

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: P233391

Luminaire Tested: **NFFLD-C40-D-UNV-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233391
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-66-7050
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 5000K CCT, 72 CRI LEDS
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16872.5 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

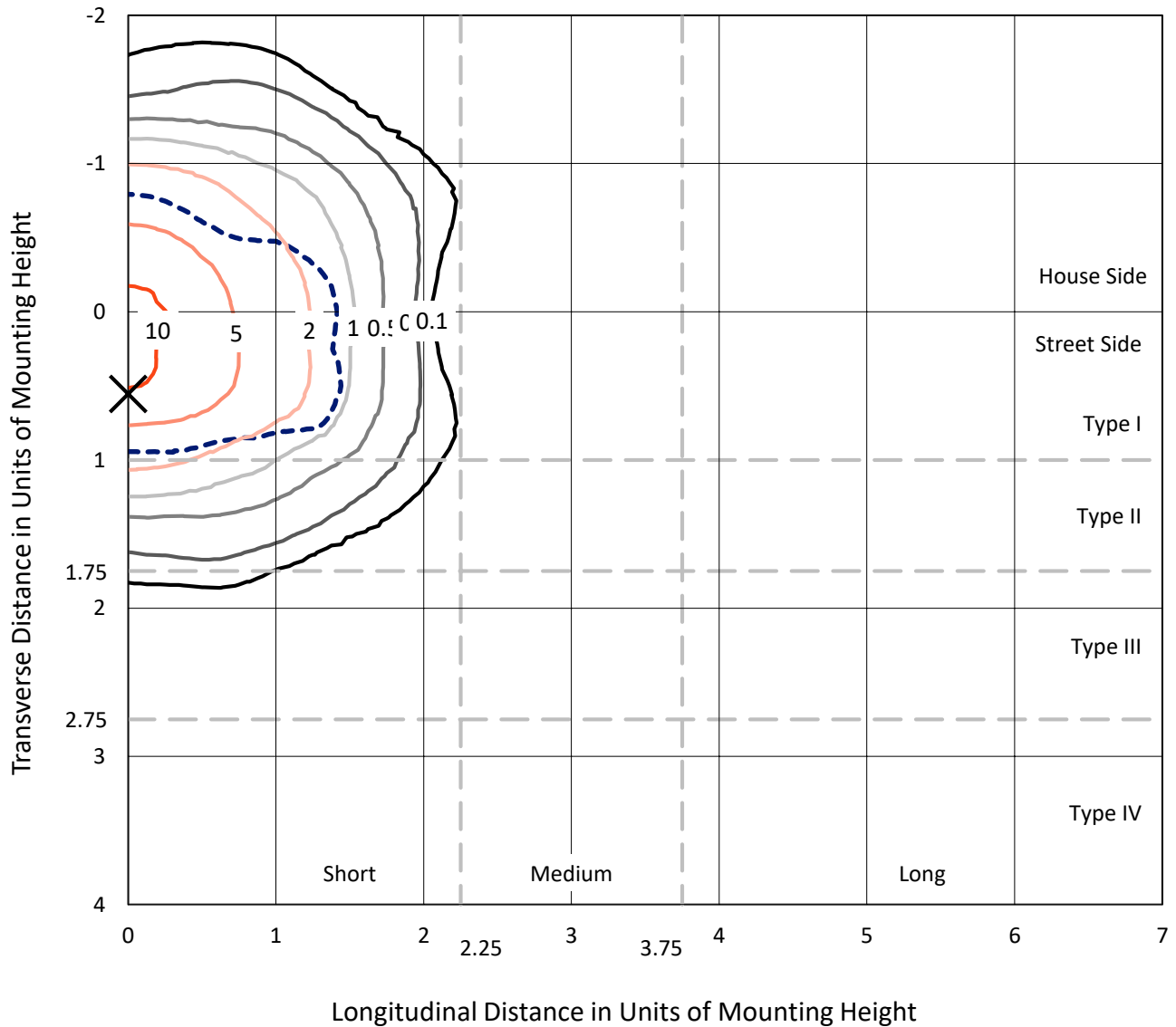
Input Watts (W): 127.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

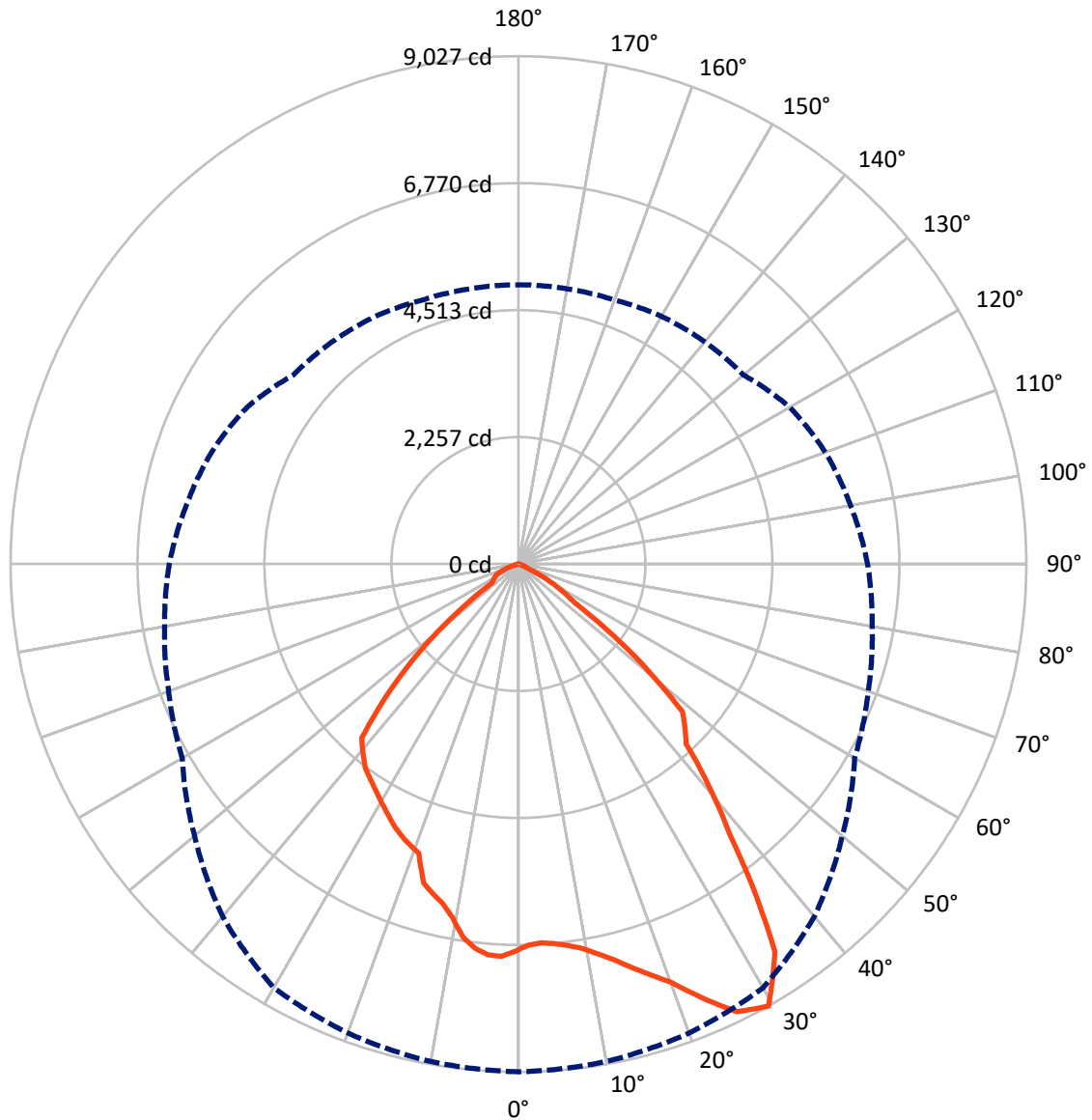
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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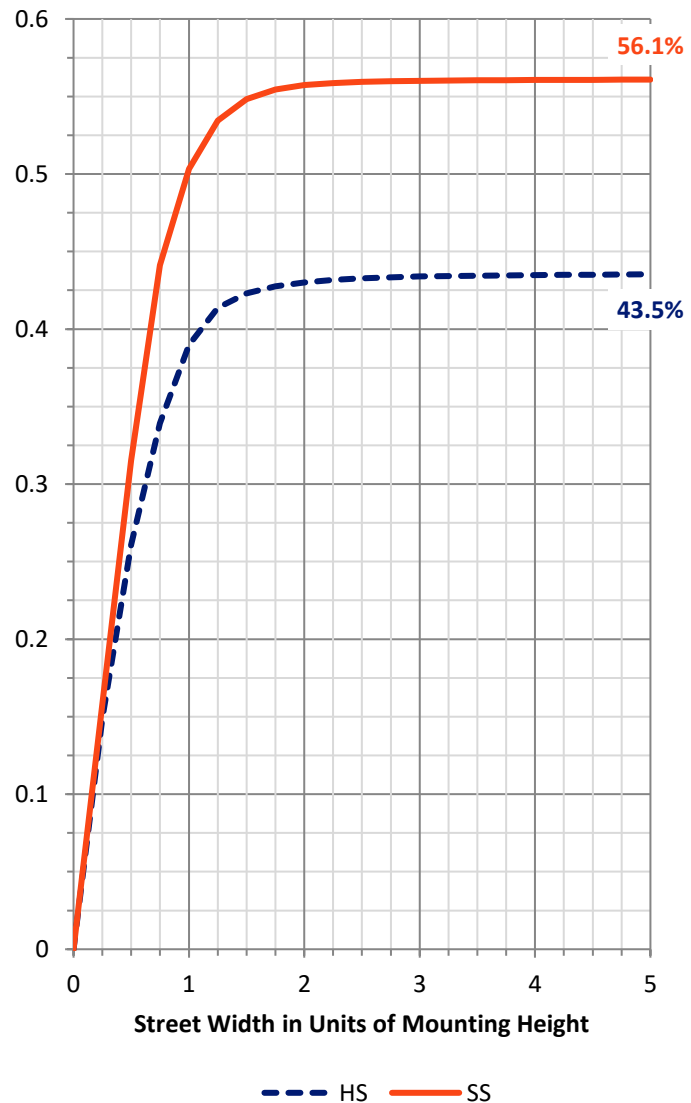
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7410.7	0.0	7410.7
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	9461.8	0.0	9461.8
	% Fixture	56.1	0.0	56.1
Total	Lumens	16872.5	0.0	16872.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.7	3.9
10°-20°	1905.2	11.3
20°-30°	3063.8	18.2
30°-40°	3782.9	22.4
40°-50°	3727.9	22.1
50°-60°	2619.4	15.5
60°-70°	1096.3	6.5
70°-80°	231.6	1.4
80°-90°	31.4	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°	16872.5	100.0
0°-180°	16872.5	100.0

Coefficient of Utilization



