

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: P233390

Luminaire Tested: **NFFLD-C40-D-UNV-66-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233390
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-66-7030
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 3000K CCT, 72 CRI LEDS
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16449.9 lumens
Efficiency: N/A
Efficacy: 128.9 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

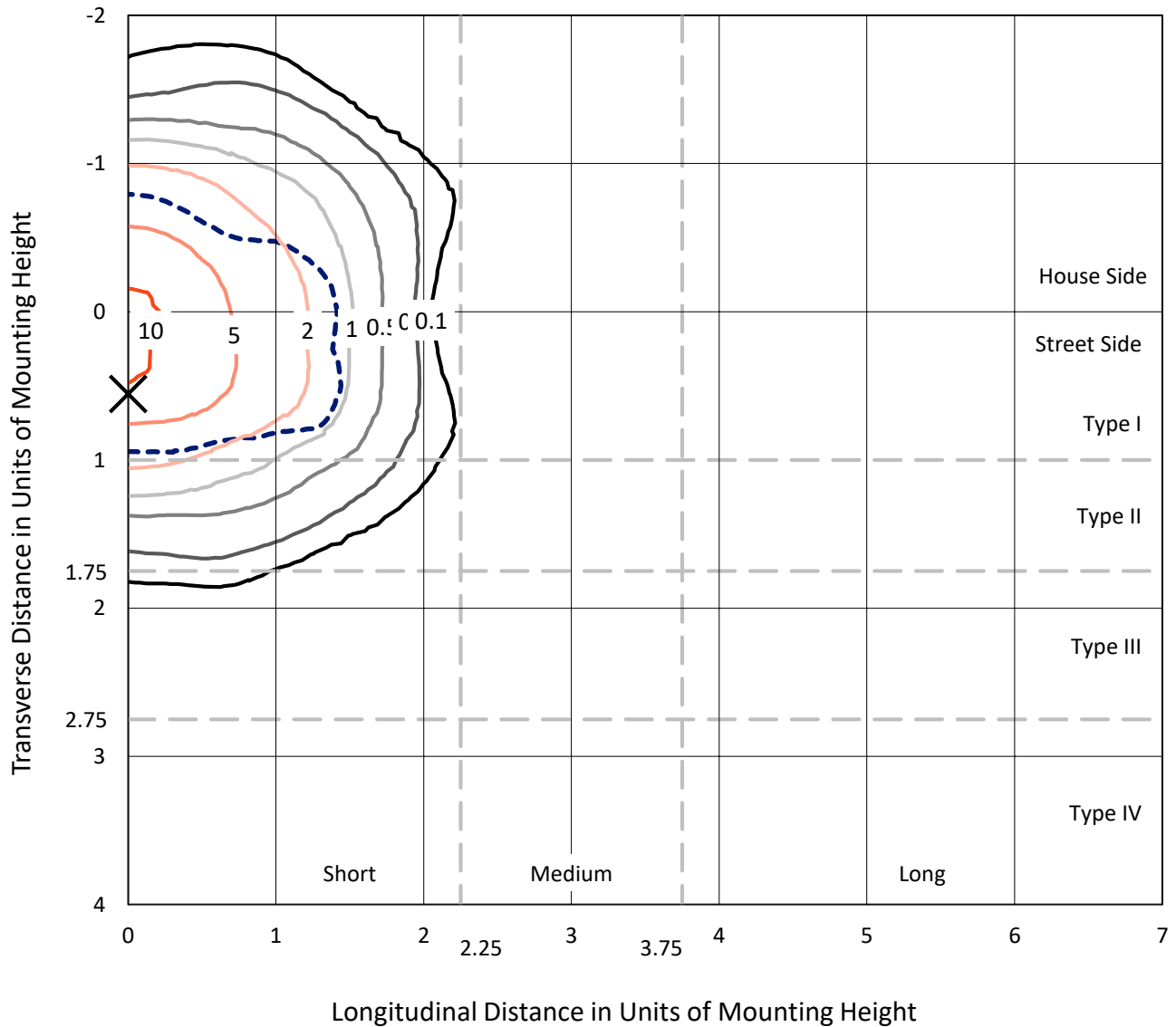


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Iso-Footcandle Lines of Horizontal Illumination

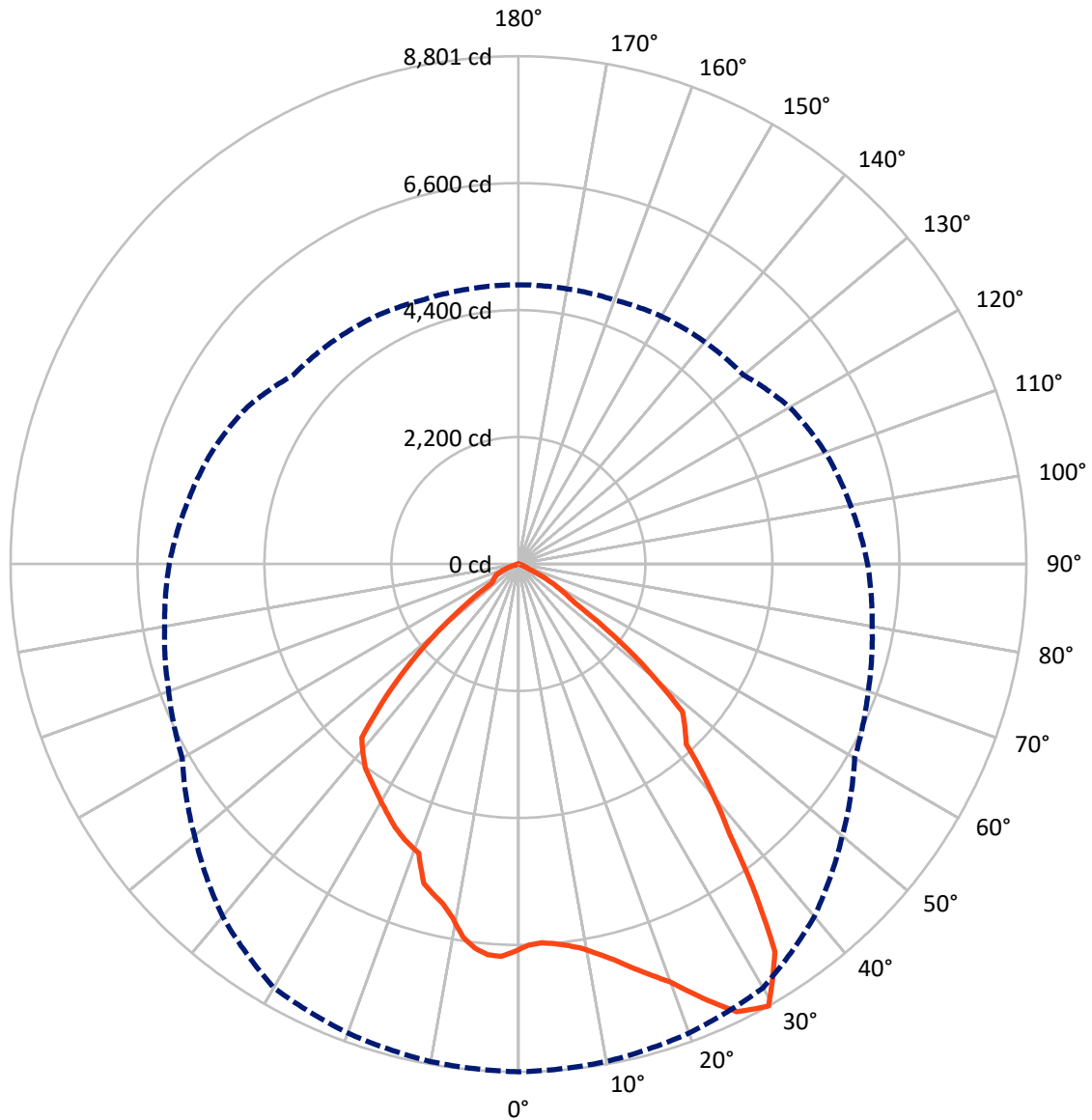
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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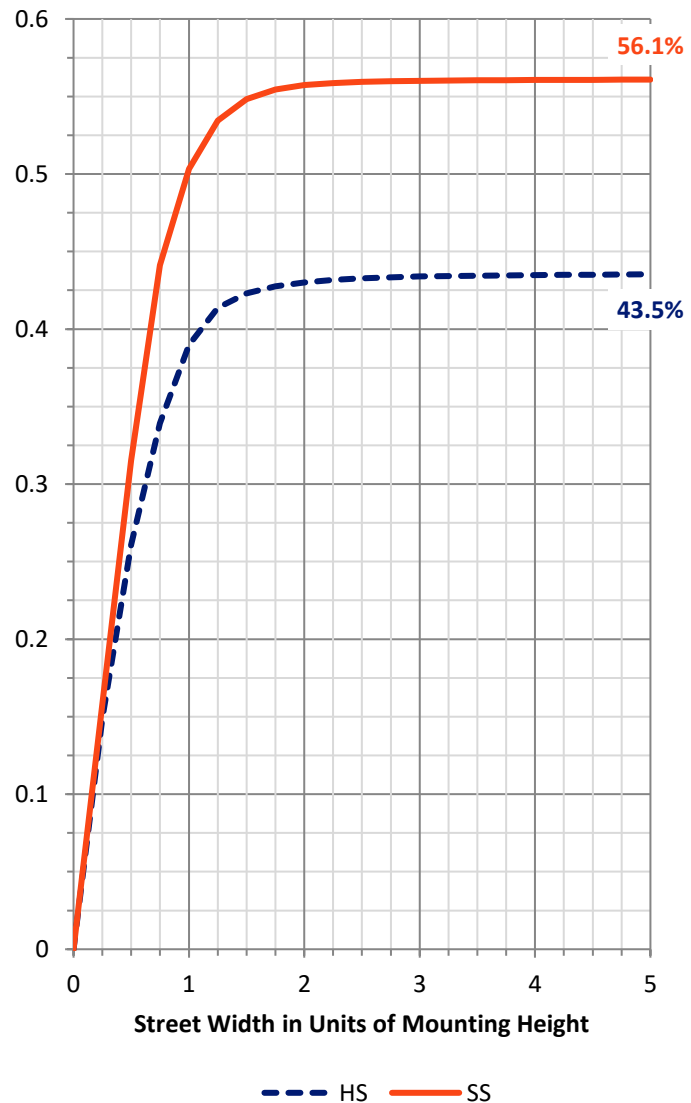
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7225.1	0.0	7225.1
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	9224.8	0.0	9224.8
	% Fixture	56.1	0.0	56.1
Total	Lumens	16449.9	0.0	16449.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.4	3.9
10°-20°	1857.5	11.3
20°-30°	2987.1	18.2
30°-40°	3688.1	22.4
40°-50°	3634.5	22.1
50°-60°	2553.7	15.5
60°-70°	1068.9	6.5
70°-80°	225.8	1.4
80°-90°	30.6	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°	16449.9	100.0
