

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: P232892

Luminaire Tested: **NFFLD-L-C125-D-UNV-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C125-D-UNV-66-7050
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39027.3 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 1.04 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 268
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

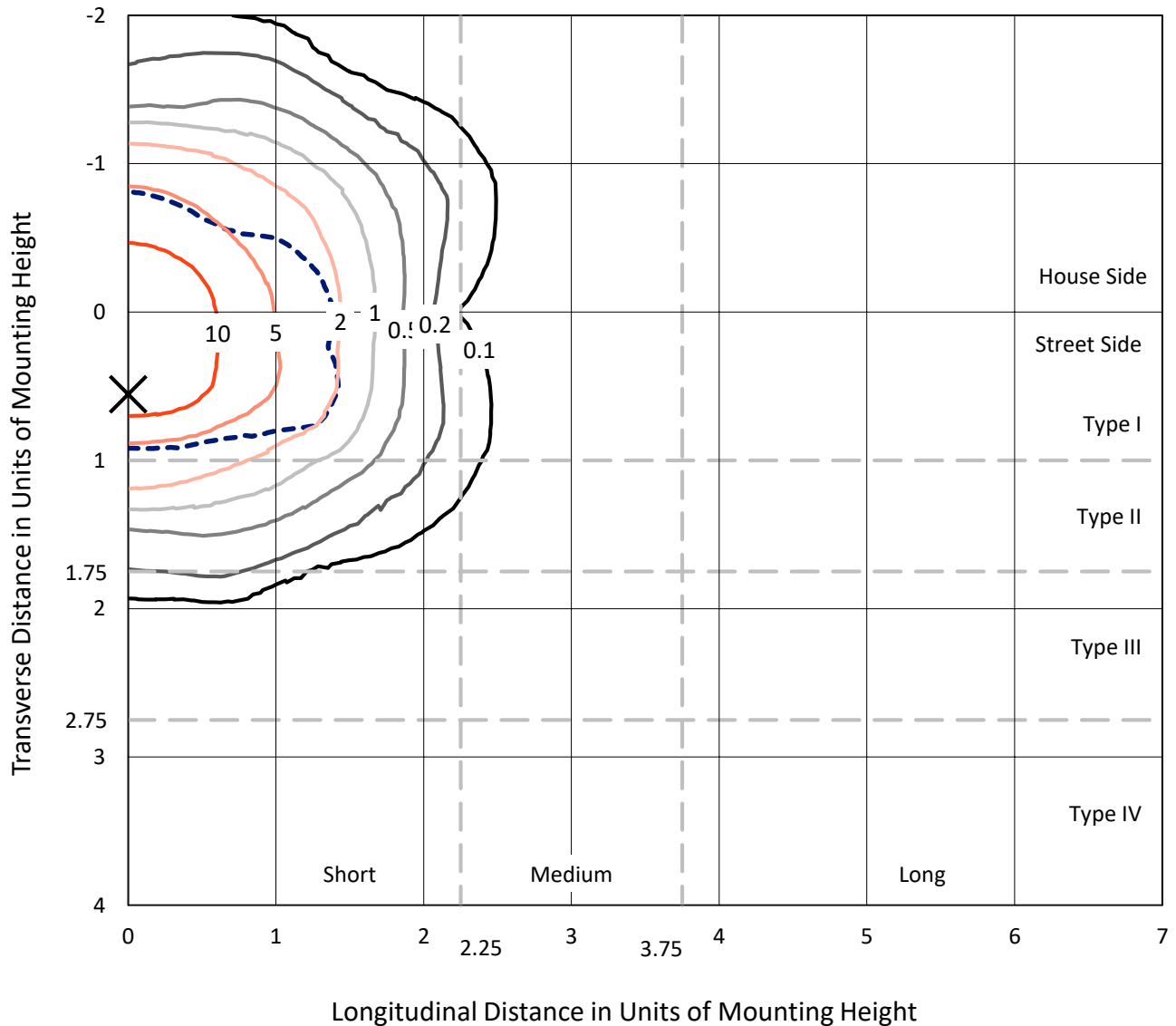


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

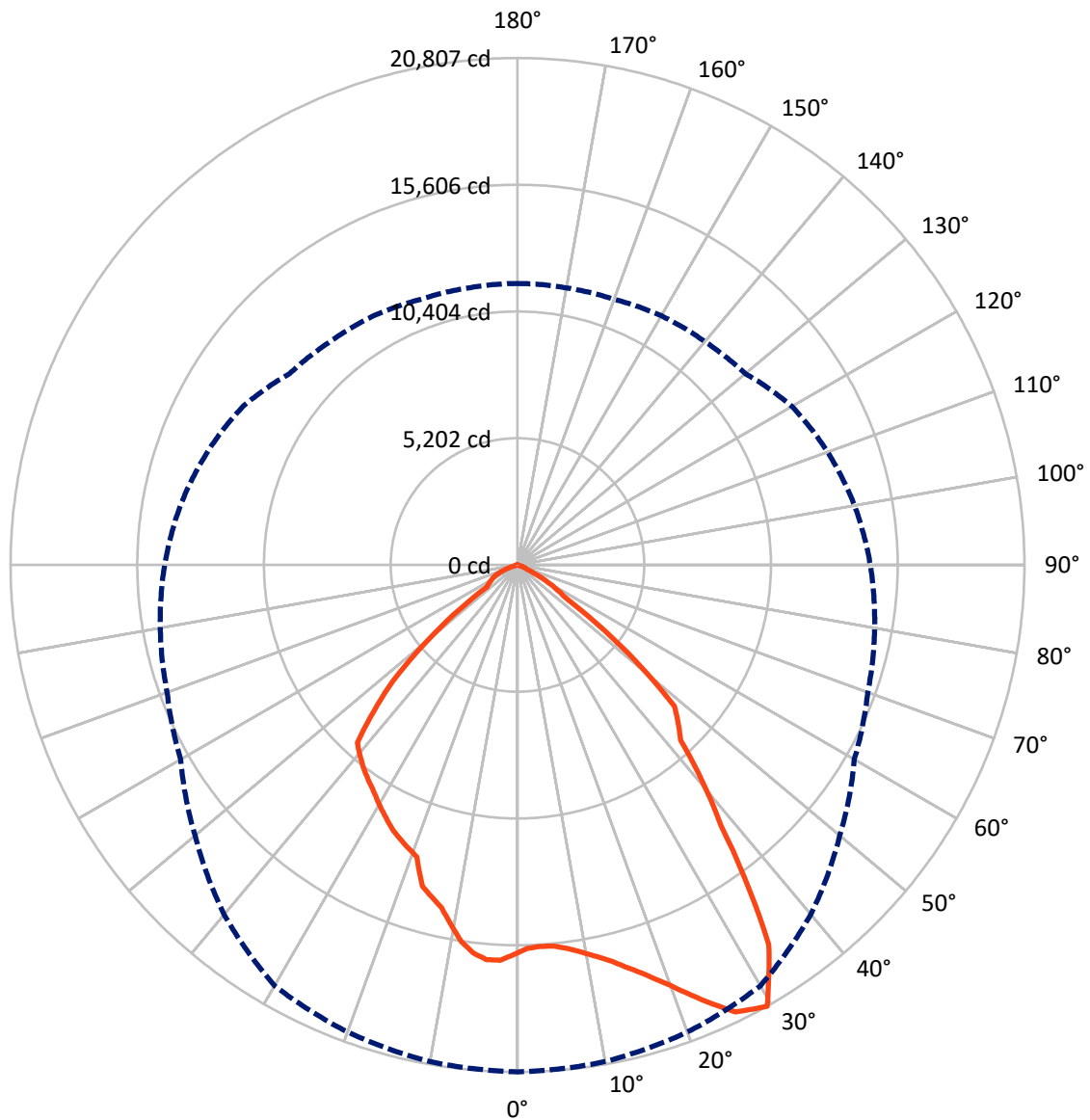


Based on 30 foot mounting height. Maximum calculated value = 17.6 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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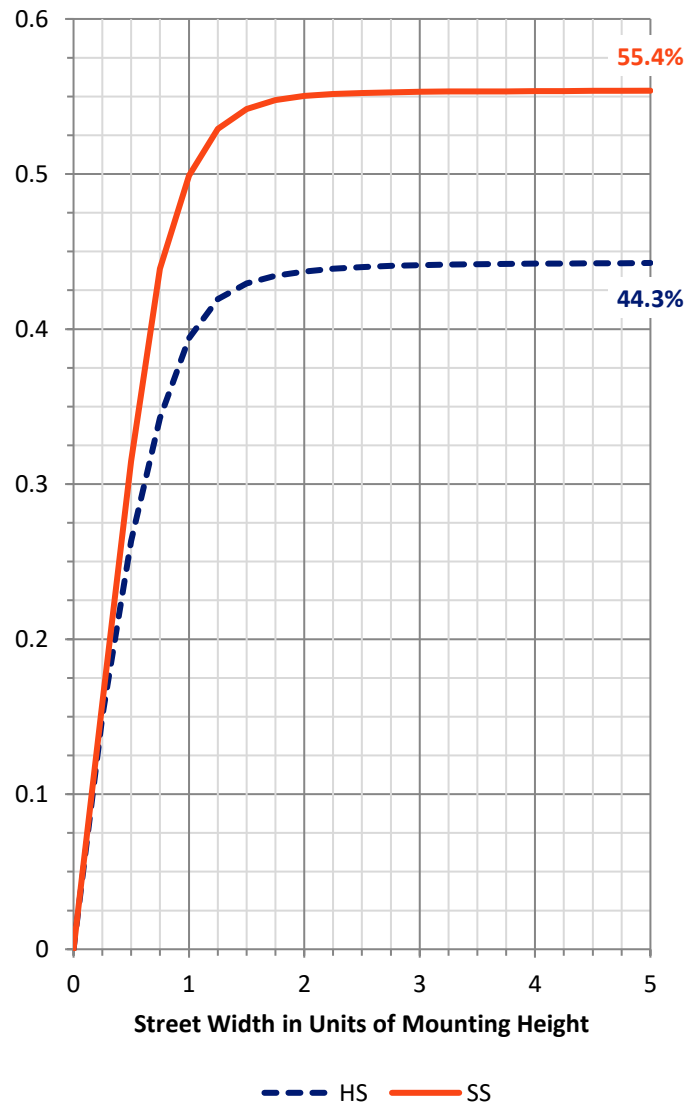
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17425.8	0.0	17425.8
	% Fixture	44.7	0.0	44.7
Street Side	Lumens	21601.5	0.0	21601.5
	% Fixture	55.3	0.0	55.3
Total	Lumens	39027.3	0.0	39027.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1518.3	3.9
10°-20°	4419.0	11.3
20°-30°	7094.9	18.2
30°-40°	8741.1	22.4
40°-50°	8574.3	22.0
50°-60°	6013.9	15.4
60°-70°	2575.5	6.6
70°-80°	579.4	1.5
80°-90°	73.0	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°	39027.3	100.0
0°-180°	39027.3	100.0



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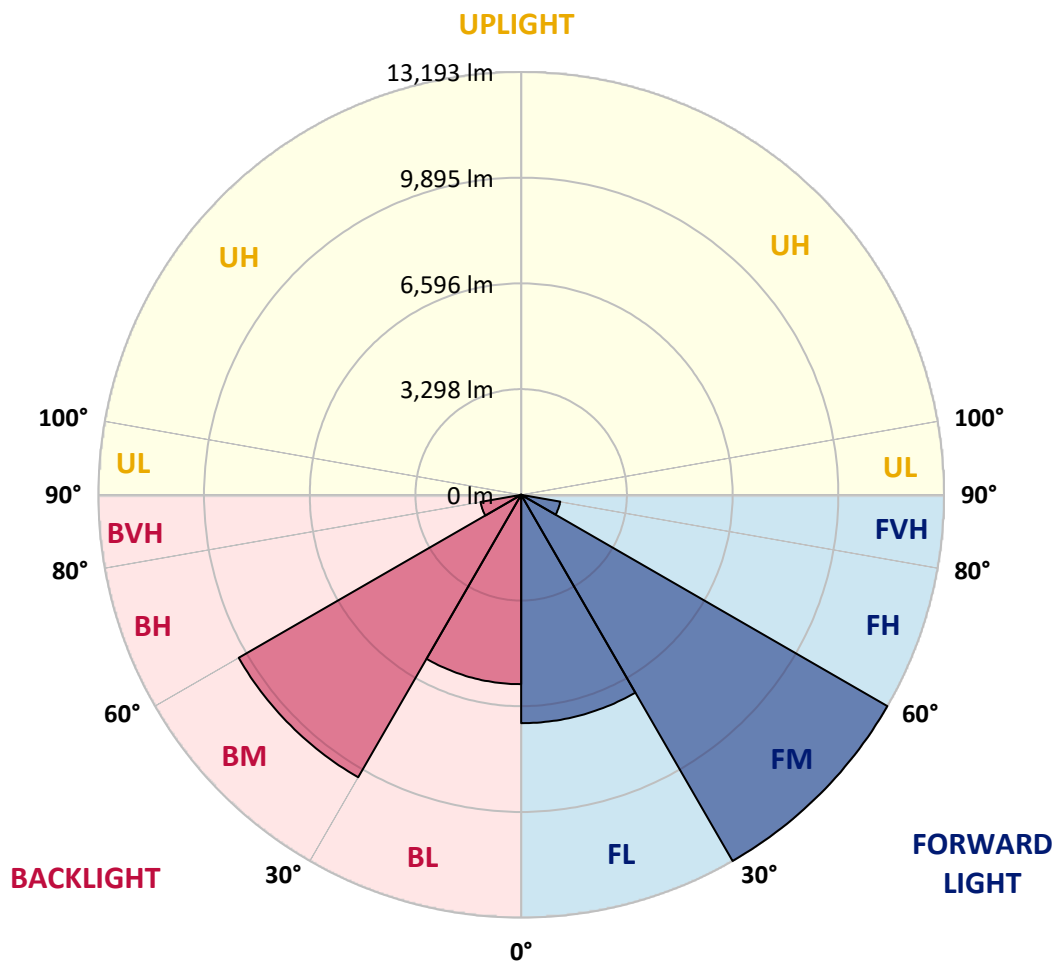