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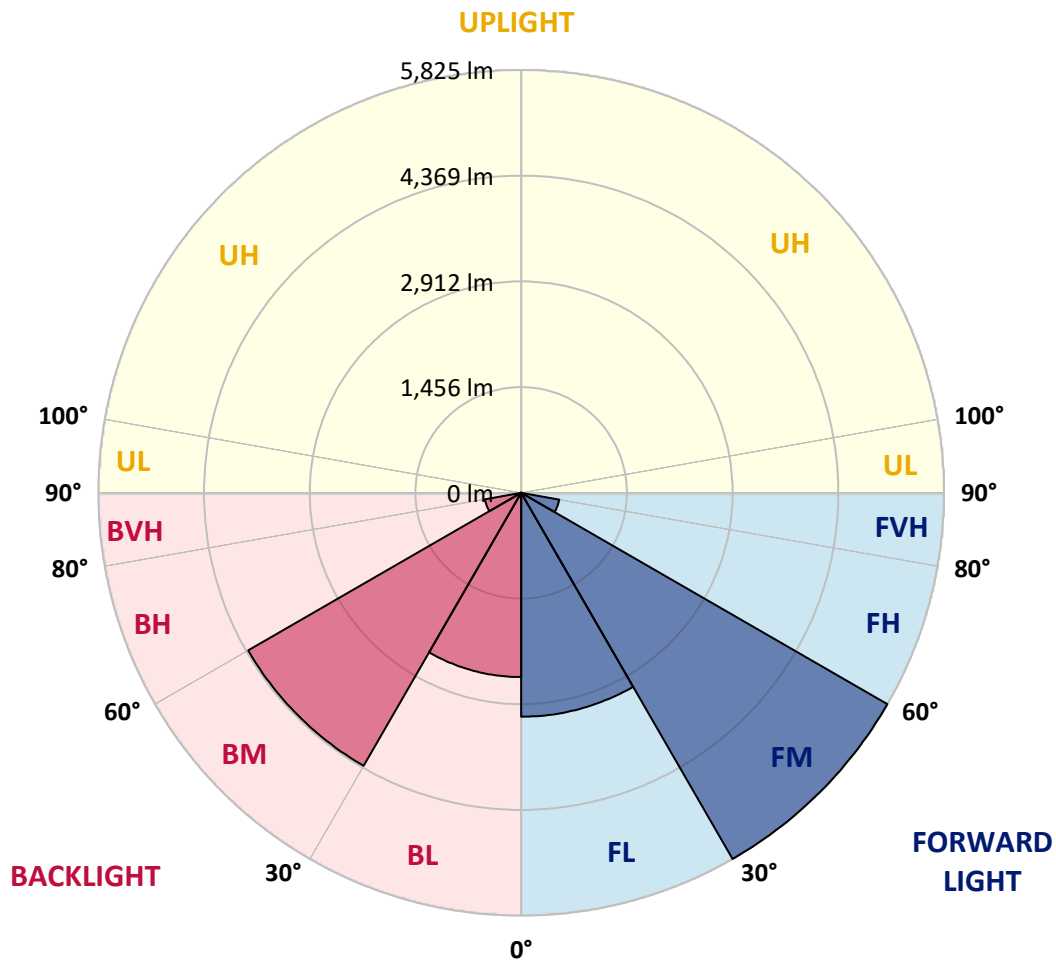
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3084.6	18.3			
FM	(30°-60°)	5824.9	34.5			
FH	(60°-80°)	531.5	3.1			G0/660
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	2537.8	15.0	B4/5000		
BM	(30°-60°)	4341.9	25.7	B3/5000		
BH	(60°-80°)	506.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9
1°	6777.0	6778.4	6781.4	6785.6	6791.1	6797.6	6805.0	6813.0	6821.4	6829.9	6839.4
3°	6744.1	6744.4	6746.7	6754.6	6763.8	6774.1	6785.3	6796.8	6822.5	6848.9	6874.5
5°	6779.0	6778.5	6774.7	6770.4	6766.7	6762.1	6772.6	6792.4	6817.0	6861.8	6899.7
7°	6838.9	6833.5	6822.5	6806.3	6787.6	6774.6	6767.6	6784.5	6826.1	6878.8	6921.1
9°	6929.7	6921.7	6900.3	6860.8	6816.8	6789.1	6772.9	6772.6	6827.4	6886.8	6922.7
11°	7069.4	7055.2	7014.6	6944.5	6873.3	6807.7	6779.7	6781.7	6832.7	6887.8	6897.4
13°	7228.1	7206.8	7149.2	7064.6	6954.4	6848.0	6784.0	6784.9	6839.8	6881.8	6861.8
15°	7429.7	7398.7	7311.6	7188.6	7050.2	6908.0	6802.6	6792.4	6865.4	6870.8	6811.5
17°	7634.3	7604.8	7505.9	7335.9	7148.9	6980.9	6830.9	6801.1	6865.7	6843.9	6730.5
19.5°	7904.8	7893.5	7771.4	7549.1	7292.9	7062.3	6876.5	6788.8	6825.2	7003.6	6612.8
22.5°	8377.9	8337.6	8156.5	7858.2	7518.2	7182.1	6907.5	6754.9	6720.5	6857.8	6420.5
