

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: P958812

Luminaire Tested: **NFFLD-C40-D-UNV-66-8040**

Issue Date: 2/3/2025



Test Information

Test Method: LM-79-08
Report Number: P958812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P233389)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C40-D-UNV-66-8040
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

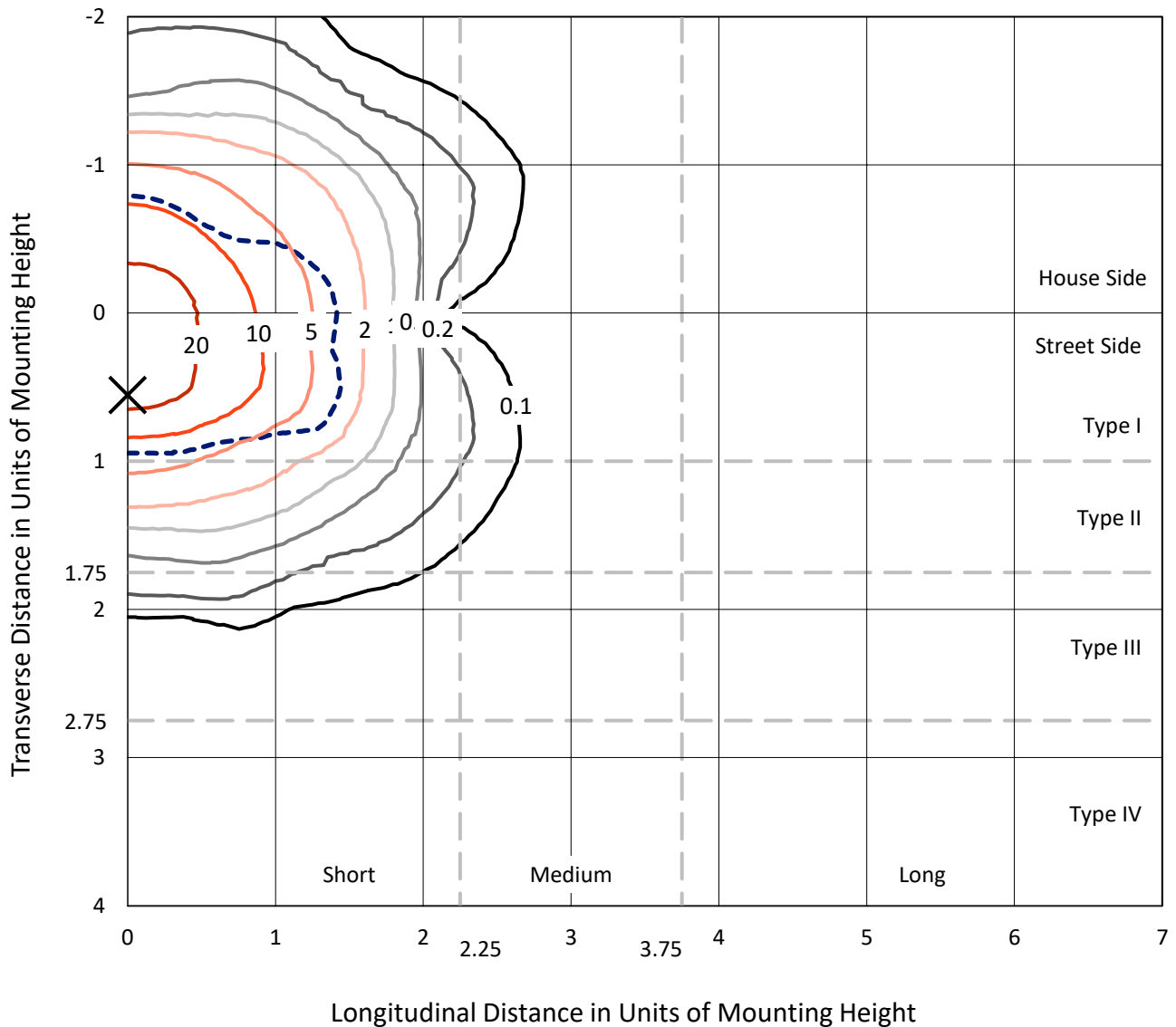
Lumens per Lamp: N/A
Luminaire Lumens: 15845.9 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

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: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

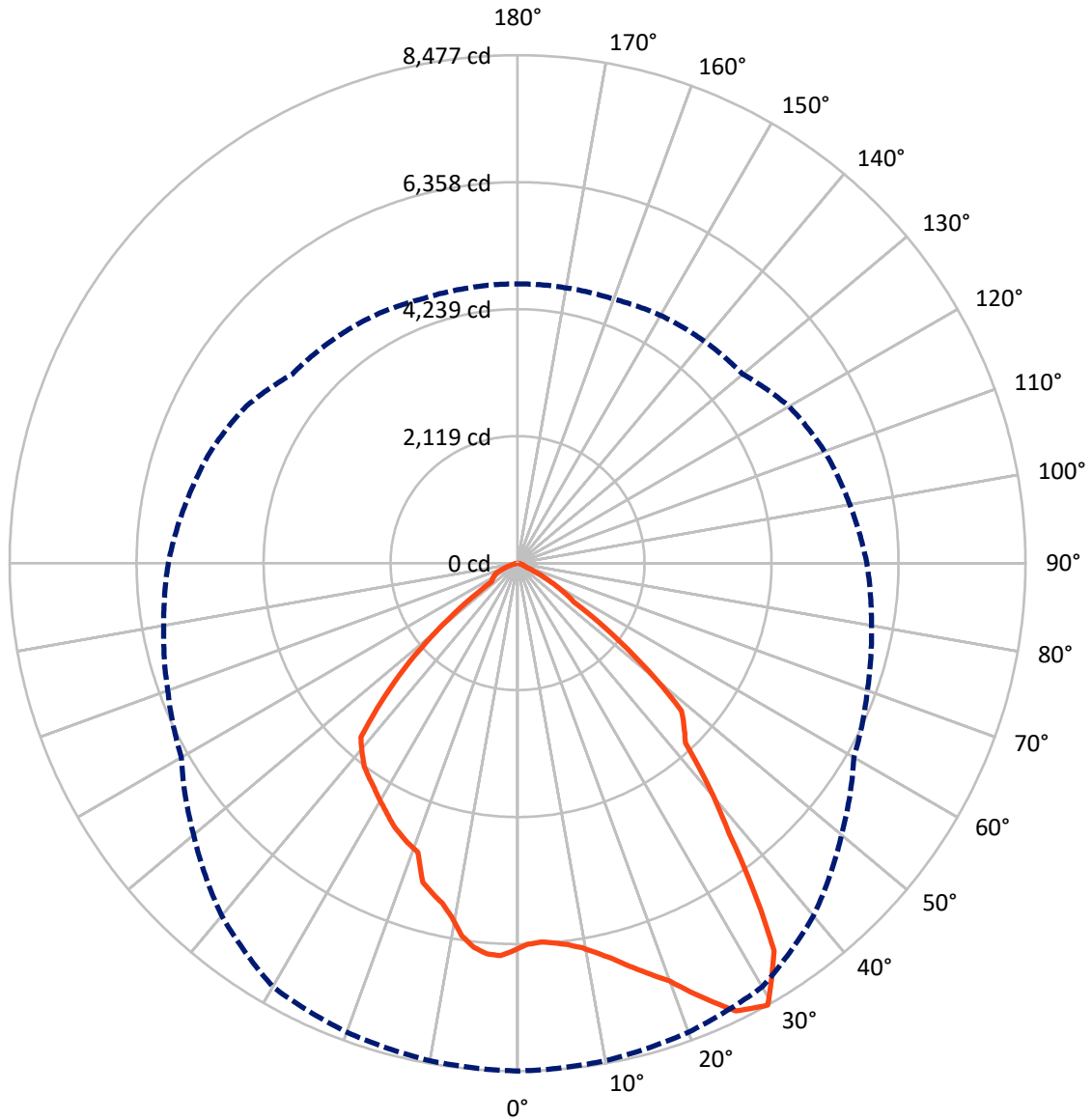
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 28.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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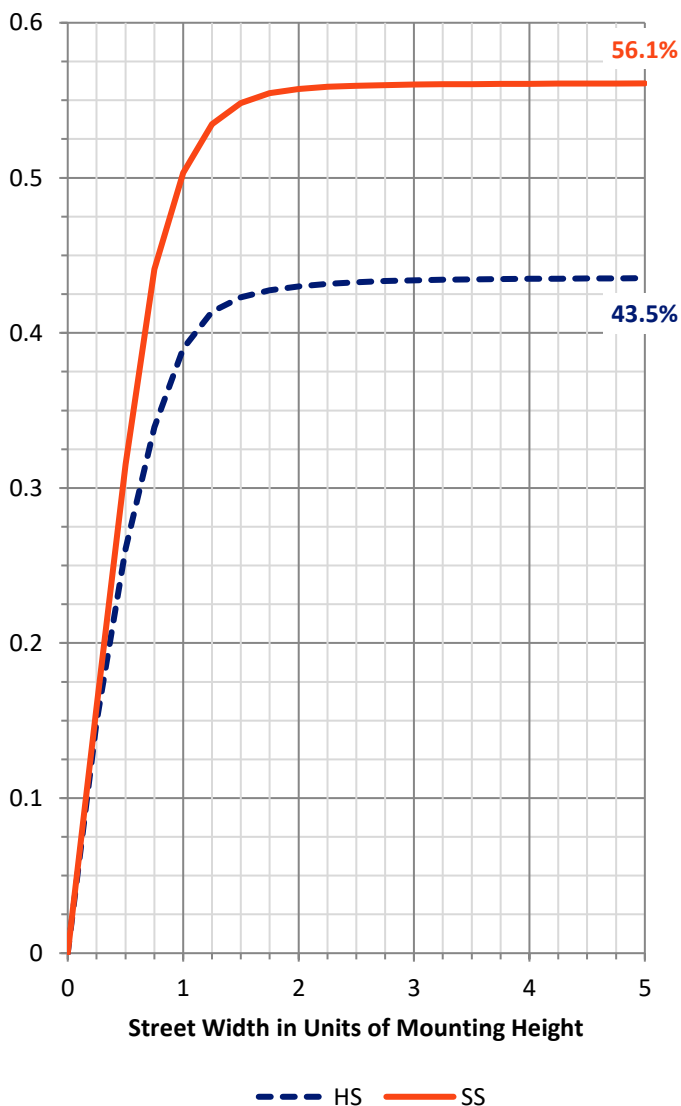
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6959.8	0.0	6959.8
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	8886.1	0.0	8886.1
	% Fixture	56.1	0.0	56.1
Total	Lumens	15845.9	0.0	15845.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	3.9
10°-20°	1789.3	11.3
20°-30°	2877.4	18.2
30°-40°	3552.7	22.4
40°-50°	3501.1	22.1
50°-60°	2460.0	15.5
60°-70°	1029.6	6.5
70°-80°	217.5	1.4