0°-180°	16449.9	100.0



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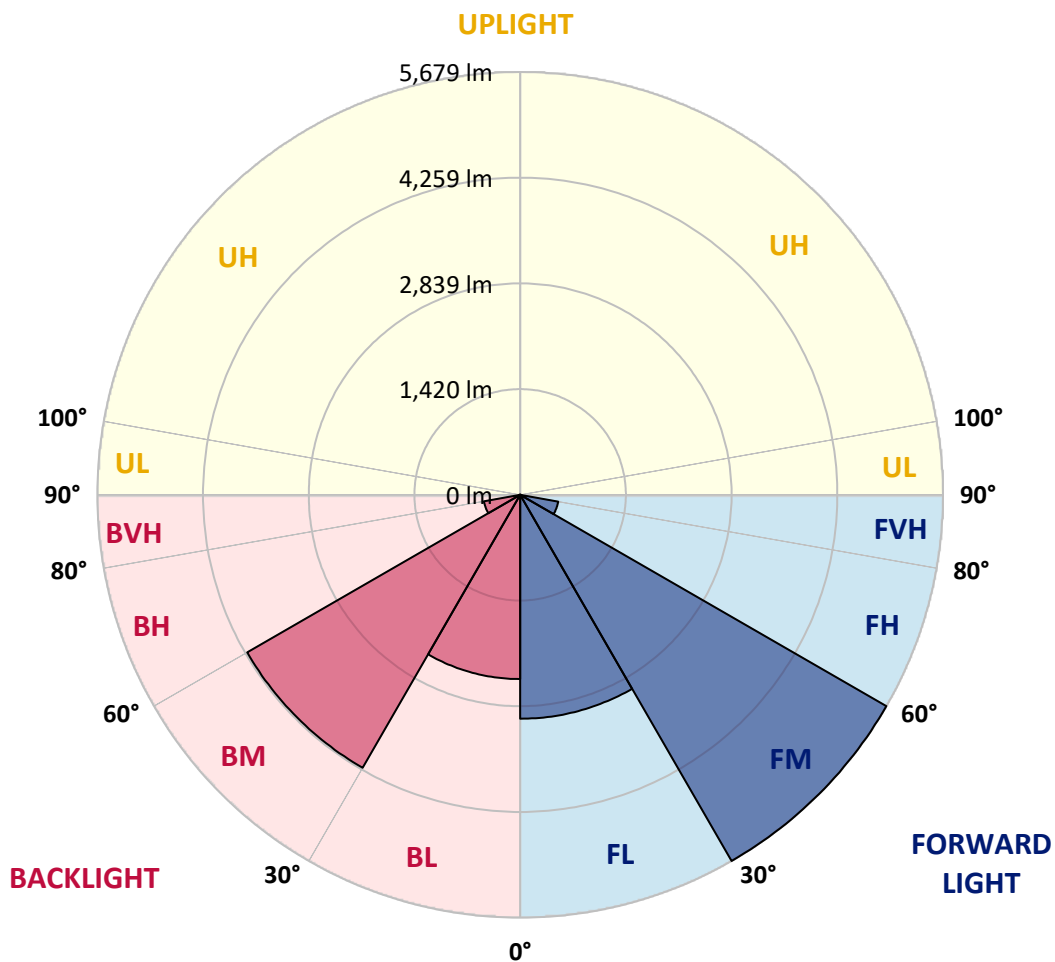
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.3	18.3			
FM	(30°-60°)	5678.9	34.5			
FH	(60°-80°)	518.2	3.2			G0/660
FVH	(80°-90°)	12.7	0.1			G1/100
BL	(0°-30°)	2474.3	15.0	B3/2500		
BM	(30°-60°)	4233.1	25.7	B3/5000		
BH	(60°-80°)	494.1	3.0	B1/500		G1/500
BVH	(80°-90°)	17.5	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°	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9
1°	6607.2	6608.6	6611.4	6615.6	6620.9	6627.3	6634.5	6642.3	6650.5	6658.8	6668.1
3°	6575.1	6575.4	6577.6	6585.3	6594.3	6604.4	6615.2	6626.5	6651.5	6677.3	6702.3
5°	6609.2	6608.6	6604.9	6600.8	6597.2	6592.7	6603.0	6622.2	6646.3	6689.9	6726.9
7°	6667.6	6662.3	6651.6	6635.8	6617.6	6604.9	6598.1	6614.6	6655.1	6706.5	6747.8
9°	6756.1	6748.3	6727.5	6688.9	6646.1	6619.0	6603.3	6603.0	6656.4	6714.3	6749.2
11°	6892.3	6878.4	6838.8	6770.5	6701.1	6637.1	6609.9	6611.8	6661.5	6715.2	6724.6
13°	7047.1	7026.3	6970.1	6887.7	6780.2	6676.5	6614.1	6614.9	6668.5	6709.4	6690.0
15°	7243.6	7213.3	7128.5	7008.5	6873.6	6734.9	6632.2	6622.2	6693.4	6698.7	6640.9
17°	7443.1	7414.2	7317.9	7152.1	6969.8	6806.0	6659.7	6630.7	6693.8	6672.4	6561.9
19.5°	7706.8	7695.8	7576.7	7360.0	7110.2	6885.4	6704.2	6618.7	6654.3	6828.1	6447.2