25.5°	8854.0	8785.6	8576.3	8259.7	7822.1	7362.4	6919.9	6675.5	6581.7	6442.6	6227.7
29°	9026.7	8979.4	8871.6	8695.6	8181.3	7514.9	6900.0	6615.1	6384.3	6205.1	5994.4
33°	8260.1	8242.3	8431.3	8758.9	8406.3	7636.3	6922.9	6575.2	6174.6	5819.8	5657.9
37.5°	6112.3	6218.4	6793.6	7644.9	8029.3	7742.7	7008.4	6556.0	5981.5	5606.2	5346.2
42.5°	4374.6	4504.9	4923.9	5447.8	6398.9	7267.7	7146.3	6593.1	5790.0	5506.4	5208.6
47.5°	3922.5	3884.8	3959.9	3996.4	4509.9	5842.1	7016.0	6537.3	5483.9	5287.9	5138.8
55°	1211.7	1400.9	1873.6	2323.7	2972.5	3352.7	5186.8	5171.2	4389.9	4565.2	4288.4
65°	173.7	197.5	414.2	417.5	601.1	972.5	1214.1	1317.4	837.9	246.5	829.2
75°	24.0	29.2	47.7	43.5	48.1	46.3	77.4	87.5	87.4	147.7	133.9
85°	1.0	17.0	24.8	24.9	26.9	27.2	30.8	32.5	31.5	34.9	36.0
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°	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9
1°	6848.5	6857.1	6864.8	6871.4	6876.8	6880.8	6883.1	6883.8	6883.1	6880.8	6876.8
3°	6898.7	6917.9	6935.4	6950.9	6963.9	6973.8	6979.4	6980.6	6979.4	6973.8	6963.9
5°	6931.3	6961.2	6978.5	6973.9	6971.0	6969.2	6968.7	6965.6	6968.7	6969.2	6971.0
7°	6953.7	6962.6	6947.2	6926.0	6900.3	6882.8	6874.5	6869.8	6874.5	6882.8	6900.3
9°	6946.4	6915.1	6872.0	6820.5	6761.2	6723.4	6701.8	6697.1	6701.8	6723.4	6761.2
