

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: P232916

Luminaire Tested: **NFFLD-C70-D-UNV-66-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C70-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: 23342.7 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0 '  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

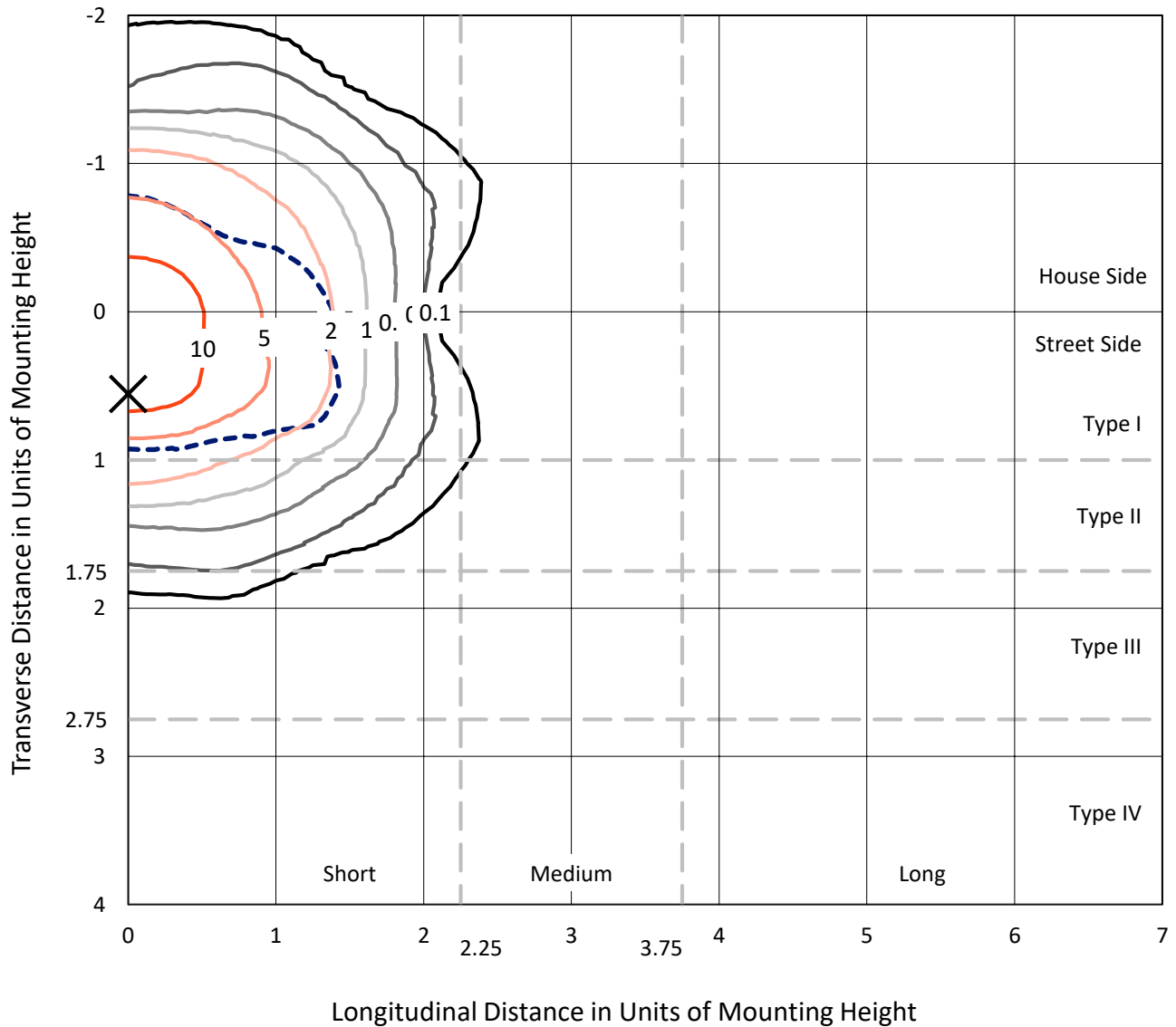
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

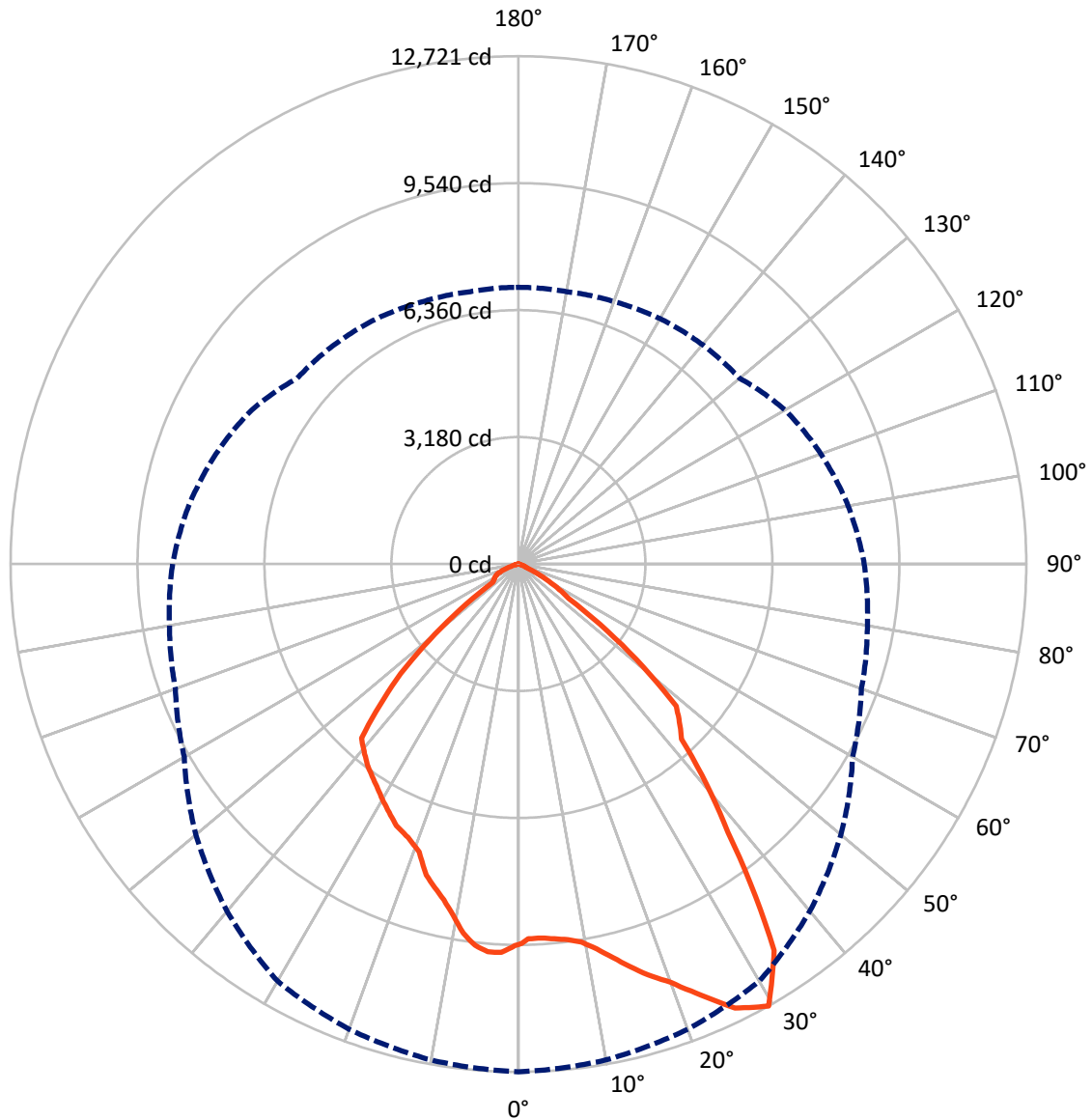
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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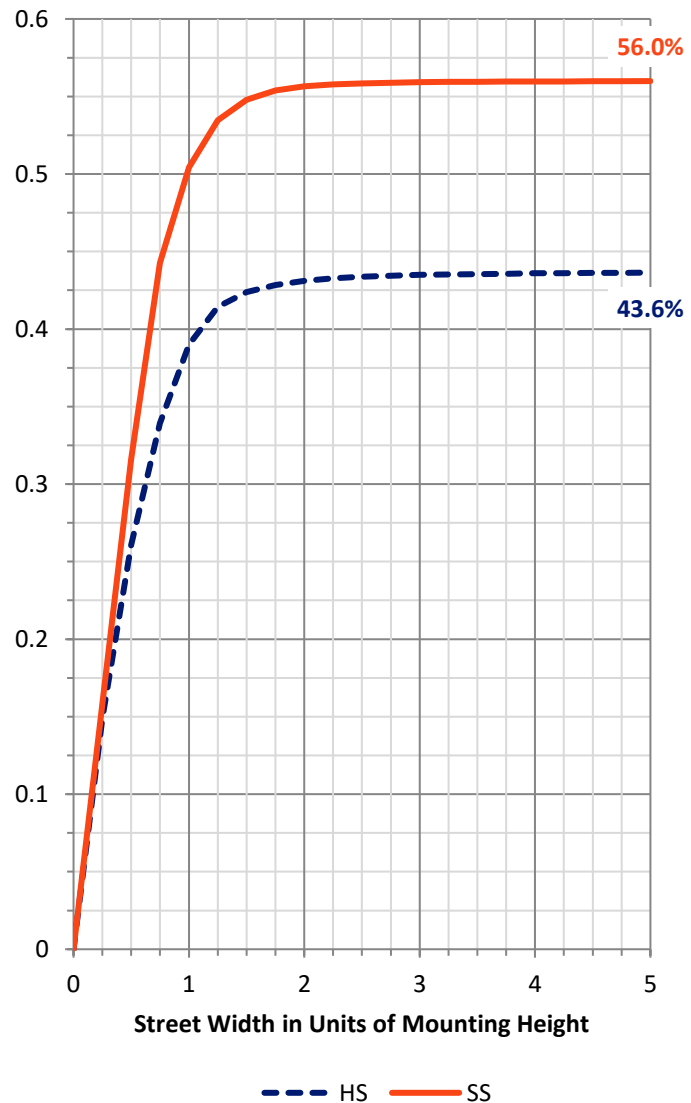
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10275.5	0.0	10275.5
	% Fixture	44.0	0.0	44.0
<b>Street Side</b>	Lumens	13067.2	0.0	13067.2
	% Fixture	56.0	0.0	56.0
<b>Total</b>	Lumens	23342.7	0.0	23342.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	908.6	3.9
10°-20°	2648.6	11.3
20°-30°	4269.7	18.3
30°-40°	5270.8	22.6
40°-50°	5149.0	22.1
50°-60°	3579.5	15.3
60°-70°	1493.8	6.4
70°-80°	319.6	1.4
80°-90°	42.6	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°	23342.7	100.0
0°-180°	23342.7	100.0



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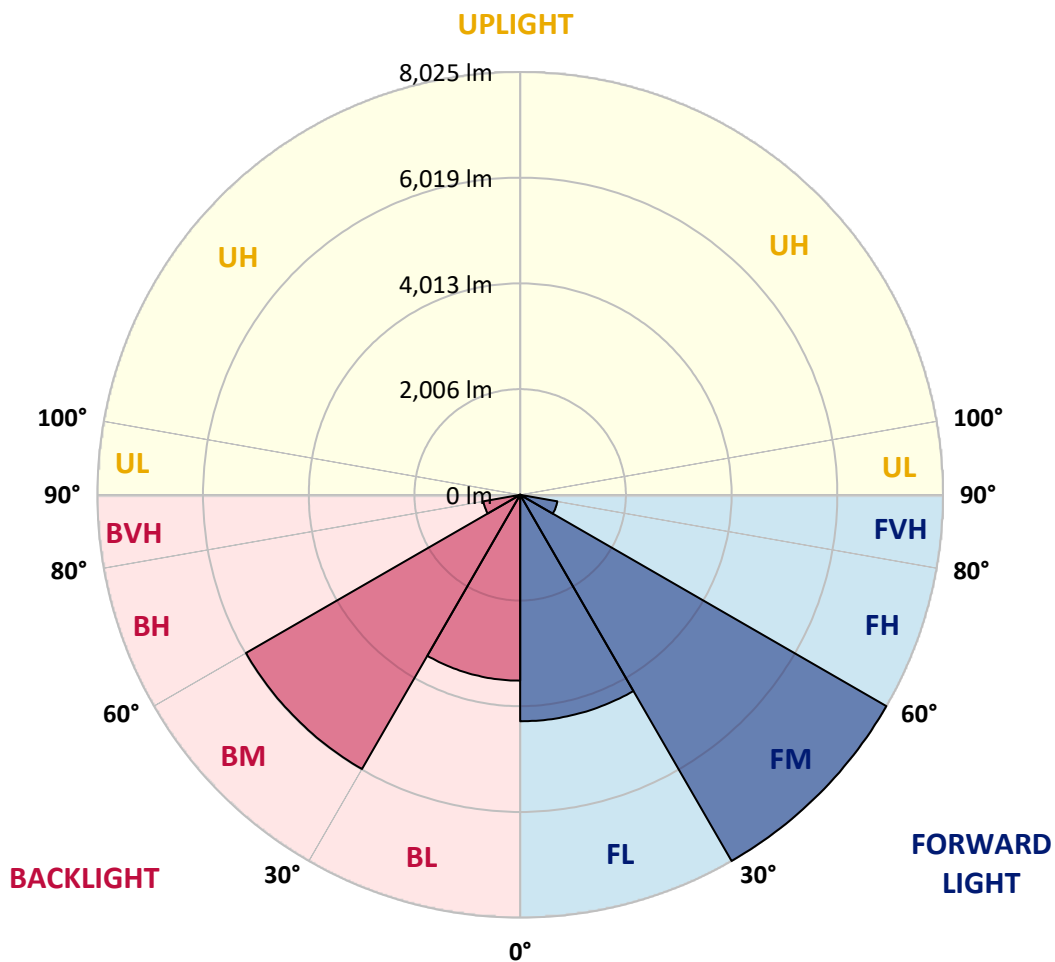
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4298.4	18.4			