22.5°	8168.0	8128.7	7952.2	7661.3	7329.8	7002.2	6734.5	6585.7	6552.1	6686.0	6259.7
25.5°	8632.2	8565.4	8361.5	8052.8	7626.1	7178.0	6746.6	6508.3	6416.9	6281.2	6071.8
29°	8800.5	8754.5	8649.4	8477.7	7976.4	7326.7	6727.2	6449.3	6224.4	6049.6	5844.2
33°	8053.2	8035.8	8220.1	8539.5	8195.7	7445.0	6749.4	6410.4	6019.9	5674.0	5516.2
37.5°	5959.2	6062.7	6623.4	7453.4	7828.2	7548.8	6832.9	6391.7	5831.6	5465.8	5212.2
42.5°	4265.0	4392.1	4800.6	5311.2	6238.6	7085.6	6967.3	6428.0	5645.0	5368.5	5078.1
47.5°	3824.2	3787.4	3860.7	3896.3	4396.9	5695.8	6840.2	6373.6	5346.5	5155.4	5010.1
55°	1181.3	1365.8	1826.7	2265.5	2898.0	3268.8	5056.9	5041.7	4280.0	4450.9	4181.0
65°	169.3	192.5	403.8	407.0	586.0	948.2	1183.6	1284.4	817.0	240.4	808.5
75°	23.4	28.5	46.6	42.4	47.0	45.1	75.5	85.4	85.3	144.0	130.5
85°	1.0	16.5	24.1	24.3	26.2	26.5	30.0	31.7	30.8	34.1	35.1
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9
1°	6677.0	6685.3	6692.8	6699.3	6704.5	6708.3	6710.6	6711.3	6710.6	6708.3	6704.5
3°	6725.8	6744.5	6761.7	6776.8	6789.4	6799.1	6804.6	6805.7	6804.6	6799.1	6789.4
5°	6757.7	6786.9	6803.7	6799.3	6796.4	6794.7	6794.2	6791.1	6794.2	6794.7	6796.4
7°	6779.6	6788.3	6773.2	6752.5	6727.5	6710.5	6702.3	6697.7	6702.3	6710.5	6727.5
