

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: P214478

Luminaire Tested: **NFFLD-L-C75-D-UNV-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214478
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-C75-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
XI150C105V140CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25864.6 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0.67 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

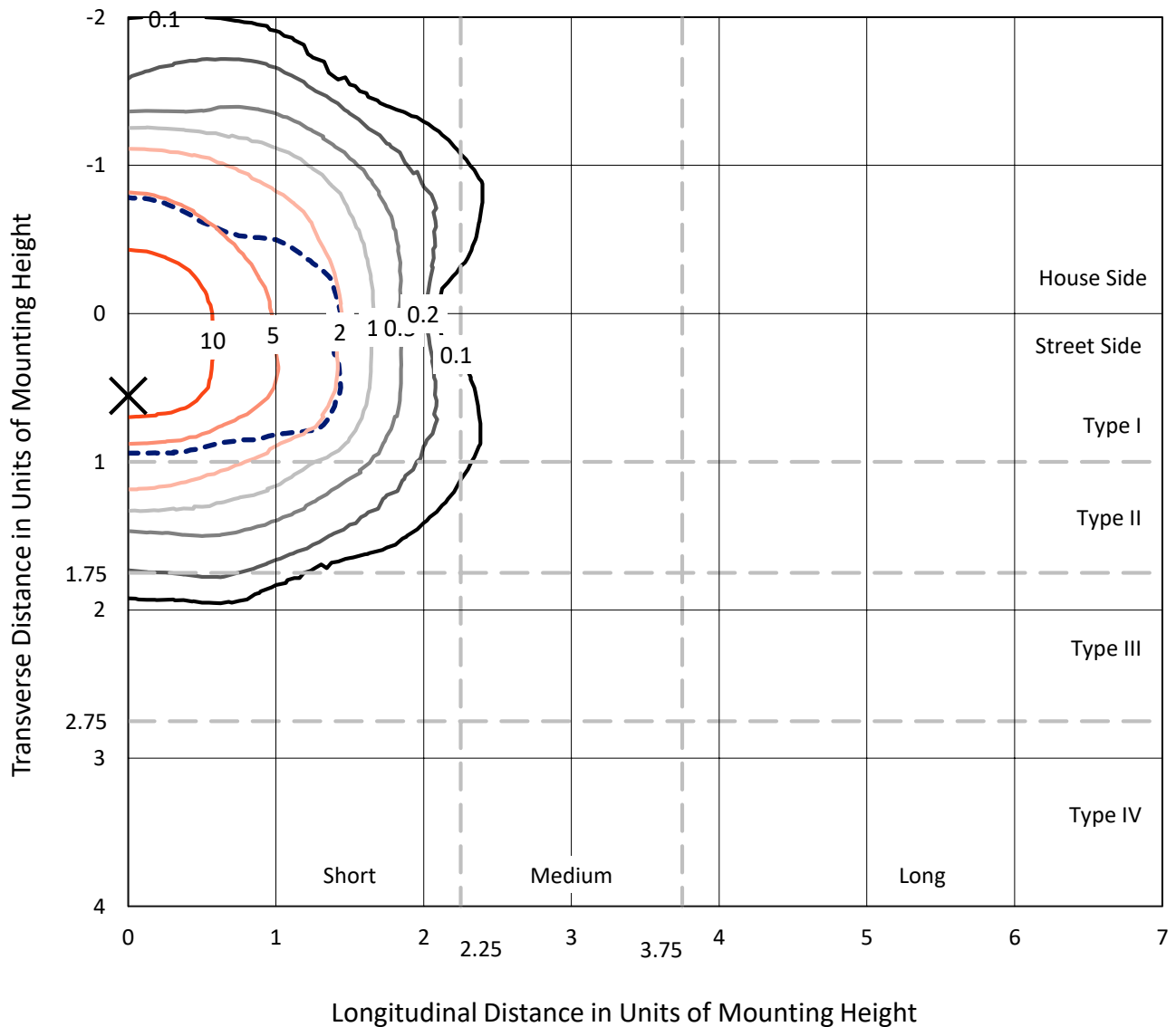
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

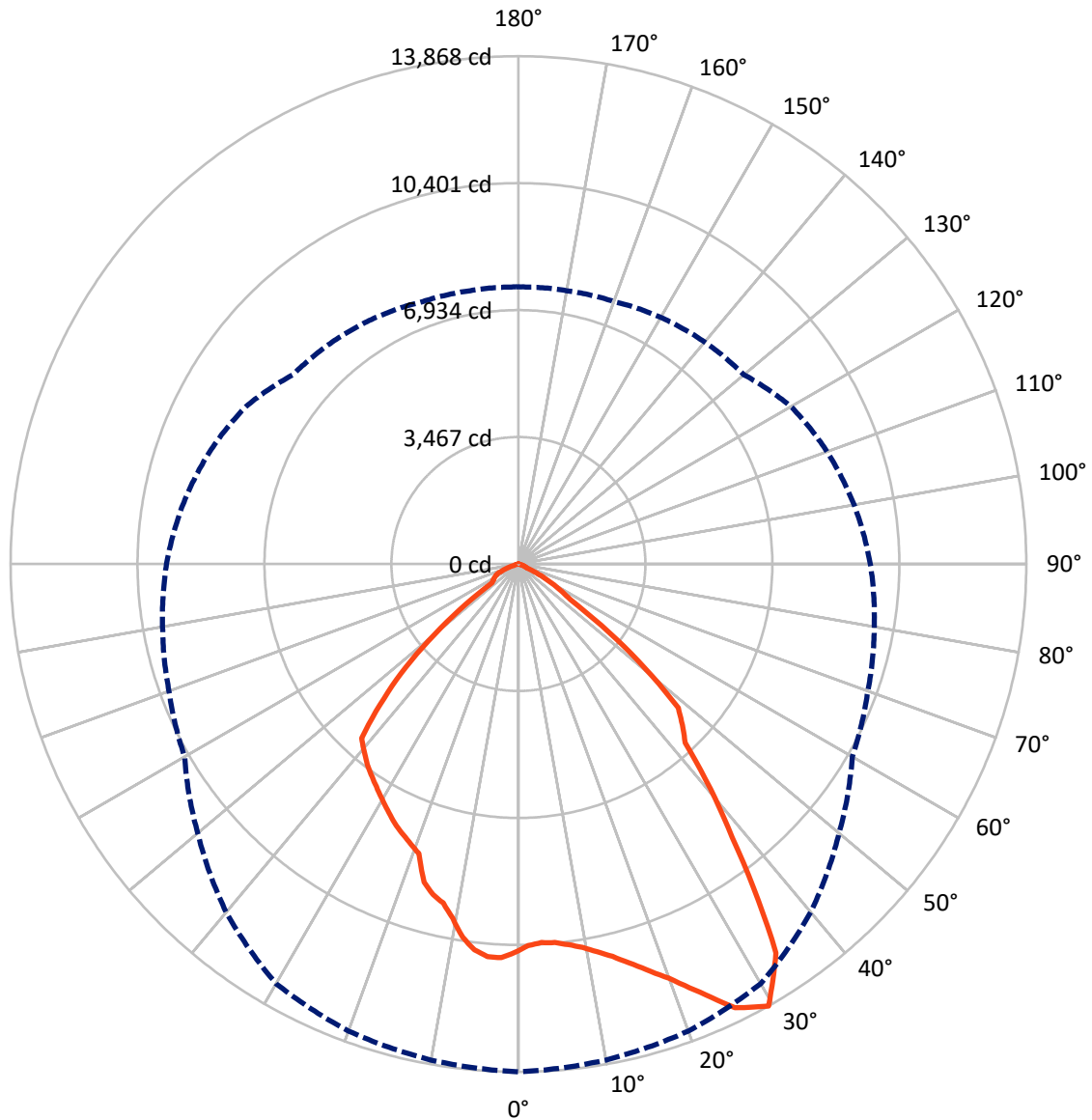
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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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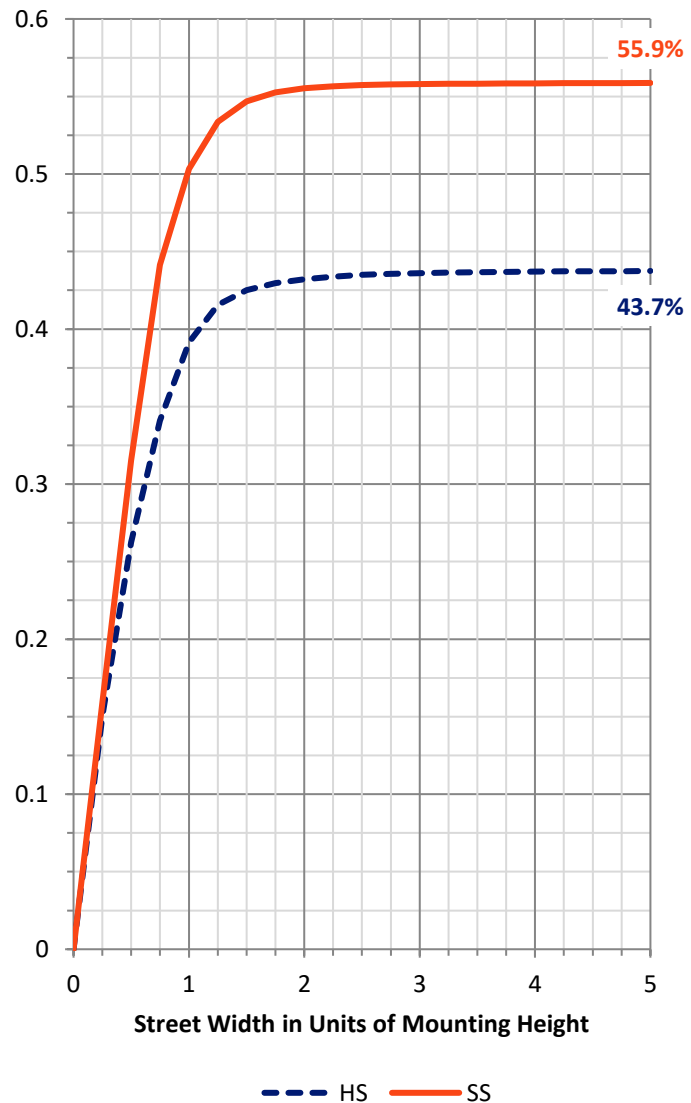
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11415.7	0.0	11415.7
	% Fixture	44.1	0.0	44.1
Street Side	Lumens	14448.9	0.0	14448.9
	% Fixture	55.9	0.0	55.9
Total	Lumens	25864.6	0.0	25864.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.3	3.9
10°-20°	2923.8	11.3
20°-30°	4695.9	18.2
30°-40°	5823.0	22.5
40°-50°	5733.2	22.2
50°-60°	4005.9	15.5
60°-70°	1657.9	6.4
70°-80°	342.6	1.3
80°-90°	46.9	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°	25864.6	100.0
0°-180°	25864.6	100.0



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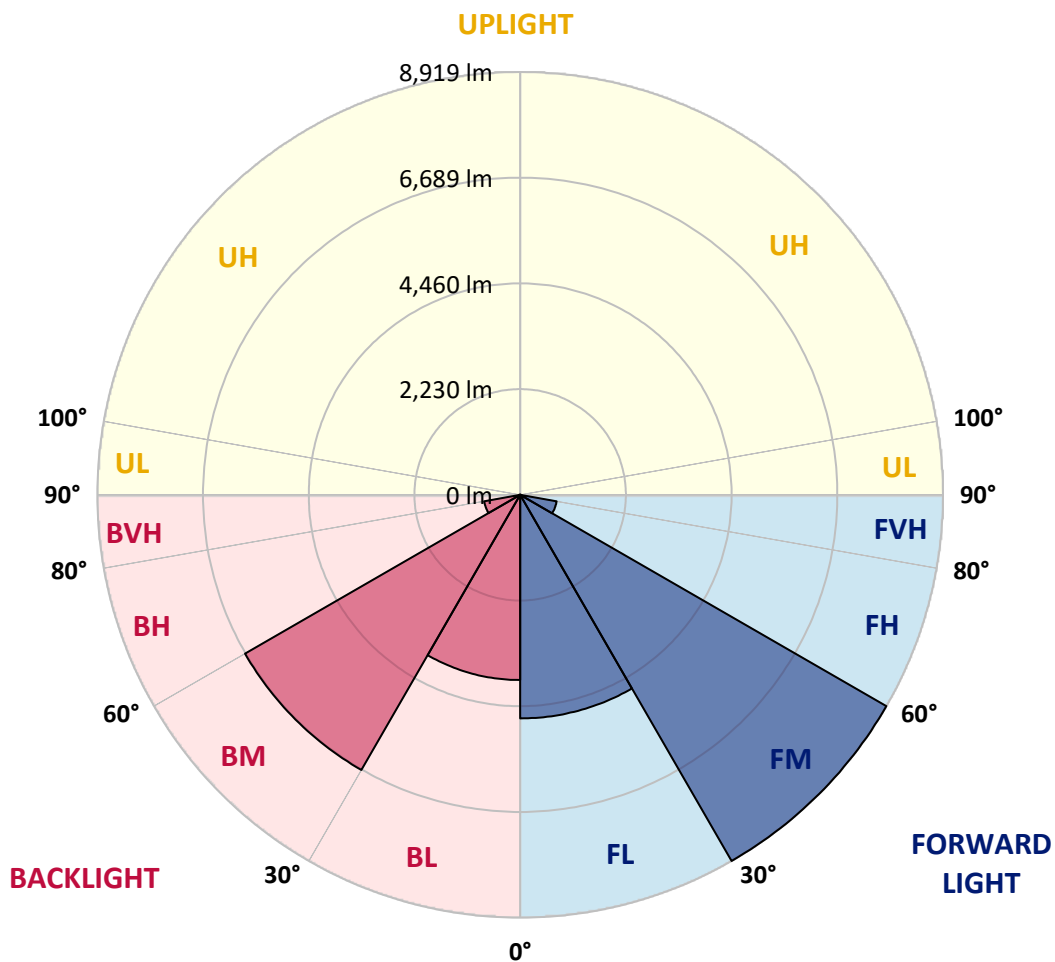