FM	(30°-60°)	8025.1	34.4			
FH	(60°-80°)	715.7	3.1			G1/1800
FVH	(80°-90°)	17.4	0.1			G1/100
BL	(0°-30°)	3526.7	15.1	B4/5000		
BM	(30°-60°)	6008.6	25.7	B4/8500		
BH	(60°-80°)	709.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	22.2	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°	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0
1°	9389.6	9395.5	9404.1	9414.9	9427.1	9440.1	9453.6	9467.3	9481.2	9495.3	9508.6
3°	9383.8	9392.1	9400.4	9399.3	9399.8	9401.9	9405.7	9410.8	9459.5	9512.7	9551.3
5°	9430.3	9422.5	9414.5	9405.1	9395.5	9390.1	9400.6	9421.4	9449.8	9504.0	9583.2
7°	9489.4	9490.2	9475.9	9450.7	9414.6	9391.7	9381.6	9395.0	9442.0	9531.2	9610.3
9°	9602.0	9596.8	9561.9	9528.3	9472.7	9418.9	9377.8	9369.4	9443.6	9525.4	9601.2
11°	9834.8	9802.5	9737.5	9637.5	9523.5	9450.1	9385.5	9365.4	9421.2	9511.8	9569.9
13°	10134.5	10085.1	9975.6	9806.1	9633.7	9476.8	9391.2	9365.1	9433.5	9535.0	9532.5
15°	10461.4	10402.0	10252.3	10041.6	9797.3	9553.6	9419.1	9375.7	9456.0	9544.8	9475.0
17°	10793.2	10711.0	10556.7	10301.6	9975.1	9664.4	9443.7	9412.0	9502.6	9664.1	9388.4
19.5°	11148.1	11088.6	10921.3	10632.1	10255.7	9855.0	9519.7	9419.4	9491.8	9747.5	9275.3
22.5°	11731.1	11612.2	11369.4	11010.0	10586.0	10084.6	9608.9	9350.5	9352.9	9378.0	9024.4
