

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: P233392

Luminaire Tested: **NFFLD-C40-D-UNV-66-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-16-1196-2)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C40-D-UNV-66-7060
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 5700K CCT, 72 CRI LEDS
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16604.6 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 127.6
Input Voltage (V): NR
Input Current (A_{in}): 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

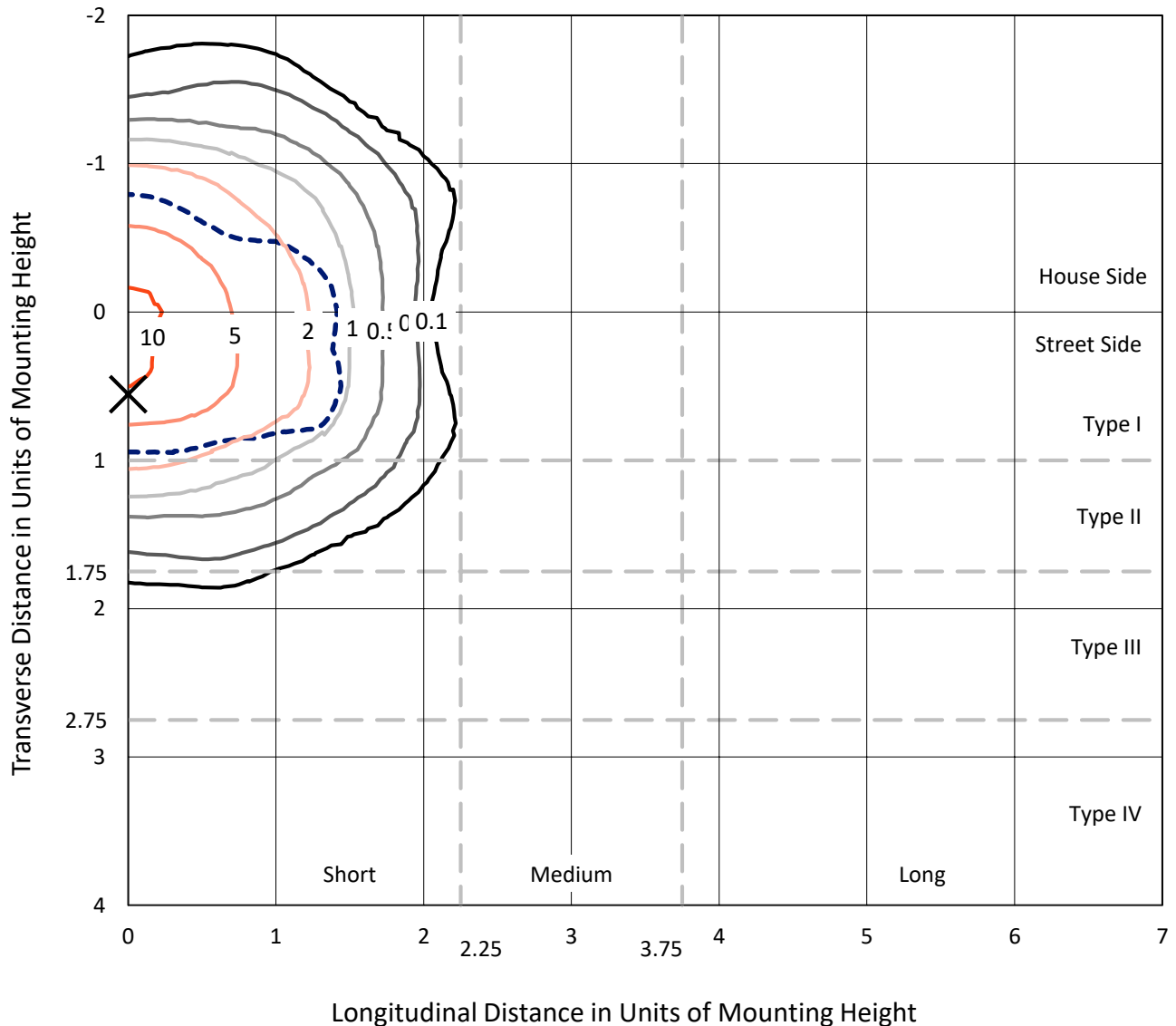


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Iso-Footcandle Lines of Horizontal Illumination

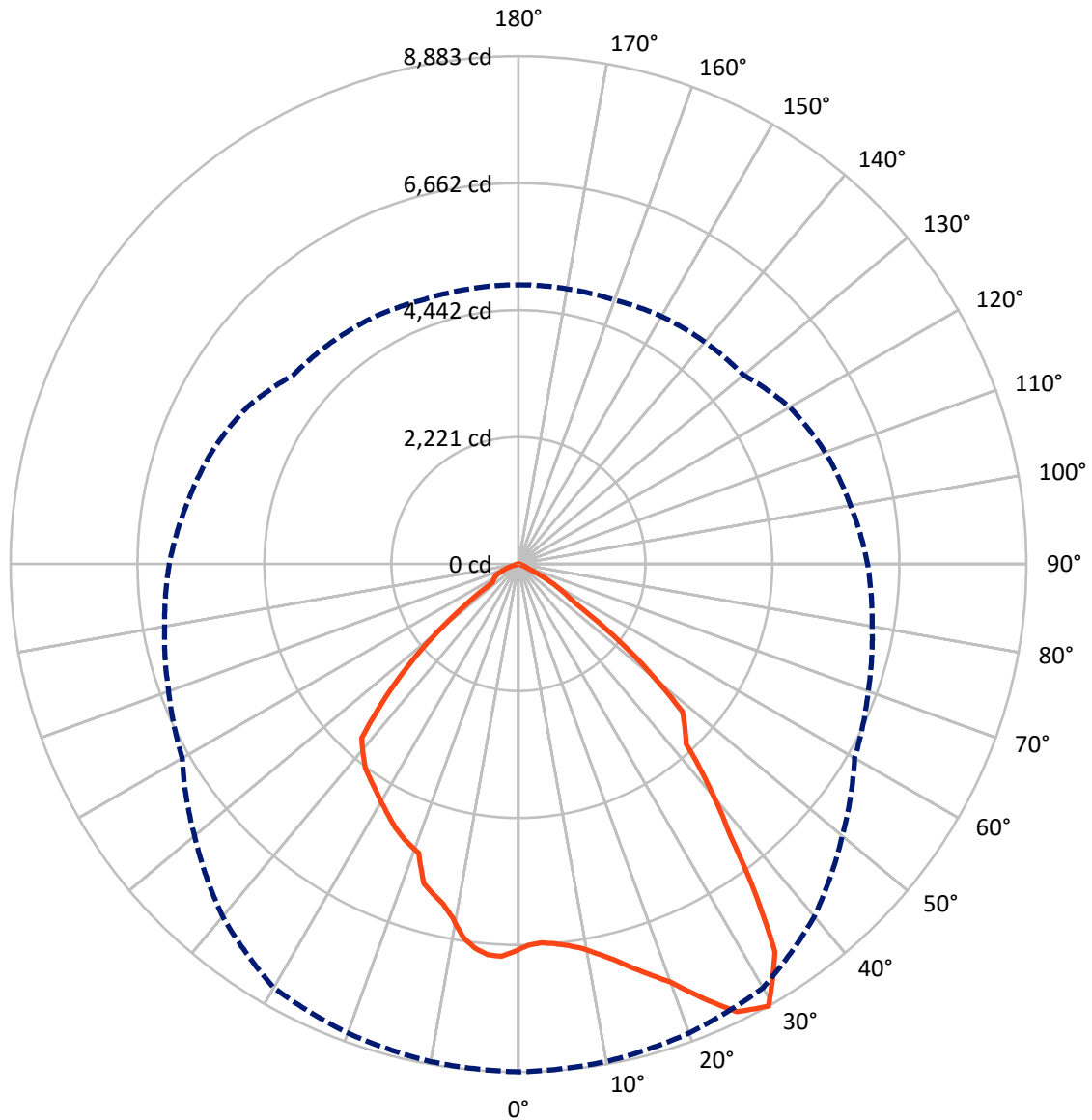
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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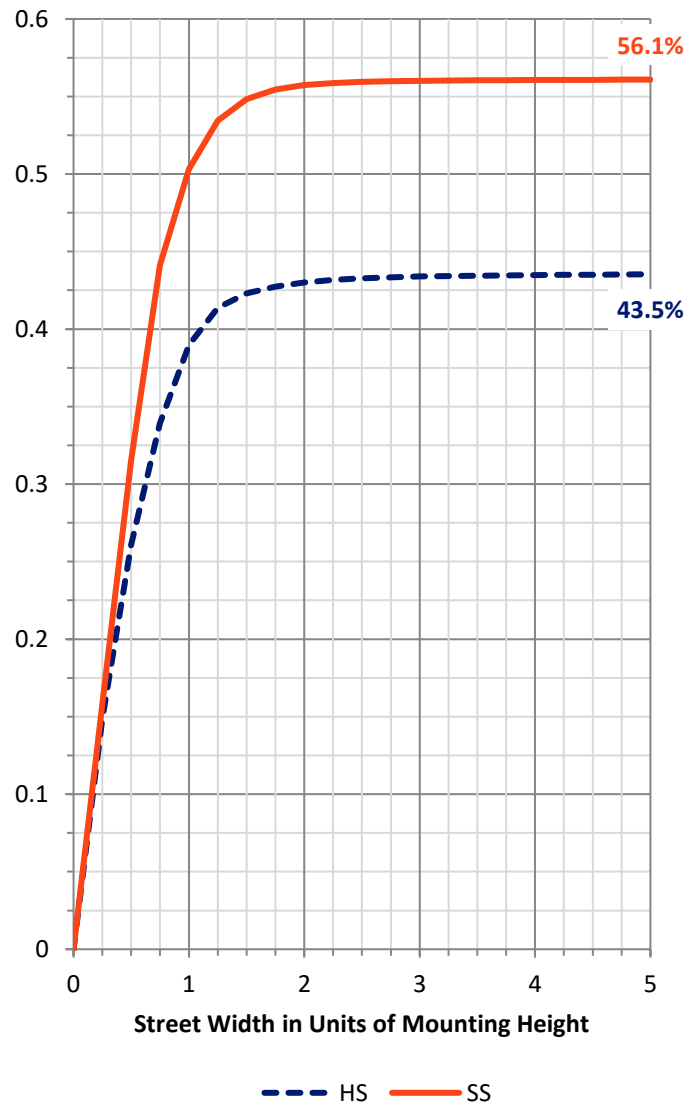
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7293.1	0.0	7293.1
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	9311.6	0.0	9311.6
	% Fixture	56.1	0.0	56.1
Total	Lumens	16604.6	0.0	16604.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.4	3.9
10°-20°	1875.0	11.3
20°-30°	3015.2	18.2
30°-40°	3722.8	22.4
40°-50°	3668.7	22.1
50°-60°	2577.8	15.5
60°-70°	1078.9	6.5
70°-80°	227.9	1.4
