

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: P214482

Luminaire Tested: **NFFLD-L-C100-D-UNV-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29596)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C100-D-UNV-66-7050
Description: NIGHT CONDOR LED FLOODLIGHT WIDE OPTIC
Light Source: (4) 5000K CCT, 70 CRI LEDS
CLU048-1312C4-40ALK3
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33839.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0.67 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 252
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

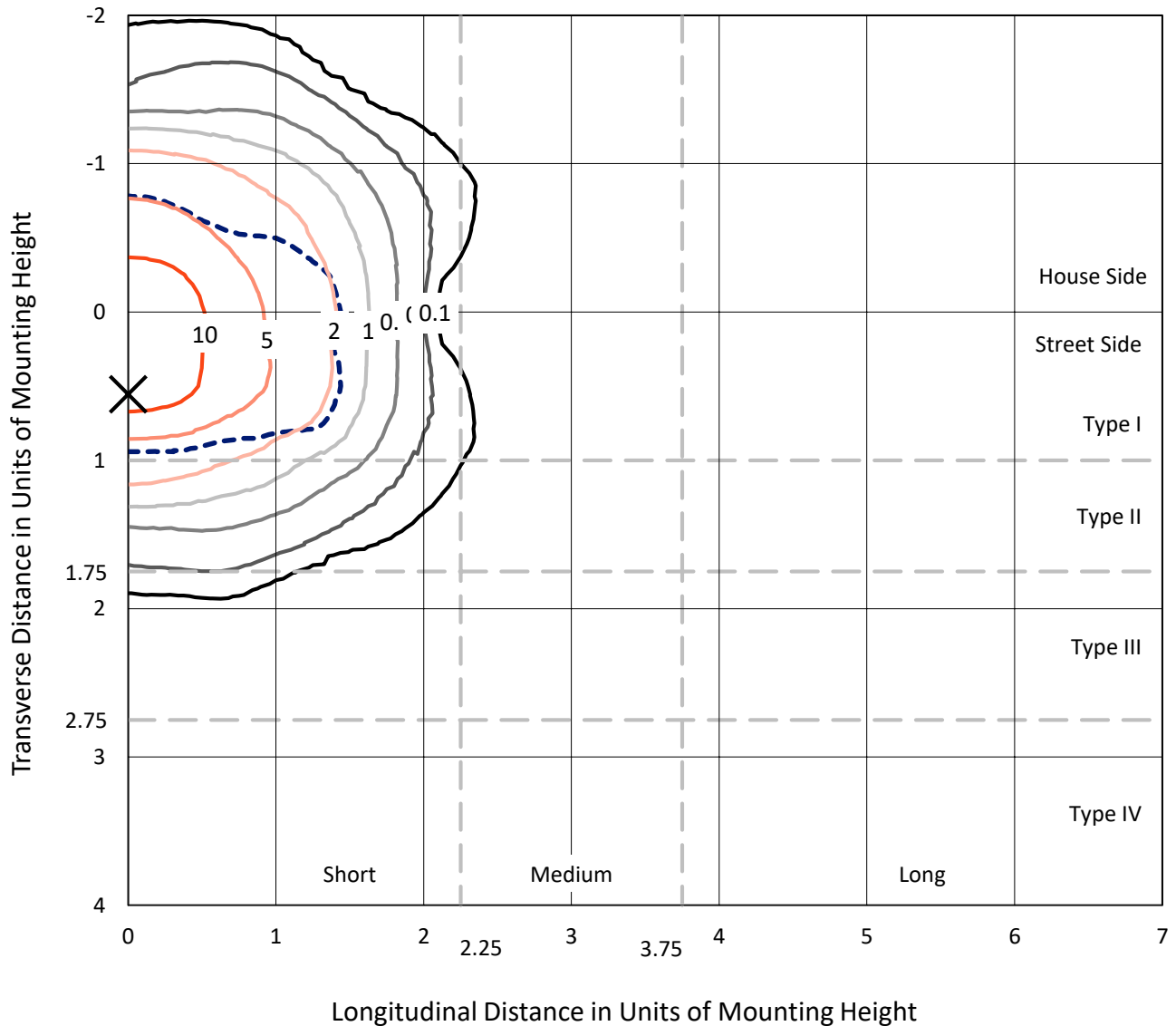


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Iso-Footcandle Lines of Horizontal Illumination

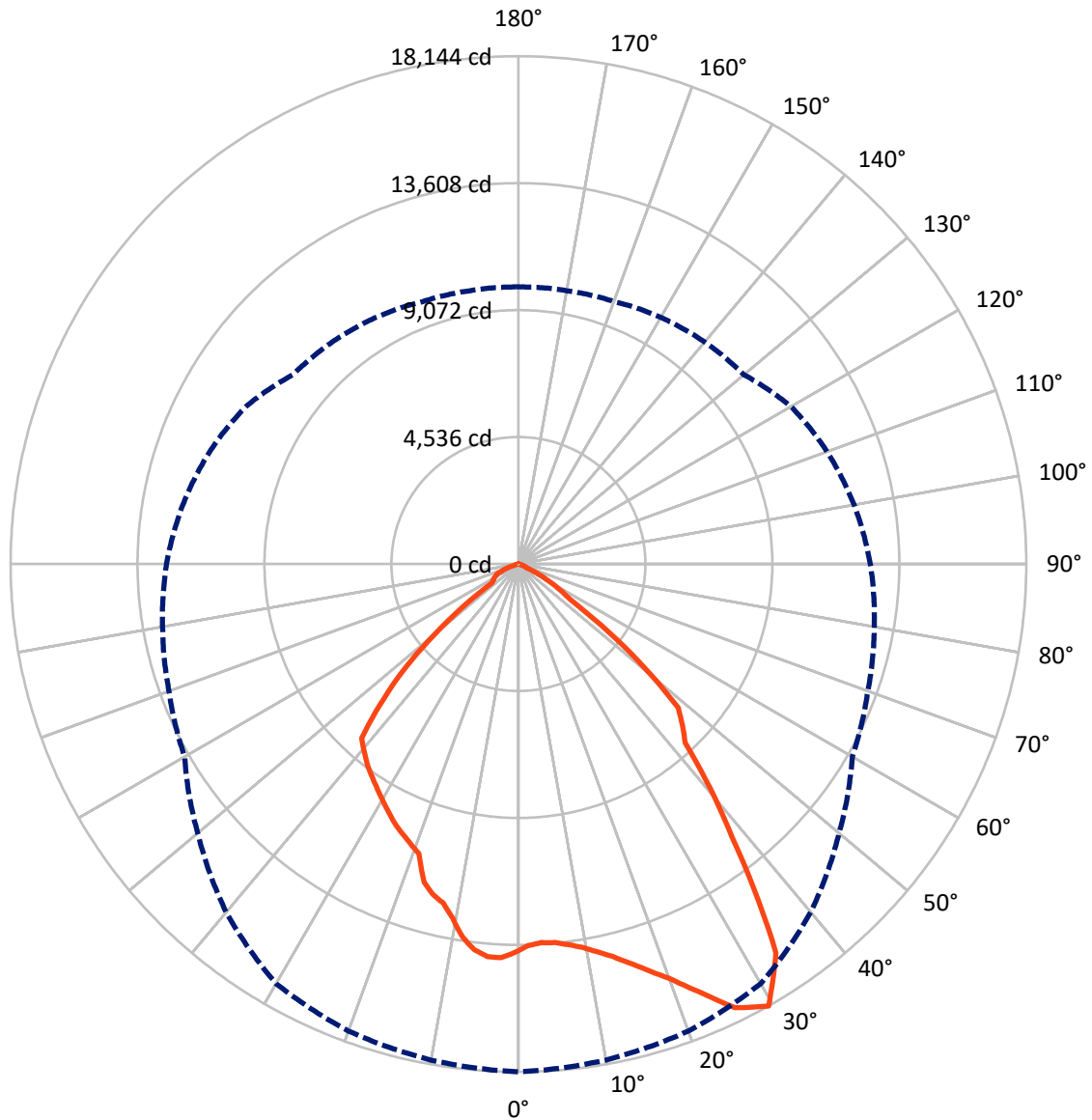
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 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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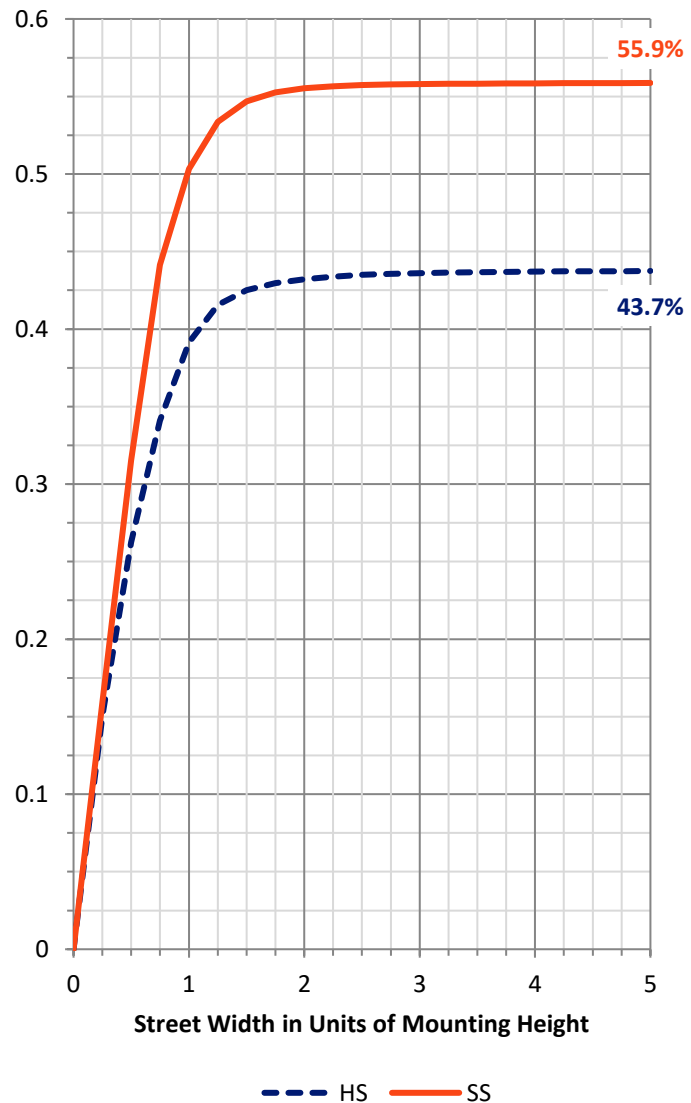
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14935.6	0.0	14935.6
	% Fixture	44.1	0.0	44.1
Street Side	Lumens	18904.1	0.0	18904.1
	% Fixture	55.9	0.0	55.9
Total	Lumens	33839.7	0.0	33839.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1315.3	3.9
10°-20°	3825.3	11.3
20°-30°	6143.8	18.2
30°-40°	7618.5	22.5
40°-50°	7501.0	22.2
50°-60°	5241.0	15.5
60°-70°	2169.2	6.4
70°-80°	448.2	1.3
80°-90°	61.4	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°	33839.7	100.0