25.5°	12374.3	12211.0	11917.2	11455.6	10976.1	10354.2	9665.0	9224.7	9159.2	9049.0	8744.5
29°	12720.5	12614.5	12398.3	12064.4	11353.2	10544.7	9665.7	9143.0	8875.4	8661.1	8385.8
33°	11604.1	11684.6	11921.0	12267.5	11662.5	10590.6	9675.4	9139.4	8522.6	8089.8	7851.9
37.5°	8520.4	8755.7	9541.2	10749.5	11239.3	10727.8	9704.5	9154.6	8263.6	7809.4	7423.6
42.5°	5992.7	6205.8	6760.6	7542.3	8955.3	10138.2	9849.9	9143.4	7979.3	7611.6	7204.8
47.5°	5317.5	5278.1	5368.8	5419.1	6178.0	8094.6	9710.0	8948.7	7496.1	7169.2	6920.9
55°	1526.8	1826.2	2459.9	3106.1	4011.9	4508.1	6981.8	7077.7	5920.6	6145.9	5784.4
65°	243.5	263.5	546.2	550.0	789.3	1272.6	1607.9	1857.6	1144.0	342.4	1140.0
75°	37.9	43.9	70.2	60.0	65.3	55.5	93.6	117.2	124.9	213.4	183.7
85°	7.7	30.1	31.9	29.4	31.3	31.0	37.2	44.0	44.8	48.5	46.6
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°	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0
1°	9521.5	9533.0	9542.6	9549.8	9554.3	9556.3	9555.9	9553.5	9555.9	9556.3	9554.3
3°	9587.8	9618.0	9647.9	9677.3	9705.3	9730.4	9738.7	9738.7	9738.7	9730.4	9705.3
5°	9634.5	9679.7	9710.4	9719.1	9729.2	9732.1	9732.4	9743.6	9732.4	9732.1	9729.2
7°	9659.6	9683.8	9686.0	9674.1	9639.4	9614.7	9609.9	9612.7	9609.9	9614.7	9639.4
9°	9641.5	9617.9	9568.0	9519.2	9436.8	9371.9	9345.1	9351.7	9345.1	9371.9	9436.8
