

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: P232899

Luminaire Tested: **NFFLD-L-C175-D-UNV-66-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232899  
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-66-7050  
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: 49050.8 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

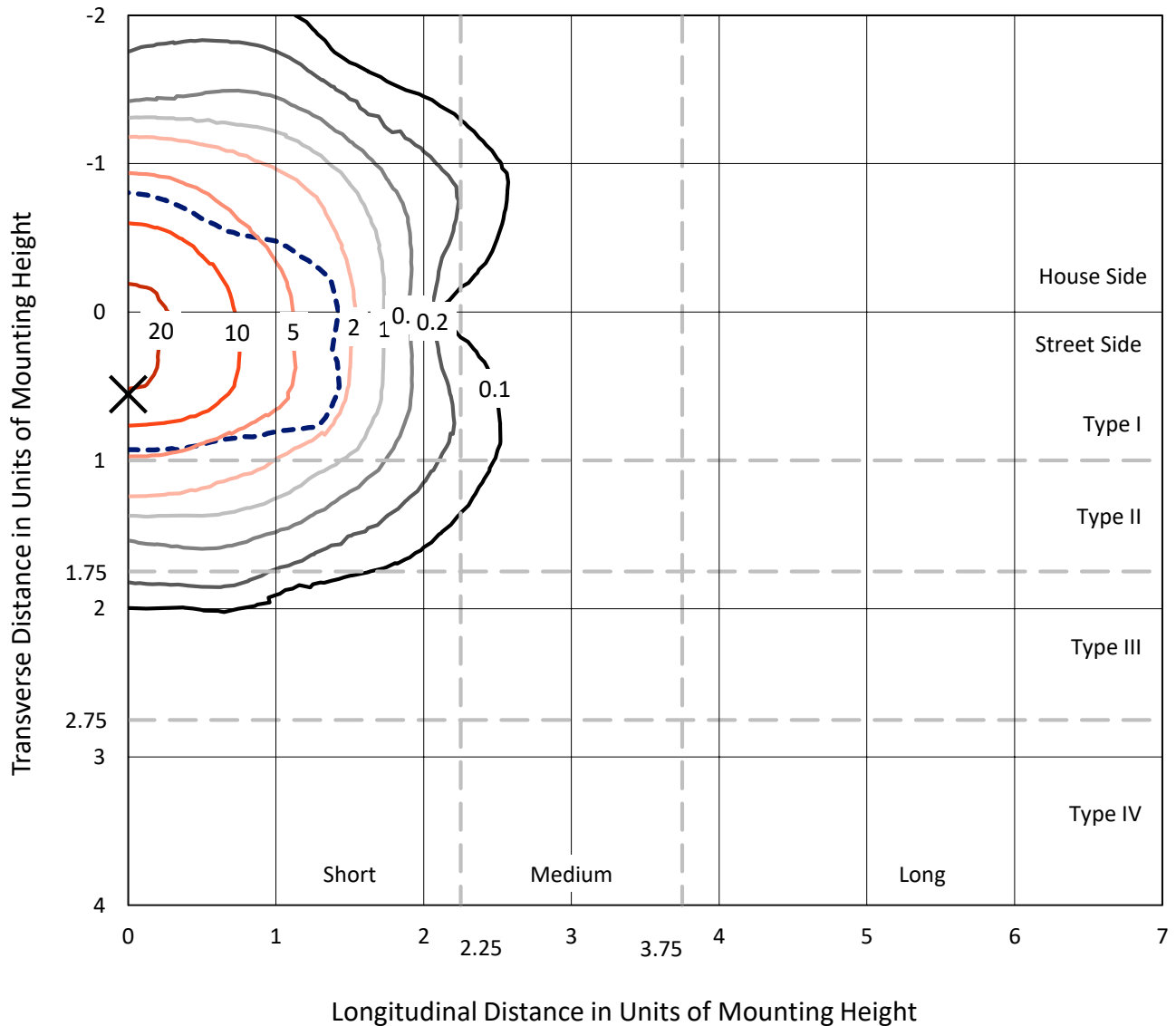


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

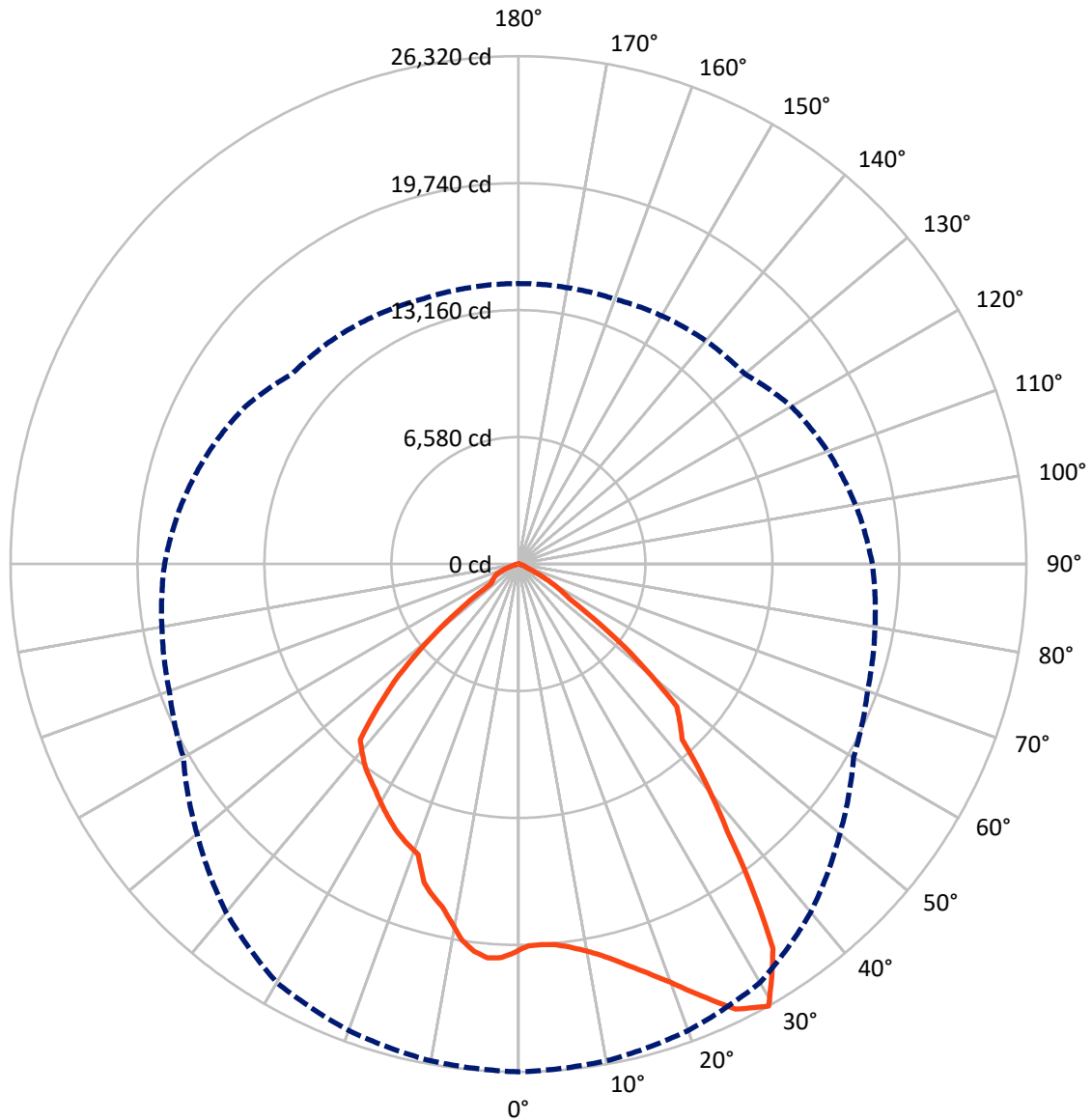


Based on 30 foot mounting height. Maximum calculated value = 22.2 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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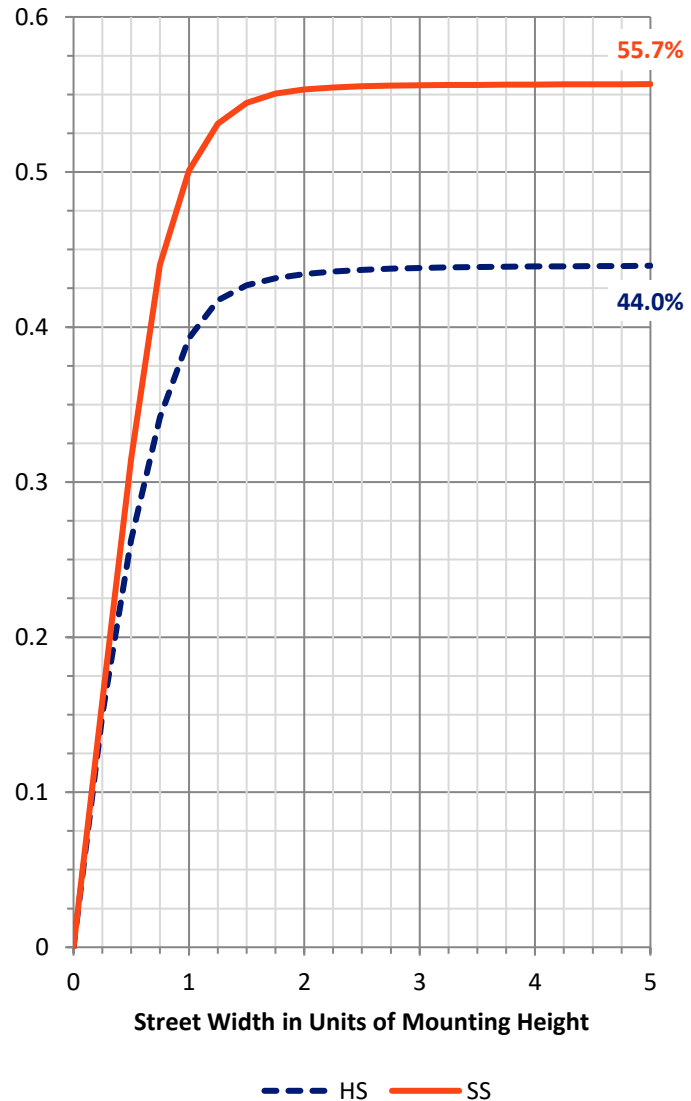
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21749.9	0.0	21749.9
	% Fixture	44.3	0.0	44.3
<b>Street Side</b>	Lumens	27301.0	0.0	27301.0
	% Fixture	55.7	0.0	55.7
<b>Total</b>	Lumens	49050.8	0.0	49050.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1913.7	3.9
10°-20°	5564.2	11.3
20°-30°	8932.2	18.2
30°-40°	11027.4	22.5
40°-50°	10808.1	22.0
50°-60°	7569.5	15.4
60°-70°	3169.4	6.5
70°-80°	670.9	1.4
80°-90°	90.0	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°	49050.8	100.0
0°-180°	49050.8	100.0



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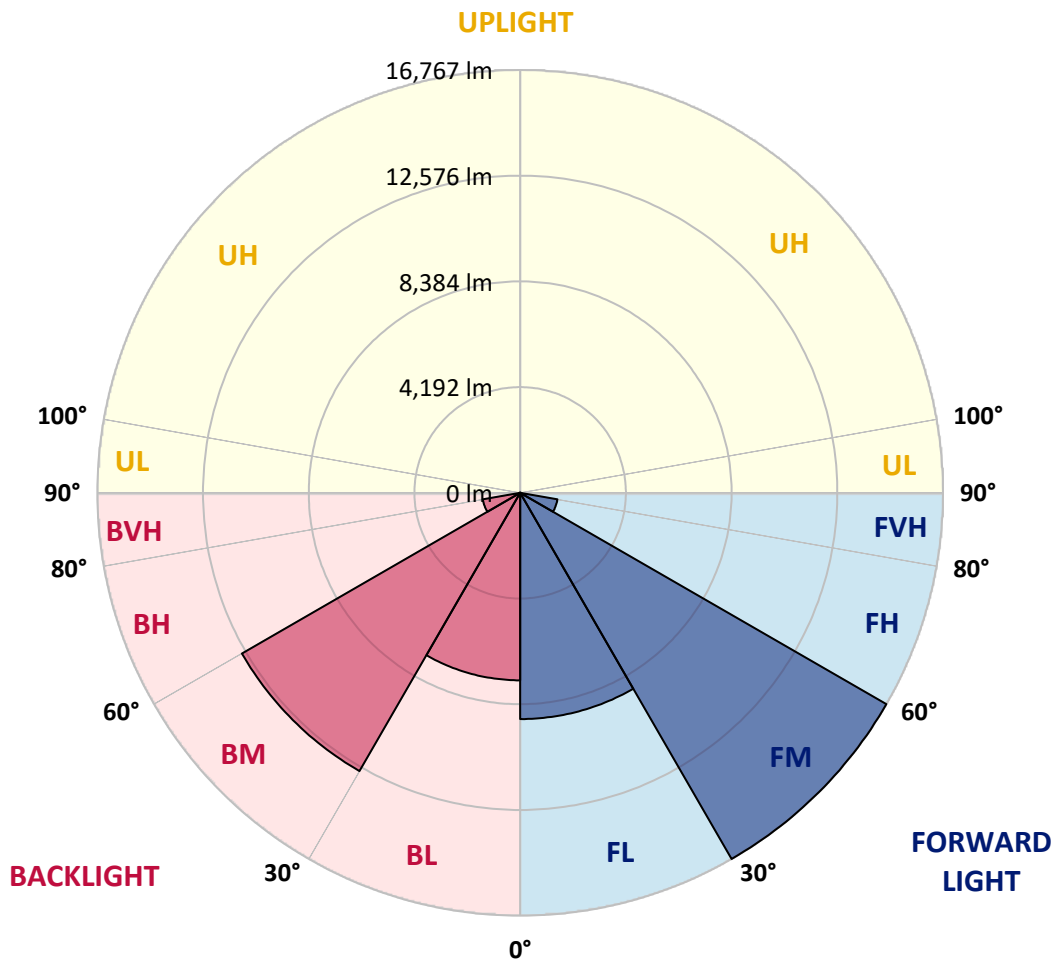
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8971.3	18.3			
FM	(30°-60°)	16767.4	34.2			
