

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: P232920

Luminaire Tested: **NFFLD-C55-D-UNV-66-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-7060
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19557.3 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 145
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

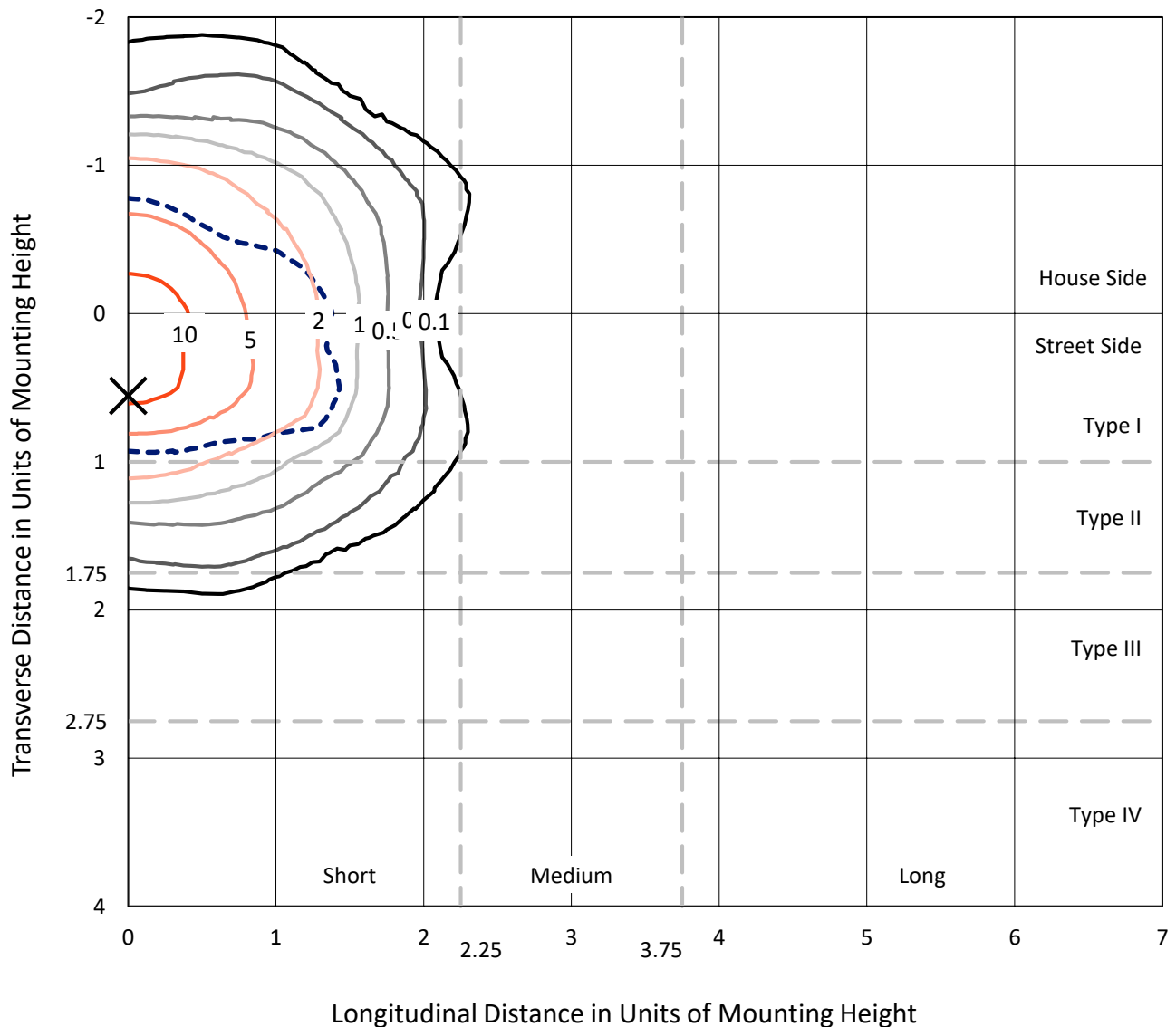


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Iso-Footcandle Lines of Horizontal Illumination

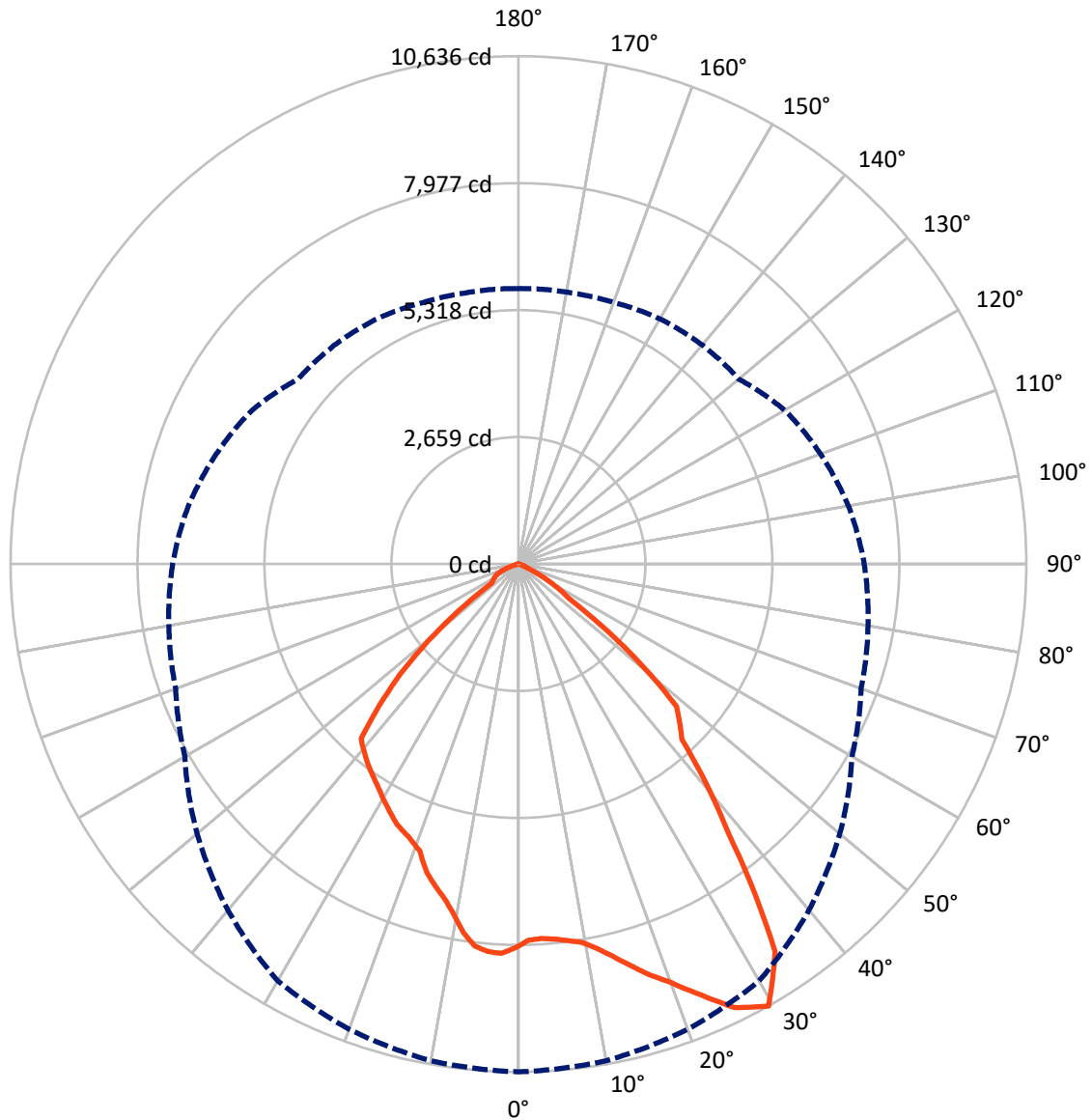
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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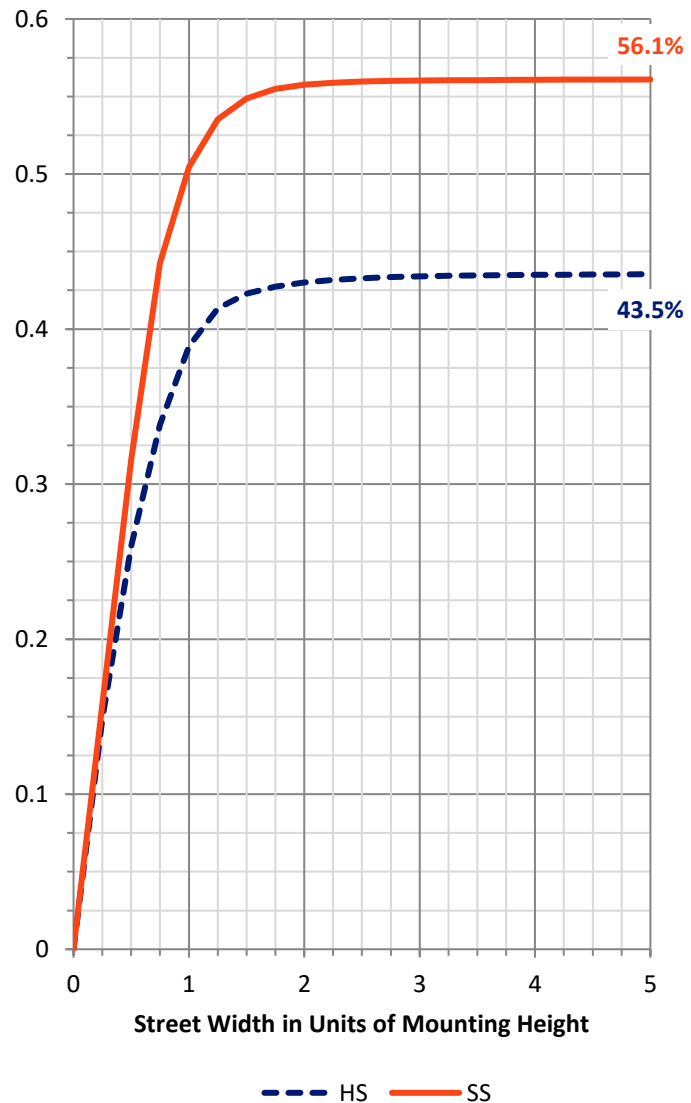
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8589.2	0.0	8589.2
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	10968.1	0.0	10968.1
	% Fixture	56.1	0.0	56.1
Total	Lumens	19557.3	0.0	19557.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.1	3.9
10°-20°	2213.0	11.3
20°-30°	3564.6	18.2
30°-40°	4413.6	22.6
40°-50°	4319.8	22.1
50°-60°	3010.6	15.4
60°-70°	1259.7	6.4
70°-80°	265.8	1.4
80°-90°	32.6	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°	19557.3	100.0
0°-180°	19557.3	100.0



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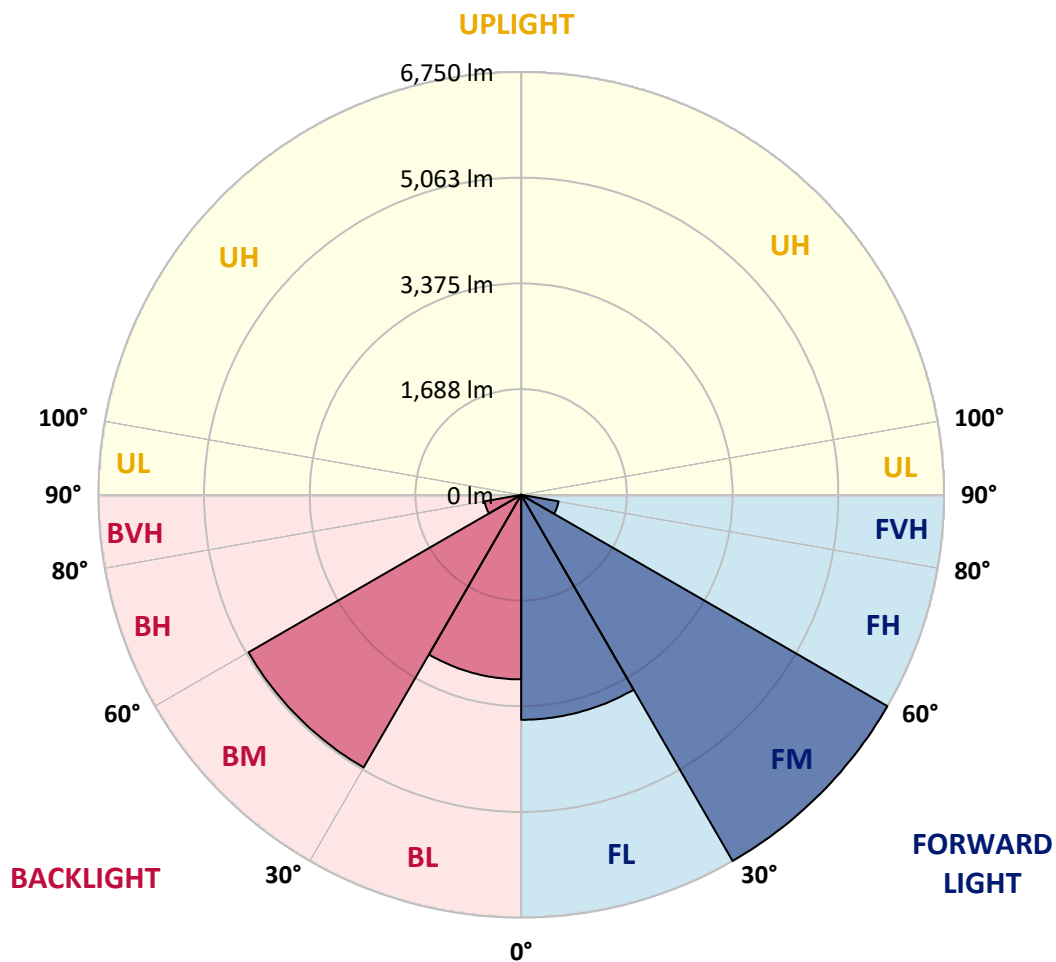