11°	9562.2	9485.4	9375.1	9243.4	9130.7	9015.0	8938.6	8949.2	8938.6	9015.0	9130.7
13°	9460.3	9286.0	9089.0	8927.6	8779.6	8695.9	8627.3	8618.4	8627.3	8695.9	8779.6
15°	9319.6	9051.7	8835.3	8674.4	8529.0	8436.0	8374.9	8368.1	8374.9	8436.0	8529.0
17°	9153.9	8840.2	8629.3	8476.0	8334.8	8202.1	8132.0	8124.7	8132.0	8202.1	8334.8
19.5°	8967.7	8674.4	8455.2	8250.9	8049.1	7803.3	7656.5	7627.0	7656.5	7803.3	8049.1
22.5°	8746.5	8503.5	8221.6	7876.1	7552.3	7462.8	7410.1	7382.6	7410.1	7462.8	7552.3
25.5°	8474.0	8197.7	7867.1	7457.5	7345.8	7282.2	7230.5	7228.4	7230.5	7282.2	7345.8
29°	8061.7	7714.9	7234.9	7170.3	7097.6	6994.6	6927.6	6931.5	6927.6	6994.6	7097.6
33°	7550.0	7115.7	6805.2	6792.4	6683.2	6606.5	6590.8	6602.7	6590.8	6606.5	6683.2
37.5°	7063.5	6620.7	6392.6	6258.8	6208.8	6247.0	6274.4	6285.5	6274.4	6247.0	6208.8
42.5°	6673.2	6262.6	5890.6	5748.1	5791.7	5806.8	5853.8	5872.3	5853.8	5806.8	5791.7
47.5°	6382.3	5955.4	5376.8	5272.5	5113.4	4535.1	4154.9	4029.4	4154.9	4535.1	5113.4
55°	5413.2	5292.6	4540.7	3472.4	2404.1	1545.9	1035.1	780.9	1035.1	1545.9	2404.1
65°	1868.0	1401.5	868.3	654.7	761.6	648.5	597.2	596.5	597.2	648.5	761.6
75°	223.6	163.2	166.6	138.8	178.0	147.3	101.4	86.3	101.4	147.3	178.0
85°	40.8	36.3	36.6	32.1	28.8	28.6	21.3	1.0	21.3	28.6	28.8
