

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: P214483

Luminaire Tested: **NFFLD-L-C100-D-UNV-66-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214483
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-66-7060
Description: NIGHT CONDOR LED FLOODLIGHT WIDE OPTIC
Light Source: (4) 5700K CCT, 70 CRI LEDS
CLU048-1312C4-40ALK3
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33300.7 lumens
Efficiency: N/A
Efficacy: 132.1 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 - G2

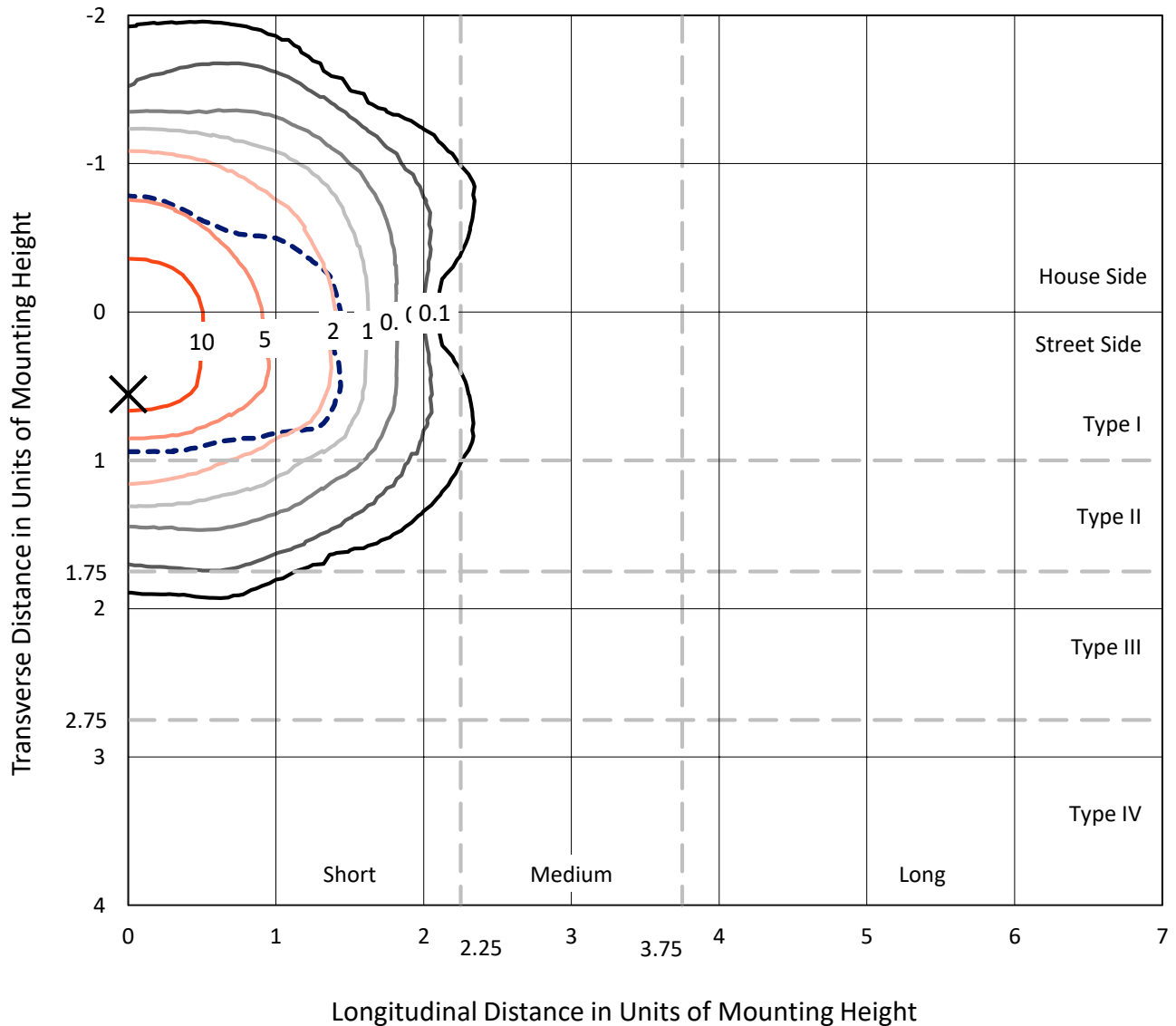
Input Watts (W): 252
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

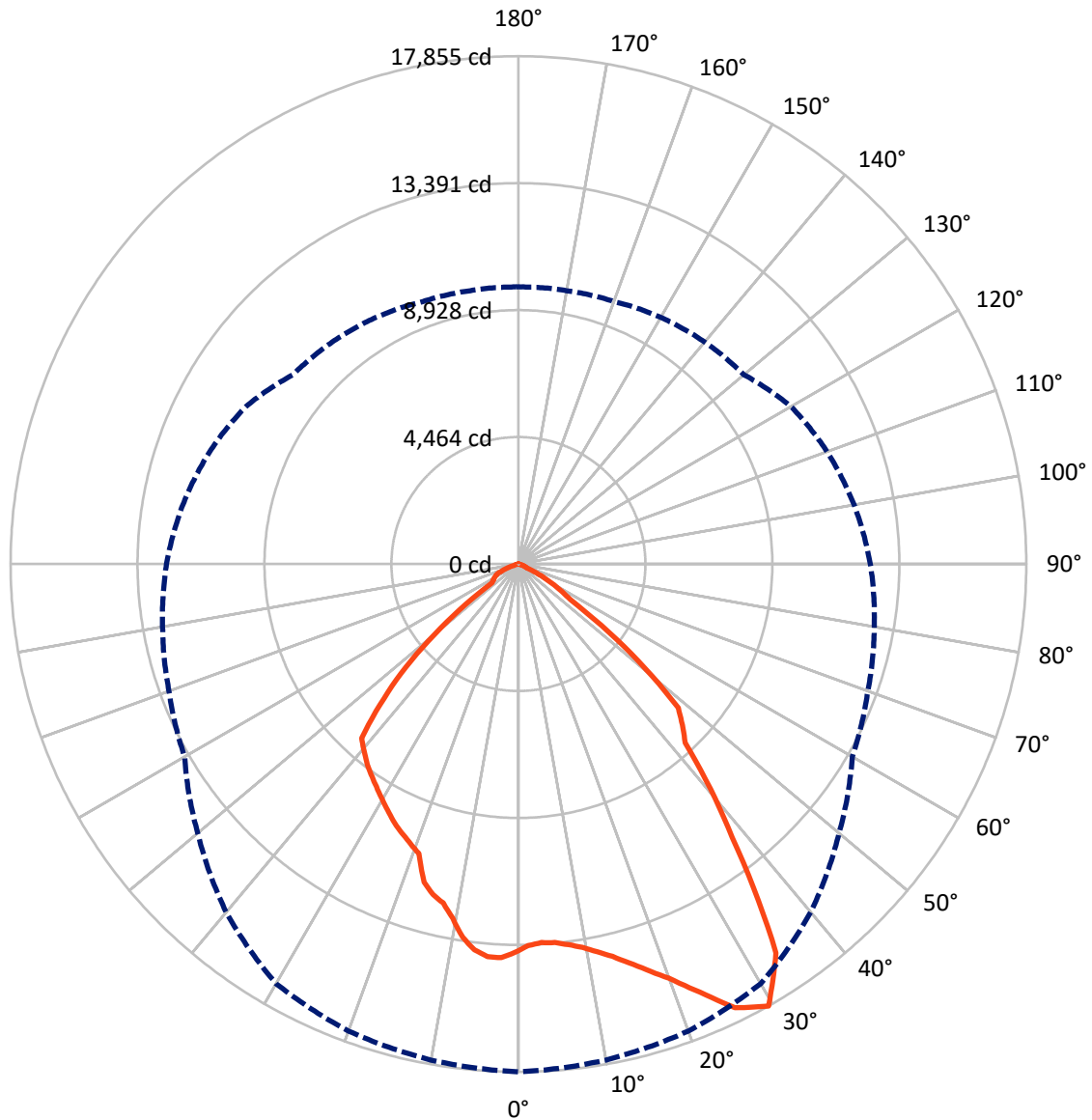


Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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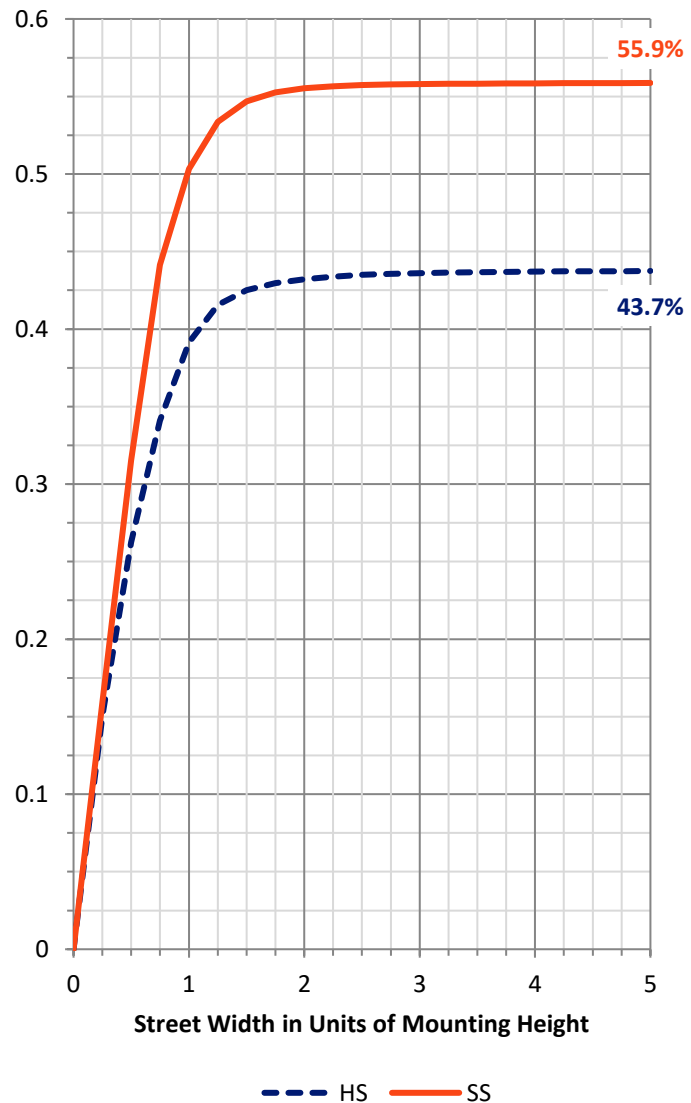
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14697.7	0.0	14697.7
	% Fixture	44.1	0.0	44.1
Street Side	Lumens	18603.0	0.0	18603.0
	% Fixture	55.9	0.0	55.9
Total	Lumens	33300.7	0.0	33300.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.4	3.9
10°-20°	3764.4	11.3
20°-30°	6045.9	18.2
30°-40°	7497.1	22.5
40°-50°	7381.5	22.2
50°-60°	5157.5	15.5
60°-70°	2134.6	6.4
70°-80°	441.0	1.3
80°-90°	60.4	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°	33300.7	100.0
0°-180°	33300.7	100.0



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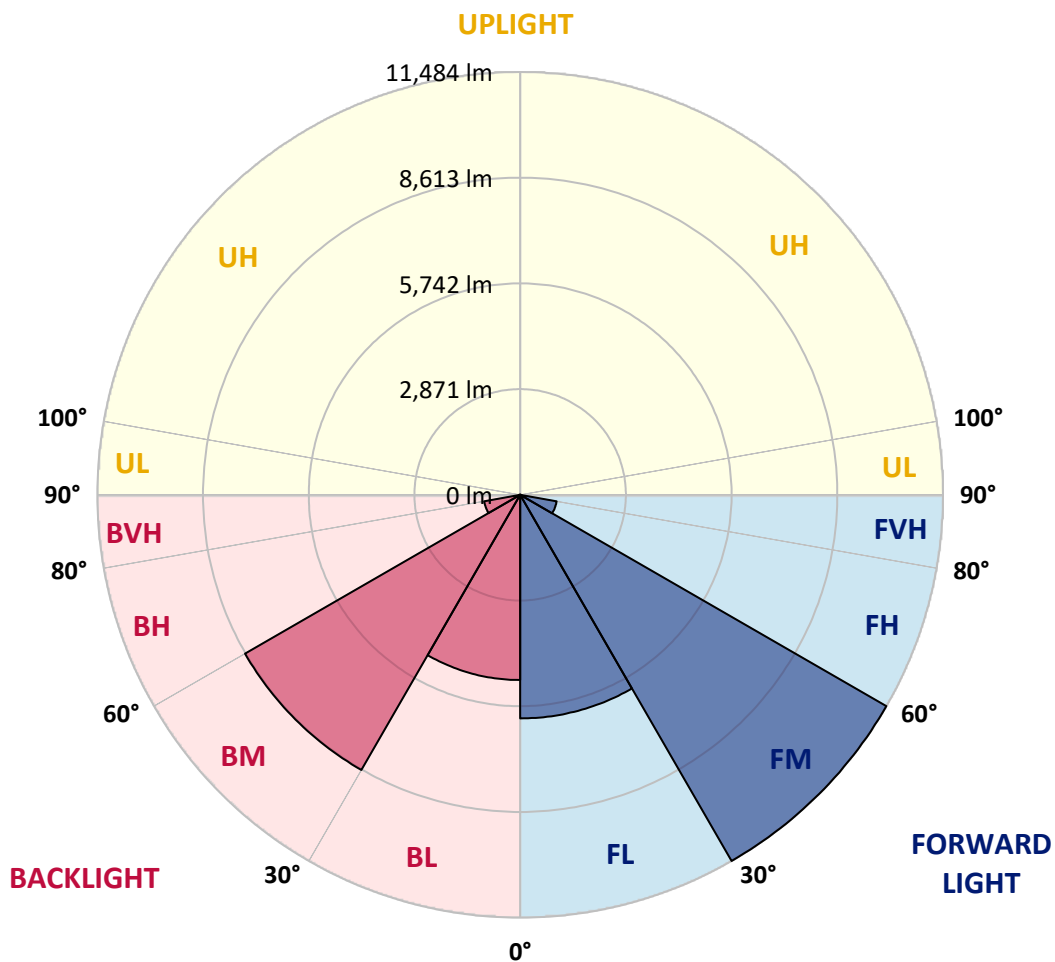
