

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: P232894

Luminaire Tested: **NFFLD-L-C150-D-UNV-66-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C150-D-UNV-66-7030
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42406.7 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 1.04 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 316
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

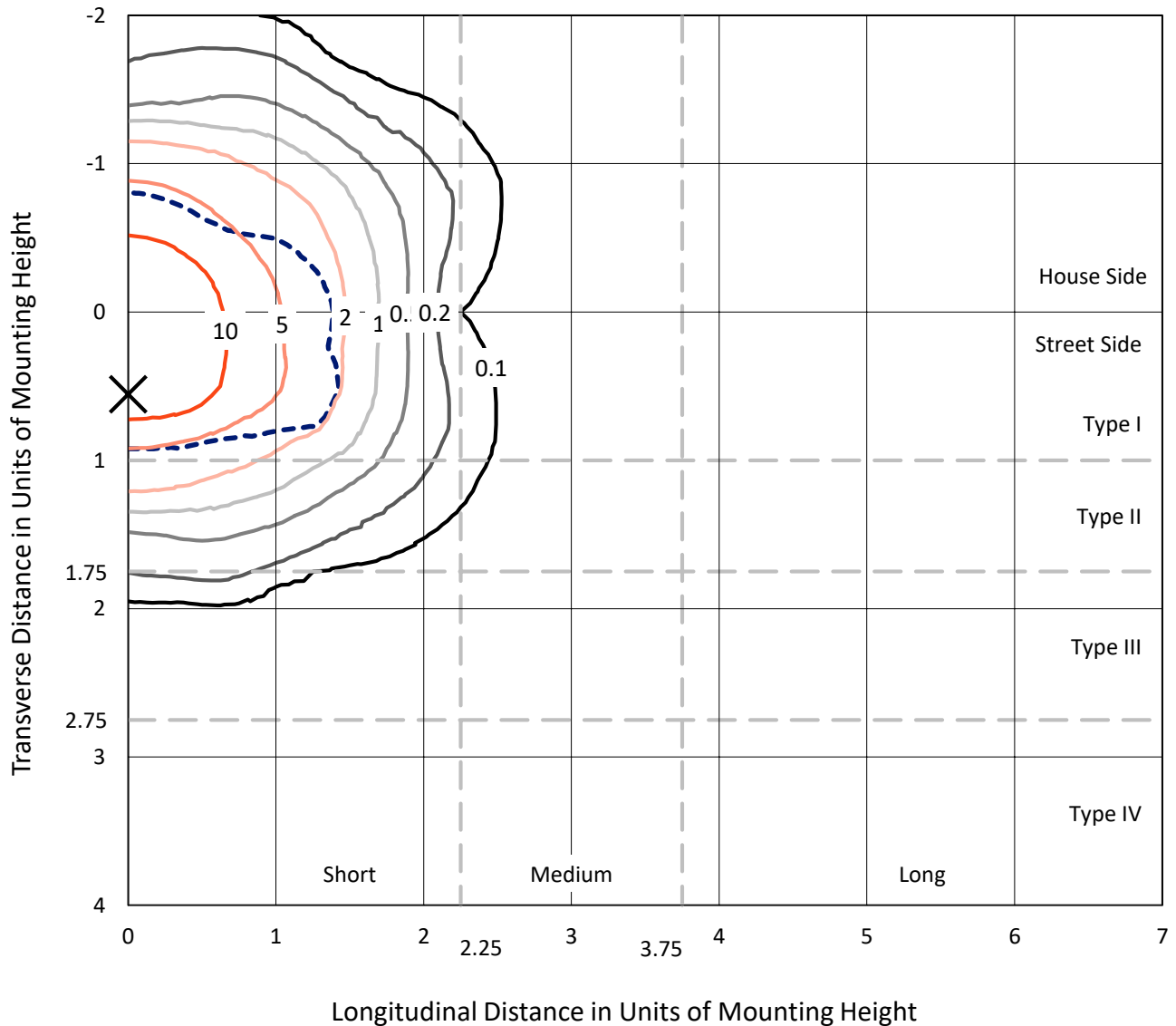


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

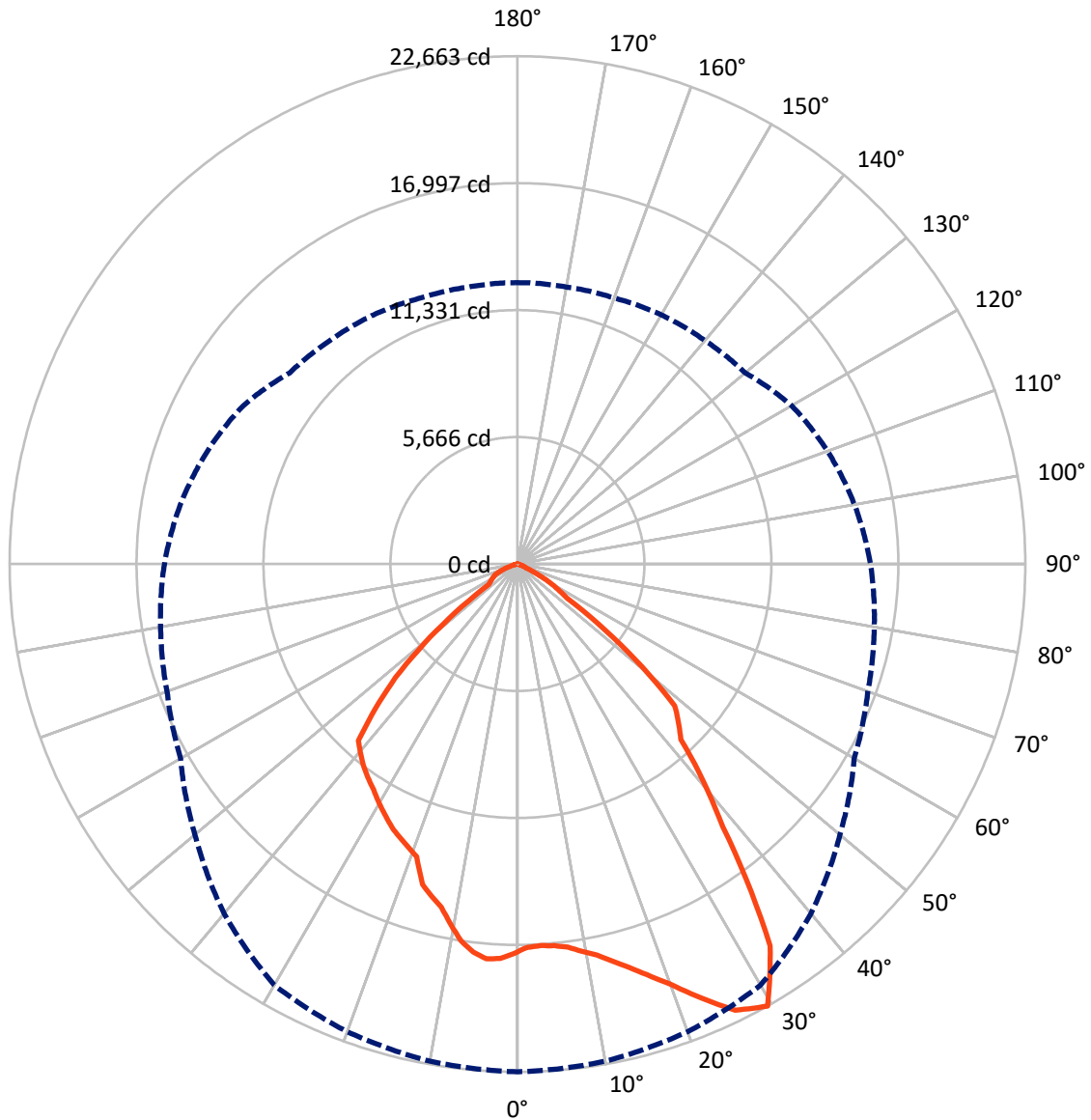


Based on 30 foot mounting height. Maximum calculated value = 19.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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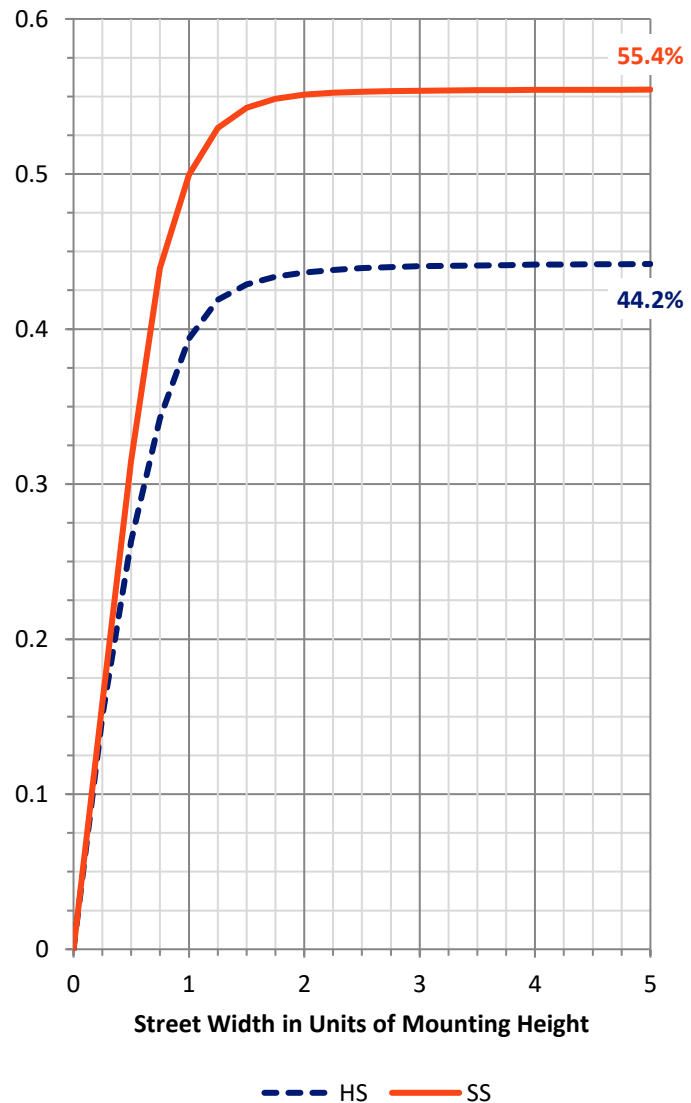
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18905.5	0.0	18905.5
	% Fixture	44.6	0.0	44.6
Street Side	Lumens	23501.2	0.0	23501.2
	% Fixture	55.4	0.0	55.4
Total	Lumens	42406.7	0.0	42406.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1650.2	3.9
10°-20°	4805.4	11.3
20°-30°	7715.9	18.2
30°-40°	9508.7	22.4
40°-50°	9315.7	22.0
50°-60°	6528.8	15.4
60°-70°	2792.2	6.6
70°-80°	623.9	1.5
80°-90°	77.1	0.2
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°	42406.7	100.0
0°-180°	42406.7	100.0



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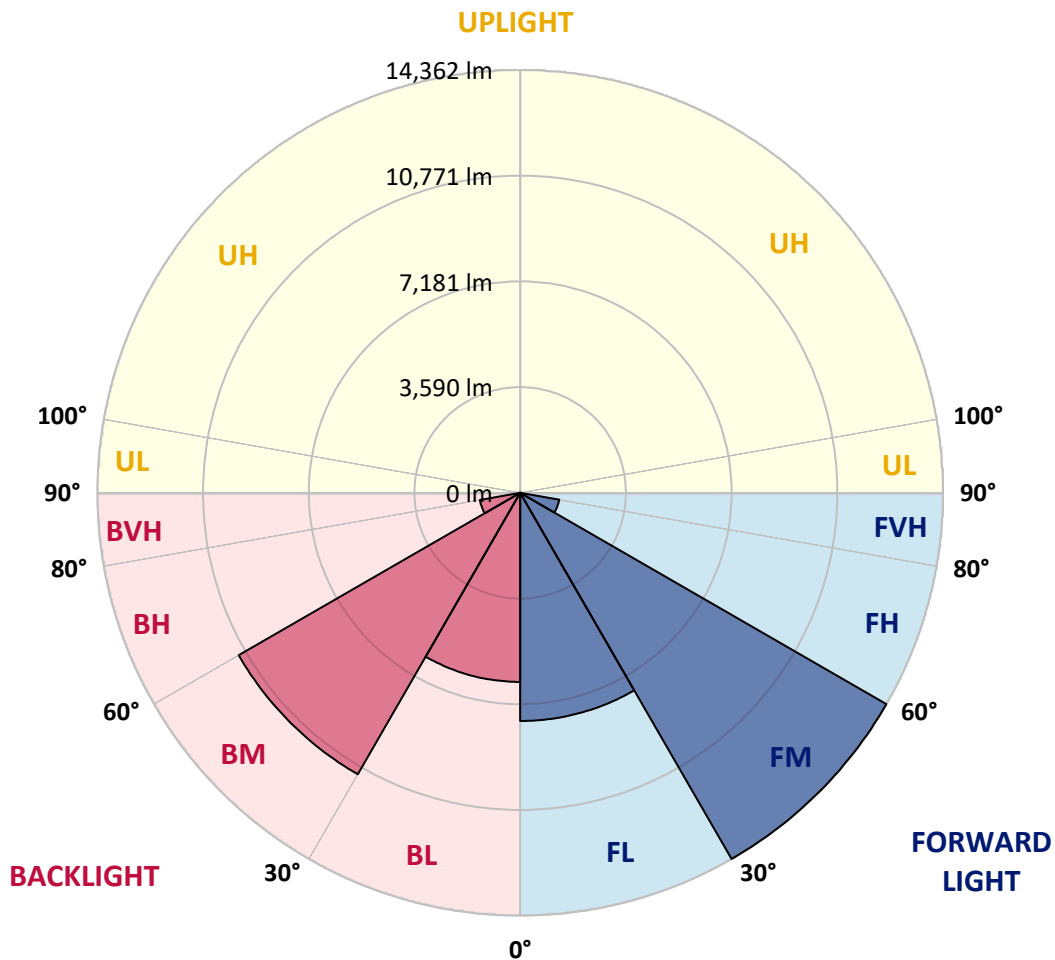