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°	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0	9505.0
1°	9549.8	9542.6	9533.0	9521.5	9508.6	9495.3	9481.2	9467.3	9453.6	9440.1	9427.1
3°	9677.3	9647.9	9618.0	9587.8	9551.3	9512.7	9459.5	9410.8	9405.7	9401.9	9399.8
5°	9719.1	9710.4	9679.7	9634.5	9583.2	9504.0	9449.8	9421.4	9400.6	9390.1	9395.5
7°	9674.1	9686.0	9683.8	9659.6	9610.3	9531.2	9442.0	9395.0	9381.6	9391.7	9414.6
9°	9519.2	9568.0	9617.9	9641.5	9601.2	9525.4	9443.6	9369.4	9377.8	9418.9	9472.7
11°	9243.4	9375.1	9485.4	9562.2	9569.9	9511.8	9421.2	9365.4	9385.5	9450.1	9523.5
13°	8927.6	9089.0	9286.0	9460.3	9532.5	9535.0	9433.5	9365.1	9391.2	9476.8	9633.7
15°	8674.4	8835.3	9051.7	9319.6	9475.0	9544.8	9456.0	9375.7	9419.1	9553.6	9797.3
17°	8476.0	8629.3	8840.2	9153.9	9388.4	9664.1	9502.6	9412.0	9443.7	9664.4	9975.1
19.5°	8250.9	8455.2	8674.4	8967.7	9275.3	9747.5	9491.8	9419.4	9519.7	9855.0	10255.7
22.5°	7876.1	8221.6	8503.5	8746.5	9024.4	9378.0	9352.9	9350.5	9608.9	10084.6	10586.0
25.5°	7457.5	7867.1	8197.7	8474.0	8744.5	9049.0	9159.2	9224.7	9665.0	10354.2	10976.1
29°	7170.3	7234.9	7714.9	8061.7	8385.8	8661.1	8875.4	9143.0	9665.7	10544.7	11353.2
33°	6792.4	6805.2	7115.7	7550.0	7851.9	8089.8	8522.6	9139.4	9675.4	10590.6	11662.5
37.5°	6258.8	6392.6	6620.7	7063.5	7423.6	7809.4	8263.6	9154.6	9704.5	10727.8	11239.3
