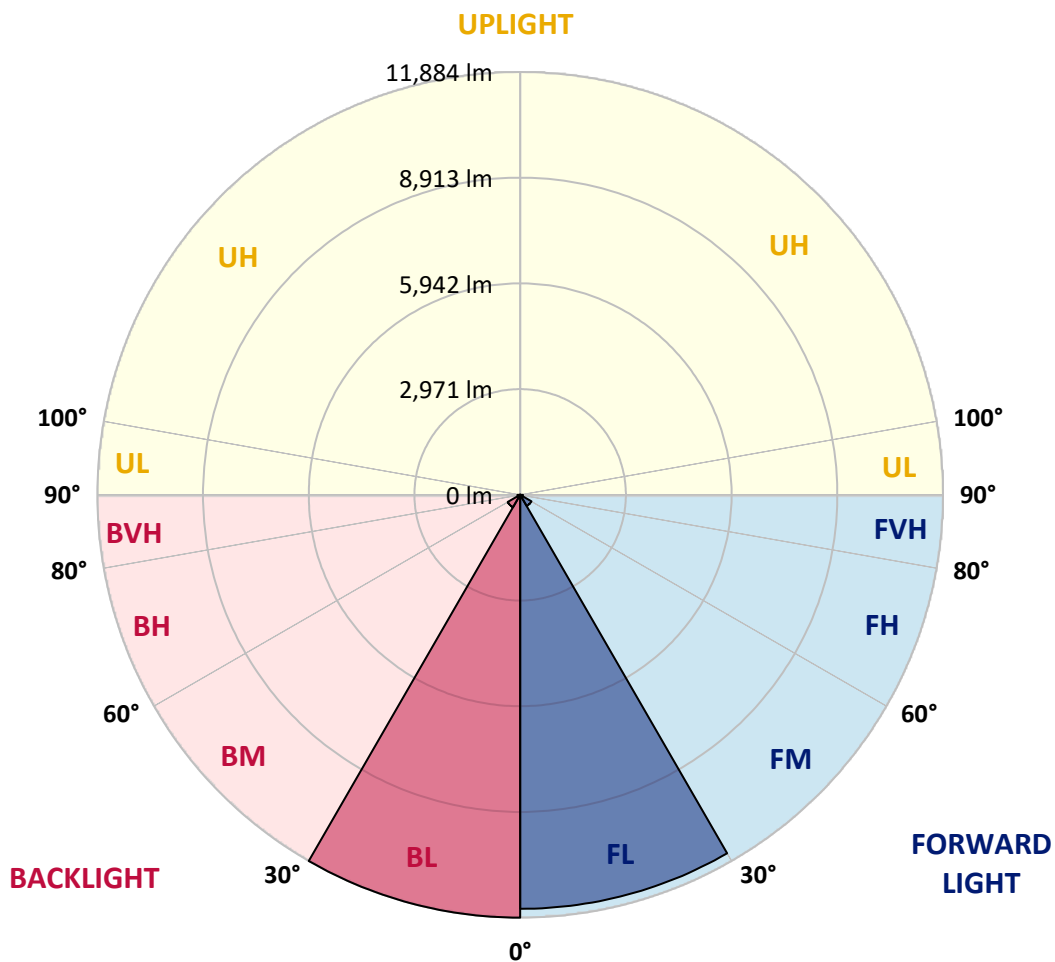
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11635.3	47.4			
FM	(30°-60°)	365.5	1.5			
FH	(60°-80°)	59.5	0.2			G0/660
FVH	(80°-90°)	77.9	0.3			G1/100
BL	(0°-30°)	11884.0	48.4	B5		
BM	(30°-60°)	404.2	1.6	B1/1000		
BH	(60°-80°)	63.3	0.3	B0/110		G0/660
BVH	(80°-90°)	78.5	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°	#####	128599.1	128745.4	128919.6	129108.8	129303.1	129496.5	129687.4	129877.6	130071.8	129886.5
3°	#####	125354.9	125454.5	124906.8	124649.7	124699.8	125055.8	125698.3	125867.9	126156.4	126102.2
5°	#####	115914.0	114769.4	114442.5	114703.8	114829.5	114698.4	114962.3	116054.1	116527.1	116428.4
7°	96849.1	96569.2	95412.8	95386.6	95893.7	96066.9	95911.5	96148.9	97203.9	98037.6	97726.4
9°	73785.2	73760.2	73982.5	73994.1	73832.2	73913.7	74373.2	74514.1	73675.2	73816.1	73778.1
11°	57309.2	57240.2	57179.5	57322.5	57708.6	57909.2	57869.2	58093.1	58228.1	58468.5	58251.6
13°	43356.4	43182.4	43359.0	43612.0	43758.6	43938.4	44045.0	44130.9	44070.1	44410.0	44391.1
15°	31875.1	31985.0	32293.4	32102.6	32426.3	32481.3	32017.4	32517.0	32241.9	32196.5	32505.7
17°	24624.6	24761.0	24847.2	24821.8	24918.4	24746.1	24871.4	24913.7	24868.0	24772.4	25036.6
19.5°	18690.6	18814.1	18959.6	18840.3	18938.9	18975.3	18986.1	19119.3	19169.3	19416.7	19247.9
22.5°	13623.7	13676.3	13719.7	13860.9	13894.8	13981.9	14004.2	14009.9	14180.3	14350.7	14306.1
25.5°	8702.0	8805.4	8926.0	9092.7	9245.7	9297.0	9316.6	9416.8	9441.5	9471.2	9538.9
29°	3564.7	3832.2	4113.2	4123.1	4317.4	4303.5	4420.3	4580.5	4388.7	4285.7	4468.9
33°	499.3	733.1	1065.8	852.0	1039.4	1006.9	1114.9	1251.0	996.7	758.0	1035.0
37.5°	179.6	214.8	245.8	228.1	225.2	226.1	238.8	235.1	234.7	188.2	245.8
42.5°	141.8	160.8	179.5	176.3	175.9	155.7	148.6	142.7	150.8	148.7	155.2
47.5°	86.8	104.6	122.6	133.5	120.7	104.6	84.6	86.7	102.7	109.1	93.5
55°	27.5	60.1	73.6	67.8	50.1	38.5	22.4	13.8	27.4	13.8	22.5
65°	20.6	68.7	63.0	44.3	35.5	26.7	23.3	20.6	27.5	24.1	33.6
75°	6.9	65.4	40.3	30.2	40.2	53.4	69.4	70.3	98.9	86.8	110.5
85°	0.0	38.0	103.8	201.6	256.6	278.6	288.1	308.1	312.5	337.7	316.4
