

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: P232912

Luminaire Tested: **NFFLD-L-C175-D-UNV-66-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C175-D-UNV-66-7060
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (4) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47104.4 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

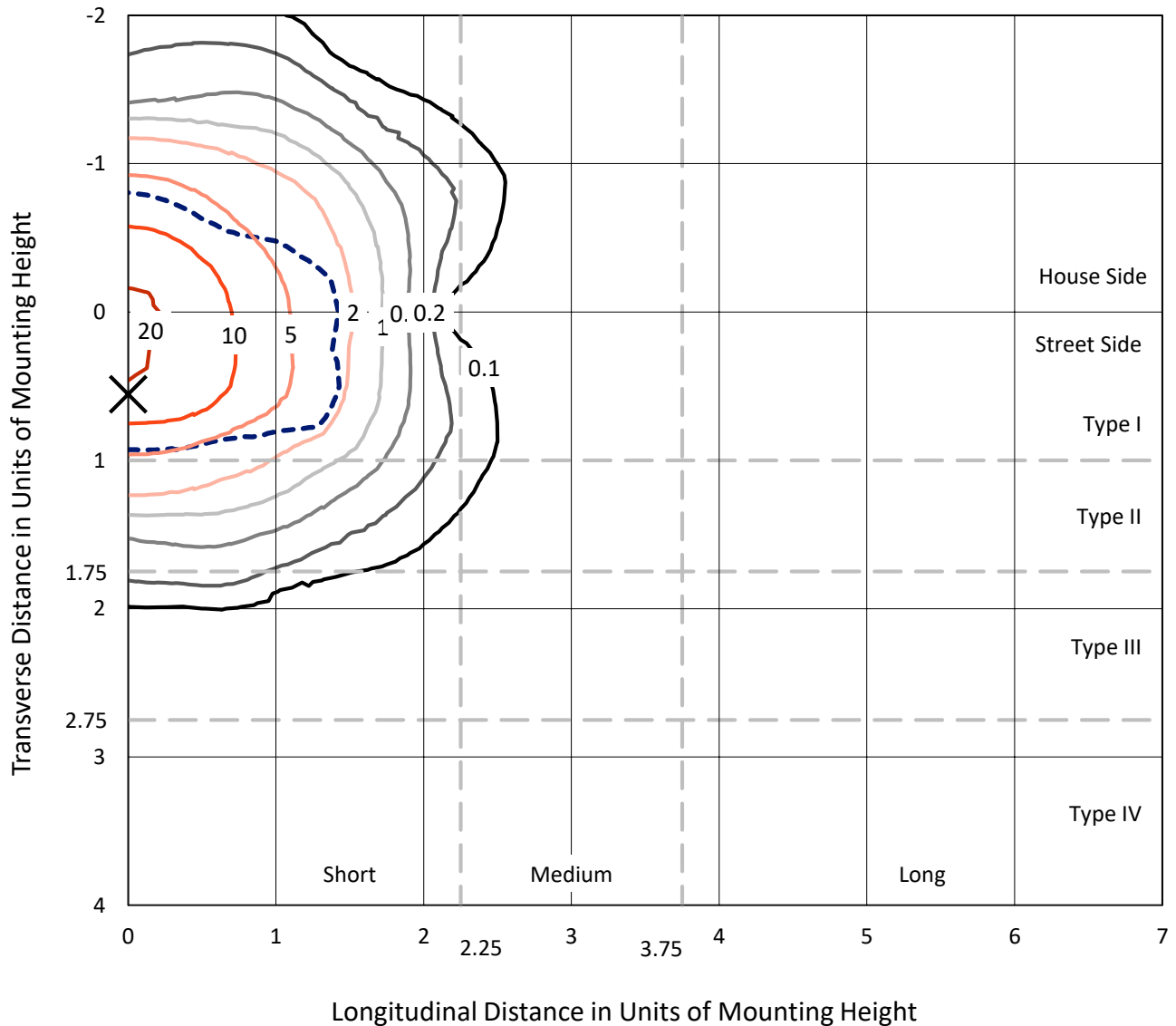
Input Watts (W): 370.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

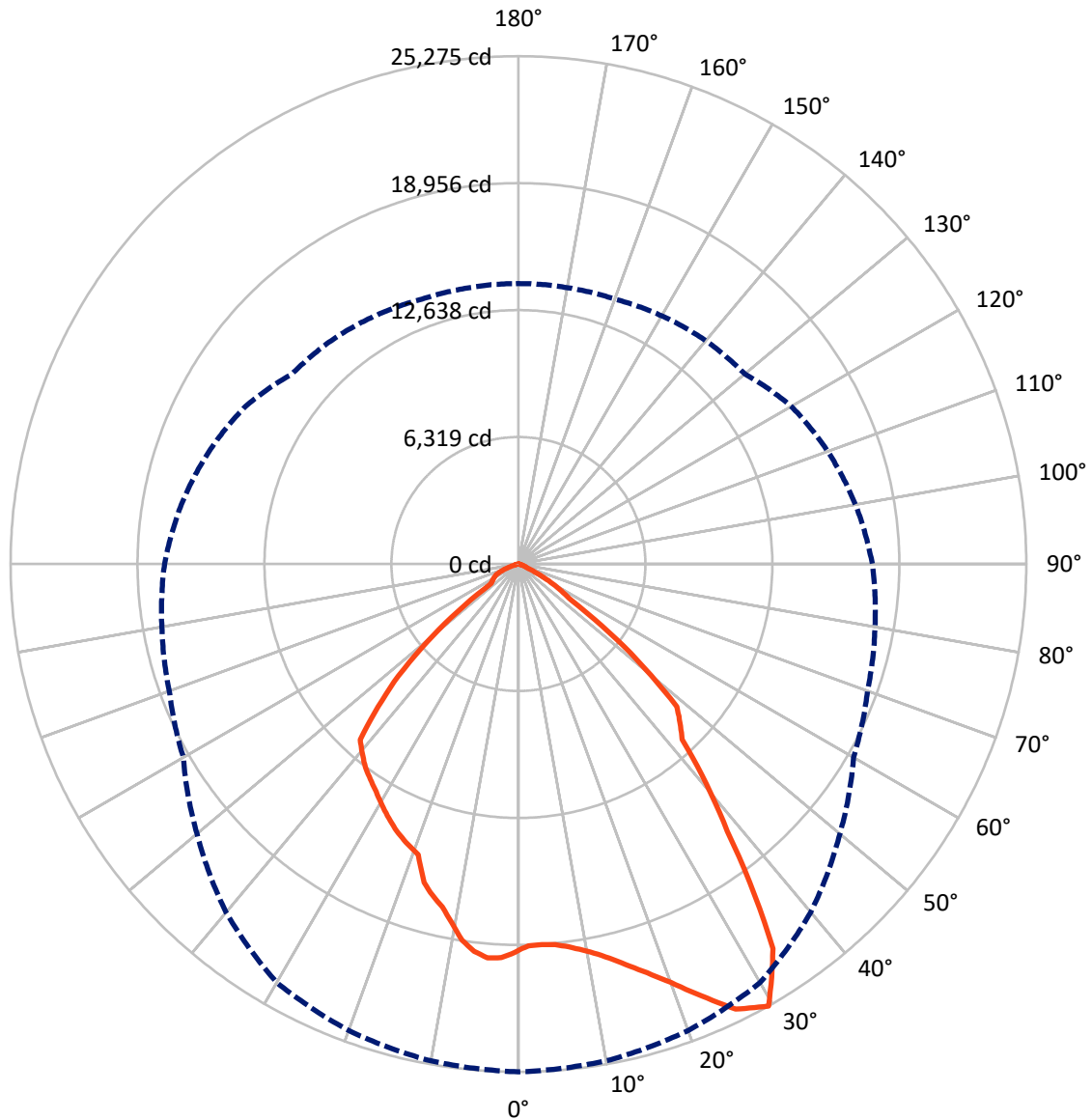
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.3 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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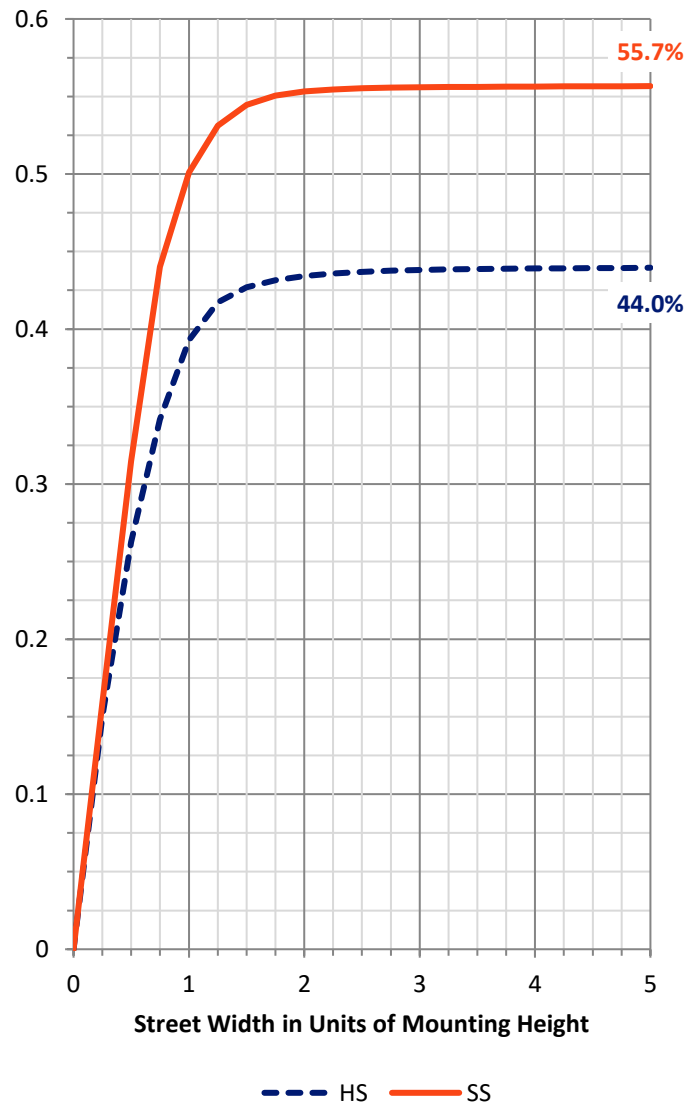
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20886.8	0.0	20886.8
	% Fixture	44.3	0.0	44.3
Street Side	Lumens	26217.6	0.0	26217.6
	% Fixture	55.7	0.0	55.7
Total	Lumens	47104.4	0.0	47104.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1837.8	3.9
10°-20°	5343.4	11.3
20°-30°	8577.7	18.2
30°-40°	10589.8	22.5
40°-50°	10379.2	22.0
50°-60°	7269.1	15.4
60°-70°	3043.6	6.5
70°-80°	644.2	1.4
80°-90°	86.4	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°	47104.4	100.0
0°-180°	47104.4	100.0



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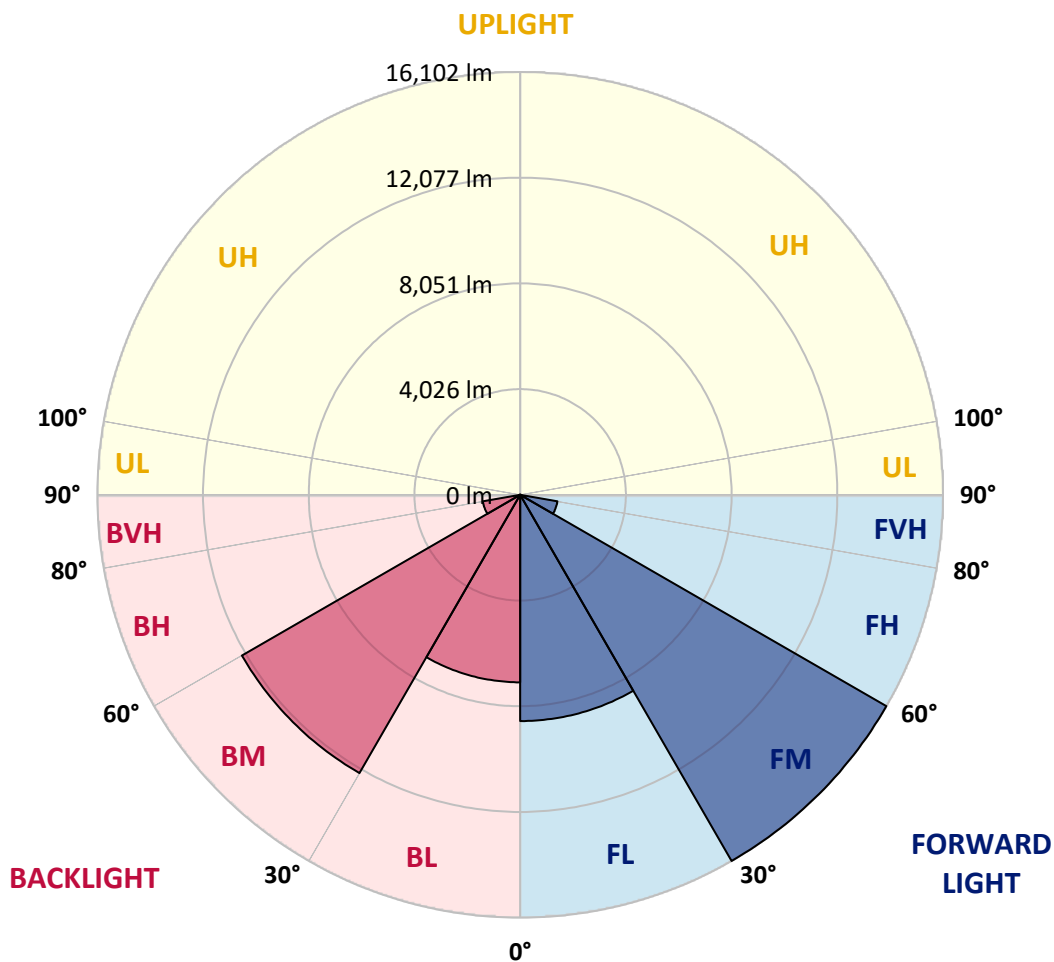
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8615.3	18.3			
FM	(30°-60°)	16102.1	34.2			
