

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: P233389

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233389
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
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 4000K CCT, 72 CRI LEDS
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17112.2 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

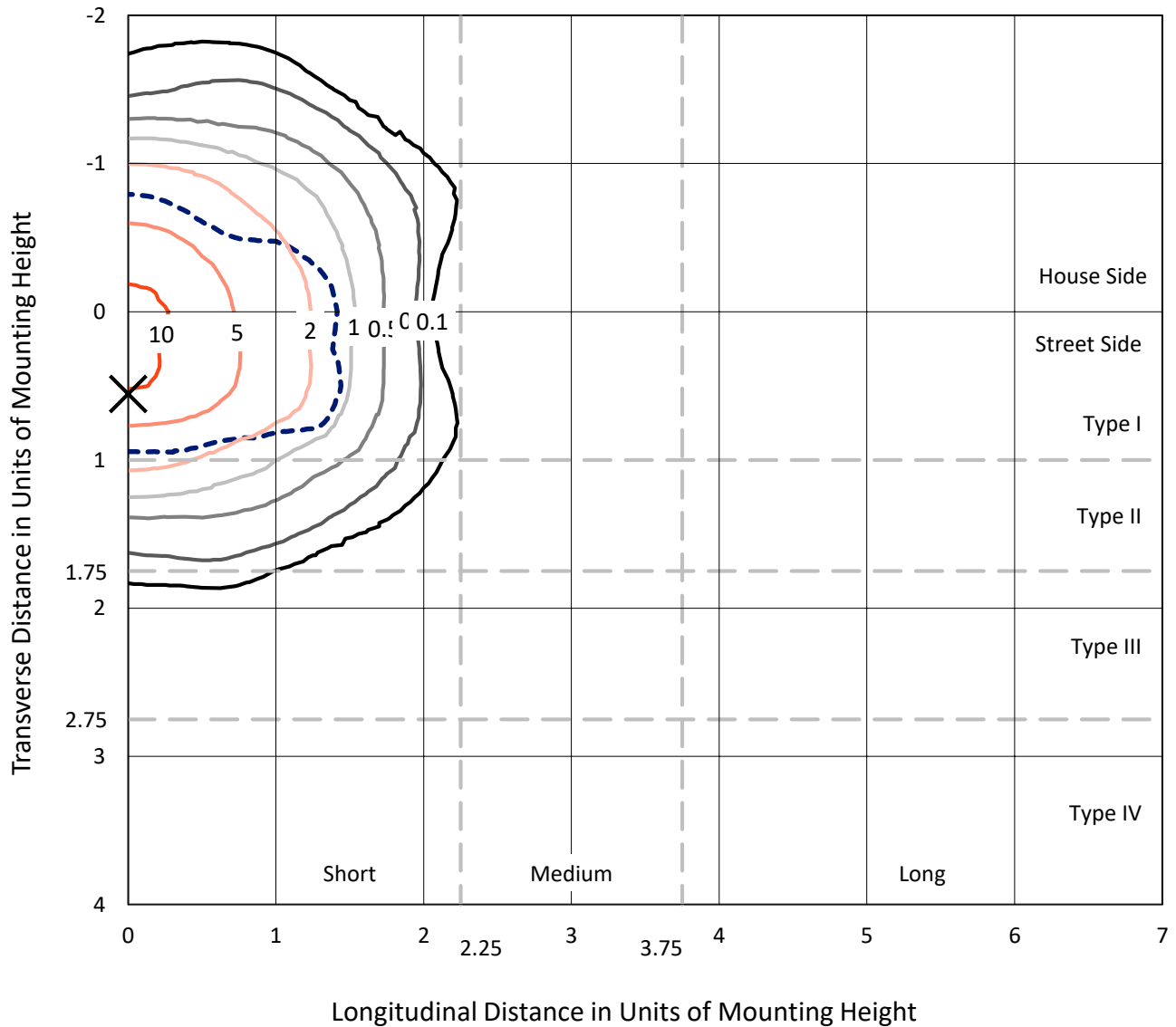


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

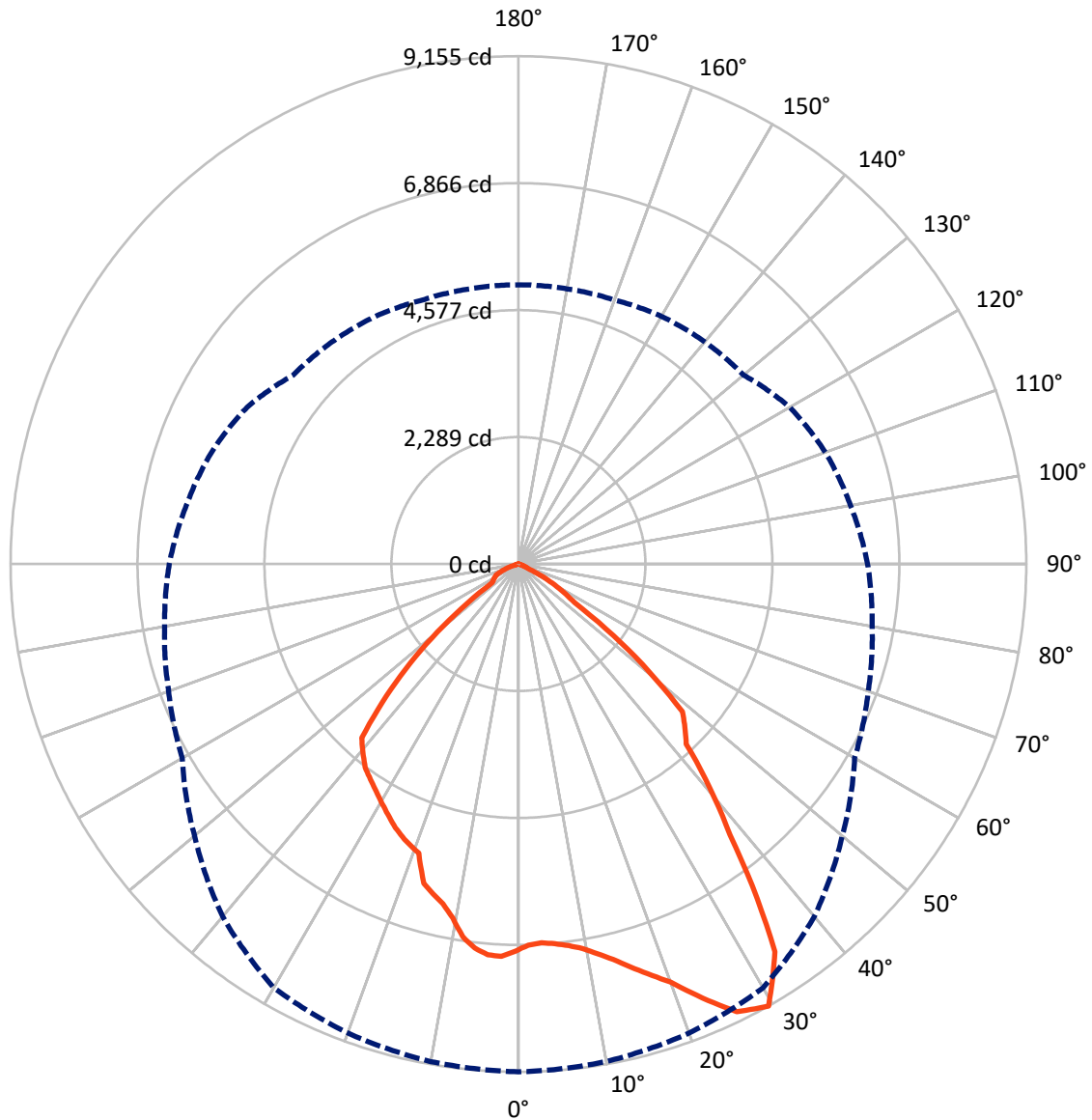


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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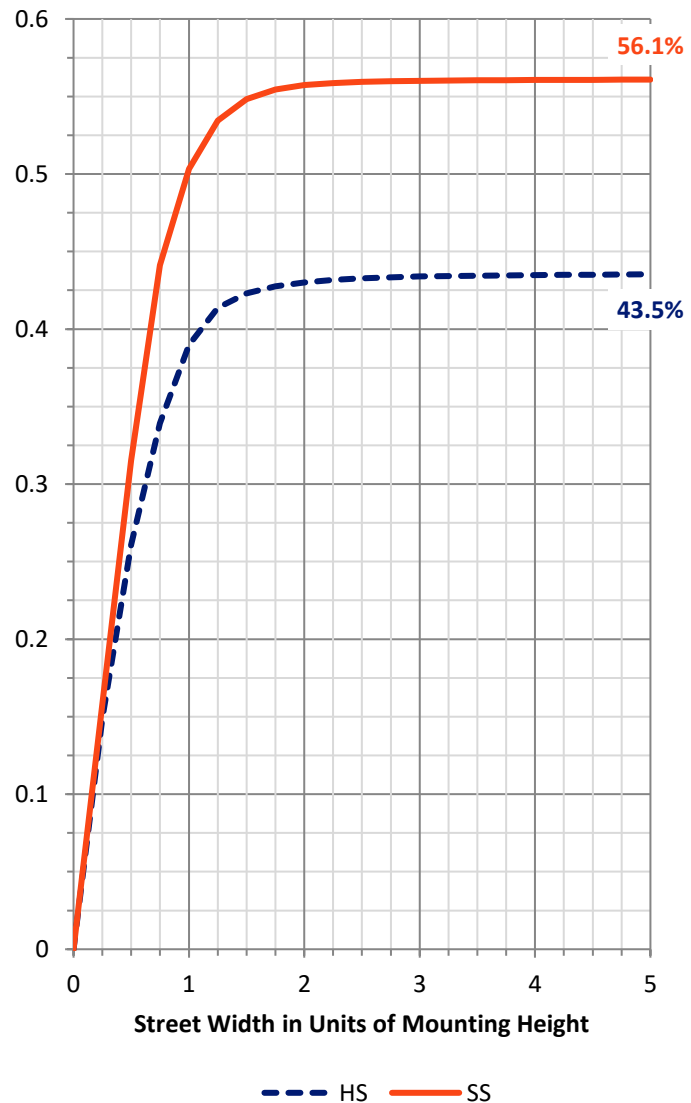
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7516.0	0.0	7516.0
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	9596.2	0.0	9596.2
	% Fixture	56.1	0.0	56.1
Total	Lumens	17112.2	0.0	17112.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.0	3.9
10°-20°	1932.3	11.3
20°-30°	3107.3	18.2
30°-40°	3836.6	22.4
40°-50°	3780.9	22.1
50°-60°	2656.6	15.5
60°-70°	1111.9	6.5
70°-80°	234.9	1.4
80°-90°	31.8	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°	17112.2	100.0
0°-180°	17112.2	100.0



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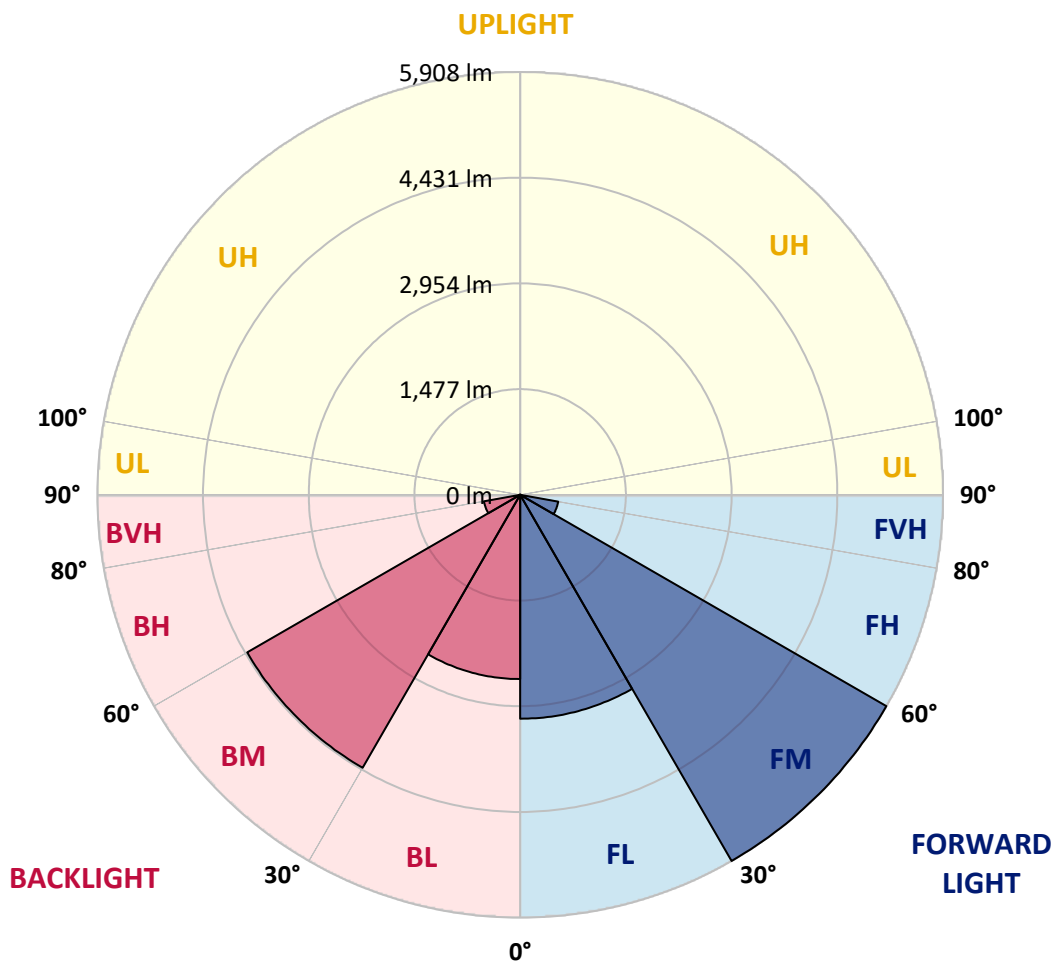