80°-90°	30.9	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°	16604.6	100.0
0°-180°	16604.6	100.0



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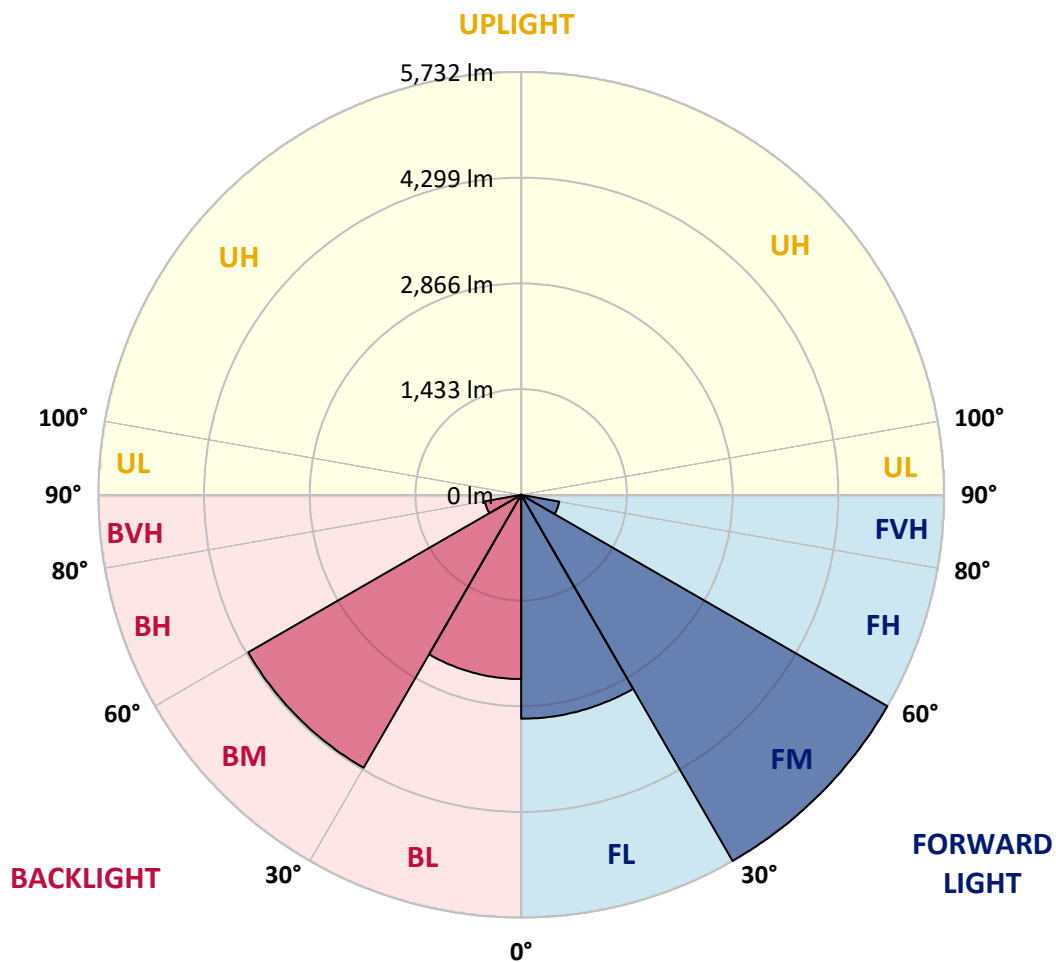
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3035.6	18.3			
FM	(30°-60°)	5732.3	34.5			
FH	(60°-80°)	523.1	3.2			G0/660
FVH	(80°-90°)	12.8	0.1			G1/100
BL	(0°-30°)	2497.5	15.0	B3/2500		
BM	(30°-60°)	4272.9	25.7	B3/5000		
BH	(60°-80°)	498.8	3.0	B1/500		G1/500
BVH	(80°-90°)	17.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5
1°	6669.4	6670.8	6673.7	6677.9	6683.2	6689.7	6696.9	6704.8	6713.0	6721.4	6730.7
3°	6637.0	6637.3	6639.6	6647.3	6656.4	6666.5	6677.5	6688.9	6714.1	6740.1	6765.3
5°	6671.3	6670.8	6667.0	6662.9	6659.2	6654.7	6665.1	6684.5	6708.8	6752.9	6790.2
7°	6730.3	6724.9	6714.2	6698.2	6679.8	6666.9	6660.1	6676.8	6717.7	6769.6	6811.3
9°	6819.6	6811.8	6790.8	6751.9	6708.5	6681.3	6665.4	6665.1	6719.0	6777.4	6812.7
11°	6957.2	6943.1	6903.2	6834.3	6764.1	6699.6	6672.1	6674.0	6724.2	6778.4	6787.8
13°	7113.3	7092.4	7035.6	6952.4	6844.0	6739.3	6676.3	6677.1	6731.2	6772.5	6752.9
15°	7311.7	7281.2	7195.5	7074.4	6938.3	6798.3	6694.6	6684.5	6756.4	6761.7	6703.3
17°	7513.1	7484.0	7386.7	7219.4	7035.4	6870.1	6722.4	6693.1	6756.7	6735.2	6623.5
19.5°	7779.3	7768.2	7648.0	7429.2	7177.0	6950.2	6767.3	6681.0	6716.8	6892.3	6507.8