42.5°	5748.1	5890.6	6262.6	6673.2	7204.8	7611.6	7979.3	9143.4	9849.9	10138.2	8955.3
47.5°	5272.5	5376.8	5955.4	6382.3	6920.9	7169.2	7496.1	8948.7	9710.0	8094.6	6178.0
55°	3472.4	4540.7	5292.6	5413.2	5784.4	6145.9	5920.6	7077.7	6981.8	4508.1	4011.9
65°	654.7	868.3	1401.5	1868.0	1140.0	342.4	1144.0	1857.6	1607.9	1272.6	789.3
75°	138.8	166.6	163.2	223.6	183.7	213.4	124.9	117.2	93.6	55.5	65.3
85°	32.1	36.6	36.3	40.8	46.6	48.5	44.8	44.0	37.2	31.0	31.3
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°	9505.0	9505.0	9505.0	9505.0
1°	9414.9	9404.1	9395.5	9389.6
3°	9399.3	9400.4	9392.1	9383.8
5°	9405.1	9414.5	9422.5	9430.3
7°	9450.7	9475.9	9490.2	9489.4
9°	9528.3	9561.9	9596.8	9602.0
11°	9637.5	9737.5	9802.5	9834.8
13°	9806.1	9975.6	10085.1	10134.5
15°	10041.6	10252.3	10402.0	10461.4
17°	10301.6	10556.7	10711.0	10793.2
19.5°	10632.1	10921.3	11088.6	11148.1
22.5°	11010.0	11369.4	11612.2	11731.1
25.5°	11455.6	11917.2	12211.0	12374.3
29°	12064.4	12398.3	12614.5	12720.5
33°	12267.5	11921.0	11684.6	11604.1
37.5°	10749.5	9541.2	8755.7	8520.4
42.5°	7542.3	6760.6	6205.8	5992.7
47.5°	5419.1	5368.8	5278.1	5317.5
55°	3106.1	2459.9	1826.2	1526.8
65°	550.0	546.2	263.5	243.5
75°	60.0	70.2	43.9	37.9
85°	29.4	31.9	30.1	7.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)