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°	129712.8	129552.3	129407.4	129280.9	129176.8	129099.5	129054.2	129045.7	129054.2	129099.5	129176.8
3°	126126.8	125558.1	125233.6	125169.1	125366.5	125813.4	125918.7	126170.2	125918.7	125813.4	125366.5
5°	115512.0	115419.1	115870.4	116380.0	116316.2	116366.7	117138.8	117487.9	117138.8	116366.7	116316.2
7°	97012.2	96989.3	97452.0	97779.0	98206.9	98366.7	98435.4	98928.8	98435.4	98366.7	98206.9
9°	74939.8	75289.6	75129.0	74883.5	75420.4	76701.4	75104.0	74733.1	75104.0	76701.4	75420.4
11°	58226.7	58190.3	58541.0	58626.5	58027.7	58784.0	58310.3	59455.1	58310.3	58784.0	58027.7
13°	44658.8	44346.0	44380.5	44543.2	44675.8	44552.7	44579.2	44069.7	44579.2	44552.7	44675.8
15°	33177.0	32947.2	32888.3	33013.2	32929.9	33199.0	33291.0	32642.5	33291.0	33199.0	32929.9
17°	25261.4	25412.9	25507.0	25333.6	25510.5	25771.8	25824.0	25898.2	25824.0	25771.8	25510.5
19.5°	19331.5	19291.5	19480.7	19566.1	19487.5	19731.3	19701.6	19766.5	19701.6	19731.3	19487.5
22.5°	14265.7	14344.4	14460.1	14449.8	14477.4	14437.5	14475.3	14270.8	14475.3	14437.5	14477.4
25.5°	9668.3	9703.7	9760.9	9759.3	9757.9	9706.3	9615.3	9724.7	9615.3	9706.3	9757.9
29°	4731.3	4678.5	4645.3	4716.6	4583.6	4754.9	4522.0	4522.0	4522.0	4754.9	4583.6
33°	1311.2	1234.6	1157.1	1206.6	1011.5	1310.1	998.7	769.1	998.7	1310.1	1011.5
37.5°	249.2	264.1	262.5	255.8	252.1	279.9	245.6	201.1	245.6	279.9	252.1
42.5°	155.1	153.6	167.3	179.7	176.9	184.9	172.4	165.9	172.4	184.9	176.9
47.5°	94.7	101.2	115.0	117.9	132.6	135.2	117.4	93.7	117.4	135.2	132.6
55°	20.0	27.3	36.3	52.4	69.8	76.9	63.9	30.9	63.9	76.9	69.8
65°	28.9	28.5	25.2	38.1	48.3	67.0	73.6	20.6	73.6	67.0	48.3
75°	74.2	75.5	56.7	47.4	32.1	46.4	63.9	6.9	63.9	46.4	32.1
85°	310.2	284.6	279.9	262.5	207.3	102.4	25.9	10.3	25.9	102.4	207.3
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°	129280.9	129407.4	129552.3	129712.8	129886.5	130071.8	129877.6	129687.4	129496.5	129303.1	129108.8
3°	125169.1	125233.6	125558.1	126126.8	126102.2	126156.4	125867.9	125698.3	125055.8	124699.8	124649.7
5°	116380.0	115870.4	115419.1	115512.0	116428.4	116527.1	116054.1	114962.3	114698.4	114829.5	114703.8
7°	97779.0	97452.0	96989.3	97012.2	97726.4	98037.6	97203.9	96148.9	95911.5	96066.9	95893.7