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7125.5	18.3			
FM	(30°-60°)	13192.8	33.8			
FH	(60°-80°)	1237.1	3.2			G1/1800
FVH	(80°-90°)	29.0	0.1			G1/100
BL	(0°-30°)	5908.3	15.1	B5		
BM	(30°-60°)	10175.6	26.1	B5		
BH	(60°-80°)	1288.7	3.3	B3/2500		G3/2500
BVH	(80°-90°)	39.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1
1°	15737.9	15742.7	15750.7	15761.4	15774.6	15789.5	15805.8	15823.1	15841.0	15859.1	15882.9
3°	15681.3	15683.9	15689.9	15699.4	15713.1	15730.8	15752.0	15775.9	15821.0	15867.2	15932.4
5°	15709.6	15727.1	15722.8	15713.2	15701.6	15687.8	15708.6	15751.1	15803.6	15889.4	15992.5
7°	15877.3	15859.1	15833.0	15793.1	15742.0	15704.3	15691.4	15720.6	15779.6	15887.4	15995.0
9°	16119.7	16093.7	16026.3	15938.9	15821.9	15738.0	15683.7	15697.2	15785.8	15906.6	16012.2
11°	16405.6	16368.4	16276.9	16136.7	15959.2	15788.4	15689.8	15696.7	15800.0	15928.8	15999.2
13°	16741.9	16700.8	16578.6	16369.4	16122.2	15887.6	15717.8	15686.8	15793.3	15906.6	15925.4
15°	17176.2	17114.9	16949.3	16648.5	16314.8	16004.6	15768.3	15685.8	15798.5	15863.1	15824.0
17°	17646.9	17563.1	17359.1	16978.9	16529.8	16124.6	15827.9	15696.4	15799.7	15817.7	15697.8
19.5°	18364.1	18226.5	17942.9	17439.5	16863.7	16295.0	15879.9	15655.8	15732.4	15687.4	15410.5
22.5°	19380.2	19181.2	18772.1	18111.4	17390.3	16577.7	15906.6	15593.7	15670.6	15859.1	15144.1