0°-180°	33839.7	100.0

Coefficient of Utilization



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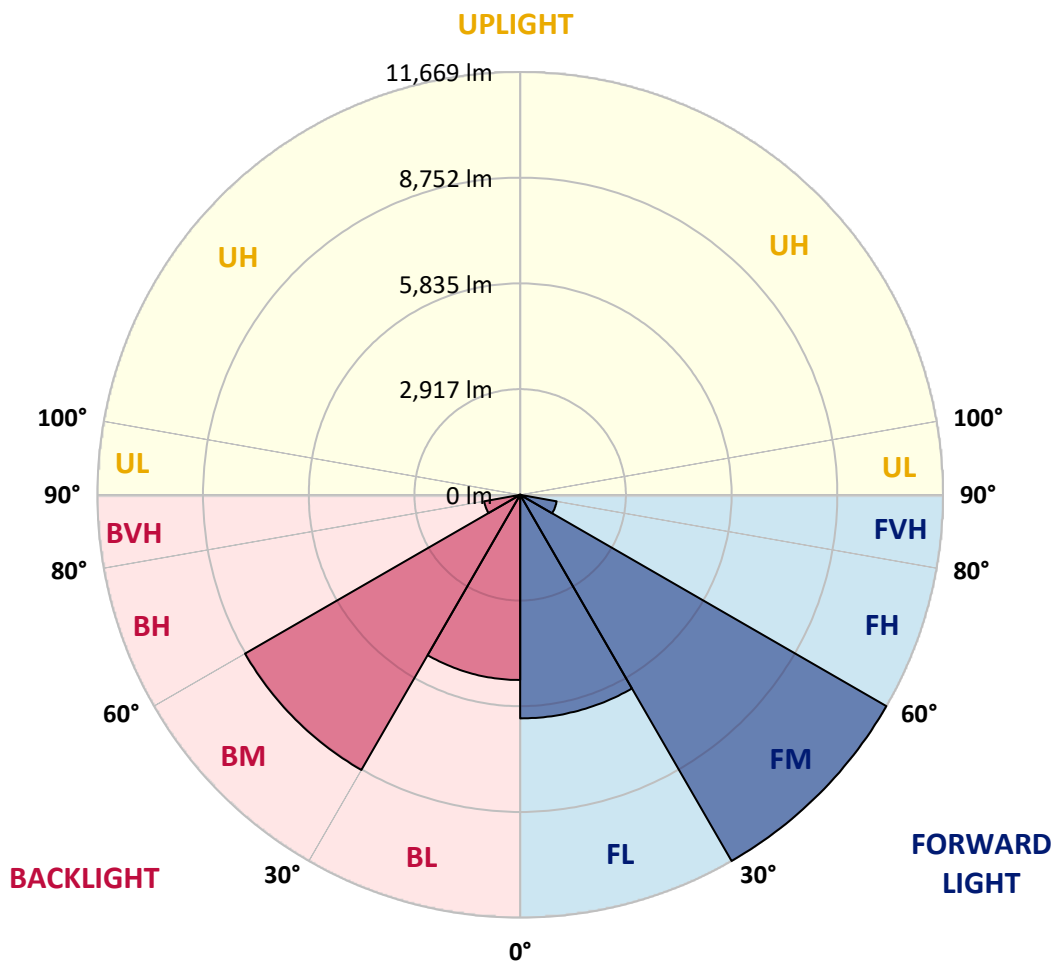
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6170.6	18.2			
FM	(30°-60°)	11669.5	34.5			
FH	(60°-80°)	1021.6	3.0			G1/1800
FVH	(80°-90°)	26.6	0.1			G1/100
BL	(0°-30°)	5110.3	15.1	B5		
BM	(30°-60°)	8768.9	25.9	B5		
BH	(60°-80°)	1010.0	3.0	B3/2500		G3/2500
BVH	(80°-90°)	33.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6
1°	13631.4	13632.1	13636.4	13644.4	13655.7	13670.0	13687.0	13705.9	13726.4	13747.7	13767.3
3°	13549.5	13554.3	13561.8	13573.4	13587.9	13605.0	13624.3	13644.9	13699.2	13755.6	13826.6
5°	13587.0	13593.2	13589.4	13584.1	13580.2	13577.2	13601.0	13642.2	13694.7	13792.1	13885.3
7°	13714.2	13707.5	13686.7	13655.0	13616.2	13592.6	13590.7	13632.4	13715.4	13836.5	13934.3
9°	13888.7	13876.1	13838.3	13773.1	13685.9	13620.7	13590.6	13609.5	13719.8	13852.2	13938.1
11°	14134.2	14120.5	14051.8	13922.3	13771.1	13661.6	13599.8	13613.1	13713.5	13831.5	13884.2
13°	14420.2	14404.7	14305.8	14116.6	13907.1	13726.3	13616.6	13615.2	13731.8	13816.7	13815.3
15°	14784.0	14754.8	14613.8	14342.2	14078.1	13826.1	13651.5	13639.0	13778.4	13801.0	13715.2
17°	15189.2	15161.0	14969.8	14625.6	14271.5	13935.4	13695.0	13668.2	13807.4	13789.1	13592.5
19.5°	15754.2	15716.0	15460.3	15061.0	14548.3	14100.8	13785.9	13701.1	13974.5	14178.6	13531.4