22.5°	8244.9	8205.2	8026.9	7733.3	7398.8	7068.0	6797.8	6647.6	6613.7	6748.9	6318.6
25.5°	8713.4	8646.0	8440.1	8128.5	7697.8	7245.5	6810.0	6569.5	6477.2	6340.3	6128.9
29°	8883.3	8836.9	8730.7	8557.5	8051.4	7395.6	6790.5	6510.0	6282.9	6106.5	5899.2
33°	8129.0	8111.4	8297.3	8619.8	8272.8	7515.0	6812.9	6470.7	6076.5	5727.4	5568.0
37.5°	6015.2	6119.7	6685.7	7523.5	7901.8	7619.7	6897.1	6451.8	5886.4	5517.2	5261.2
42.5°	4305.1	4433.4	4845.7	5361.2	6297.3	7152.3	7032.9	6488.4	5698.0	5419.0	5125.9
47.5°	3860.2	3823.1	3897.0	3932.9	4438.2	5749.3	6904.6	6433.5	5396.8	5203.9	5057.2
55°	1192.4	1378.7	1843.8	2286.8	2925.2	3299.5	5104.4	5089.2	4320.2	4492.7	4220.3
65°	170.9	194.4	407.6	410.9	591.5	957.1	1194.8	1296.5	824.6	242.6	816.0
75°	23.6	28.7	47.0	42.8	47.4	45.6	76.2	86.2	86.1	145.4	131.8
85°	1.0	16.7	24.4	24.5	26.5	26.8	30.3	32.0	31.1	34.4	35.4
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°	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5
1°	6739.7	6748.1	6755.7	6762.3	6767.6	6771.5	6773.8	6774.5	6773.8	6771.5	6767.6
3°	6789.1	6808.0	6825.2	6840.5	6853.3	6863.0	6868.6	6869.7	6868.6	6863.0	6853.3
5°	6821.3	6850.7	6867.7	6863.2	6860.3	6858.6	6858.1	6855.0	6858.1	6858.6	6860.3
7°	6843.3	6852.1	6836.9	6816.0	6790.7	6773.5	6765.4	6760.7	6765.4	6773.5	6790.7