80°-90°	29.5	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°	15845.9	100.0
0°-180°	15845.9	100.0



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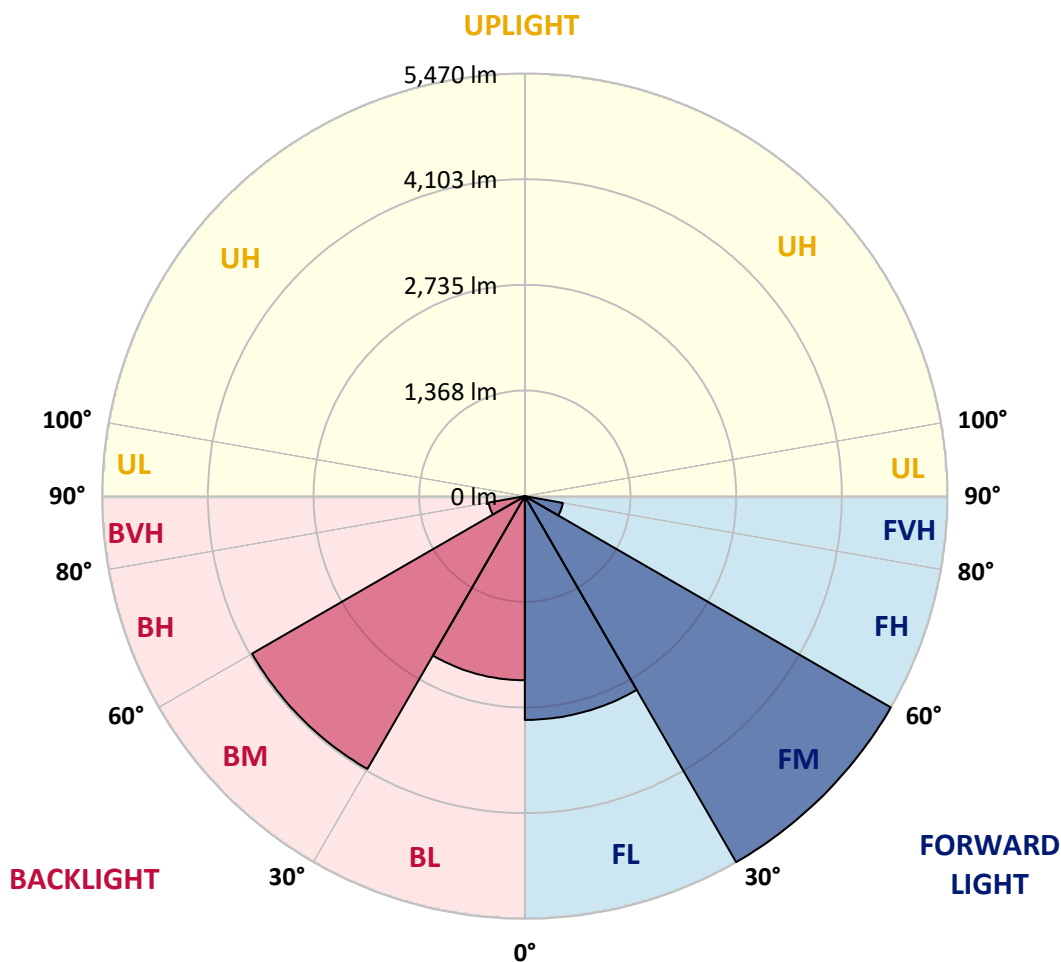
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2896.9	18.3			
FM (30°-60°)	5470.4	34.5			
FH (60°-80°)	499.1	3.1			G0/660
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	2383.4	15.0	B3/2500		
BM (30°-60°)	4077.7	25.7	B3/5000		
BH (60°-80°)	476.0	3.0	B1/500		G1/500
BVH (80°-90°)	16.8	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°	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5
1°	6364.7	6366.1	6368.8	6372.7	6377.9	6384.0	6390.9	6398.4	6406.3	6414.3	6423.2
3°	6333.7	6333.9	6336.2	6343.6	6352.2	6361.9	6372.4	6383.2	6407.3	6432.1	6456.2
5°	6366.5	6366.1	6362.5	6358.5	6355.0	6350.6	6360.5	6379.1	6402.3	6444.3	6479.9
7°	6422.7	6417.6	6407.4	6392.2	6374.6	6362.4	6355.8	6371.7	6410.8	6460.2	6500.1
9°	6508.0	6500.5	6480.5	6443.3	6402.0	6376.1	6360.8	6360.5	6411.9	6467.7	6501.4
11°	6639.2	6625.9	6587.7	6521.9	6455.1	6393.5	6367.2	6369.1	6417.0	6468.7	6477.7
13°	6788.3	6768.3	6714.1	6634.8	6531.3	6431.3	6371.3	6372.0	6423.7	6463.0	6444.3
15°	6977.7	6948.4	6866.8	6751.2	6621.3	6487.6	6388.7	6379.1	6447.6	6452.7	6397.0
17°	7169.8	7142.0	7049.3	6889.5	6713.9	6556.3	6415.2	6387.3	6448.0	6427.5	6320.9