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3128.4	18.3			
FM	(30°-60°)	5907.6	34.5			
FH	(60°-80°)	539.0	3.1			G0/660
FVH	(80°-90°)	13.2	0.1			G1/100
BL	(0°-30°)	2573.9	15.0	B4/5000		
BM	(30°-60°)	4403.5	25.7	B3/5000		
BH	(60°-80°)	514.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	18.2	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°	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9
1°	6873.3	6874.8	6877.7	6882.0	6887.6	6894.2	6901.6	6909.7	6918.2	6926.9	6936.5
3°	6839.8	6840.1	6842.5	6850.5	6859.8	6870.3	6881.6	6893.3	6919.3	6946.1	6972.1
5°	6875.3	6874.8	6870.9	6866.6	6862.8	6858.1	6868.8	6888.9	6913.9	6959.3	6997.7
7°	6936.0	6930.5	6919.4	6903.0	6884.0	6870.8	6863.7	6880.9	6923.1	6976.5	7019.5
9°	7028.1	7020.0	6998.4	6958.2	6913.6	6885.6	6869.1	6868.8	6924.3	6984.6	7021.0
11°	7169.8	7155.4	7114.2	7043.1	6970.9	6904.4	6876.0	6878.1	6929.8	6985.6	6995.4
13°	7330.8	7309.2	7250.7	7165.0	7053.2	6945.3	6880.4	6881.2	6937.0	6979.5	6959.3
15°	7535.3	7503.7	7415.5	7290.7	7150.4	7006.1	6899.2	6888.9	6962.8	6968.4	6908.2
17°	7742.8	7712.7	7612.6	7440.1	7250.4	7080.2	6927.9	6897.7	6963.3	6941.1	6826.0
19.5°	8017.1	8005.6	7881.8	7656.3	7396.4	7162.6	6974.1	6885.2	6922.2	7103.0	6706.7
22.5°	8496.9	8456.0	8272.4	7969.8	7625.0	7284.1	7005.6	6850.8	6815.9	6955.2	6511.7