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3591.5	18.4			
FM	(30°-60°)	6750.4	34.5			
FH	(60°-80°)	605.2	3.1			G0/660
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	2945.7	15.1	B4/5000		
BM	(30°-60°)	5026.3	25.7	B4/8500		
BH	(60°-80°)	593.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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°	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9
1°	7883.3	7886.8	7892.5	7899.9	7908.9	7919.1	7930.1	7941.7	7953.7	7965.7	7978.6
3°	7856.1	7862.8	7870.4	7873.7	7879.1	7886.5	7895.6	7906.0	7942.1	7980.3	8016.9
5°	7891.0	7885.2	7881.9	7878.0	7873.6	7871.2	7882.9	7901.9	7927.7	7988.0	8049.4
7°	7954.1	7949.1	7931.9	7912.6	7890.7	7875.2	7867.8	7880.9	7916.0	7993.8	8057.5
9°	8032.6	8029.0	8002.1	7970.0	7923.0	7882.1	7849.9	7848.9	7901.7	7990.0	8044.7
11°	8210.2	8175.9	8127.6	8054.3	7963.6	7897.4	7843.1	7841.1	7894.3	7988.0	8017.5
13°	8445.9	8402.2	8329.6	8191.6	8045.8	7926.4	7858.8	7838.3	7899.4	7972.6	7987.5
15°	8713.6	8658.3	8571.9	8384.3	8166.5	7982.7	7881.1	7855.8	7922.7	7986.1	7938.5
17°	9000.8	8961.5	8825.3	8591.1	8330.4	8074.9	7902.7	7884.0	7952.8	8028.8	7877.6
19.5°	9323.8	9271.4	9124.4	8878.4	8546.8	8235.3	7954.0	7895.2	7947.9	8101.6	7771.8
22.5°	9806.8	9710.0	9490.4	9184.0	8834.0	8405.4	8012.7	7832.8	7823.1	7783.4	7546.6