22.5°	16615.0	16527.8	16173.8	15620.8	14984.9	14355.5	13898.6	13605.8	13598.7	13502.2	13048.1
25.5°	17636.5	17474.1	17051.1	16355.8	15562.0	14680.2	13797.0	13396.6	13279.8	13048.6	12630.2
29°	18144.3	17993.4	17754.4	17313.0	16242.2	14955.1	13772.2	13283.6	12910.1	12572.4	12176.7
33°	16668.2	16688.7	17038.5	17624.3	16780.9	15189.5	13858.2	13235.1	12487.6	11814.2	11497.6
37.5°	12397.9	12655.7	13756.7	15492.0	16149.3	15498.5	14032.7	13236.5	12136.7	11457.2	10934.5
42.5°	8732.9	9006.0	9835.4	11005.7	12910.8	14604.3	14368.5	13318.8	11747.2	11240.3	10657.2
47.5°	7684.8	7591.5	7772.9	7919.0	9059.3	11724.5	14120.2	13153.6	11036.5	10649.7	10376.0
55°	2245.1	2643.8	3559.5	4482.7	5812.9	6693.9	10361.6	10321.4	8883.7	9395.5	8720.0
65°	343.1	373.2	786.1	767.6	1123.3	1835.2	2281.4	2470.7	1626.9	413.1	1632.4
75°	41.4	57.4	94.1	84.3	91.5	81.1	135.8	175.1	168.3	291.9	266.0
85°	4.9	43.3	49.0	47.2	51.3	53.3	62.9	71.4	72.7	79.9	76.5
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°	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6
1°	13786.7	13805.4	13822.8	13838.6	13852.3	13863.3	13871.3	13875.9	13871.3	13863.3	13852.3
3°	13892.2	13933.7	13972.1	14006.7	14036.5	14060.1	14073.8	14077.0	14073.8	14060.1	14036.5
5°	13956.5	14022.7	14065.3	14063.8	14062.9	14063.1	14065.3	14068.2	14065.3	14063.1	14062.9
7°	14010.7	14039.2	14026.9	13993.7	13937.1	13899.0	13877.5	13871.9	13877.5	13899.0	13937.1