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6072.3	18.2			
FM	(30°-60°)	11483.6	34.5			
FH	(60°-80°)	1005.3	3.0			G1/1800
FVH	(80°-90°)	26.2	0.1			G1/100
BL	(0°-30°)	5028.9	15.1	B5		
BM	(30°-60°)	8629.2	25.9	B5		
BH	(60°-80°)	993.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	33.0	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6
1°	13414.3	13414.9	13419.2	13427.1	13438.2	13452.3	13469.0	13487.7	13507.8	13528.8	13548.1
3°	13333.7	13338.5	13345.9	13357.3	13371.6	13388.4	13407.3	13427.7	13481.0	13536.5	13606.4
5°	13370.6	13376.7	13373.0	13367.8	13364.0	13360.9	13384.3	13424.9	13476.5	13572.4	13664.1
7°	13495.8	13489.3	13468.7	13437.5	13399.3	13376.1	13374.3	13415.3	13497.0	13616.1	13712.4
9°	13667.5	13655.1	13617.9	13553.8	13468.0	13403.8	13374.2	13392.7	13501.3	13631.6	13716.1
11°	13909.1	13895.6	13828.0	13700.6	13551.8	13444.0	13383.2	13396.3	13495.1	13611.2	13663.0
13°	14190.5	14175.3	14078.0	13891.8	13685.6	13507.7	13399.7	13398.4	13513.1	13596.7	13595.2
15°	14548.5	14519.8	14381.0	14113.7	13853.8	13605.9	13434.1	13421.8	13559.0	13581.2	13496.8
17°	14947.3	14919.5	14731.4	14392.6	14044.2	13713.4	13476.9	13450.5	13587.5	13569.5	13375.9
19.5°	15503.3	15465.8	15214.1	14821.2	14316.5	13876.1	13566.4	13482.9	13751.9	13952.8	13315.9
22.5°	16350.4	16264.5	15916.2	15372.0	14746.2	14126.9	13677.2	13389.1	13382.1	13287.2	12840.3