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4716.3	18.2			
FM	(30°-60°)	8919.3	34.5			
FH	(60°-80°)	780.8	3.0			G1/1800
FVH	(80°-90°)	20.4	0.1			G1/100
BL	(0°-30°)	3905.9	15.1	B4/5000		
BM	(30°-60°)	6702.3	25.9	B4/8500		
BH	(60°-80°)	771.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	25.6	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°	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3
1°	10418.8	10419.3	10422.7	10428.8	10437.4	10448.4	10461.3	10475.9	10491.5	10507.8	10522.8
3°	10356.3	10360.0	10365.7	10374.6	10385.6	10398.7	10413.4	10429.2	10470.7	10513.8	10568.0
5°	10384.9	10389.6	10386.8	10382.7	10379.8	10377.4	10395.6	10427.1	10467.3	10541.7	10612.8
7°	10482.1	10477.0	10461.1	10436.9	10407.3	10389.2	10387.8	10419.7	10483.1	10575.6	10650.4
9°	10615.5	10605.9	10577.0	10527.1	10460.5	10410.7	10387.7	10402.1	10486.4	10587.6	10653.3
11°	10803.2	10792.6	10740.1	10641.2	10525.7	10441.9	10394.7	10404.9	10481.6	10571.8	10612.1
13°	11021.7	11009.9	10934.3	10789.7	10629.6	10491.4	10407.6	10406.5	10495.5	10560.5	10559.4
15°	11299.8	11277.5	11169.7	10962.0	10760.3	10567.7	10434.3	10424.7	10531.2	10548.5	10483.0
17°	11609.6	11587.9	11441.8	11178.7	10908.1	10651.2	10467.5	10446.9	10553.4	10539.4	10389.1
19.5°	12041.4	12012.2	11816.8	11511.6	11119.6	10777.6	10537.0	10472.2	10681.1	10837.1	10342.4
