

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: P232898

Luminaire Tested: **NFFLD-L-C175-D-UNV-66-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232898
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-66-7030
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47255.6 lumens
Efficiency: N/A
Efficacy: 127.5 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

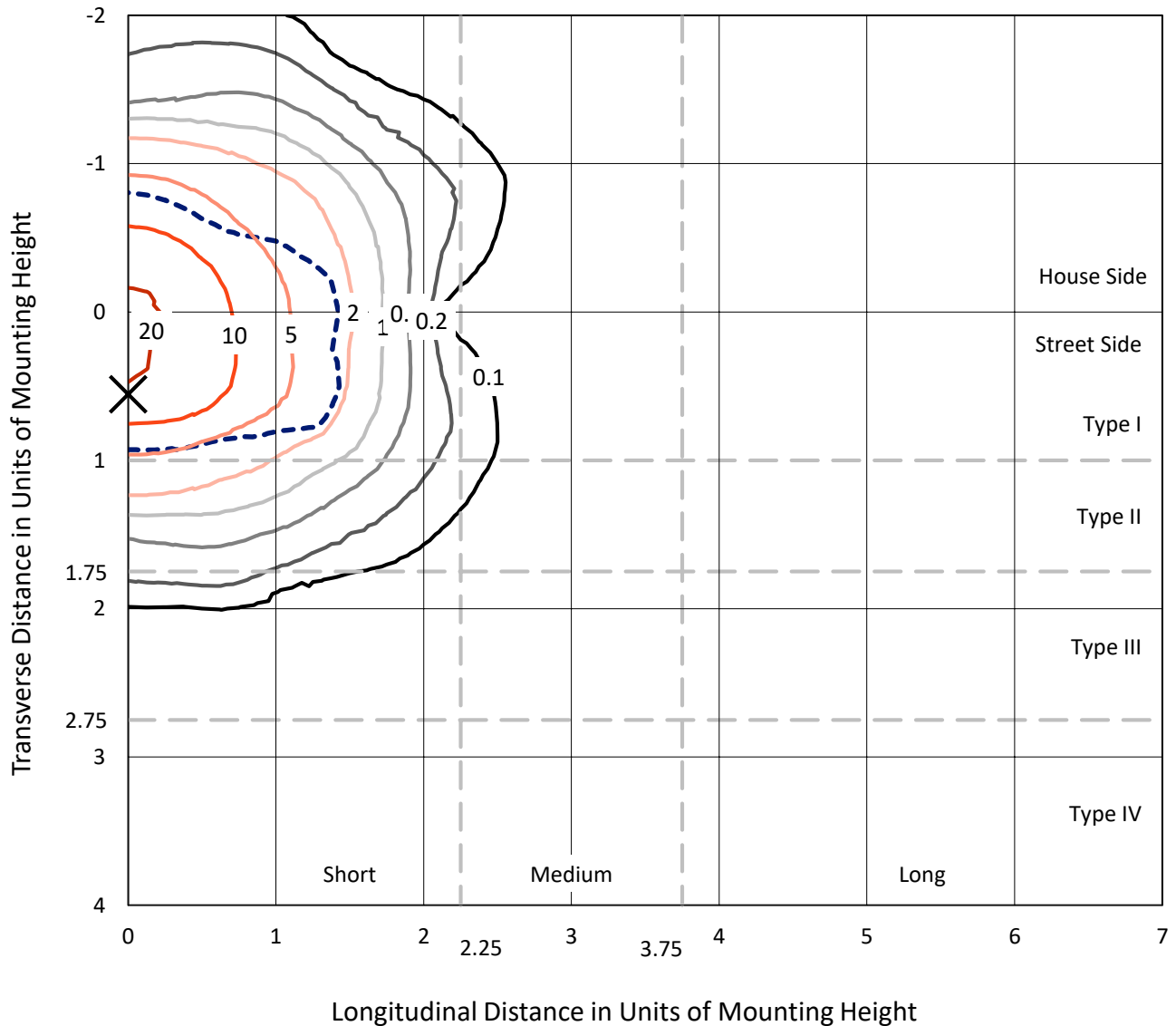
Input Watts (W): 370.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

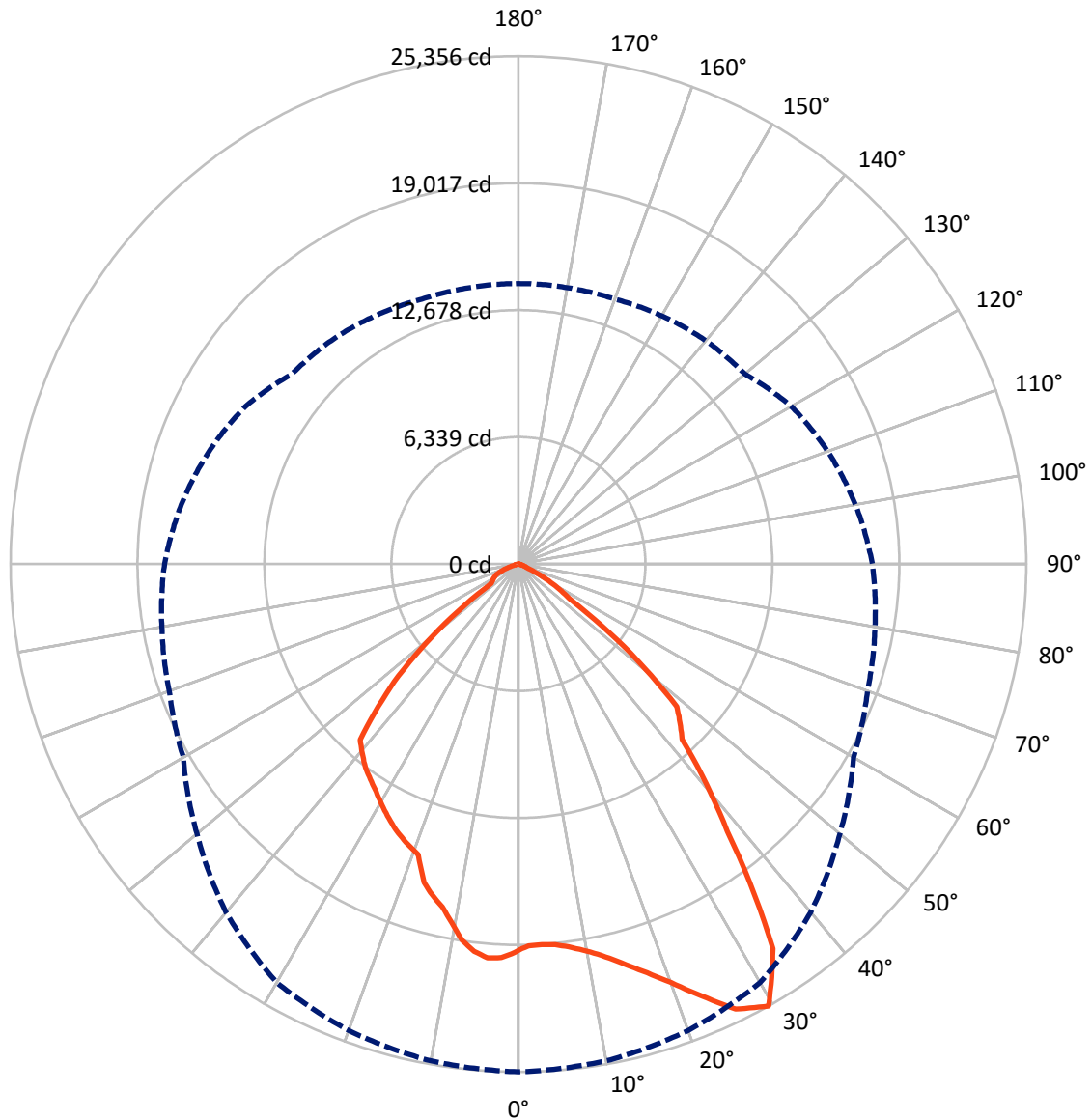


Based on 30 foot mounting height. Maximum calculated value = 21.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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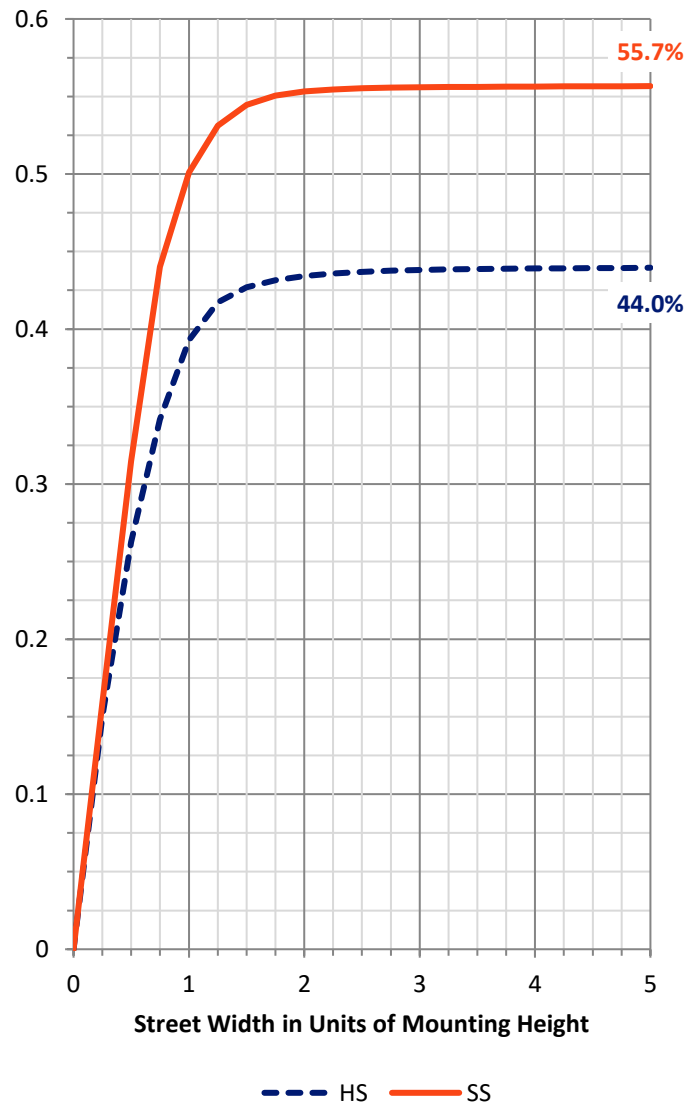
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20953.9	0.0	20953.9
	% Fixture	44.3	0.0	44.3
Street Side	Lumens	26301.8	0.0	26301.8
	% Fixture	55.7	0.0	55.7
Total	Lumens	47255.6	0.0	47255.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1843.7	3.9
10°-20°	5360.5	11.3
20°-30°	8605.3	18.2
30°-40°	10623.8	22.5
40°-50°	10412.6	22.0
50°-60°	7292.4	15.4
60°-70°	3053.4	6.5
70°-80°	646.3	1.4
80°-90°	86.7	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°	47255.6	100.0
0°-180°	47255.6	100.0



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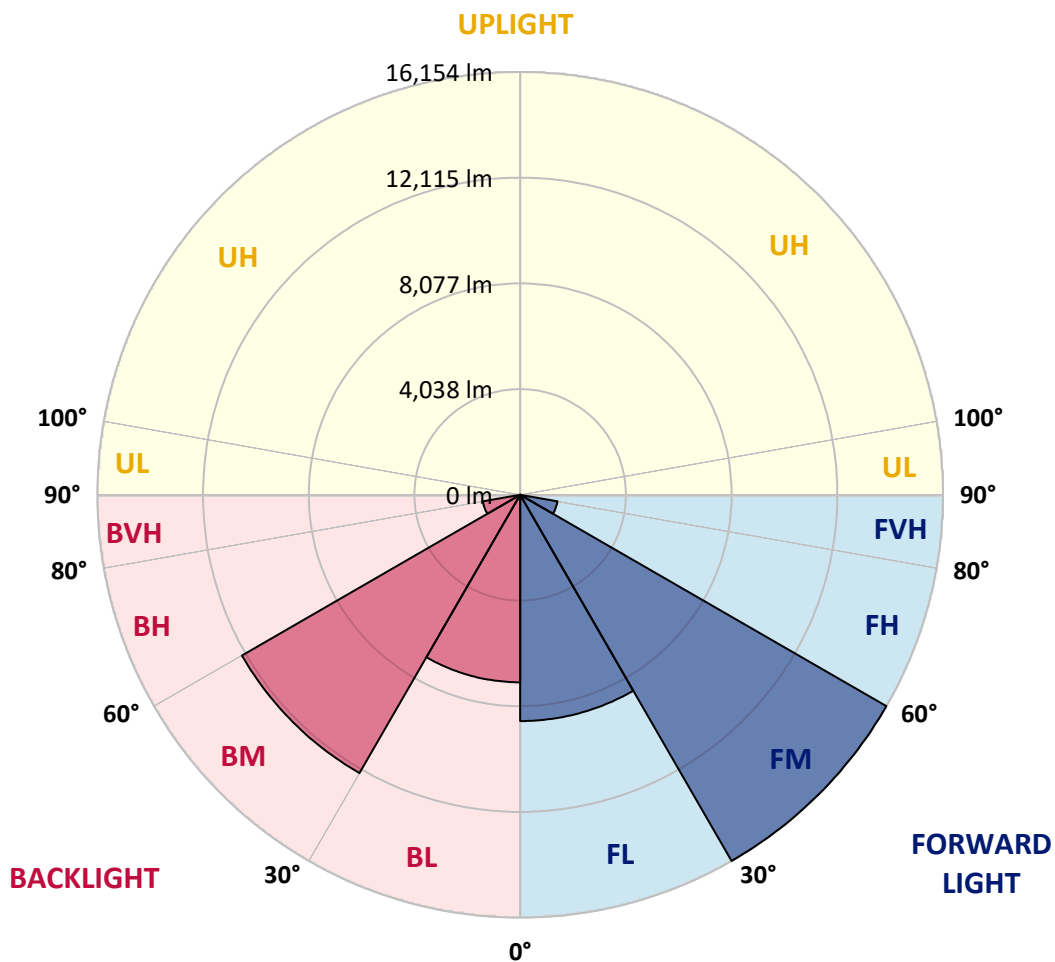
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8642.9	18.3			
