

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: P232925

Luminaire Tested: **NFFLD-C55-D-UNV-66**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (2) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20162.1 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.67 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 145
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

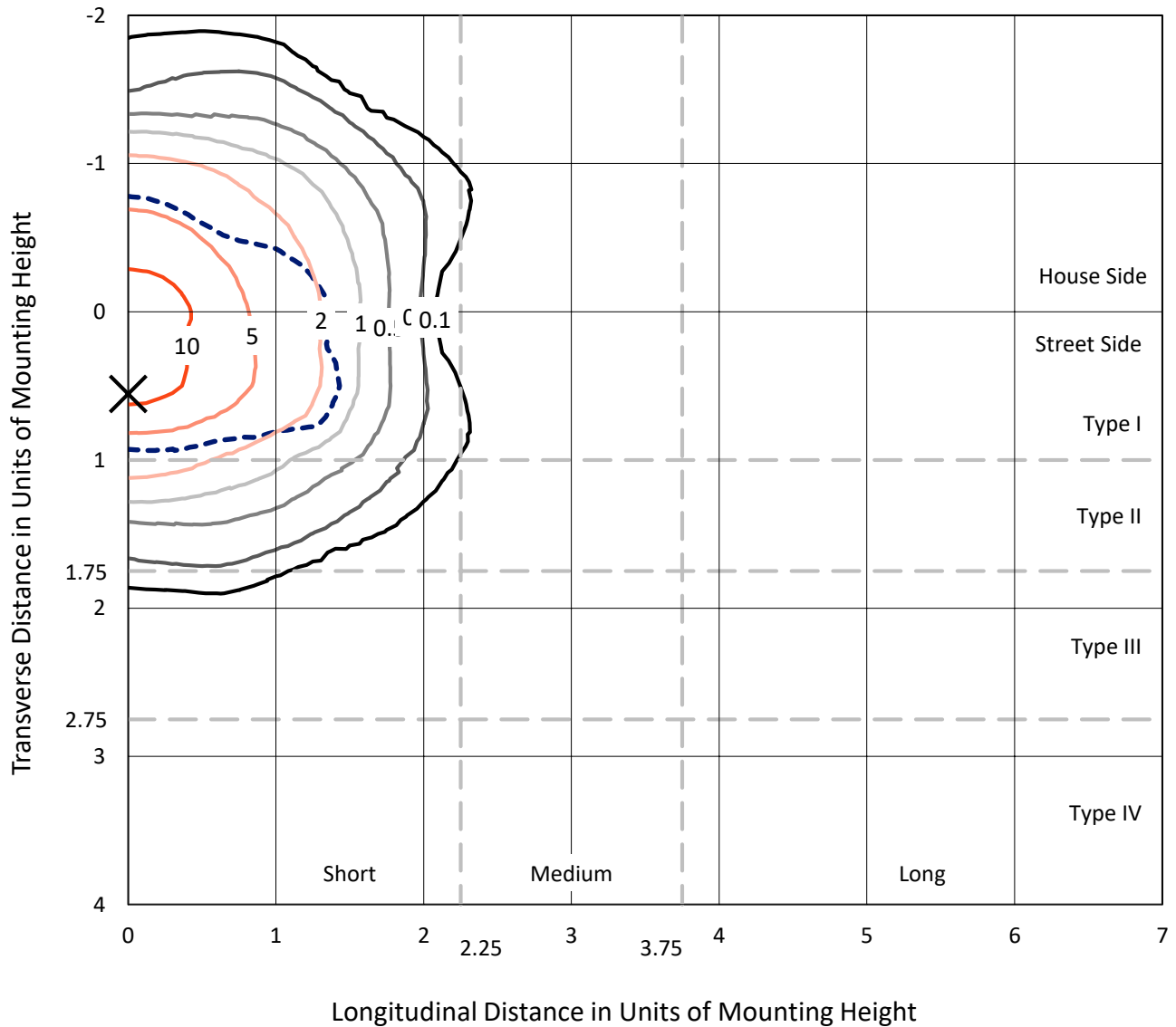


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

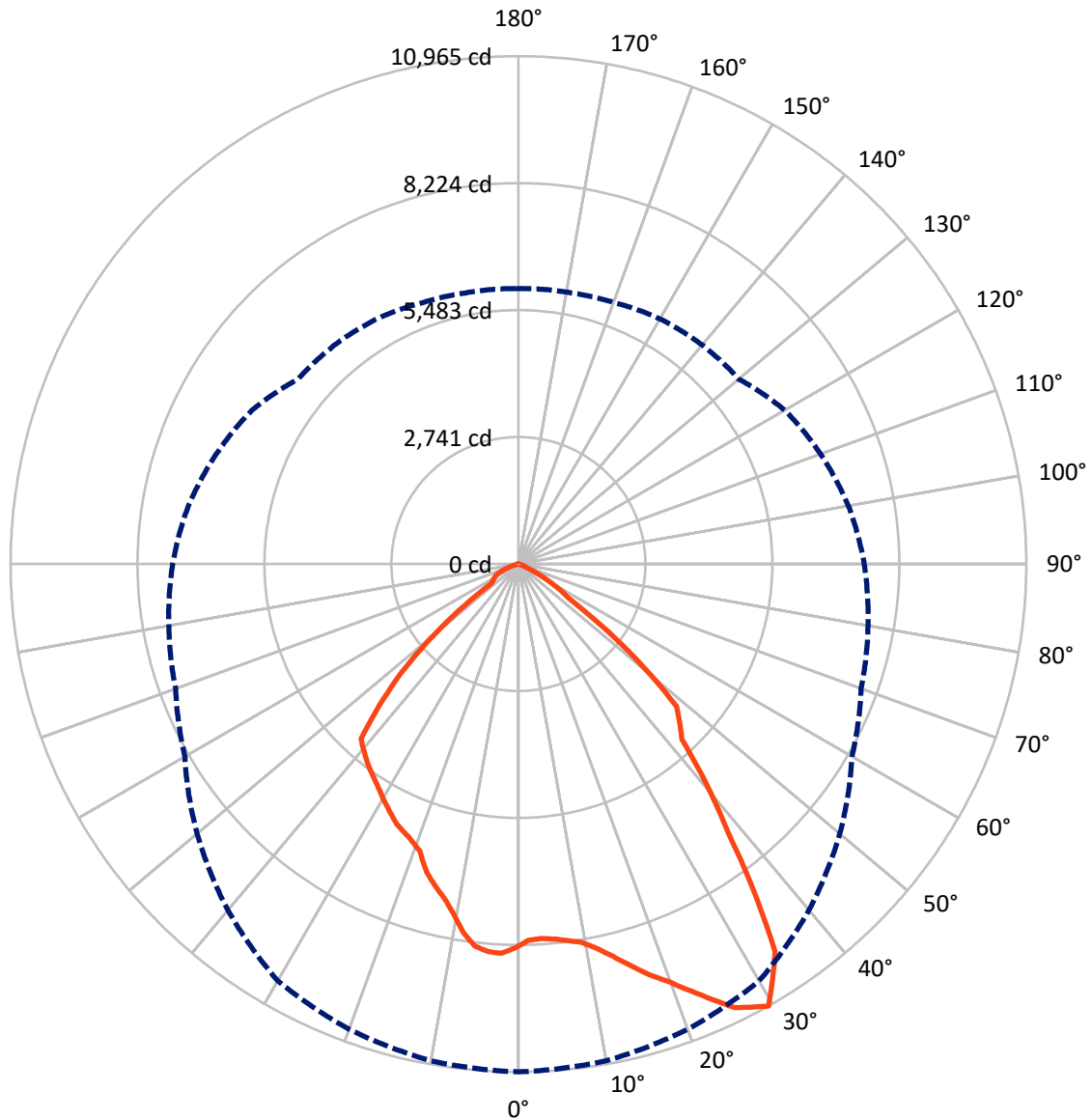


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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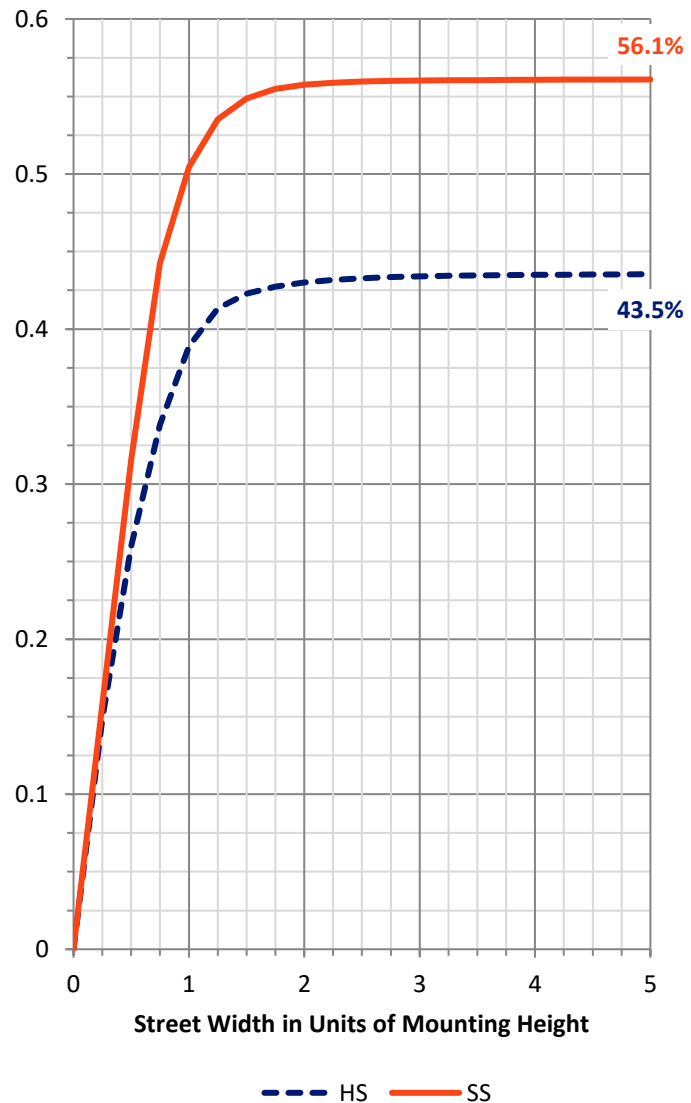
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8854.8	0.0	8854.8
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	11307.3	0.0	11307.3
	% Fixture	56.1	0.0	56.1
Total	Lumens	20162.1	0.0	20162.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.7	3.9
10°-20°	2281.4	11.3
20°-30°	3674.9	18.2
30°-40°	4550.1	22.6
40°-50°	4453.4	22.1
50°-60°	3103.7	15.4
60°-70°	1298.6	6.4
70°-80°	274.0	1.4
80°-90°	33.6	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°	20162.1	100.0
0°-180°	20162.1	100.0



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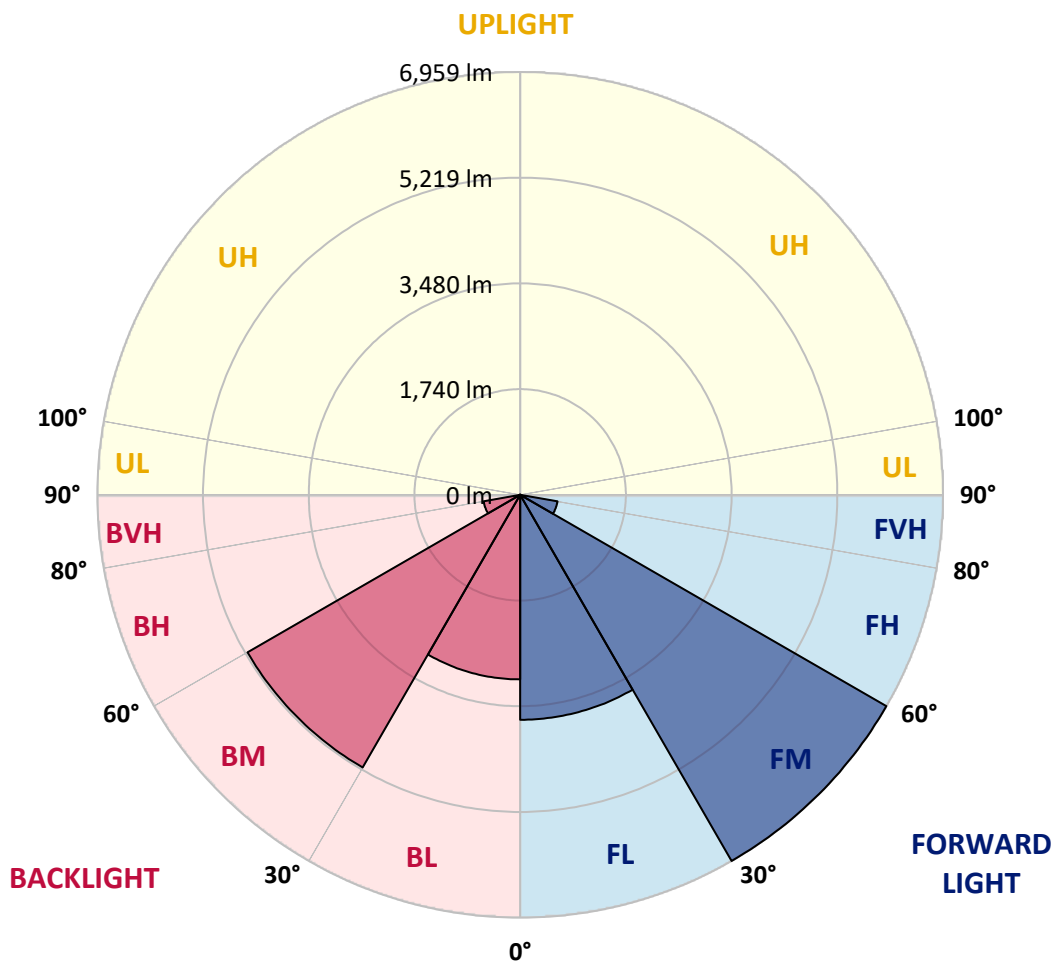