25.5°	20410.5	20208.0	19716.8	18950.0	18007.1	16975.0	15990.8	15471.9	15296.9	15091.5	14624.9
29°	20807.4	20697.4	20398.7	19941.6	18728.9	17272.0	15963.8	15300.0	14887.7	14482.4	14047.4
33°	18693.4	18870.5	19362.2	20121.1	19282.7	17570.0	15976.1	15216.5	14431.2	13790.5	13342.2
37.5°	13575.3	14028.1	15316.0	17208.6	18340.5	17786.5	16148.3	15178.0	13977.7	13184.4	12660.6
42.5°	9822.9	10109.6	10960.5	12132.3	14448.6	16556.2	16384.9	15165.0	13413.2	12796.6	12182.3
47.5°	8663.4	8595.5	8744.4	8898.9	10079.9	13115.2	15900.0	14861.0	12645.7	12176.4	11837.8
55°	2417.1	2922.8	3992.5	5053.2	6485.0	7519.6	11487.6	11578.1	9811.0	10097.7	9670.3
65°	438.4	425.2	883.2	876.4	1300.0	2173.3	2911.1	3088.5	2325.2	1388.8	2402.2
75°	53.5	78.1	111.7	94.0	97.2	85.4	203.3	185.9	261.2	309.1	381.2
85°	20.2	46.5	55.8	49.4	49.6	53.1	61.8	66.7	79.3	69.7	83.7
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1
1°	15905.7	15926.6	15944.8	15959.8	15970.9	15978.1	15981.2	15980.3	15981.2	15978.1	15970.9
3°	15996.1	16055.9	16111.2	16160.3	16201.8	16234.3	16242.5	16237.9	16242.5	16234.3	16201.8
5°	16081.3	16167.6	16225.3	16226.2	16230.7	16238.8	16248.0	16246.0	16248.0	16238.8	16230.7
7°	16101.1	16158.9	16166.5	16141.2	16090.2	16059.3	16041.4	16024.8	16041.4	16059.3	16090.2
9°	16095.4	16060.3	15972.5	15895.8	15789.8	15712.6	15649.6	15619.7	15649.6	15712.6	15789.8
11°	15992.1	15871.1	15691.1	15497.2	15341.2	15185.2	15069.1	14992.5	15069.1	15185.2	15341.2