FH	(60°-80°)	1501.3	3.1			G1/1800
FVH	(80°-90°)	38.4	0.1			G1/100
BL	(0°-30°)	7435.8	15.2	B5		
BM	(30°-60°)	12742.6	26.0	B5		
BH	(60°-80°)	1505.3	3.1	B3/2500		G3/2500
BVH	(80°-90°)	47.6	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°	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8
1°	19801.5	19808.7	19819.8	19834.8	19853.2	19874.5	19898.0	19923.1	19948.7	19974.2	20001.8
3°	19757.0	19758.4	19764.1	19781.2	19800.6	19821.9	19844.4	19867.4	19936.6	20008.5	20096.1
5°	19818.6	19805.3	19805.3	19807.0	19805.2	19794.0	19812.7	19852.9	19912.2	20052.0	20173.5
7°	20002.5	19967.2	19942.4	19900.6	19847.8	19810.6	19798.2	19842.6	19935.3	20113.6	20255.9
9°	20289.3	20243.0	20186.5	20069.5	19926.0	19838.2	19787.6	19807.3	19920.0	20100.4	20242.7
11°	20625.7	20582.3	20489.2	20306.8	20088.5	19892.7	19789.5	19787.5	19901.4	20082.3	20164.2
13°	21084.3	21032.7	20872.6	20579.6	20290.9	20015.2	19805.9	19768.1	19901.2	20060.0	20060.2
15°	21624.6	21557.3	21331.7	20938.8	20534.7	20148.5	19853.3	19771.1	19948.0	20018.6	19909.1
17°	22210.5	22149.4	21839.4	21374.9	20824.8	20288.2	19914.9	19788.3	19957.9	19932.8	19697.8
19.5°	23063.0	22959.0	22557.6	21957.8	21229.0	20517.5	19983.4	19765.1	20075.6	20277.2	19605.5
22.5°	24308.4	24083.4	23572.6	22789.2	21821.1	20884.0	20050.5	19652.5	19714.1	19731.8	19014.0
25.5°	25661.9	25345.3	24736.9	23777.6	22646.9	21382.2	20051.9	19423.3	19269.8	18978.3	18390.5