9°	6772.4	6741.9	6699.9	6649.7	6591.9	6554.9	6533.9	6529.4	6533.9	6554.9	6591.9
11°	6706.8	6642.4	6563.5	6476.2	6394.9	6316.6	6259.4	6240.4	6259.4	6316.6	6394.9
13°	6629.5	6515.9	6380.8	6270.2	6169.7	6100.5	6049.3	6032.1	6049.3	6100.5	6169.7
15°	6529.1	6369.5	6217.9	6105.0	6003.3	5948.4	5914.9	5904.7	5914.9	5948.4	6003.3
17°	6394.9	6223.0	6092.1	5980.7	5888.8	5825.2	5786.1	5770.4	5786.1	5825.2	5888.8
19.5°	6254.7	6108.0	5972.4	5837.3	5737.8	5502.6	5360.3	5300.4	5360.3	5502.6	5737.8
22.5°	6121.3	5984.5	5788.4	5611.5	5292.5	5220.1	5192.8	5182.6	5192.8	5220.1	5292.5
25.5°	5942.3	5761.1	5603.6	5235.5	5147.5	5076.3	5049.4	5042.5	5049.4	5076.3	5147.5
29°	5660.1	5430.1	5093.2	5023.8	4955.6	4866.9	4841.5	4837.2	4841.5	4866.9	4955.6
33°	5312.7	5026.8	4749.6	4732.3	4654.8	4617.5	4611.2	4621.2	4611.2	4617.5	4654.8
37.5°	4977.8	4653.7	4467.3	4379.4	4360.6	4387.2	4400.5	4412.0	4400.5	4387.2	4360.6
42.5°	4719.0	4387.4	4144.0	4055.2	4074.9	4064.0	4062.8	4057.8	4062.8	4064.0	4074.9
47.5°	4562.9	4207.5	3816.5	3714.3	3549.6	3100.9	2816.7	2682.8	2816.7	3100.9	3549.6
55°	3924.5	3854.1	3216.9	2402.1	1642.6	1079.7	747.0	554.7	747.0	1079.7	1642.6
65°	1256.5	966.8	582.2	441.0	527.9	460.7	417.4	415.5	417.4	460.7	527.9
75°	164.6	122.7	123.6	87.8	112.5	92.5	59.4	47.7	59.4	92.5	112.5