25.5°	8979.8	8910.3	8698.1	8377.0	7933.2	7467.0	7018.2	6770.3	6675.2	6534.1	6316.2
29°	9154.9	9107.0	8997.6	8819.1	8297.5	7621.7	6998.0	6709.0	6475.0	6293.2	6079.5
33°	8377.5	8359.4	8551.0	8883.3	8525.7	7744.8	7021.2	6668.5	6262.3	5902.5	5738.3
37.5°	6199.1	6306.8	6890.1	7753.5	8143.3	7852.7	7108.0	6649.1	6066.4	5685.9	5422.0
42.5°	4436.7	4569.0	4993.8	5525.1	6489.8	7371.0	7247.9	6686.8	5872.3	5584.6	5282.5
47.5°	3978.2	3940.0	4016.2	4053.2	4573.9	5925.1	7115.7	6630.2	5561.8	5363.0	5211.8
55°	1228.9	1420.8	1900.2	2356.7	3014.7	3400.4	5260.5	5244.7	4452.3	4630.1	4349.3
65°	176.1	200.3	420.0	423.4	609.5	986.4	1231.3	1336.1	849.8	250.0	841.0
75°	24.3	29.6	48.4	44.1	48.8	46.9	78.5	88.8	88.7	149.8	135.8
85°	1.0	17.2	25.1	25.2	27.3	27.6	31.2	33.0	32.0	35.4	36.6
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9
1°	6945.8	6954.5	6962.3	6969.0	6974.5	6978.5	6980.9	6981.6	6980.9	6978.5	6974.5
3°	6996.6	7016.1	7033.9	7049.6	7062.8	7072.9	7078.6	7079.8	7078.6	7072.9	7062.8
5°	7029.8	7060.1	7077.6	7073.0	7070.0	7068.2	7067.7	7064.6	7067.7	7068.2	7070.0
7°	7052.5	7061.5	7045.9	7024.4	6998.3	6980.6	6972.2	6967.4	6972.2	6980.6	6998.3
9°	7045.1	7013.4	6969.6	6917.4	6857.3	6818.9	6796.9	6792.3	6796.9	6818.9	6857.3