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3702.6	18.4			
FM	(30°-60°)	6959.1	34.5			
FH	(60°-80°)	623.9	3.1			G0/660
FVH	(80°-90°)	12.5	0.1			G1/100
BL	(0°-30°)	3036.8	15.1	B4/5000		
BM	(30°-60°)	5181.7	25.7	B4/8500		
BH	(60°-80°)	611.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.2	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°	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1
1°	8127.1	8130.7	8136.6	8144.3	8153.5	8164.0	8175.4	8187.4	8199.7	8212.1	8225.4
3°	8099.1	8106.0	8113.8	8117.3	8122.8	8130.4	8139.8	8150.5	8187.7	8227.1	8264.9
5°	8135.1	8129.1	8125.7	8121.6	8117.0	8114.6	8126.7	8146.3	8172.9	8235.1	8298.3
7°	8200.1	8194.9	8177.3	8157.3	8134.7	8118.7	8111.1	8124.6	8160.8	8241.1	8306.7
9°	8281.1	8277.4	8249.6	8216.4	8168.0	8125.9	8092.7	8091.7	8146.0	8237.1	8293.5
11°	8464.1	8428.8	8379.0	8303.4	8209.9	8141.6	8085.7	8083.6	8138.5	8235.1	8265.4
13°	8707.1	8662.0	8587.2	8444.9	8294.6	8171.6	8101.8	8080.7	8143.7	8219.1	8234.6
15°	8983.1	8926.1	8837.0	8643.5	8419.1	8229.7	8124.9	8098.7	8167.7	8233.1	8184.1
17°	9279.1	9238.6	9098.3	8856.8	8588.0	8324.7	8147.2	8127.8	8198.8	8277.1	8121.2
19.5°	9612.1	9558.1	9406.5	9153.0	8811.1	8490.0	8200.0	8139.4	8193.8	8352.1	8012.1
22.5°	10110.1	10010.3	9783.9	9468.1	9107.2	8665.4	8260.5	8075.0	8065.0	8024.1	7780.0