11°	6879.2	6813.1	6732.2	6642.6	6559.2	6478.9	6420.2	6400.7	6420.2	6478.9	6559.2
13°	6799.8	6683.3	6544.7	6431.3	6328.2	6257.2	6204.7	6187.1	6204.7	6257.2	6328.2
15°	6696.8	6533.1	6377.6	6261.9	6157.6	6101.2	6066.9	6056.4	6066.9	6101.2	6157.6
17°	6559.3	6382.9	6248.7	6134.3	6040.0	5974.8	5934.7	5918.6	5934.7	5974.8	6040.0
19.5°	6415.4	6265.0	6125.9	5987.3	5885.2	5644.0	5498.0	5436.6	5498.0	5644.0	5885.2
22.5°	6278.6	6138.2	5937.1	5755.6	5428.5	5354.2	5326.3	5315.8	5326.3	5354.2	5428.5
25.5°	6095.0	5909.0	5747.6	5370.0	5279.8	5206.7	5179.1	5172.1	5179.1	5206.7	5279.8
29°	5805.5	5569.6	5224.1	5152.8	5082.9	4992.0	4965.9	4961.5	4965.9	4992.0	5082.9
33°	5449.3	5156.0	4871.6	4853.9	4774.4	4736.2	4729.7	4739.9	4729.7	4736.2	4774.4
37.5°	5105.7	4773.3	4582.1	4491.9	4472.7	4499.9	4513.6	4525.3	4513.6	4499.9	4472.7
42.5°	4840.2	4500.1	4250.4	4159.4	4179.6	4168.4	4167.2	4162.0	4167.2	4168.4	4179.6
47.5°	4680.1	4315.6	3914.6	3809.7	3640.8	3180.6	2889.1	2751.7	2889.1	3180.6	3640.8
55°	4025.3	3953.2	3299.5	2463.8	1684.8	1107.4	766.2	568.9	766.2	1107.4	1684.8
65°	1288.8	991.6	597.2	452.3	541.4	472.5	428.1	426.2	428.1	472.5	541.4
75°	168.8	125.9	126.7	90.1	115.4	94.9	61.0	48.9	61.0	94.9	115.4
85°	34.2	31.5	31.5	29.7	28.3	32.5	28.1	2.0	28.1	32.5	28.3