FM	(30°-60°)	16153.8	34.2			
FH	(60°-80°)	1446.3	3.1			G1/1800
FVH	(80°-90°)	37.0	0.1			G1/100
BL	(0°-30°)	7163.7	15.2	B5		
BM	(30°-60°)	12276.3	26.0	B5		
BH	(60°-80°)	1450.2	3.1	B3/2500		G3/2500
BVH	(80°-90°)	45.9	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°	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2
1°	19076.8	19083.7	19094.5	19108.9	19126.6	19147.1	19169.8	19193.9	19218.7	19243.2	19269.8
3°	19034.0	19035.3	19040.9	19057.2	19075.9	19096.4	19118.1	19140.3	19207.0	19276.3	19360.7
5°	19093.3	19080.5	19080.5	19082.1	19080.4	19069.6	19087.6	19126.4	19183.5	19318.1	19435.2
7°	19270.4	19236.4	19212.6	19172.3	19121.4	19085.6	19073.7	19116.4	19205.7	19377.5	19514.6
9°	19546.8	19502.0	19447.7	19335.0	19196.7	19112.1	19063.4	19082.3	19191.0	19364.8	19501.9
11°	19870.8	19829.0	19739.3	19563.6	19353.3	19164.8	19065.3	19063.3	19173.0	19347.3	19426.2
13°	20312.6	20263.0	20108.7	19826.4	19548.3	19282.7	19081.0	19044.6	19172.8	19325.9	19326.1
15°	20833.2	20768.3	20551.0	20172.5	19783.1	19411.1	19126.7	19047.6	19218.0	19286.0	19180.4
17°	21397.6	21338.8	21040.2	20592.6	20062.7	19545.7	19186.1	19064.1	19227.5	19203.3	18976.9
19.5°	22218.9	22118.8	21732.0	21154.2	20452.0	19766.7	19252.0	19041.8	19340.9	19535.1	18887.9
22.5°	23418.8	23201.9	22709.8	21955.2	21022.5	20119.7	19316.7	18933.3	18992.6	19009.6	18318.1