25.5°	10655.1	10528.1	10253.2	9843.7	9406.5	8896.1	8305.4	7946.7	7902.5	7791.1	7542.8
29°	10965.1	10891.4	10688.7	10393.1	9757.7	9057.4	8316.1	7874.9	7664.1	7466.1	7235.0
33°	10041.1	10148.7	10321.9	10583.5	10041.7	9134.1	8344.8	7879.2	7383.1	6984.1	6774.4
37.5°	7341.1	7603.2	8283.4	9317.7	9724.3	9298.2	8394.6	7911.4	7160.4	6736.1	6414.9
42.5°	5171.1	5385.4	5869.4	6589.5	7779.8	8786.6	8527.9	7882.7	6903.2	6556.1	6202.9
47.5°	4591.1	4594.8	4668.5	4720.8	5391.5	7053.2	8416.8	7707.1	6461.9	6170.1	5962.4
55°	1355.0	1660.1	2180.0	2725.1	3498.9	3953.9	6093.5	6133.9	5113.8	5282.1	4979.2
65°	211.0	234.9	477.9	499.9	708.3	1126.3	1417.6	1616.9	987.3	316.0	993.6
75°	28.0	22.1	63.6	55.4	48.1	34.9	80.5	89.5	101.3	158.0	155.5
85°	0.0	21.9	28.9	27.8	19.9	21.2	22.5	22.6	35.5	24.0	31.6
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°	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1
1°	8238.3	8250.4	8261.4	8271.0	8279.0	8284.9	8288.7	8290.1	8288.7	8284.9	8279.0
3°	8300.7	8327.7	8352.1	8373.3	8390.8	8403.8	8412.2	8415.1	8412.2	8403.8	8390.8
5°	8338.4	8376.4	8402.7	8399.0	8394.0	8392.3	8393.7	8391.1	8393.7	8392.3	8394.0
7°	8356.6	8372.7	8364.3	8343.6	8307.5	8289.7	8289.4	8302.1	8289.4	8289.7	8307.5
9°	8340.8	8306.6	8257.1	8208.3	8131.9	8069.5	8039.8	8046.1	8039.8	8069.5	8131.9