85°	33.5	30.8	30.8	29.0	27.6	31.7	27.4	1.9	27.4	31.7	27.6
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9	6655.9
1°	6699.3	6692.8	6685.3	6677.0	6668.1	6658.8	6650.5	6642.3	6634.5	6627.3	6620.9
3°	6776.8	6761.7	6744.5	6725.8	6702.3	6677.3	6651.5	6626.5	6615.2	6604.4	6594.3
5°	6799.3	6803.7	6786.9	6757.7	6726.9	6689.9	6646.3	6622.2	6603.0	6592.7	6597.2
7°	6752.5	6773.2	6788.3	6779.6	6747.8	6706.5	6655.1	6614.6	6598.1	6604.9	6617.6
9°	6649.7	6699.9	6741.9	6772.4	6749.2	6714.3	6656.4	6603.0	6603.3	6619.0	6646.1
11°	6476.2	6563.5	6642.4	6706.8	6724.6	6715.2	6661.5	6611.8	6609.9	6637.1	6701.1
13°	6270.2	6380.8	6515.9	6629.5	6690.0	6709.4	6668.5	6614.9	6614.1	6676.5	6780.2
15°	6105.0	6217.9	6369.5	6529.1	6640.9	6698.7	6693.4	6622.2	6632.2	6734.9	6873.6
17°	5980.7	6092.1	6223.0	6394.9	6561.9	6672.4	6693.8	6630.7	6659.7	6806.0	6969.8
19.5°	5837.3	5972.4	6108.0	6254.7	6447.2	6828.1	6654.3	6618.7	6704.2	6885.4	7110.2
22.5°	5611.5	5788.4	5984.5	6121.3	6259.7	6686.0	6552.1	6585.7	6734.5	7002.2	7329.8
25.5°	5235.5	5603.6	5761.1	5942.3	6071.8	6281.2	6416.9	6508.3	6746.6	7178.0	7626.1
29°	5023.8	5093.2	5430.1	5660.1	5844.2	6049.6	6224.4	6449.3	6727.2	7326.7	7976.4
33°	4732.3	4749.6	5026.8	5312.7	5516.2	5674.0	6019.9	6410.4	6749.4	7445.0	8195.7