25.5°	24722.7	24417.8	23831.6	22907.3	21818.1	20599.7	19318.0	18712.4	18564.6	18283.7	17717.5
29°	25356.2	25191.3	24786.3	24130.5	22704.3	20951.3	19315.8	18545.3	18075.3	17668.7	17087.6
33°	23028.6	23202.7	23753.3	24577.1	23401.2	21201.7	19312.6	18399.3	17436.6	16549.6	16098.5
37.5°	16937.9	17381.4	18965.7	21366.4	22483.8	21531.7	19461.3	18348.1	16855.2	15906.4	15196.9
42.5°	11981.9	12400.4	13464.3	15140.6	17834.1	20232.1	19837.0	18387.8	16283.2	15543.4	14723.8
47.5°	10643.8	10597.9	10706.0	10896.6	12362.1	16115.1	19504.6	18075.2	15272.4	14733.8	14292.0
55°	3188.9	3795.2	5067.7	6261.8	8030.5	9153.1	14209.3	14182.9	12266.0	12905.3	12135.1
65°	528.4	548.3	1103.2	1109.3	1641.7	2626.4	3233.1	3500.0	2346.9	714.3	2376.2
75°	78.8	94.1	138.0	111.2	135.3	113.1	185.8	236.2	258.4	402.9	388.2
85°	39.9	68.2	72.6	63.0	71.4	69.0	79.2	89.1	94.2	100.2	98.9
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2
1°	19294.8	19318.0	19338.8	19356.8	19371.4	19382.1	19388.2	19389.2	19388.2	19382.1	19371.4
3°	19439.3	19493.3	19543.1	19587.7	19625.7	19655.6	19670.9	19673.3	19670.9	19655.6	19625.7
5°	19527.5	19613.4	19670.7	19677.0	19684.7	19693.2	19703.9	19720.0	19703.9	19693.2	19684.7
7°	19613.0	19649.6	19639.1	19598.6	19520.3	19468.9	19442.2	19460.2	19442.2	19468.9	19520.3
9°	19591.6	19544.7	19424.3	19298.6	19151.5	19033.0	18967.5	18998.0	18967.5	19033.0	19151.5