9°	14003.7	13957.3	13869.0	13778.9	13660.7	13563.9	13510.5	13480.5	13510.5	13563.9	13660.7
11°	13869.3	13756.6	13585.2	13383.4	13228.7	13059.3	12939.8	12878.1	12939.8	13059.3	13228.7
13°	13708.2	13475.7	13203.0	12949.0	12730.9	12583.9	12464.0	12403.8	12464.0	12583.9	12730.9
15°	13499.9	13164.7	12859.5	12595.0	12370.9	12270.6	12205.2	12195.8	12205.2	12270.6	12370.9
17°	13250.1	12882.1	12582.6	12345.9	12169.7	11969.9	11862.8	11850.7	11862.8	11969.9	12169.7
19.5°	13012.0	12651.6	12327.3	12084.0	11764.6	11286.6	11019.5	10937.6	11019.5	11286.6	11764.6
22.5°	12718.5	12398.3	12024.4	11545.8	10916.4	10718.2	10628.1	10611.3	10628.1	10718.2	10916.4
25.5°	12323.5	11930.0	11567.3	10829.0	10591.7	10418.9	10328.4	10316.5	10328.4	10418.9	10591.7
29°	11737.1	11246.2	10517.2	10351.6	10174.5	9980.5	9915.7	9899.4	9915.7	9980.5	10174.5
33°	11031.2	10417.9	9814.3	9745.7	9554.7	9460.9	9442.8	9439.9	9442.8	9460.9	9554.7
37.5°	10374.9	9680.3	9280.6	9024.6	8954.5	8978.1	8982.2	8964.7	8982.2	8978.1	8954.5
42.5°	9836.9	9173.2	8629.8	8354.2	8347.9	8323.6	8318.2	8369.1	8318.2	8323.6	8347.9
47.5°	9441.5	8745.3	7925.7	7681.0	7306.2	6444.9	5862.0	5753.3	5862.0	6444.9	7306.2
55°	8001.3	7951.9	6638.0	5055.7	3467.0	2273.8	1556.7	1152.6	1556.7	2273.8	3467.0
65°	2454.5	1953.2	1195.6	920.9	1105.6	973.6	861.1	853.9	861.1	973.6	1105.6
75°	338.7	254.1	254.9	177.8	231.2	188.8	119.5	90.7	119.5	188.8	231.2
85°	68.1	61.9	60.0	53.2	45.4	44.9	33.0	0.0	33.0	44.9	45.4