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7748.9	18.3			
FM	(30°-60°)	14361.7	33.9			
FH	(60°-80°)	1343.4	3.2			G1/1800
FVH	(80°-90°)	28.6	0.1			G1/100
BL	(0°-30°)	6424.0	15.1	B5		
BM	(30°-60°)	11036.8	26.0	B5		
BH	(60°-80°)	1388.5	3.3	B3/2500		G3/2500
BVH	(80°-90°)	41.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9
1°	17112.1	17109.4	17110.5	17115.6	17124.6	17137.5	17153.7	17172.7	17193.8	17216.2	17241.8
3°	17060.5	17050.5	17043.5	17053.0	17065.5	17080.8	17098.5	17117.7	17184.4	17254.2	17321.0
5°	17108.2	17085.4	17082.0	17079.2	17072.5	17064.1	17084.3	17121.1	17171.6	17287.3	17388.9
7°	17246.4	17240.5	17211.6	17172.0	17122.0	17087.0	17076.9	17106.1	17167.0	17287.3	17418.1
9°	17522.8	17477.2	17416.7	17328.6	17211.6	17123.8	17065.9	17077.8	17161.4	17302.9	17414.5
11°	17814.7	17772.9	17684.5	17537.8	17356.2	17178.2	17071.9	17071.3	17165.8	17317.4	17395.9
13°	18228.3	18155.9	18014.0	17788.0	17532.6	17283.2	17094.7	17068.2	17188.2	17317.4	17310.2
15°	18682.7	18618.0	18417.2	18110.9	17745.7	17401.2	17147.3	17063.2	17186.8	17265.9	17180.7
17°	19215.0	19124.3	18868.9	18480.3	17989.4	17528.3	17196.3	17071.0	17195.2	17220.1	17053.3
19.5°	19949.7	19833.1	19499.9	18985.9	18348.1	17723.2	17262.8	17031.9	17121.0	17076.1	16752.3
22.5°	21038.6	20853.2	20404.5	19703.1	18922.7	18055.5	17293.6	16955.4	17060.1	17212.4	16481.7
25.5°	22154.8	21953.4	21429.1	20599.7	19605.9	18461.7	17384.0	16814.6	16623.0	16411.5	15910.5