25.5°	10335.5	10212.3	9945.7	9548.5	9124.3	8629.3	8056.2	7708.3	7665.5	7557.3	7316.5
29°	10636.2	10564.7	10368.0	10081.4	9465.0	8785.7	8066.7	7638.6	7434.1	7242.2	7018.0
33°	9739.9	9844.3	10012.3	10266.1	9740.4	8860.1	8094.5	7642.8	7161.6	6774.6	6571.1
37.5°	7120.8	7375.1	8034.9	9038.2	9432.6	9019.3	8142.7	7674.0	6945.6	6534.0	6222.5
42.5°	5015.9	5223.8	5693.3	6391.8	7546.4	8523.0	8272.0	7646.2	6696.1	6359.4	6016.8
47.5°	4453.3	4457.0	4528.4	4579.1	5229.7	6841.6	8164.3	7475.9	6268.0	5984.9	5783.5
55°	1314.3	1610.4	2114.6	2643.4	3394.0	3835.3	5910.7	5950.0	4960.3	5123.6	4829.8
65°	204.7	227.9	463.5	484.9	687.1	1092.5	1375.2	1568.4	957.7	306.5	963.8
75°	27.2	21.4	61.7	53.7	46.7	33.9	78.1	86.8	98.2	153.3	150.8
85°	0.0	21.3	28.0	27.0	19.3	20.5	21.8	21.9	34.4	23.3	30.7
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9
1°	7991.1	8002.9	8013.6	8022.9	8030.6	8036.4	8040.1	8041.4	8040.1	8036.4	8030.6
3°	8051.7	8077.9	8101.5	8122.1	8139.0	8151.6	8159.9	8162.6	8159.9	8151.6	8139.0
5°	8088.2	8125.2	8150.7	8147.1	8142.1	8140.5	8141.9	8139.4	8141.9	8140.5	8142.1
7°	8105.9	8121.5	8113.3	8093.3	8058.3	8041.0	8040.7	8053.0	8040.7	8041.0	8058.3
9°	8090.6	8057.4	8009.4	7962.1	7888.0	7827.4	7798.6	7804.7	7798.6	7827.4	7888.0