19.5°	7423.8	7413.2	7298.5	7089.7	6849.1	6632.6	6458.0	6375.7	6410.0	6577.4	6210.4
22.5°	7868.1	7830.3	7660.2	7380.0	7060.8	6745.1	6487.2	6343.8	6311.5	6440.5	6029.8
25.5°	8315.3	8250.9	8054.4	7757.1	7346.1	6914.4	6498.9	6269.3	6181.2	6050.6	5848.8
29°	8477.4	8433.1	8331.8	8166.5	7683.5	7057.7	6480.1	6212.5	5995.9	5827.5	5629.6
33°	7757.6	7740.8	7918.2	8225.9	7894.8	7171.7	6501.6	6175.0	5798.9	5465.7	5313.7
37.5°	5740.4	5840.1	6380.2	7179.7	7540.7	7271.6	6582.0	6157.1	5617.5	5265.1	5020.8
42.5°	4108.4	4230.9	4624.3	5116.2	6009.6	6825.5	6711.6	6192.0	5437.7	5171.3	4891.6
47.5°	3683.8	3648.4	3719.0	3753.3	4235.4	5486.6	6589.1	6139.6	5150.2	4966.1	4826.1
55°	1138.0	1315.7	1759.6	2182.3	2791.6	3148.8	4871.2	4856.6	4122.8	4287.5	4027.5
65°	163.1	185.5	388.9	392.1	564.4	913.4	1140.2	1237.2	786.9	231.5	778.8
75°	22.5	27.4	44.8	40.8	45.2	43.4	72.7	82.2	82.1	138.7	125.8
85°	0.9	15.9	23.2	23.3	25.3	25.6	28.9	30.6	29.6	32.8	33.9
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5
1°	6431.8	6439.9	6447.1	6453.3	6458.4	6462.1	6464.3	6465.0	6464.3	6462.1	6458.4
3°	6478.9	6496.9	6513.4	6527.9	6540.2	6549.5	6554.8	6555.9	6554.8	6549.5	6540.2
5°	6509.6	6537.7	6553.9	6549.6	6546.8	6545.2	6544.7	6541.8	6544.7	6545.2	6546.8
7°	6530.6	6538.9	6524.5	6504.6	6480.4	6464.0	6456.3	6451.8	6456.3	6464.0	6480.4