FH	(60°-80°)	1441.7	3.1			G1/1800
FVH	(80°-90°)	36.9	0.1			G1/100
BL	(0°-30°)	7140.8	15.2	B5		
BM	(30°-60°)	12237.0	26.0	B5		
BH	(60°-80°)	1445.5	3.1	B3/2500		G3/2500
BVH	(80°-90°)	45.7	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°	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7
1°	19015.7	19022.6	19033.3	19047.7	19065.3	19085.8	19108.4	19132.4	19157.1	19181.5	19208.0
3°	18973.1	18974.4	18979.9	18996.2	19014.9	19035.3	19056.9	19079.0	19145.4	19214.5	19298.7
5°	19032.2	19019.5	19019.4	19021.0	19019.3	19008.6	19026.5	19065.2	19122.1	19256.3	19372.9
7°	19208.7	19174.9	19151.1	19111.0	19060.2	19024.5	19012.7	19055.3	19144.2	19315.4	19452.1
9°	19484.2	19439.6	19385.5	19273.1	19135.3	19051.0	19002.4	19021.3	19129.6	19302.8	19439.5
11°	19807.2	19765.5	19676.1	19501.0	19291.4	19103.4	19004.2	19002.3	19111.7	19285.4	19364.0
13°	20247.6	20198.1	20044.3	19762.9	19485.7	19221.0	19019.9	18983.7	19111.5	19264.0	19264.2
15°	20766.5	20701.9	20485.2	20107.9	19719.8	19349.0	19065.5	18986.6	19156.4	19224.3	19119.0
17°	21329.2	21270.5	20972.8	20526.7	19998.4	19483.1	19124.6	19003.1	19166.0	19141.8	18916.2
19.5°	22147.8	22048.0	21662.4	21086.4	20386.6	19703.4	19190.4	18980.8	19278.9	19472.6	18827.5
22.5°	23343.9	23127.7	22637.2	21884.8	20955.2	20055.3	19254.8	18872.7	18931.8	18948.7	18259.4
25.5°	24643.6	24339.6	23755.3	22834.0	21748.3	20533.7	19256.2	18652.6	18505.2	18225.2	17660.7