9°	74883.5	75129.0	75289.6	74939.8	73778.1	73816.1	73675.2	74514.1	74373.2	73913.7	73832.2
11°	58626.5	58541.0	58190.3	58226.7	58251.6	58468.5	58228.1	58093.1	57869.2	57909.2	57708.6
13°	44543.2	44380.5	44346.0	44658.8	44391.1	44410.0	44070.1	44130.9	44045.0	43938.4	43758.6
15°	33013.2	32888.3	32947.2	33177.0	32505.7	32196.5	32241.9	32517.0	32017.4	32481.3	32426.3
17°	25333.6	25507.0	25412.9	25261.4	25036.6	24772.4	24868.0	24913.7	24871.4	24746.1	24918.4
19.5°	19566.1	19480.7	19291.5	19331.5	19247.9	19416.7	19169.3	19119.3	18986.1	18975.3	18938.9
22.5°	14449.8	14460.1	14344.4	14265.7	14306.1	14350.7	14180.3	14009.9	14004.2	13981.9	13894.8
25.5°	9759.3	9760.9	9703.7	9668.3	9538.9	9471.2	9441.5	9416.8	9316.6	9297.0	9245.7
29°	4716.6	4645.3	4678.5	4731.3	4468.9	4285.7	4388.7	4580.5	4420.3	4303.5	4317.4
33°	1206.6	1157.1	1234.6	1311.2	1035.0	758.0	996.7	1251.0	1114.9	1006.9	1039.4
37.5°	255.8	262.5	264.1	249.2	245.8	188.2	234.7	235.1	238.8	226.1	225.2
42.5°	179.7	167.3	153.6	155.1	155.2	148.7	150.8	142.7	148.6	155.7	175.9
47.5°	117.9	115.0	101.2	94.7	93.5	109.1	102.7	86.7	84.6	104.6	120.7
55°	52.4	36.3	27.3	20.0	22.5	13.8	27.4	13.8	22.4	38.5	50.1
65°	38.1	25.2	28.5	28.9	33.6	24.1	27.5	20.6	23.3	26.7	35.5
75°	47.4	56.7	75.5	74.2	110.5	86.8	98.9	70.3	69.4	53.4	40.2
85°	262.5	279.9	284.6	310.2	316.4	337.7	312.5	308.1	288.1	278.6	256.6
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°	128919.6	128745.4	128599.1	128495.7
3°	124906.8	125454.5	125354.9	125395.0
5°	114442.5	114769.4	115914.0	116016.7
7°	95386.6	95412.8	96569.2	96849.1
9°	73994.1	73982.5	73760.2	73785.2
11°	57322.5	57179.5	57240.2	57309.2
13°	43612.0	43359.0	43182.4	43356.4
15°	32102.6	32293.4	31985.0	31875.1
17°	24821.8	24847.2	24761.0	24624.6
19.5°	18840.3	18959.6	18814.1	18690.6
22.5°	13860.9	13719.7	13676.3	13623.7
25.5°	9092.7	8926.0	8805.4	8702.0
29°	4123.1	4113.2	3832.2	3564.7
33°	852.0	1065.8	733.1	499.3
37.5°	228.1	245.8	214.8	179.6
42.5°	176.3	179.5	160.8	141.8
47.5°	133.5	122.6	104.6	86.8
55°	67.8	73.6	60.1	27.5
65°	44.3	63.0	68.7	20.6
75°	30.2	40.3	65.4	6.9
85°	201.6	103.8	38.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)