9°	6523.8	6494.4	6453.8	6405.5	6349.9	6314.3	6293.9	6289.7	6293.9	6314.3	6349.9
11°	6460.6	6398.6	6322.5	6238.4	6160.1	6084.7	6029.6	6011.2	6029.6	6084.7	6160.1
13°	6386.2	6276.7	6146.5	6040.0	5943.2	5876.6	5827.1	5810.7	5827.1	5876.6	5943.2
15°	6289.3	6135.7	5989.6	5880.9	5783.0	5730.0	5697.7	5687.9	5697.7	5730.0	5783.0
17°	6160.1	5994.6	5868.4	5761.1	5672.5	5611.3	5573.7	5558.5	5573.7	5611.3	5672.5
19.5°	6025.0	5883.7	5753.1	5622.9	5527.1	5300.5	5163.5	5105.8	5163.5	5300.5	5527.1
22.5°	5896.6	5764.7	5575.9	5405.4	5098.1	5028.5	5002.2	4992.3	5002.2	5028.5	5098.1
25.5°	5724.2	5549.5	5397.8	5043.3	4958.5	4889.8	4864.0	4857.3	4864.0	4889.8	4958.5
29°	5452.3	5230.8	4906.2	4839.3	4773.6	4688.2	4663.7	4659.5	4663.7	4688.2	4773.6
33°	5117.7	4842.2	4575.2	4558.5	4483.9	4448.0	4441.8	4451.5	4441.8	4448.0	4483.9
37.5°	4795.0	4482.9	4303.2	4218.6	4200.5	4226.1	4239.0	4250.0	4239.0	4226.1	4200.5
42.5°	4545.7	4226.3	3991.8	3906.3	3925.3	3914.9	3913.6	3908.7	3913.6	3914.9	3925.3
47.5°	4395.3	4053.1	3676.4	3578.0	3419.3	2987.0	2713.3	2584.3	2713.3	2987.0	3419.3
55°	3780.4	3712.7	3098.8	2313.9	1582.3	1040.1	719.5	534.3	719.5	1040.1	1582.3
65°	1210.4	931.3	560.9	424.8	508.6	443.7	402.1	400.2	402.1	443.7	508.6
75°	158.5	118.3	119.1	84.6	108.3	89.2	57.2	45.9	57.2	89.2	108.3
85°	32.1	29.6	29.6	27.9	26.6	30.6	26.4	1.9	26.4	30.6	26.6