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°	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9	6826.9
1°	6871.4	6864.8	6857.1	6848.5	6839.4	6829.9	6821.4	6813.0	6805.0	6797.6	6791.1
3°	6950.9	6935.4	6917.9	6898.7	6874.5	6848.9	6822.5	6796.8	6785.3	6774.1	6763.8
5°	6973.9	6978.5	6961.2	6931.3	6899.7	6861.8	6817.0	6792.4	6772.6	6762.1	6766.7
7°	6926.0	6947.2	6962.6	6953.7	6921.1	6878.8	6826.1	6784.5	6767.6	6774.6	6787.6
9°	6820.5	6872.0	6915.1	6946.4	6922.7	6886.8	6827.4	6772.6	6772.9	6789.1	6816.8
11°	6642.6	6732.2	6813.1	6879.2	6897.4	6887.8	6832.7	6781.7	6779.7	6807.7	6873.3
13°	6431.3	6544.7	6683.3	6799.8	6861.8	6881.8	6839.8	6784.9	6784.0	6848.0	6954.4
15°	6261.9	6377.6	6533.1	6696.8	6811.5	6870.8	6865.4	6792.4	6802.6	6908.0	7050.2
17°	6134.3	6248.7	6382.9	6559.3	6730.5	6843.9	6865.7	6801.1	6830.9	6980.9	7148.9
19.5°	5987.3	6125.9	6265.0	6415.4	6612.8	7003.6	6825.2	6788.8	6876.5	7062.3	7292.9
22.5°	5755.6	5937.1	6138.2	6278.6	6420.5	6857.8	6720.5	6754.9	6907.5	7182.1	7518.2
25.5°	5370.0	5747.6	5909.0	6095.0	6227.7	6442.6	6581.7	6675.5	6919.9	7362.4	7822.1
29°	5152.8	5224.1	5569.6	5805.5	5994.4	6205.1	6384.3	6615.1	6900.0	7514.9	8181.3
33°	4853.9	4871.6	5156.0	5449.3	5657.9	5819.8	6174.6	6575.2	6922.9	7636.3	8406.3
37.5°	4491.9	4582.1	4773.3	5105.7	5346.2	5606.2	5981.5	6556.0	7008.4	7742.7	8029.3