11°	8253.1	8179.1	8080.6	7960.2	7867.7	7758.9	7682.1	7681.1	7682.1	7758.9	7867.7
13°	8156.9	8008.0	7827.5	7682.4	7569.3	7482.8	7402.8	7389.1	7402.8	7482.8	7569.3
15°	8040.9	7816.3	7611.2	7462.4	7344.3	7261.0	7185.9	7178.1	7185.9	7261.0	7344.3
17°	7897.9	7634.2	7448.6	7299.1	7170.8	7049.2	6953.8	6951.1	6953.8	7049.2	7170.8
19.5°	7738.8	7482.3	7292.1	7101.0	6908.4	6710.8	6572.5	6546.1	6572.5	6710.8	6908.4
22.5°	7544.8	7322.4	7073.6	6776.9	6492.2	6421.4	6362.9	6347.1	6362.9	6421.4	6492.2
25.5°	7297.5	7050.4	6748.7	6413.6	6324.6	6256.6	6209.3	6200.1	6209.3	6256.6	6324.6
29°	6941.5	6641.0	6211.3	6172.2	6111.8	6009.3	5959.9	5948.1	5959.9	6009.3	6111.8
33°	6497.1	6122.2	5853.5	5835.8	5762.3	5684.6	5679.8	5666.1	5679.8	5684.6	5762.3
37.5°	6094.7	5702.1	5510.6	5398.1	5355.9	5382.8	5396.4	5402.1	5396.4	5382.8	5355.9
42.5°	5749.2	5399.6	5094.1	4970.3	4996.1	5018.5	5033.8	5078.1	5033.8	5018.5	4996.1
47.5°	5487.2	5124.1	4654.4	4570.7	4418.0	3908.8	3569.8	3484.0	3569.8	3908.8	4418.0
55°	4663.2	4547.0	3920.6	3014.3	2075.3	1344.7	918.6	710.0	918.6	1344.7	2075.3
65°	1622.5	1207.4	745.1	564.3	667.3	573.3	515.6	507.0	515.6	573.3	667.3
75°	178.5	137.3	132.7	128.2	157.9	113.0	91.0	65.0	91.0	113.0	157.9
85°	24.0	24.5	27.3	30.2	26.0	23.4	14.9	0.0	14.9	23.4	26.0