29°	25275.1	25110.6	24706.9	24053.3	22631.6	20884.2	19253.9	18486.0	18017.5	17612.1	17032.9
33°	22954.9	23128.4	23677.2	24498.4	23326.2	21133.8	19250.8	18340.4	17380.8	16496.6	16046.9
37.5°	16883.7	17325.8	18904.9	21298.1	22411.8	21462.8	19399.0	18289.3	16801.2	15855.5	15148.2
42.5°	11943.5	12360.7	13421.2	15092.2	17777.0	20167.3	19773.5	18328.9	16231.1	15493.7	14676.6
47.5°	10609.8	10563.9	10671.7	10861.7	12322.4	16063.5	19442.2	18017.4	15223.5	14686.7	14246.3
55°	3178.6	3783.1	5051.4	6241.8	8004.8	9123.8	14163.8	14137.5	12226.7	12864.0	12096.3
65°	526.7	546.6	1099.7	1105.8	1636.5	2618.0	3222.8	3488.7	2339.4	712.0	2368.6
75°	78.6	93.8	137.6	110.9	134.9	112.8	185.2	235.5	257.6	401.6	387.0
85°	39.8	68.0	72.3	62.8	71.2	68.7	78.9	88.8	93.9	99.9	98.6
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°	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7
1°	19233.0	19256.1	19276.9	19294.8	19309.4	19320.0	19326.1	19327.1	19326.1	19320.0	19309.4
3°	19377.1	19430.9	19480.5	19525.0	19562.9	19592.7	19608.0	19610.3	19608.0	19592.7	19562.9
5°	19465.0	19550.5	19607.7	19614.0	19621.7	19630.2	19640.8	19656.8	19640.8	19630.2	19621.7
7°	19550.2	19586.7	19576.2	19535.9	19457.8	19406.6	19380.0	19397.9	19380.0	19406.6	19457.8
9°	19528.9	19482.1	19362.1	19236.9	19090.2	18972.1	18906.7	18937.1	18906.7	18972.1	19090.2
11°	19350.4	19209.1	18973.2	18735.6	18527.0	18295.9	18162.8	18162.1	18162.8	18295.9	18527.0