29°	26319.5	26148.2	25727.8	25047.2	23566.8	21747.1	20049.5	19249.8	18762.0	18339.9	17736.7
33°	23903.4	24084.1	24655.6	25510.7	24290.1	22007.1	20046.2	19098.3	18099.0	17178.3	16710.0
37.5°	17581.3	18041.7	19686.1	22178.1	23337.9	22349.7	20200.6	19045.1	17495.5	16510.7	15774.2
42.5°	12437.0	12871.4	13975.8	15715.8	18511.6	21000.6	20590.5	19086.3	16901.8	16133.9	15283.2
47.5°	11048.2	11000.5	11112.7	11310.5	12831.7	16727.3	20245.5	18761.9	15852.6	15293.5	14835.0
55°	3310.0	3939.4	5260.2	6499.7	8335.6	9500.8	14749.1	14721.7	12732.0	13395.6	12596.1
65°	548.5	569.1	1145.2	1151.5	1704.1	2726.2	3355.9	3632.9	2436.1	741.4	2466.5
75°	81.8	97.7	143.3	115.4	140.5	117.4	192.9	245.2	268.3	418.2	403.0
85°	41.4	70.8	75.4	65.4	74.2	71.6	82.2	92.5	97.7	104.0	102.7
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°	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8
1°	20027.8	20051.8	20073.4	20092.1	20107.3	20118.3	20124.7	20125.7	20124.7	20118.3	20107.3
3°	20177.7	20233.8	20285.4	20331.7	20371.3	20402.3	20418.1	20420.6	20418.1	20402.3	20371.3
5°	20269.3	20358.4	20417.9	20424.5	20432.4	20441.3	20452.3	20469.1	20452.3	20441.3	20432.4
7°	20358.0	20396.0	20385.1	20343.1	20261.8	20208.5	20180.8	20199.4	20180.8	20208.5	20261.8
9°	20335.9	20287.2	20162.2	20031.8	19879.1	19756.1	19688.0	19719.7	19688.0	19756.1	19879.1
11°	20150.0	20002.9	19757.2	19509.7	19292.5	19052.0	18913.4	18912.6	18913.4	19052.0	19292.5