29°	22662.7	22528.1	22207.9	21696.9	20365.5	18785.8	17352.9	16636.6	16169.9	15754.6	15274.2
33°	20440.2	20548.4	21069.9	21933.7	20976.5	19098.5	17376.8	16531.5	15672.0	14990.7	14498.2
37.5°	14885.6	15243.3	16689.6	18865.2	20011.9	19353.5	17547.6	16498.7	15149.3	14328.1	13739.7
42.5°	10694.5	11004.7	11917.8	13289.3	15756.9	18018.1	17797.4	16483.3	14577.9	13921.3	13237.9
47.5°	9447.9	9370.2	9532.4	9682.5	10984.2	14232.3	17289.7	16154.8	13723.6	13220.7	12848.9
55°	2687.7	3252.0	4397.8	5461.1	7059.4	8184.5	12511.5	12594.1	10659.8	11004.9	10513.9
65°	449.6	472.3	964.5	950.3	1418.6	2401.3	3167.1	3350.7	2494.4	1460.6	2561.9
75°	59.4	76.4	112.5	100.2	107.0	85.8	225.2	193.5	282.2	347.4	402.4
85°	0.0	44.3	45.7	49.3	48.9	49.5	59.6	68.8	70.4	84.7	88.4
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°	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9
1°	17267.1	17291.6	17314.6	17335.3	17353.3	17367.8	17378.4	17384.6	17378.4	17367.8	17353.3
3°	17384.9	17439.6	17489.3	17532.8	17568.8	17595.9	17612.6	17617.2	17612.6	17595.9	17568.8
5°	17475.6	17558.3	17612.9	17615.0	17620.0	17629.2	17644.3	17676.5	17644.3	17629.2	17620.0
7°	17514.3	17564.8	17572.5	17540.3	17469.3	17429.5	17418.9	17427.4	17418.9	17429.5	17469.3
9°	17502.8	17470.5	17369.7	17273.7	17143.0	17052.8	17008.8	17005.1	17008.8	17052.8	17143.0