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°	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6	13753.6
1°	13838.6	13822.8	13805.4	13786.7	13767.3	13747.7	13726.4	13705.9	13687.0	13670.0	13655.7
3°	14006.7	13972.1	13933.7	13892.2	13826.6	13755.6	13699.2	13644.9	13624.3	13605.0	13587.9
5°	14063.8	14065.3	14022.7	13956.5	13885.3	13792.1	13694.7	13642.2	13601.0	13577.2	13580.2
7°	13993.7	14026.9	14039.2	14010.7	13934.3	13836.5	13715.4	13632.4	13590.7	13592.6	13616.2
9°	13778.9	13869.0	13957.3	14003.7	13938.1	13852.2	13719.8	13609.5	13590.6	13620.7	13685.9
11°	13383.4	13585.2	13756.6	13869.3	13884.2	13831.5	13713.5	13613.1	13599.8	13661.6	13771.1
13°	12949.0	13203.0	13475.7	13708.2	13815.3	13816.7	13731.8	13615.2	13616.6	13726.3	13907.1
15°	12595.0	12859.5	13164.7	13499.9	13715.2	13801.0	13778.4	13639.0	13651.5	13826.1	14078.1
17°	12345.9	12582.6	12882.1	13250.1	13592.5	13789.1	13807.4	13668.2	13695.0	13935.4	14271.5
19.5°	12084.0	12327.3	12651.6	13012.0	13531.4	14178.6	13974.5	13701.1	13785.9	14100.8	14548.3
22.5°	11545.8	12024.4	12398.3	12718.5	13048.1	13502.2	13598.7	13605.8	13898.6	14355.5	14984.9
25.5°	10829.0	11567.3	11930.0	12323.5	12630.2	13048.6	13279.8	13396.6	13797.0	14680.2	15562.0
29°	10351.6	10517.2	11246.2	11737.1	12176.7	12572.4	12910.1	13283.6	13772.2	14955.1	16242.2
33°	9745.7	9814.3	10417.9	11031.2	11497.6	11814.2	12487.6	13235.1	13858.2	15189.5	16780.9