13°	19926.9	19595.2	19219.0	18872.1	18578.3	18370.4	18215.9	18196.5	18215.9	18370.4	18578.3
15°	19623.2	19157.9	18717.0	18335.3	18035.5	17870.5	17761.8	17746.0	17761.8	17870.5	18035.5
17°	19227.5	18732.8	18295.9	17951.8	17694.0	17410.4	17231.6	17216.7	17231.6	17410.4	17694.0
19.5°	18811.5	18331.5	17903.8	17540.0	17112.0	16443.6	16046.6	15930.9	16046.6	16443.6	17112.0
22.5°	18402.6	17932.6	17426.8	16758.7	15882.4	15668.0	15575.8	15554.1	15575.8	15668.0	15882.4
25.5°	17879.8	17312.5	16755.1	15764.2	15471.6	15250.4	15151.5	15133.9	15151.5	15250.4	15471.6
29°	17061.0	16331.3	15315.5	15105.1	14850.0	14607.5	14540.8	14534.9	14540.8	14607.5	14850.0
33°	16012.4	15115.2	14333.4	14226.2	13964.0	13848.1	13828.5	13828.9	13828.5	13848.1	13964.0
37.5°	14996.2	14058.2	13496.8	13191.0	13084.0	13117.2	13137.5	13182.5	13137.5	13117.2	13084.0
42.5°	14156.8	13275.2	12536.8	12200.8	12215.0	12148.3	12156.9	12252.2	12156.9	12148.3	12215.0
47.5°	13540.3	12611.0	11495.4	11187.1	10734.7	9489.9	8662.9	8491.7	8662.9	9489.9	10734.7
55°	11578.7	11443.2	9605.8	7375.8	5116.2	3349.9	2305.4	1737.3	2305.4	3349.9	5116.2
65°	3868.0	2946.3	1807.8	1393.7	1619.5	1403.0	1270.8	1261.6	1270.8	1403.0	1619.5
75°	516.3	343.3	357.8	270.3	344.4	296.7	183.6	163.6	183.6	296.7	344.4
85°	80.4	76.8	77.9	68.9	62.6	68.0	46.9	45.5	46.9	68.0	62.6
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°	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8	19936.8