11°	17386.0	17274.7	17081.9	16843.1	16653.3	16479.4	16378.4	16350.2	16378.4	16479.4	16653.3
13°	17199.1	16949.2	16645.6	16356.3	16079.2	15879.9	15728.8	15679.7	15728.8	15879.9	16079.2
15°	16950.1	16557.3	16202.2	15892.7	15596.6	15446.7	15336.7	15311.9	15336.7	15446.7	15596.6
17°	16669.2	16221.4	15844.4	15513.5	15294.5	15071.8	14944.1	14906.1	14944.1	15071.8	15294.5
19.5°	16292.6	15878.5	15474.9	15168.9	14838.6	14246.8	13916.6	13808.4	13916.6	14246.8	14838.6
22.5°	15896.6	15467.1	15056.3	14527.8	13764.9	13546.2	13450.3	13426.0	13450.3	13546.2	13764.9
25.5°	15443.1	14947.8	14460.0	13638.2	13343.1	13174.6	13088.8	13082.5	13088.8	13174.6	13343.1
29°	14725.5	14130.1	13271.6	13015.3	12839.6	12631.7	12552.6	12557.0	12552.6	12631.7	12839.6
33°	13872.4	13123.7	12416.9	12294.4	12074.9	11966.5	11928.5	11948.8	11928.5	11966.5	12074.9
37.5°	13023.2	12195.2	11685.4	11409.0	11301.6	11329.3	11348.1	11373.7	11348.1	11329.3	11301.6
42.5°	12290.0	11507.0	10850.4	10553.8	10562.4	10528.8	10528.8	10611.8	10528.8	10528.8	10562.4
47.5°	11782.0	10981.8	9967.5	9670.2	9330.9	8309.8	7647.9	7443.3	7647.9	8309.8	9330.9
55°	9972.7	9821.0	8231.7	6443.0	4546.2	3006.5	2064.1	1555.0	2064.1	3006.5	4546.2
65°	3519.9	2979.1	1761.9	1305.3	1422.6	1222.9	1097.3	1081.1	1097.3	1222.9	1422.6
75°	399.9	326.9	313.1	245.1	310.3	249.7	174.0	153.8	174.0	249.7	310.3
85°	74.0	75.9	67.3	57.6	55.7	45.4	41.2	7.8	41.2	45.4	55.7
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9	17229.9