13°	19136.1	18817.6	18456.4	18123.2	17841.1	17641.4	17493.1	17474.4	17493.1	17641.4	17841.1
15°	18844.5	18397.6	17974.3	17607.8	17319.7	17161.3	17056.9	17041.8	17056.9	17161.3	17319.7
17°	18464.6	17989.4	17569.8	17239.4	16991.9	16719.6	16547.8	16533.5	16547.8	16719.6	16991.9
19.5°	18065.0	17604.1	17193.3	16844.0	16432.9	15791.1	15409.8	15298.7	15409.8	15791.1	16432.9
22.5°	17672.3	17221.0	16735.3	16093.7	15252.2	15046.3	14957.7	14936.9	14957.7	15046.3	15252.2
25.5°	17170.3	16625.5	16090.3	15138.6	14857.7	14645.3	14550.3	14533.4	14550.3	14645.3	14857.7
29°	16383.9	15683.3	14707.7	14505.7	14260.8	14027.9	13963.8	13958.2	13963.8	14027.9	14260.8
33°	15377.0	14515.4	13764.6	13661.7	13409.9	13298.6	13279.8	13280.1	13279.8	13298.6	13409.9
37.5°	14401.1	13500.3	12961.2	12667.6	12564.9	12596.7	12616.2	12659.4	12616.2	12596.7	12564.9
42.5°	13595.0	12748.4	12039.3	11716.7	11730.3	11666.3	11674.5	11766.0	11674.5	11666.3	11730.3
47.5°	13002.9	12110.6	11039.2	10743.1	10308.7	9113.4	8319.1	8154.7	8319.1	9113.4	10308.7
55°	11119.2	10989.1	9224.6	7083.1	4913.2	3216.9	2213.9	1668.4	2213.9	3216.9	4913.2
65°	3714.5	2829.4	1736.1	1338.3	1555.2	1347.3	1220.4	1211.5	1220.4	1347.3	1555.2
75°	495.8	329.7	343.6	259.6	330.8	284.9	176.3	157.2	176.3	284.9	330.8
85°	77.2	73.8	74.8	66.1	60.1	65.4	45.0	43.7	45.0	65.4	60.1
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°	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7	19145.7