13°	15819.9	15580.0	15279.4	15028.0	14820.2	14632.0	14482.0	14406.6	14482.0	14632.0	14820.2
15°	15601.2	15239.9	14886.6	14597.6	14354.1	14223.7	14120.7	14067.2	14120.7	14223.7	14354.1
17°	15333.8	14923.4	14566.6	14255.7	14063.0	13874.6	13739.6	13751.1	13739.6	13874.6	14063.0
19.5°	14972.2	14596.4	14242.9	13944.4	13631.0	13129.4	12793.0	12674.4	12793.0	13129.4	13631.0
22.5°	14612.1	14210.2	13847.3	13352.5	12659.0	12475.4	12391.2	12359.2	12391.2	12475.4	12659.0
25.5°	14199.6	13737.0	13267.0	12550.6	12273.9	12097.2	12035.0	12039.0	12035.0	12097.2	12273.9
29°	13546.9	13010.3	12210.7	11964.1	11808.5	11598.3	11546.9	11552.2	11546.9	11598.3	11808.5
33°	12772.3	12070.0	11420.2	11303.2	11111.5	11003.1	10990.1	10996.6	10990.1	11003.1	11111.5
37.5°	11990.7	11217.3	10753.8	10494.2	10399.7	10430.9	10438.4	10478.5	10438.4	10430.9	10399.7
42.5°	11323.6	10595.0	9991.8	9717.6	9725.6	9711.4	9721.2	9822.9	9721.2	9711.4	9725.6
47.5°	10862.4	10127.5	9198.6	8914.8	8585.5	7675.8	7107.2	6996.8	7107.2	7675.8	8585.5
55°	9178.7	9056.2	7589.6	5990.4	4224.2	2793.3	1920.7	1532.3	1920.7	2793.3	4224.2
65°	3248.6	2783.4	1654.9	1225.8	1316.4	1131.3	1000.8	994.9	1000.8	1131.3	1316.4
75°	370.3	323.4	283.0	236.5	288.7	224.5	144.6	119.2	144.6	224.5	288.7
85°	75.8	75.7	76.3	66.7	51.9	46.7	26.6	12.1	26.6	46.7	51.9
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1	15857.1