25.5°	17355.6	17195.8	16779.6	16095.3	15314.2	14446.3	13577.3	13183.2	13068.3	12840.8	12429.0
29°	17855.3	17706.7	17471.7	17037.2	15983.5	14717.0	13552.9	13072.1	12704.5	12372.2	11982.7
33°	16402.8	16423.0	16767.2	17343.6	16513.6	14947.6	13637.5	13024.2	12288.7	11626.0	11314.5
37.5°	12200.4	12454.1	13537.6	15245.3	15892.1	15251.6	13809.2	13025.6	11943.5	11274.8	10760.3
42.5°	8593.9	8862.5	9678.8	10830.4	12705.2	14371.7	14139.7	13106.6	11560.1	11061.3	10487.4
47.5°	7562.4	7470.6	7649.1	7792.9	8915.0	11537.8	13895.3	12944.1	10860.7	10480.1	10210.8
55°	2209.4	2601.7	3502.8	4411.3	5720.3	6587.3	10196.6	10157.0	8742.2	9245.9	8581.1
65°	337.7	367.3	773.5	755.4	1105.4	1806.0	2245.1	2431.3	1601.0	406.6	1606.4
75°	40.8	56.4	92.6	83.0	90.1	79.7	133.7	172.3	165.6	287.2	261.7
85°	4.9	42.7	48.2	46.3	50.5	52.4	61.9	70.3	71.5	78.6	75.3
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6
1°	13567.2	13585.5	13602.7	13618.3	13631.7	13642.5	13650.4	13654.9	13650.4	13642.5	13631.7
3°	13671.0	13711.8	13749.6	13783.6	13812.9	13836.1	13849.6	13852.8	13849.6	13836.1	13812.9
5°	13734.2	13799.3	13841.3	13839.8	13838.8	13839.1	13841.3	13844.1	13841.3	13839.1	13838.8
7°	13787.5	13815.6	13803.6	13770.9	13715.2	13677.7	13656.5	13651.0	13656.5	13677.7	13715.2
9°	13780.6	13735.0	13648.1	13559.5	13443.1	13347.9	13295.3	13265.8	13295.3	13347.9	13443.1