1°	17335.3	17314.6	17291.6	17267.1	17241.8	17216.2	17193.8	17172.7	17153.7	17137.5	17124.6
3°	17532.8	17489.3	17439.6	17384.9	17321.0	17254.2	17184.4	17117.7	17098.5	17080.8	17065.5
5°	17615.0	17612.9	17558.3	17475.6	17388.9	17287.3	17171.6	17121.1	17084.3	17064.1	17072.5
7°	17540.3	17572.5	17564.8	17514.3	17418.1	17287.3	17167.0	17106.1	17076.9	17087.0	17122.0
9°	17273.7	17369.7	17470.5	17502.8	17414.5	17302.9	17161.4	17077.8	17065.9	17123.8	17211.6
11°	16843.1	17081.9	17274.7	17386.0	17395.9	17317.4	17165.8	17071.3	17071.9	17178.2	17356.2
13°	16356.3	16645.6	16949.2	17199.1	17310.2	17317.4	17188.2	17068.2	17094.7	17283.2	17532.6
15°	15892.7	16202.2	16557.3	16950.1	17180.7	17265.9	17186.8	17063.2	17147.3	17401.2	17745.7
17°	15513.5	15844.4	16221.4	16669.2	17053.3	17220.1	17195.2	17071.0	17196.3	17528.3	17989.4
19.5°	15168.9	15474.9	15878.5	16292.6	16752.3	17076.1	17121.0	17031.9	17262.8	17723.2	18348.1
22.5°	14527.8	15056.3	15467.1	15896.6	16481.7	17212.4	17060.1	16955.4	17293.6	18055.5	18922.7
25.5°	13638.2	14460.0	14947.8	15443.1	15910.5	16411.5	16623.0	16814.6	17384.0	18461.7	19605.9
29°	13015.3	13271.6	14130.1	14725.5	15274.2	15754.6	16169.9	16636.6	17352.9	18785.8	20365.5
33°	12294.4	12416.9	13123.7	13872.4	14498.2	14990.7	15672.0	16531.5	17376.8	19098.5	20976.5
37.5°	11409.0	11685.4	12195.2	13023.2	13739.7	14328.1	15149.3	16498.7	17547.6	19353.5	20011.9