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°	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1	8208.1
1°	8271.0	8261.4	8250.4	8238.3	8225.4	8212.1	8199.7	8187.4	8175.4	8164.0	8153.5
3°	8373.3	8352.1	8327.7	8300.7	8264.9	8227.1	8187.7	8150.5	8139.8	8130.4	8122.8
5°	8399.0	8402.7	8376.4	8338.4	8298.3	8235.1	8172.9	8146.3	8126.7	8114.6	8117.0
7°	8343.6	8364.3	8372.7	8356.6	8306.7	8241.1	8160.8	8124.6	8111.1	8118.7	8134.7
9°	8208.3	8257.1	8306.6	8340.8	8293.5	8237.1	8146.0	8091.7	8092.7	8125.9	8168.0
11°	7960.2	8080.6	8179.1	8253.1	8265.4	8235.1	8138.5	8083.6	8085.7	8141.6	8209.9
13°	7682.4	7827.5	8008.0	8156.9	8234.6	8219.1	8143.7	8080.7	8101.8	8171.6	8294.6
15°	7462.4	7611.2	7816.3	8040.9	8184.1	8233.1	8167.7	8098.7	8124.9	8229.7	8419.1
17°	7299.1	7448.6	7634.2	7897.9	8121.2	8277.1	8198.8	8127.8	8147.2	8324.7	8588.0
19.5°	7101.0	7292.1	7482.3	7738.8	8012.1	8352.1	8193.8	8139.4	8200.0	8490.0	8811.1
22.5°	6776.9	7073.6	7322.4	7544.8	7780.0	8024.1	8065.0	8075.0	8260.5	8665.4	9107.2
25.5°	6413.6	6748.7	7050.4	7297.5	7542.8	7791.1	7902.5	7946.7	8305.4	8896.1	9406.5
29°	6172.2	6211.3	6641.0	6941.5	7235.0	7466.1	7664.1	7874.9	8316.1	9057.4	9757.7
33°	5835.8	5853.5	6122.2	6497.1	6774.4	6984.1	7383.1	7879.2	8344.8	9134.1	10041.7
37.5°	5398.1	5510.6	5702.1	6094.7	6414.9	6736.1	7160.4	7911.4	8394.6	9298.2	9724.3