1°	15959.8	15944.8	15926.6	15905.7	15882.9	15859.1	15841.0	15823.1	15805.8	15789.5	15774.6
3°	16160.3	16111.2	16055.9	15996.1	15932.4	15867.2	15821.0	15775.9	15752.0	15730.8	15713.1
5°	16226.2	16225.3	16167.6	16081.3	15992.5	15889.4	15803.6	15751.1	15708.6	15687.8	15701.6
7°	16141.2	16166.5	16158.9	16101.1	15995.0	15887.4	15779.6	15720.6	15691.4	15704.3	15742.0
9°	15895.8	15972.5	16060.3	16095.4	16012.2	15906.6	15785.8	15697.2	15683.7	15738.0	15821.9
11°	15497.2	15691.1	15871.1	15992.1	15999.2	15928.8	15800.0	15696.7	15689.8	15788.4	15959.2
13°	15028.0	15279.4	15580.0	15819.9	15925.4	15906.6	15793.3	15686.8	15717.8	15887.6	16122.2
15°	14597.6	14886.6	15239.9	15601.2	15824.0	15863.1	15798.5	15685.8	15768.3	16004.6	16314.8
17°	14255.7	14566.6	14923.4	15333.8	15697.8	15817.7	15799.7	15696.4	15827.9	16124.6	16529.8
19.5°	13944.4	14242.9	14596.4	14972.2	15410.5	15687.4	15732.4	15655.8	15879.9	16295.0	16863.7
22.5°	13352.5	13847.3	14210.2	14612.1	15144.1	15859.1	15670.6	15593.7	15906.6	16577.7	17390.3
25.5°	12550.6	13267.0	13737.0	14199.6	14624.9	15091.5	15296.9	15471.9	15990.8	16975.0	18007.1
29°	11964.1	12210.7	13010.3	13546.9	14047.4	14482.4	14887.7	15300.0	15963.8	17272.0	18728.9
33°	11303.2	11420.2	12070.0	12772.3	13342.2	13790.5	14431.2	15216.5	15976.1	17570.0	19282.7
37.5°	10494.2	10753.8	11217.3	11990.7	12660.6	13184.4	13977.7	15178.0	16148.3	17786.5	18340.5