1°	20092.1	20073.4	20051.8	20027.8	20001.8	19974.2	19948.7	19923.1	19898.0	19874.5	19853.2
3°	20331.7	20285.4	20233.8	20177.7	20096.1	20008.5	19936.6	19867.4	19844.4	19821.9	19800.6
5°	20424.5	20417.9	20358.4	20269.3	20173.5	20052.0	19912.2	19852.9	19812.7	19794.0	19805.2
7°	20343.1	20385.1	20396.0	20358.0	20255.9	20113.6	19935.3	19842.6	19798.2	19810.6	19847.8
9°	20031.8	20162.2	20287.2	20335.9	20242.7	20100.4	19920.0	19807.3	19787.6	19838.2	19926.0
11°	19509.7	19757.2	20002.9	20150.0	20164.2	20082.3	19901.4	19787.5	19789.5	19892.7	20088.5
13°	18872.1	19219.0	19595.2	19926.9	20060.2	20060.0	19901.2	19768.1	19805.9	20015.2	20290.9
15°	18335.3	18717.0	19157.9	19623.2	19909.1	20018.6	19948.0	19771.1	19853.3	20148.5	20534.7
17°	17951.8	18295.9	18732.8	19227.5	19697.8	19932.8	19957.9	19788.3	19914.9	20288.2	20824.8
19.5°	17540.0	17903.8	18331.5	18811.5	19605.5	20277.2	20075.6	19765.1	19983.4	20517.5	21229.0
22.5°	16758.7	17426.8	17932.6	18402.6	19014.0	19731.8	19714.1	19652.5	20050.5	20884.0	21821.1
25.5°	15764.2	16755.1	17312.5	17879.8	18390.5	18978.3	19269.8	19423.3	20051.9	21382.2	22646.9
29°	15105.1	15315.5	16331.3	17061.0	17736.7	18339.9	18762.0	19249.8	20049.5	21747.1	23566.8
33°	14226.2	14333.4	15115.2	16012.4	16710.0	17178.3	18099.0	19098.3	20046.2	22007.1	24290.1
37.5°	13191.0	13496.8	14058.2	14996.2	15774.2	16510.7	17495.5	19045.1	20200.6	22349.7	23337.9