11°	19412.5	19270.9	19034.2	18795.7	18586.4	18354.7	18221.2	18220.4	18221.2	18354.7	18586.4
13°	19197.7	18878.1	18515.7	18181.4	17898.4	17698.1	17549.2	17530.5	17549.2	17698.1	17898.4
15°	18905.1	18456.7	18032.0	17664.3	17375.4	17216.5	17111.7	17096.5	17111.7	17216.5	17375.4
17°	18523.8	18047.2	17626.3	17294.8	17046.5	16773.3	16600.9	16586.6	16600.9	16773.3	17046.5
19.5°	18123.0	17660.6	17248.5	16898.1	16485.7	15841.8	15459.3	15347.8	15459.3	15841.8	16485.7
22.5°	17729.1	17276.3	16789.1	16145.3	15301.2	15094.6	15005.7	14984.9	15005.7	15094.6	15301.2
25.5°	17225.5	16678.9	16141.9	15187.2	14905.4	14692.3	14597.0	14580.1	14597.0	14692.3	14905.4
29°	16436.6	15733.7	14755.0	14552.3	14306.5	14072.9	14008.6	14003.0	14008.6	14072.9	14306.5
33°	15426.4	14562.0	13808.9	13705.5	13453.0	13341.3	13322.4	13322.8	13322.4	13341.3	13453.0
37.5°	14447.3	13543.6	13002.8	12708.2	12605.2	12637.2	12656.7	12700.0	12656.7	12637.2	12605.2
42.5°	13638.7	12789.3	12078.0	11754.3	11767.9	11703.7	11712.0	11803.8	11712.0	11703.7	11767.9
47.5°	13044.7	12149.5	11074.7	10777.7	10341.8	9142.6	8345.8	8180.9	8345.8	9142.6	10341.8
55°	11154.9	11024.4	9254.2	7105.9	4929.0	3227.3	2221.1	1673.7	2221.1	3227.3	4929.0
65°	3726.5	2838.5	1741.6	1342.6	1560.2	1351.6	1224.4	1215.4	1224.4	1351.6	1560.2
75°	497.5	330.7	344.7	260.4	331.8	285.8	176.9	157.6	176.9	285.8	331.8
85°	77.5	74.0	75.0	66.3	60.3	65.6	45.2	43.8	45.2	65.6	60.3