42.5°	10553.8	10850.4	11507.0	12290.0	13237.9	13921.3	14577.9	16483.3	17797.4	18018.1	15756.9
47.5°	9670.2	9967.5	10981.8	11782.0	12848.9	13220.7	13723.6	16154.8	17289.7	14232.3	10984.2
55°	6443.0	8231.7	9821.0	9972.7	10513.9	11004.9	10659.8	12594.1	12511.5	8184.5	7059.4
65°	1305.3	1761.9	2979.1	3519.9	2561.9	1460.6	2494.4	3350.7	3167.1	2401.3	1418.6
75°	245.1	313.1	326.9	399.9	402.4	347.4	282.2	193.5	225.2	85.8	107.0
85°	57.6	67.3	75.9	74.0	88.4	84.7	70.4	68.8	59.6	49.5	48.9
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):

	330°	340°	350°	360°
0°	17229.9	17229.9	17229.9	17229.9
1°	17115.6	17110.5	17109.4	17112.1
3°	17053.0	17043.5	17050.5	17060.5
5°	17079.2	17082.0	17085.4	17108.2
7°	17172.0	17211.6	17240.5	17246.4
9°	17328.6	17416.7	17477.2	17522.8
11°	17537.8	17684.5	17772.9	17814.7
13°	17788.0	18014.0	18155.9	18228.3
15°	18110.9	18417.2	18618.0	18682.7
17°	18480.3	18868.9	19124.3	19215.0
19.5°	18985.9	19499.9	19833.1	19949.7
22.5°	19703.1	20404.5	20853.2	21038.6
25.5°	20599.7	21429.1	21953.4	22154.8
29°	21696.9	22207.9	22528.1	22662.7
33°	21933.7	21069.9	20548.4	20440.2
37.5°	18865.2	16689.6	15243.3	14885.6
42.5°	13289.3	11917.8	11004.7	10694.5
47.5°	9682.5	9532.4	9370.2	9447.9
55°	5461.1	4397.8	3252.0	2687.7
65°	950.3	964.5	472.3	449.6
75°	100.2	112.5	76.4	59.4
85°	49.3	45.7	44.3	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)