37.5°	9024.6	9280.6	9680.3	10374.9	10934.5	11457.2	12136.7	13236.5	14032.7	15498.5	16149.3
42.5°	8354.2	8629.8	9173.2	9836.9	10657.2	11240.3	11747.2	13318.8	14368.5	14604.3	12910.8
47.5°	7681.0	7925.7	8745.3	9441.5	10376.0	10649.7	11036.5	13153.6	14120.2	11724.5	9059.3
55°	5055.7	6638.0	7951.9	8001.3	8720.0	9395.5	8883.7	10321.4	10361.6	6693.9	5812.9
65°	920.9	1195.6	1953.2	2454.5	1632.4	413.1	1626.9	2470.7	2281.4	1835.2	1123.3
75°	177.8	254.9	254.1	338.7	266.0	291.9	168.3	175.1	135.8	81.1	91.5
85°	53.2	60.0	61.9	68.1	76.5	79.9	72.7	71.4	62.9	53.3	51.3
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°	13753.6	13753.6	13753.6	13753.6
1°	13644.4	13636.4	13632.1	13631.4
3°	13573.4	13561.8	13554.3	13549.5
5°	13584.1	13589.4	13593.2	13587.0
7°	13655.0	13686.7	13707.5	13714.2
9°	13773.1	13838.3	13876.1	13888.7
11°	13922.3	14051.8	14120.5	14134.2
13°	14116.6	14305.8	14404.7	14420.2
15°	14342.2	14613.8	14754.8	14784.0
17°	14625.6	14969.8	15161.0	15189.2
19.5°	15061.0	15460.3	15716.0	15754.2
22.5°	15620.8	16173.8	16527.8	16615.0
25.5°	16355.8	17051.1	17474.1	17636.5
29°	17313.0	17754.4	17993.4	18144.3
33°	17624.3	17038.5	16688.7	16668.2
37.5°	15492.0	13756.7	12655.7	12397.9
42.5°	11005.7	9835.4	9006.0	8732.9
47.5°	7919.0	7772.9	7591.5	7684.8
55°	4482.7	3559.5	2643.8	2245.1
65°	767.6	786.1	373.2	343.1
75°	84.3	94.1	57.4	41.4
85°	47.2	49.0	43.3	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)