22.5°	12699.3	12632.6	12362.1	11939.4	11453.4	10972.3	10623.0	10399.3	10393.9	10320.1	9973.0
25.5°	13480.0	13355.9	13032.6	12501.2	11894.5	11220.5	10545.5	10239.4	10150.1	9973.4	9653.6
29°	13868.2	13752.8	13570.2	13232.8	12414.4	11430.7	10526.5	10153.1	9867.5	9609.4	9307.0
33°	12740.0	12755.7	13023.0	13470.7	12826.1	11609.7	10592.2	10115.9	9544.6	9029.9	8787.9
37.5°	9476.1	9673.1	10514.7	11841.0	12343.4	11845.9	10725.6	10117.0	9276.4	8757.1	8357.5
42.5°	6674.8	6883.5	7517.5	8412.0	9868.0	11162.4	10982.3	10179.9	8978.7	8591.3	8145.5
47.5°	5873.7	5802.4	5941.0	6052.7	6924.2	8961.4	10792.5	10053.6	8435.5	8139.9	7930.6
55°	1716.0	2020.7	2720.6	3426.2	4442.9	5116.4	7919.7	7888.9	6790.0	7181.3	6665.0
65°	262.3	285.3	600.8	586.7	858.6	1402.7	1743.7	1888.4	1243.5	315.8	1247.7
75°	31.7	43.8	71.9	64.4	70.0	61.9	103.9	133.8	128.6	223.1	203.3
85°	3.8	33.1	37.5	36.0	39.2	40.7	48.1	54.6	55.5	61.0	58.5
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°	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3
1°	10537.6	10551.9	10565.2	10577.3	10587.7	10596.1	10602.2	10605.7	10602.2	10596.1	10587.7
3°	10618.2	10649.9	10679.3	10705.7	10728.5	10746.5	10757.0	10759.5	10757.0	10746.5	10728.5
5°	10667.3	10717.9	10750.5	10749.4	10748.6	10748.8	10750.5	10752.7	10750.5	10748.8	10748.6
7°	10708.8	10730.6	10721.2	10695.8	10652.5	10623.4	10607.0	10602.7	10607.0	10623.4	10652.5