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2	19207.2
1°	19356.8	19338.8	19318.0	19294.8	19269.8	19243.2	19218.7	19193.9	19169.8	19147.1	19126.6
3°	19587.7	19543.1	19493.3	19439.3	19360.7	19276.3	19207.0	19140.3	19118.1	19096.4	19075.9
5°	19677.0	19670.7	19613.4	19527.5	19435.2	19318.1	19183.5	19126.4	19087.6	19069.6	19080.4
7°	19598.6	19639.1	19649.6	19613.0	19514.6	19377.5	19205.7	19116.4	19073.7	19085.6	19121.4
9°	19298.6	19424.3	19544.7	19591.6	19501.9	19364.8	19191.0	19082.3	19063.4	19112.1	19196.7
11°	18795.7	19034.2	19270.9	19412.5	19426.2	19347.3	19173.0	19063.3	19065.3	19164.8	19353.3
13°	18181.4	18515.7	18878.1	19197.7	19326.1	19325.9	19172.8	19044.6	19081.0	19282.7	19548.3
15°	17664.3	18032.0	18456.7	18905.1	19180.4	19286.0	19218.0	19047.6	19126.7	19411.1	19783.1
17°	17294.8	17626.3	18047.2	18523.8	18976.9	19203.3	19227.5	19064.1	19186.1	19545.7	20062.7
19.5°	16898.1	17248.5	17660.6	18123.0	18887.9	19535.1	19340.9	19041.8	19252.0	19766.7	20452.0
22.5°	16145.3	16789.1	17276.3	17729.1	18318.1	19009.6	18992.6	18933.3	19316.7	20119.7	21022.5
25.5°	15187.2	16141.9	16678.9	17225.5	17717.5	18283.7	18564.6	18712.4	19318.0	20599.7	21818.1
29°	14552.3	14755.0	15733.7	16436.6	17087.6	17668.7	18075.3	18545.3	19315.8	20951.3	22704.3
33°	13705.5	13808.9	14562.0	15426.4	16098.5	16549.6	17436.6	18399.3	19312.6	21201.7	23401.2
37.5°	12708.2	13002.8	13543.6	14447.3	15196.9	15906.4	16855.2	18348.1	19461.3	21531.7	22483.8