11°	8005.5	7933.7	7838.2	7721.4	7631.7	7526.2	7451.6	7450.6	7451.6	7526.2	7631.7
13°	7912.2	7767.7	7592.6	7451.9	7342.2	7258.4	7180.7	7167.4	7180.7	7258.4	7342.2
15°	7799.6	7581.8	7382.9	7238.6	7124.0	7043.2	6970.3	6962.7	6970.3	7043.2	7124.0
17°	7660.9	7405.2	7225.1	7080.1	6955.6	6837.7	6745.2	6742.5	6745.2	6837.7	6955.6
19.5°	7506.7	7257.8	7073.3	6888.0	6701.1	6509.5	6375.4	6349.7	6375.4	6509.5	6701.1
22.5°	7318.4	7102.7	6861.4	6573.6	6297.4	6228.7	6172.0	6156.7	6172.0	6228.7	6297.4
25.5°	7078.6	6838.9	6546.3	6221.2	6134.8	6068.9	6023.1	6014.0	6023.1	6068.9	6134.8
29°	6733.2	6441.7	6025.0	5987.0	5928.4	5829.0	5781.0	5769.6	5781.0	5829.0	5928.4
33°	6302.2	5938.6	5677.9	5660.7	5589.4	5514.0	5509.4	5496.1	5509.4	5514.0	5589.4
37.5°	5911.8	5531.0	5345.2	5236.2	5195.1	5221.3	5234.5	5240.0	5234.5	5221.3	5195.1
42.5°	5576.6	5237.6	4941.2	4821.2	4846.2	4867.9	4882.7	4925.7	4882.7	4867.9	4846.2
47.5°	5322.6	4970.4	4514.7	4433.5	4285.4	3791.5	3462.7	3379.6	3462.7	3791.5	4285.4
55°	4523.3	4410.5	3803.0	2923.9	2013.1	1304.4	891.1	688.7	891.1	1304.4	2013.1
65°	1573.9	1171.2	722.8	547.4	647.3	556.1	500.2	491.8	500.2	556.1	647.3
75°	173.2	133.2	128.7	124.4	153.1	109.6	88.3	63.0	88.3	109.6	153.1
85°	23.3	23.8	26.5	29.3	25.3	22.7	14.5	0.0	14.5	22.7	25.3