9°	10703.4	10668.0	10600.5	10531.6	10441.2	10367.3	10326.5	10303.5	10326.5	10367.3	10441.2
11°	10600.7	10514.5	10383.5	10229.3	10111.1	9981.6	9890.3	9843.1	9890.3	9981.6	10111.1
13°	10477.6	10299.8	10091.4	9897.3	9730.6	9618.2	9526.5	9480.6	9526.5	9618.2	9730.6
15°	10318.4	10062.1	9828.9	9626.7	9455.4	9378.8	9328.8	9321.6	9328.8	9378.8	9455.4
17°	10127.4	9846.2	9617.2	9436.3	9301.7	9148.9	9067.0	9057.8	9067.0	9148.9	9301.7
19.5°	9945.4	9670.0	9422.1	9236.2	8992.0	8626.7	8422.5	8359.9	8422.5	8626.7	8992.0
22.5°	9721.1	9476.3	9190.6	8824.7	8343.8	8192.3	8123.3	8110.5	8123.3	8192.3	8343.8
25.5°	9419.2	9118.4	8841.3	8276.9	8095.5	7963.5	7894.3	7885.2	7894.3	7963.5	8095.5
29°	8971.0	8595.8	8038.6	7912.0	7776.7	7628.4	7578.9	7566.4	7578.9	7628.4	7776.7
33°	8431.4	7962.7	7501.3	7448.9	7302.9	7231.2	7217.4	7215.2	7217.4	7231.2	7302.9
37.5°	7929.9	7398.9	7093.4	6897.7	6844.1	6862.2	6865.4	6851.9	6865.4	6862.2	6844.1
42.5°	7518.6	7011.3	6596.1	6385.3	6380.5	6361.9	6357.9	6396.7	6357.9	6361.9	6380.5
47.5°	7216.4	6684.3	6057.9	5870.8	5584.4	4926.0	4480.4	4397.4	4480.4	4926.0	5584.4
55°	6115.6	6077.8	5073.5	3864.2	2649.9	1737.9	1189.9	881.0	1189.9	1737.9	2649.9
65°	1876.1	1492.8	913.8	703.8	845.1	744.2	658.2	652.6	658.2	744.2	845.1
75°	258.9	194.2	194.8	135.9	176.7	144.3	91.4	69.3	91.4	144.3	176.7
85°	52.1	47.3	45.9	40.6	34.7	34.3	25.2	0.0	25.2	34.3	34.7