9°	6836.1	6805.3	6762.9	6712.2	6653.8	6616.6	6595.3	6590.8	6595.3	6616.6	6653.8
11°	6769.9	6704.9	6625.2	6537.0	6455.0	6376.1	6318.3	6299.1	6318.3	6376.1	6455.0
13°	6691.9	6577.2	6440.8	6329.1	6227.7	6157.9	6106.2	6088.9	6106.2	6157.9	6227.7
15°	6590.5	6429.4	6276.3	6162.4	6059.8	6004.3	5970.5	5960.2	5970.5	6004.3	6059.8
17°	6455.1	6281.6	6149.5	6036.9	5944.1	5880.0	5840.5	5824.6	5840.5	5880.0	5944.1
19.5°	6313.5	6165.5	6028.6	5892.1	5791.7	5554.3	5410.7	5350.2	5410.7	5554.3	5791.7
22.5°	6178.9	6040.8	5842.8	5664.2	5342.3	5269.2	5241.7	5231.4	5241.7	5269.2	5342.3
25.5°	5998.2	5815.2	5656.3	5284.8	5195.9	5124.0	5096.9	5089.9	5096.9	5124.0	5195.9
29°	5713.3	5481.2	5141.1	5071.0	5002.2	4912.7	4887.0	4882.7	4887.0	4912.7	5002.2
33°	5362.7	5074.1	4794.2	4776.8	4698.6	4661.0	4654.5	4664.6	4654.5	4661.0	4698.6
37.5°	5024.6	4697.5	4509.2	4420.5	4401.7	4428.5	4441.9	4453.4	4441.9	4428.5	4401.7
42.5°	4763.4	4428.6	4182.9	4093.4	4113.2	4102.3	4101.0	4095.9	4101.0	4102.3	4113.2
47.5°	4605.7	4247.1	3852.4	3749.2	3583.0	3130.0	2843.2	2708.0	2843.2	3130.0	3583.0
55°	3961.4	3890.4	3247.2	2424.7	1658.0	1089.9	754.0	559.9	754.0	1089.9	1658.0
65°	1268.3	975.9	587.7	445.2	532.9	465.1	421.3	419.4	421.3	465.1	532.9
75°	166.1	123.9	124.7	88.7	113.6	93.5	60.0	48.1	60.0	93.5	113.6