42.5°	4159.4	4250.4	4500.1	4840.2	5208.6	5506.4	5790.0	6593.1	7146.3	7267.7	6398.9
47.5°	3809.7	3914.6	4315.6	4680.1	5138.8	5287.9	5483.9	6537.3	7016.0	5842.1	4509.9
55°	2463.8	3299.5	3953.2	4025.3	4288.4	4565.2	4389.9	5171.2	5186.8	3352.7	2972.5
65°	452.3	597.2	991.6	1288.8	829.2	246.5	837.9	1317.4	1214.1	972.5	601.1
75°	90.1	126.7	125.9	168.8	133.9	147.7	87.4	87.5	77.4	46.3	48.1
85°	29.7	31.5	31.5	34.2	36.0	34.9	31.5	32.5	30.8	27.2	26.9
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°	6826.9	6826.9	6826.9	6826.9
1°	6785.6	6781.4	6778.4	6777.0
3°	6754.6	6746.7	6744.4	6744.1
5°	6770.4	6774.7	6778.5	6779.0
7°	6806.3	6822.5	6833.5	6838.9
9°	6860.8	6900.3	6921.7	6929.7
11°	6944.5	7014.6	7055.2	7069.4
13°	7064.6	7149.2	7206.8	7228.1
15°	7188.6	7311.6	7398.7	7429.7
17°	7335.9	7505.9	7604.8	7634.3
19.5°	7549.1	7771.4	7893.5	7904.8
22.5°	7858.2	8156.5	8337.6	8377.9
25.5°	8259.7	8576.3	8785.6	8854.0
29°	8695.6	8871.6	8979.4	9026.7
33°	8758.9	8431.3	8242.3	8260.1
37.5°	7644.9	6793.6	6218.4	6112.3
42.5°	5447.8	4923.9	4504.9	4374.6
47.5°	3996.4	3959.9	3884.8	3922.5
55°	2323.7	1873.6	1400.9	1211.7
65°	417.5	414.2	197.5	173.7
75°	43.5	47.7	29.2	24.0
85°	24.9	24.8	17.0	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)