42.5°	11754.3	12078.0	12789.3	13638.7	14723.8	15543.4	16283.2	18387.8	19837.0	20232.1	17834.1
47.5°	10777.7	11074.7	12149.5	13044.7	14292.0	14733.8	15272.4	18075.2	19504.6	16115.1	12362.1
55°	7105.9	9254.2	11024.4	11154.9	12135.1	12905.3	12266.0	14182.9	14209.3	9153.1	8030.5
65°	1342.6	1741.6	2838.5	3726.5	2376.2	714.3	2346.9	3500.0	3233.1	2626.4	1641.7
75°	260.4	344.7	330.7	497.5	388.2	402.9	258.4	236.2	185.8	113.1	135.3
85°	66.3	75.0	74.0	77.5	98.9	100.2	94.2	89.1	79.2	69.0	71.4
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°	19207.2	19207.2	19207.2	19207.2
1°	19108.9	19094.5	19083.7	19076.8
3°	19057.2	19040.9	19035.3	19034.0
5°	19082.1	19080.5	19080.5	19093.3
7°	19172.3	19212.6	19236.4	19270.4
9°	19335.0	19447.7	19502.0	19546.8
11°	19563.6	19739.3	19829.0	19870.8
13°	19826.4	20108.7	20263.0	20312.6
15°	20172.5	20551.0	20768.3	20833.2
17°	20592.6	21040.2	21338.8	21397.6
19.5°	21154.2	21732.0	22118.8	22218.9
22.5°	21955.2	22709.8	23201.9	23418.8
25.5°	22907.3	23831.6	24417.8	24722.7
29°	24130.5	24786.3	25191.3	25356.2
33°	24577.1	23753.3	23202.7	23028.6
37.5°	21366.4	18965.7	17381.4	16937.9
42.5°	15140.6	13464.3	12400.4	11981.9
47.5°	10896.6	10706.0	10597.9	10643.8
55°	6261.8	5067.7	3795.2	3188.9
65°	1109.3	1103.2	548.3	528.4
75°	111.2	138.0	94.1	78.8
85°	63.0	72.6	68.2	39.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)