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°	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3	10512.3
1°	10577.3	10565.2	10551.9	10537.6	10522.8	10507.8	10491.5	10475.9	10461.3	10448.4	10437.4
3°	10705.7	10679.3	10649.9	10618.2	10568.0	10513.8	10470.7	10429.2	10413.4	10398.7	10385.6
5°	10749.4	10750.5	10717.9	10667.3	10612.8	10541.7	10467.3	10427.1	10395.6	10377.4	10379.8
7°	10695.8	10721.2	10730.6	10708.8	10650.4	10575.6	10483.1	10419.7	10387.8	10389.2	10407.3
9°	10531.6	10600.5	10668.0	10703.4	10653.3	10587.6	10486.4	10402.1	10387.7	10410.7	10460.5
11°	10229.3	10383.5	10514.5	10600.7	10612.1	10571.8	10481.6	10404.9	10394.7	10441.9	10525.7
13°	9897.3	10091.4	10299.8	10477.6	10559.4	10560.5	10495.5	10406.5	10407.6	10491.4	10629.6
15°	9626.7	9828.9	10062.1	10318.4	10483.0	10548.5	10531.2	10424.7	10434.3	10567.7	10760.3
17°	9436.3	9617.2	9846.2	10127.4	10389.1	10539.4	10553.4	10446.9	10467.5	10651.2	10908.1
19.5°	9236.2	9422.1	9670.0	9945.4	10342.4	10837.1	10681.1	10472.2	10537.0	10777.6	11119.6
22.5°	8824.7	9190.6	9476.3	9721.1	9973.0	10320.1	10393.9	10399.3	10623.0	10972.3	11453.4
25.5°	8276.9	8841.3	9118.4	9419.2	9653.6	9973.4	10150.1	10239.4	10545.5	11220.5	11894.5
29°	7912.0	8038.6	8595.8	8971.0	9307.0	9609.4	9867.5	10153.1	10526.5	11430.7	12414.4
33°	7448.9	7501.3	7962.7	8431.4	8787.9	9029.9	9544.6	10115.9	10592.2	11609.7	12826.1