42.5°	9717.6	9991.8	10595.0	11323.6	12182.3	12796.6	13413.2	15165.0	16384.9	16556.2	14448.6
47.5°	8914.8	9198.6	10127.5	10862.4	11837.8	12176.4	12645.7	14861.0	15900.0	13115.2	10079.9
55°	5990.4	7589.6	9056.2	9178.7	9670.3	10097.7	9811.0	11578.1	11487.6	7519.6	6485.0
65°	1225.8	1654.9	2783.4	3248.6	2402.2	1388.8	2325.2	3088.5	2911.1	2173.3	1300.0
75°	236.5	283.0	323.4	370.3	381.2	309.1	261.2	185.9	203.3	85.4	97.2
85°	66.7	76.3	75.7	75.8	83.7	69.7	79.3	66.7	61.8	53.1	49.6
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):

	330°	340°	350°	360°
0°	15857.1	15857.1	15857.1	15857.1
1°	15761.4	15750.7	15742.7	15737.9
3°	15699.4	15689.9	15683.9	15681.3
5°	15713.2	15722.8	15727.1	15709.6
7°	15793.1	15833.0	15859.1	15877.3
9°	15938.9	16026.3	16093.7	16119.7
11°	16136.7	16276.9	16368.4	16405.6
13°	16369.4	16578.6	16700.8	16741.9
15°	16648.5	16949.3	17114.9	17176.2
17°	16978.9	17359.1	17563.1	17646.9
19.5°	17439.5	17942.9	18226.5	18364.1
22.5°	18111.4	18772.1	19181.2	19380.2
25.5°	18950.0	19716.8	20208.0	20410.5
29°	19941.6	20398.7	20697.4	20807.4
33°	20121.1	19362.2	18870.5	18693.4
37.5°	17208.6	15316.0	14028.1	13575.3
42.5°	12132.3	10960.5	10109.6	9822.9
47.5°	8898.9	8744.4	8595.5	8663.4
55°	5053.2	3992.5	2922.8	2417.1
65°	876.4	883.2	425.2	438.4
75°	94.0	111.7	78.1	53.5
85°	49.4	55.8	46.5	20.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)