11°	13648.4	13537.5	13368.8	13170.2	13018.0	12851.3	12733.7	12673.0	12733.7	12851.3	13018.0
13°	13490.0	13261.1	12992.7	12742.8	12528.1	12383.4	12265.4	12206.3	12265.4	12383.4	12528.1
15°	13285.0	12955.1	12654.7	12394.4	12173.8	12075.1	12010.8	12001.5	12010.8	12075.1	12173.8
17°	13039.0	12676.9	12382.3	12149.3	11975.9	11779.3	11673.8	11661.9	11673.8	11779.3	11975.9
19.5°	12804.8	12450.1	12130.9	11891.6	11577.2	11106.9	10844.0	10763.4	10844.0	11106.9	11577.2
22.5°	12515.9	12200.8	11833.0	11361.9	10742.7	10547.5	10458.8	10442.3	10458.8	10547.5	10742.7
25.5°	12127.2	11740.0	11383.2	10656.6	10423.0	10253.0	10164.0	10152.1	10164.0	10253.0	10423.0
29°	11550.1	11067.1	10349.7	10186.7	10012.5	9821.6	9757.8	9741.7	9757.8	9821.6	10012.5
33°	10855.5	10251.9	9658.0	9590.5	9402.5	9310.2	9292.5	9289.6	9292.5	9310.2	9402.5
37.5°	10209.7	9526.1	9132.8	8880.8	8811.8	8835.1	8839.2	8821.9	8839.2	8835.1	8811.8
42.5°	9680.2	9027.1	8492.4	8221.1	8214.9	8191.0	8185.7	8235.8	8185.7	8191.0	8214.9
47.5°	9291.1	8606.0	7799.4	7558.7	7189.8	6342.2	5768.6	5661.6	5768.6	6342.2	7189.8
55°	7873.8	7825.2	6532.2	4975.2	3411.8	2237.6	1531.9	1134.3	1531.9	2237.6	3411.8
65°	2415.4	1922.1	1176.5	906.2	1088.1	958.2	847.4	840.3	847.4	958.2	1088.1
75°	333.4	250.0	250.8	175.0	227.5	185.7	117.6	89.3	117.6	185.7	227.5
85°	67.1	60.9	59.0	52.3	44.6	44.1	32.4	0.0	32.4	44.1	44.6
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°	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6	13534.6