37.5°	4379.4	4467.3	4653.7	4977.8	5212.2	5465.8	5831.6	6391.7	6832.9	7548.8	7828.2
42.5°	4055.2	4144.0	4387.4	4719.0	5078.1	5368.5	5645.0	6428.0	6967.3	7085.6	6238.6
47.5°	3714.3	3816.5	4207.5	4562.9	5010.1	5155.4	5346.5	6373.6	6840.2	5695.8	4396.9
55°	2402.1	3216.9	3854.1	3924.5	4181.0	4450.9	4280.0	5041.7	5056.9	3268.8	2898.0
65°	441.0	582.2	966.8	1256.5	808.5	240.4	817.0	1284.4	1183.6	948.2	586.0
75°	87.8	123.6	122.7	164.6	130.5	144.0	85.3	85.4	75.5	45.1	47.0
85°	29.0	30.8	30.8	33.5	35.1	34.1	30.8	31.7	30.0	26.5	26.2
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°	6655.9	6655.9	6655.9	6655.9
1°	6615.6	6611.4	6608.6	6607.2
3°	6585.3	6577.6	6575.4	6575.1
5°	6600.8	6604.9	6608.6	6609.2
7°	6635.8	6651.6	6662.3	6667.6
9°	6688.9	6727.5	6748.3	6756.1
11°	6770.5	6838.8	6878.4	6892.3
13°	6887.7	6970.1	7026.3	7047.1
15°	7008.5	7128.5	7213.3	7243.6
17°	7152.1	7317.9	7414.2	7443.1
19.5°	7360.0	7576.7	7695.8	7706.8
22.5°	7661.3	7952.2	8128.7	8168.0
25.5°	8052.8	8361.5	8565.4	8632.2
29°	8477.7	8649.4	8754.5	8800.5
33°	8539.5	8220.1	8035.8	8053.2
37.5°	7453.4	6623.4	6062.7	5959.2
42.5°	5311.2	4800.6	4392.1	4265.0
47.5°	3896.3	3860.7	3787.4	3824.2
55°	2265.5	1826.7	1365.8	1181.3
65°	407.0	403.8	192.5	169.3
75°	42.4	46.6	28.5	23.4
85°	24.3	24.1	16.5	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)