1°	19294.8	19276.9	19256.1	19233.0	19208.0	19181.5	19157.1	19132.4	19108.4	19085.8	19065.3
3°	19525.0	19480.5	19430.9	19377.1	19298.7	19214.5	19145.4	19079.0	19056.9	19035.3	19014.9
5°	19614.0	19607.7	19550.5	19465.0	19372.9	19256.3	19122.1	19065.2	19026.5	19008.6	19019.3
7°	19535.9	19576.2	19586.7	19550.2	19452.1	19315.4	19144.2	19055.3	19012.7	19024.5	19060.2
9°	19236.9	19362.1	19482.1	19528.9	19439.5	19302.8	19129.6	19021.3	19002.4	19051.0	19135.3
11°	18735.6	18973.2	19209.1	19350.4	19364.0	19285.4	19111.7	19002.3	19004.2	19103.4	19291.4
13°	18123.2	18456.4	18817.6	19136.1	19264.2	19264.0	19111.5	18983.7	19019.9	19221.0	19485.7
15°	17607.8	17974.3	18397.6	18844.5	19119.0	19224.3	19156.4	18986.6	19065.5	19349.0	19719.8
17°	17239.4	17569.8	17989.4	18464.6	18916.2	19141.8	19166.0	19003.1	19124.6	19483.1	19998.4
19.5°	16844.0	17193.3	17604.1	18065.0	18827.5	19472.6	19278.9	18980.8	19190.4	19703.4	20386.6
22.5°	16093.7	16735.3	17221.0	17672.3	18259.4	18948.7	18931.8	18872.7	19254.8	20055.3	20955.2
25.5°	15138.6	16090.3	16625.5	17170.3	17660.7	18225.2	18505.2	18652.6	19256.2	20533.7	21748.3
29°	14505.7	14707.7	15683.3	16383.9	17032.9	17612.1	18017.5	18486.0	19253.9	20884.2	22631.6
33°	13661.7	13764.6	14515.4	15377.0	16046.9	16496.6	17380.8	18340.4	19250.8	21133.8	23326.2
37.5°	12667.6	12961.2	13500.3	14401.1	15148.2	15855.5	16801.2	18289.3	19399.0	21462.8	22411.8