1°	13618.3	13602.7	13585.5	13567.2	13548.1	13528.8	13507.8	13487.7	13469.0	13452.3	13438.2
3°	13783.6	13749.6	13711.8	13671.0	13606.4	13536.5	13481.0	13427.7	13407.3	13388.4	13371.6
5°	13839.8	13841.3	13799.3	13734.2	13664.1	13572.4	13476.5	13424.9	13384.3	13360.9	13364.0
7°	13770.9	13803.6	13815.6	13787.5	13712.4	13616.1	13497.0	13415.3	13374.3	13376.1	13399.3
9°	13559.5	13648.1	13735.0	13780.6	13716.1	13631.6	13501.3	13392.7	13374.2	13403.8	13468.0
11°	13170.2	13368.8	13537.5	13648.4	13663.0	13611.2	13495.1	13396.3	13383.2	13444.0	13551.8
13°	12742.8	12992.7	13261.1	13490.0	13595.2	13596.7	13513.1	13398.4	13399.7	13507.7	13685.6
15°	12394.4	12654.7	12955.1	13285.0	13496.8	13581.2	13559.0	13421.8	13434.1	13605.9	13853.8
17°	12149.3	12382.3	12676.9	13039.0	13375.9	13569.5	13587.5	13450.5	13476.9	13713.4	14044.2
19.5°	11891.6	12130.9	12450.1	12804.8	13315.9	13952.8	13751.9	13482.9	13566.4	13876.1	14316.5
22.5°	11361.9	11833.0	12200.8	12515.9	12840.3	13287.2	13382.1	13389.1	13677.2	14126.9	14746.2
25.5°	10656.6	11383.2	11740.0	12127.2	12429.0	12840.8	13068.3	13183.2	13577.3	14446.3	15314.2
29°	10186.7	10349.7	11067.1	11550.1	11982.7	12372.2	12704.5	13072.1	13552.9	14717.0	15983.5
33°	9590.5	9658.0	10251.9	10855.5	11314.5	11626.0	12288.7	13024.2	13637.5	14947.6	16513.6
37.5°	8880.8	9132.8	9526.1	10209.7	10760.3	11274.8	11943.5	13025.6	13809.2	15251.6	15892.1