85°	33.8	31.1	31.0	29.2	27.9	32.0	27.6	2.0	27.6	32.0	27.9
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5	6718.5
1°	6762.3	6755.7	6748.1	6739.7	6730.7	6721.4	6713.0	6704.8	6696.9	6689.7	6683.2
3°	6840.5	6825.2	6808.0	6789.1	6765.3	6740.1	6714.1	6688.9	6677.5	6666.5	6656.4
5°	6863.2	6867.7	6850.7	6821.3	6790.2	6752.9	6708.8	6684.5	6665.1	6654.7	6659.2
7°	6816.0	6836.9	6852.1	6843.3	6811.3	6769.6	6717.7	6676.8	6660.1	6666.9	6679.8
9°	6712.2	6762.9	6805.3	6836.1	6812.7	6777.4	6719.0	6665.1	6665.4	6681.3	6708.5
11°	6537.0	6625.2	6704.9	6769.9	6787.8	6778.4	6724.2	6674.0	6672.1	6699.6	6764.1
13°	6329.1	6440.8	6577.2	6691.9	6752.9	6772.5	6731.2	6677.1	6676.3	6739.3	6844.0
15°	6162.4	6276.3	6429.4	6590.5	6703.3	6761.7	6756.4	6684.5	6694.6	6798.3	6938.3
17°	6036.9	6149.5	6281.6	6455.1	6623.5	6735.2	6756.7	6693.1	6722.4	6870.1	7035.4
19.5°	5892.1	6028.6	6165.5	6313.5	6507.8	6892.3	6716.8	6681.0	6767.3	6950.2	7177.0
22.5°	5664.2	5842.8	6040.8	6178.9	6318.6	6748.9	6613.7	6647.6	6797.8	7068.0	7398.8
25.5°	5284.8	5656.3	5815.2	5998.2	6128.9	6340.3	6477.2	6569.5	6810.0	7245.5	7697.8
29°	5071.0	5141.1	5481.2	5713.3	5899.2	6106.5	6282.9	6510.0	6790.5	7395.6	8051.4
33°	4776.8	4794.2	5074.1	5362.7	5568.0	5727.4	6076.5	6470.7	6812.9	7515.0	8272.8