11°	6976.9	6909.9	6827.8	6736.9	6652.4	6571.0	6511.4	6491.6	6511.4	6571.0	6652.4
13°	6896.5	6778.3	6637.7	6522.7	6418.1	6346.2	6292.8	6275.0	6292.8	6346.2	6418.1
15°	6791.9	6626.0	6468.2	6350.9	6245.1	6187.9	6153.0	6142.4	6153.0	6187.9	6245.1
17°	6652.4	6473.6	6337.4	6221.5	6125.8	6059.7	6019.1	6002.7	6019.1	6059.7	6125.8
19.5°	6506.5	6353.9	6212.9	6072.3	5968.8	5724.1	5576.1	5513.8	5576.1	5724.1	5968.8
22.5°	6367.8	6225.4	6021.5	5837.4	5505.5	5430.3	5401.9	5391.3	5401.9	5430.3	5505.5
25.5°	6181.6	5993.0	5829.2	5446.3	5354.8	5280.6	5252.7	5245.5	5252.7	5280.6	5354.8
29°	5888.0	5648.8	5298.3	5226.0	5155.1	5062.9	5036.4	5031.9	5036.4	5062.9	5155.1
33°	5526.7	5229.2	4940.8	4922.8	4842.2	4803.5	4796.8	4807.2	4796.8	4803.5	4842.2
37.5°	5178.2	4841.1	4647.1	4555.7	4536.2	4563.8	4577.7	4589.6	4577.7	4563.8	4536.2
42.5°	4909.0	4564.0	4310.8	4218.5	4239.0	4227.7	4226.3	4221.1	4226.3	4227.7	4239.0
47.5°	4746.5	4377.0	3970.2	3863.9	3692.5	3225.7	2930.1	2790.8	2930.1	3225.7	3692.5
55°	4082.5	4009.4	3346.4	2498.8	1708.7	1123.2	777.0	577.0	777.0	1123.2	1708.7
65°	1307.1	1005.7	605.7	458.8	549.2	479.2	434.2	432.2	434.2	479.2	549.2
75°	171.2	127.7	128.6	91.4	117.0	96.3	61.8	49.6	61.8	96.3	117.0
85°	34.7	32.0	32.0	30.1	28.7	33.0	28.5	2.0	28.5	33.0	28.7