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°	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5
1°	6453.3	6447.1	6439.9	6431.8	6423.2	6414.3	6406.3	6398.4	6390.9	6384.0	6377.9
3°	6527.9	6513.4	6496.9	6478.9	6456.2	6432.1	6407.3	6383.2	6372.4	6361.9	6352.2
5°	6549.6	6553.9	6537.7	6509.6	6479.9	6444.3	6402.3	6379.1	6360.5	6350.6	6355.0
7°	6504.6	6524.5	6538.9	6530.6	6500.1	6460.2	6410.8	6371.7	6355.8	6362.4	6374.6
9°	6405.5	6453.8	6494.4	6523.8	6501.4	6467.7	6411.9	6360.5	6360.8	6376.1	6402.0
11°	6238.4	6322.5	6398.6	6460.6	6477.7	6468.7	6417.0	6369.1	6367.2	6393.5	6455.1
13°	6040.0	6146.5	6276.7	6386.2	6444.3	6463.0	6423.7	6372.0	6371.3	6431.3	6531.3
15°	5880.9	5989.6	6135.7	6289.3	6397.0	6452.7	6447.6	6379.1	6388.7	6487.6	6621.3
17°	5761.1	5868.4	5994.6	6160.1	6320.9	6427.5	6448.0	6387.3	6415.2	6556.3	6713.9
19.5°	5622.9	5753.1	5883.7	6025.0	6210.4	6577.4	6410.0	6375.7	6458.0	6632.6	6849.1
22.5°	5405.4	5575.9	5764.7	5896.6	6029.8	6440.5	6311.5	6343.8	6487.2	6745.1	7060.8
25.5°	5043.3	5397.8	5549.5	5724.2	5848.8	6050.6	6181.2	6269.3	6498.9	6914.4	7346.1
29°	4839.3	4906.2	5230.8	5452.3	5629.6	5827.5	5995.9	6212.5	6480.1	7057.7	7683.5
33°	4558.5	4575.2	4842.2	5117.7	5313.7	5465.7	5798.9	6175.0	6501.6	7171.7	7894.8