42.5°	11716.7	12039.3	12748.4	13595.0	14676.6	15493.7	16231.1	18328.9	19773.5	20167.3	17777.0
47.5°	10743.1	11039.2	12110.6	13002.9	14246.3	14686.7	15223.5	18017.4	19442.2	16063.5	12322.4
55°	7083.1	9224.6	10989.1	11119.2	12096.3	12864.0	12226.7	14137.5	14163.8	9123.8	8004.8
65°	1338.3	1736.1	2829.4	3714.5	2368.6	712.0	2339.4	3488.7	3222.8	2618.0	1636.5
75°	259.6	343.6	329.7	495.8	387.0	401.6	257.6	235.5	185.2	112.8	134.9
85°	66.1	74.8	73.8	77.2	98.6	99.9	93.9	88.8	78.9	68.7	71.2
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°	19145.7	19145.7	19145.7	19145.7
1°	19047.7	19033.3	19022.6	19015.7
3°	18996.2	18979.9	18974.4	18973.1
5°	19021.0	19019.4	19019.5	19032.2
7°	19111.0	19151.1	19174.9	19208.7
9°	19273.1	19385.5	19439.6	19484.2
11°	19501.0	19676.1	19765.5	19807.2
13°	19762.9	20044.3	20198.1	20247.6
15°	20107.9	20485.2	20701.9	20766.5
17°	20526.7	20972.8	21270.5	21329.2
19.5°	21086.4	21662.4	22048.0	22147.8
22.5°	21884.8	22637.2	23127.7	23343.9
25.5°	22834.0	23755.3	24339.6	24643.6
29°	24053.3	24706.9	25110.6	25275.1
33°	24498.4	23677.2	23128.4	22954.9
37.5°	21298.1	18904.9	17325.8	16883.7
42.5°	15092.2	13421.2	12360.7	11943.5
47.5°	10861.7	10671.7	10563.9	10609.8
55°	6241.8	5051.4	3783.1	3178.6
65°	1105.8	1099.7	546.6	526.7
75°	110.9	137.6	93.8	78.6
85°	62.8	72.3	68.0	39.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)