37.5°	4420.5	4509.2	4697.5	5024.6	5261.2	5517.2	5886.4	6451.8	6897.1	7619.7	7901.8
42.5°	4093.4	4182.9	4428.6	4763.4	5125.9	5419.0	5698.0	6488.4	7032.9	7152.3	6297.3
47.5°	3749.2	3852.4	4247.1	4605.7	5057.2	5203.9	5396.8	6433.5	6904.6	5749.3	4438.2
55°	2424.7	3247.2	3890.4	3961.4	4220.3	4492.7	4320.2	5089.2	5104.4	3299.5	2925.2
65°	445.2	587.7	975.9	1268.3	816.0	242.6	824.6	1296.5	1194.8	957.1	591.5
75°	88.7	124.7	123.9	166.1	131.8	145.4	86.1	86.2	76.2	45.6	47.4
85°	29.2	31.0	31.1	33.8	35.4	34.4	31.1	32.0	30.3	26.8	26.5
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°	6718.5	6718.5	6718.5	6718.5
1°	6677.9	6673.7	6670.8	6669.4
3°	6647.3	6639.6	6637.3	6637.0
5°	6662.9	6667.0	6670.8	6671.3
7°	6698.2	6714.2	6724.9	6730.3
9°	6751.9	6790.8	6811.8	6819.6
11°	6834.3	6903.2	6943.1	6957.2
13°	6952.4	7035.6	7092.4	7113.3
15°	7074.4	7195.5	7281.2	7311.7
17°	7219.4	7386.7	7484.0	7513.1
19.5°	7429.2	7648.0	7768.2	7779.3
22.5°	7733.3	8026.9	8205.2	8244.9
25.5°	8128.5	8440.1	8646.0	8713.4
29°	8557.5	8730.7	8836.9	8883.3
33°	8619.8	8297.3	8111.4	8129.0
37.5°	7523.5	6685.7	6119.7	6015.2
42.5°	5361.2	4845.7	4433.4	4305.1
47.5°	3932.9	3897.0	3823.1	3860.2
55°	2286.8	1843.8	1378.7	1192.4
65°	410.9	407.6	194.4	170.9
75°	42.8	47.0	28.7	23.6
85°	24.5	24.4	16.7	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)