37.5°	4218.6	4303.2	4482.9	4795.0	5020.8	5265.1	5617.5	6157.1	6582.0	7271.6	7540.7
42.5°	3906.3	3991.8	4226.3	4545.7	4891.6	5171.3	5437.7	6192.0	6711.6	6825.5	6009.6
47.5°	3578.0	3676.4	4053.1	4395.3	4826.1	4966.1	5150.2	6139.6	6589.1	5486.6	4235.4
55°	2313.9	3098.8	3712.7	3780.4	4027.5	4287.5	4122.8	4856.6	4871.2	3148.8	2791.6
65°	424.8	560.9	931.3	1210.4	778.8	231.5	786.9	1237.2	1140.2	913.4	564.4
75°	84.6	119.1	118.3	158.5	125.8	138.7	82.1	82.2	72.7	43.4	45.2
85°	27.9	29.6	29.6	32.1	33.9	32.8	29.6	30.6	28.9	25.6	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):

	330°	340°	350°	360°
0°	6411.5	6411.5	6411.5	6411.5
1°	6372.7	6368.8	6366.1	6364.7
3°	6343.6	6336.2	6333.9	6333.7
5°	6358.5	6362.5	6366.1	6366.5
7°	6392.2	6407.4	6417.6	6422.7
9°	6443.3	6480.5	6500.5	6508.0
11°	6521.9	6587.7	6625.9	6639.2
13°	6634.8	6714.1	6768.3	6788.3
15°	6751.2	6866.8	6948.4	6977.7
17°	6889.5	7049.3	7142.0	7169.8
19.5°	7089.7	7298.5	7413.2	7423.8
22.5°	7380.0	7660.2	7830.3	7868.1
25.5°	7757.1	8054.4	8250.9	8315.3
29°	8166.5	8331.8	8433.1	8477.4
33°	8225.9	7918.2	7740.8	7757.6
37.5°	7179.7	6380.2	5840.1	5740.4
42.5°	5116.2	4624.3	4230.9	4108.4
47.5°	3753.3	3719.0	3648.4	3683.8
55°	2182.3	1759.6	1315.7	1138.0
65°	392.1	388.9	185.5	163.1
75°	40.8	44.8	27.4	22.5
85°	23.3	23.2	15.9	0.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)