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°	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9	6923.9
1°	6969.0	6962.3	6954.5	6945.8	6936.5	6926.9	6918.2	6909.7	6901.6	6894.2	6887.6
3°	7049.6	7033.9	7016.1	6996.6	6972.1	6946.1	6919.3	6893.3	6881.6	6870.3	6859.8
5°	7073.0	7077.6	7060.1	7029.8	6997.7	6959.3	6913.9	6888.9	6868.8	6858.1	6862.8
7°	7024.4	7045.9	7061.5	7052.5	7019.5	6976.5	6923.1	6880.9	6863.7	6870.8	6884.0
9°	6917.4	6969.6	7013.4	7045.1	7021.0	6984.6	6924.3	6868.8	6869.1	6885.6	6913.6
11°	6736.9	6827.8	6909.9	6976.9	6995.4	6985.6	6929.8	6878.1	6876.0	6904.4	6970.9
13°	6522.7	6637.7	6778.3	6896.5	6959.3	6979.5	6937.0	6881.2	6880.4	6945.3	7053.2
15°	6350.9	6468.2	6626.0	6791.9	6908.2	6968.4	6962.8	6888.9	6899.2	7006.1	7150.4
17°	6221.5	6337.4	6473.6	6652.4	6826.0	6941.1	6963.3	6897.7	6927.9	7080.2	7250.4
19.5°	6072.3	6212.9	6353.9	6506.5	6706.7	7103.0	6922.2	6885.2	6974.1	7162.6	7396.4
22.5°	5837.4	6021.5	6225.4	6367.8	6511.7	6955.2	6815.9	6850.8	7005.6	7284.1	7625.0
25.5°	5446.3	5829.2	5993.0	6181.6	6316.2	6534.1	6675.2	6770.3	7018.2	7467.0	7933.2
29°	5226.0	5298.3	5648.8	5888.0	6079.5	6293.2	6475.0	6709.0	6998.0	7621.7	8297.5
33°	4922.8	4940.8	5229.2	5526.7	5738.3	5902.5	6262.3	6668.5	7021.2	7744.8	8525.7
37.5°	4555.7	4647.1	4841.1	5178.2	5422.0	5685.9	6066.4	6649.1	7108.0	7852.7	8143.3