42.5°	8221.1	8492.4	9027.1	9680.2	10487.4	11061.3	11560.1	13106.6	14139.7	14371.7	12705.2
47.5°	7558.7	7799.4	8606.0	9291.1	10210.8	10480.1	10860.7	12944.1	13895.3	11537.8	8915.0
55°	4975.2	6532.2	7825.2	7873.8	8581.1	9245.9	8742.2	10157.0	10196.6	6587.3	5720.3
65°	906.2	1176.5	1922.1	2415.4	1606.4	406.6	1601.0	2431.3	2245.1	1806.0	1105.4
75°	175.0	250.8	250.0	333.4	261.7	287.2	165.6	172.3	133.7	79.7	90.1
85°	52.3	59.0	60.9	67.1	75.3	78.6	71.5	70.3	61.9	52.4	50.5
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):

	330°	340°	350°	360°
0°	13534.6	13534.6	13534.6	13534.6
1°	13427.1	13419.2	13414.9	13414.3
3°	13357.3	13345.9	13338.5	13333.7
5°	13367.8	13373.0	13376.7	13370.6
7°	13437.5	13468.7	13489.3	13495.8
9°	13553.8	13617.9	13655.1	13667.5
11°	13700.6	13828.0	13895.6	13909.1
13°	13891.8	14078.0	14175.3	14190.5
15°	14113.7	14381.0	14519.8	14548.5
17°	14392.6	14731.4	14919.5	14947.3
19.5°	14821.2	15214.1	15465.8	15503.3
22.5°	15372.0	15916.2	16264.5	16350.4
25.5°	16095.3	16779.6	17195.8	17355.6
29°	17037.2	17471.7	17706.7	17855.3
33°	17343.6	16767.2	16423.0	16402.8
37.5°	15245.3	13537.6	12454.1	12200.4
42.5°	10830.4	9678.8	8862.5	8593.9
47.5°	7792.9	7649.1	7470.6	7562.4
55°	4411.3	3502.8	2601.7	2209.4
65°	755.4	773.5	367.3	337.7
75°	83.0	92.6	56.4	40.8
85°	46.3	48.2	42.7	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)