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°	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9	7961.9
1°	8022.9	8013.6	8002.9	7991.1	7978.6	7965.7	7953.7	7941.7	7930.1	7919.1	7908.9
3°	8122.1	8101.5	8077.9	8051.7	8016.9	7980.3	7942.1	7906.0	7895.6	7886.5	7879.1
5°	8147.1	8150.7	8125.2	8088.2	8049.4	7988.0	7927.7	7901.9	7882.9	7871.2	7873.6
7°	8093.3	8113.3	8121.5	8105.9	8057.5	7993.8	7916.0	7880.9	7867.8	7875.2	7890.7
9°	7962.1	8009.4	8057.4	8090.6	8044.7	7990.0	7901.7	7848.9	7849.9	7882.1	7923.0
11°	7721.4	7838.2	7933.7	8005.5	8017.5	7988.0	7894.3	7841.1	7843.1	7897.4	7963.6
13°	7451.9	7592.6	7767.7	7912.2	7987.5	7972.6	7899.4	7838.3	7858.8	7926.4	8045.8
15°	7238.6	7382.9	7581.8	7799.6	7938.5	7986.1	7922.7	7855.8	7881.1	7982.7	8166.5
17°	7080.1	7225.1	7405.2	7660.9	7877.6	8028.8	7952.8	7884.0	7902.7	8074.9	8330.4
19.5°	6888.0	7073.3	7257.8	7506.7	7771.8	8101.6	7947.9	7895.2	7954.0	8235.3	8546.8
22.5°	6573.6	6861.4	7102.7	7318.4	7546.6	7783.4	7823.1	7832.8	8012.7	8405.4	8834.0
25.5°	6221.2	6546.3	6838.9	7078.6	7316.5	7557.3	7665.5	7708.3	8056.2	8629.3	9124.3
29°	5987.0	6025.0	6441.7	6733.2	7018.0	7242.2	7434.1	7638.6	8066.7	8785.7	9465.0
33°	5660.7	5677.9	5938.6	6302.2	6571.1	6774.6	7161.6	7642.8	8094.5	8860.1	9740.4
37.5°	5236.2	5345.2	5531.0	5911.8	6222.5	6534.0	6945.6	7674.0	8142.7	9019.3	9432.6