42.5°	12200.8	12536.8	13275.2	14156.8	15283.2	16133.9	16901.8	19086.3	20590.5	21000.6	18511.6
47.5°	11187.1	11495.4	12611.0	13540.3	14835.0	15293.5	15852.6	18761.9	20245.5	16727.3	12831.7
55°	7375.8	9605.8	11443.2	11578.7	12596.1	13395.6	12732.0	14721.7	14749.1	9500.8	8335.6
65°	1393.7	1807.8	2946.3	3868.0	2466.5	741.4	2436.1	3632.9	3355.9	2726.2	1704.1
75°	270.3	357.8	343.3	516.3	403.0	418.2	268.3	245.2	192.9	117.4	140.5
85°	68.9	77.9	76.8	80.4	102.7	104.0	97.7	92.5	82.2	71.6	74.2
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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	330°	340°	350°	360°
0°	19936.8	19936.8	19936.8	19936.8
1°	19834.8	19819.8	19808.7	19801.5
3°	19781.2	19764.1	19758.4	19757.0
5°	19807.0	19805.3	19805.3	19818.6
7°	19900.6	19942.4	19967.2	20002.5
9°	20069.5	20186.5	20243.0	20289.3
11°	20306.8	20489.2	20582.3	20625.7
13°	20579.6	20872.6	21032.7	21084.3
15°	20938.8	21331.7	21557.3	21624.6
17°	21374.9	21839.4	22149.4	22210.5
19.5°	21957.8	22557.6	22959.0	23063.0
22.5°	22789.2	23572.6	24083.4	24308.4
25.5°	23777.6	24736.9	25345.3	25661.9
29°	25047.2	25727.8	26148.2	26319.5
33°	25510.7	24655.6	24084.1	23903.4
37.5°	22178.1	19686.1	18041.7	17581.3
42.5°	15715.8	13975.8	12871.4	12437.0
47.5°	11310.5	11112.7	11000.5	11048.2
55°	6499.7	5260.2	3939.4	3310.0
65°	1151.5	1145.2	569.1	548.5
75°	115.4	143.3	97.7	81.8
85°	65.4	75.4	70.8	41.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)