42.5°	4218.5	4310.8	4564.0	4909.0	5282.5	5584.6	5872.3	6686.8	7247.9	7371.0	6489.8
47.5°	3863.9	3970.2	4377.0	4746.5	5211.8	5363.0	5561.8	6630.2	7115.7	5925.1	4573.9
55°	2498.8	3346.4	4009.4	4082.5	4349.3	4630.1	4452.3	5244.7	5260.5	3400.4	3014.7
65°	458.8	605.7	1005.7	1307.1	841.0	250.0	849.8	1336.1	1231.3	986.4	609.5
75°	91.4	128.6	127.7	171.2	135.8	149.8	88.7	88.8	78.5	46.9	48.8
85°	30.1	32.0	32.0	34.7	36.6	35.4	32.0	33.0	31.2	27.6	27.3
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°	6923.9	6923.9	6923.9	6923.9
1°	6882.0	6877.7	6874.8	6873.3
3°	6850.5	6842.5	6840.1	6839.8
5°	6866.6	6870.9	6874.8	6875.3
7°	6903.0	6919.4	6930.5	6936.0
9°	6958.2	6998.4	7020.0	7028.1
11°	7043.1	7114.2	7155.4	7169.8
13°	7165.0	7250.7	7309.2	7330.8
15°	7290.7	7415.5	7503.7	7535.3
17°	7440.1	7612.6	7712.7	7742.8
19.5°	7656.3	7881.8	8005.6	8017.1
22.5°	7969.8	8272.4	8456.0	8496.9
25.5°	8377.0	8698.1	8910.3	8979.8
29°	8819.1	8997.6	9107.0	9154.9
33°	8883.3	8551.0	8359.4	8377.5
37.5°	7753.5	6890.1	6306.8	6199.1
42.5°	5525.1	4993.8	4569.0	4436.7
47.5°	4053.2	4016.2	3940.0	3978.2
55°	2356.7	1900.2	1420.8	1228.9
65°	423.4	420.0	200.3	176.1
75°	44.1	48.4	29.6	24.3
85°	25.2	25.1	17.2	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)