37.5°	6897.7	7093.4	7398.9	7929.9	8357.5	8757.1	9276.4	10117.0	10725.6	11845.9	12343.4
42.5°	6385.3	6596.1	7011.3	7518.6	8145.5	8591.3	8978.7	10179.9	10982.3	11162.4	9868.0
47.5°	5870.8	6057.9	6684.3	7216.4	7930.6	8139.9	8435.5	10053.6	10792.5	8961.4	6924.2
55°	3864.2	5073.5	6077.8	6115.6	6665.0	7181.3	6790.0	7888.9	7919.7	5116.4	4442.9
65°	703.8	913.8	1492.8	1876.1	1247.7	315.8	1243.5	1888.4	1743.7	1402.7	858.6
75°	135.9	194.8	194.2	258.9	203.3	223.1	128.6	133.8	103.9	61.9	70.0
85°	40.6	45.9	47.3	52.1	58.5	61.0	55.5	54.6	48.1	40.7	39.2
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°	10512.3	10512.3	10512.3	10512.3
1°	10428.8	10422.7	10419.3	10418.8
3°	10374.6	10365.7	10360.0	10356.3
5°	10382.7	10386.8	10389.6	10384.9
7°	10436.9	10461.1	10477.0	10482.1
9°	10527.1	10577.0	10605.9	10615.5
11°	10641.2	10740.1	10792.6	10803.2
13°	10789.7	10934.3	11009.9	11021.7
15°	10962.0	11169.7	11277.5	11299.8
17°	11178.7	11441.8	11587.9	11609.6
19.5°	11511.6	11816.8	12012.2	12041.4
22.5°	11939.4	12362.1	12632.6	12699.3
25.5°	12501.2	13032.6	13355.9	13480.0
29°	13232.8	13570.2	13752.8	13868.2
33°	13470.7	13023.0	12755.7	12740.0
37.5°	11841.0	10514.7	9673.1	9476.1
42.5°	8412.0	7517.5	6883.5	6674.8
47.5°	6052.7	5941.0	5802.4	5873.7
55°	3426.2	2720.6	2020.7	1716.0
65°	586.7	600.8	285.3	262.3
75°	64.4	71.9	43.8	31.7
85°	36.0	37.5	33.1	3.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)