42.5°	4821.2	4941.2	5237.6	5576.6	6016.8	6359.4	6696.1	7646.2	8272.0	8523.0	7546.4
47.5°	4433.5	4514.7	4970.4	5322.6	5783.5	5984.9	6268.0	7475.9	8164.3	6841.6	5229.7
55°	2923.9	3803.0	4410.5	4523.3	4829.8	5123.6	4960.3	5950.0	5910.7	3835.3	3394.0
65°	547.4	722.8	1171.2	1573.9	963.8	306.5	957.7	1568.4	1375.2	1092.5	687.1
75°	124.4	128.7	133.2	173.2	150.8	153.3	98.2	86.8	78.1	33.9	46.7
85°	29.3	26.5	23.8	23.3	30.7	23.3	34.4	21.9	21.8	20.5	19.3
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):

	330°	340°	350°	360°
0°	7961.9	7961.9	7961.9	7961.9
1°	7899.9	7892.5	7886.8	7883.3
3°	7873.7	7870.4	7862.8	7856.1
5°	7878.0	7881.9	7885.2	7891.0
7°	7912.6	7931.9	7949.1	7954.1
9°	7970.0	8002.1	8029.0	8032.6
11°	8054.3	8127.6	8175.9	8210.2
13°	8191.6	8329.6	8402.2	8445.9
15°	8384.3	8571.9	8658.3	8713.6
17°	8591.1	8825.3	8961.5	9000.8
19.5°	8878.4	9124.4	9271.4	9323.8
22.5°	9184.0	9490.4	9710.0	9806.8
25.5°	9548.5	9945.7	10212.3	10335.5
29°	10081.4	10368.0	10564.7	10636.2
33°	10266.1	10012.3	9844.3	9739.9
37.5°	9038.2	8034.9	7375.1	7120.8
42.5°	6391.8	5693.3	5223.8	5015.9
47.5°	4579.1	4528.4	4457.0	4453.3
55°	2643.4	2114.6	1610.4	1314.3
65°	484.9	463.5	227.9	204.7
75°	53.7	61.7	21.4	27.2
85°	27.0	28.0	21.3	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)