42.5°	4970.3	5094.1	5399.6	5749.2	6202.9	6556.1	6903.2	7882.7	8527.9	8786.6	7779.8
47.5°	4570.7	4654.4	5124.1	5487.2	5962.4	6170.1	6461.9	7707.1	8416.8	7053.2	5391.5
55°	3014.3	3920.6	4547.0	4663.2	4979.2	5282.1	5113.8	6133.9	6093.5	3953.9	3498.9
65°	564.3	745.1	1207.4	1622.5	993.6	316.0	987.3	1616.9	1417.6	1126.3	708.3
75°	128.2	132.7	137.3	178.5	155.5	158.0	101.3	89.5	80.5	34.9	48.1
85°	30.2	27.3	24.5	24.0	31.6	24.0	35.5	22.6	22.5	21.2	19.9
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):

	330°	340°	350°	360°
0°	8208.1	8208.1	8208.1	8208.1
1°	8144.3	8136.6	8130.7	8127.1
3°	8117.3	8113.8	8106.0	8099.1
5°	8121.6	8125.7	8129.1	8135.1
7°	8157.3	8177.3	8194.9	8200.1
9°	8216.4	8249.6	8277.4	8281.1
11°	8303.4	8379.0	8428.8	8464.1
13°	8444.9	8587.2	8662.0	8707.1
15°	8643.5	8837.0	8926.1	8983.1
17°	8856.8	9098.3	9238.6	9279.1
19.5°	9153.0	9406.5	9558.1	9612.1
22.5°	9468.1	9783.9	10010.3	10110.1
25.5°	9843.7	10253.2	10528.1	10655.1
29°	10393.1	10688.7	10891.4	10965.1
33°	10583.5	10321.9	10148.7	10041.1
37.5°	9317.7	8283.4	7603.2	7341.1
42.5°	6589.5	5869.4	5385.4	5171.1
47.5°	4720.8	4668.5	4594.8	4591.1
55°	2725.1	2180.0	1660.1	1355.0
65°	499.9	477.9	234.9	211.0
75°	55.4	63.6	22.1	28.0
85°	27.8	28.9	21.9	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)