

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: McGRAW-EDISON

Report Number: P271491

Luminaire Tested: **ISS-AF-350-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-350-LED-E1-RW-7027  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

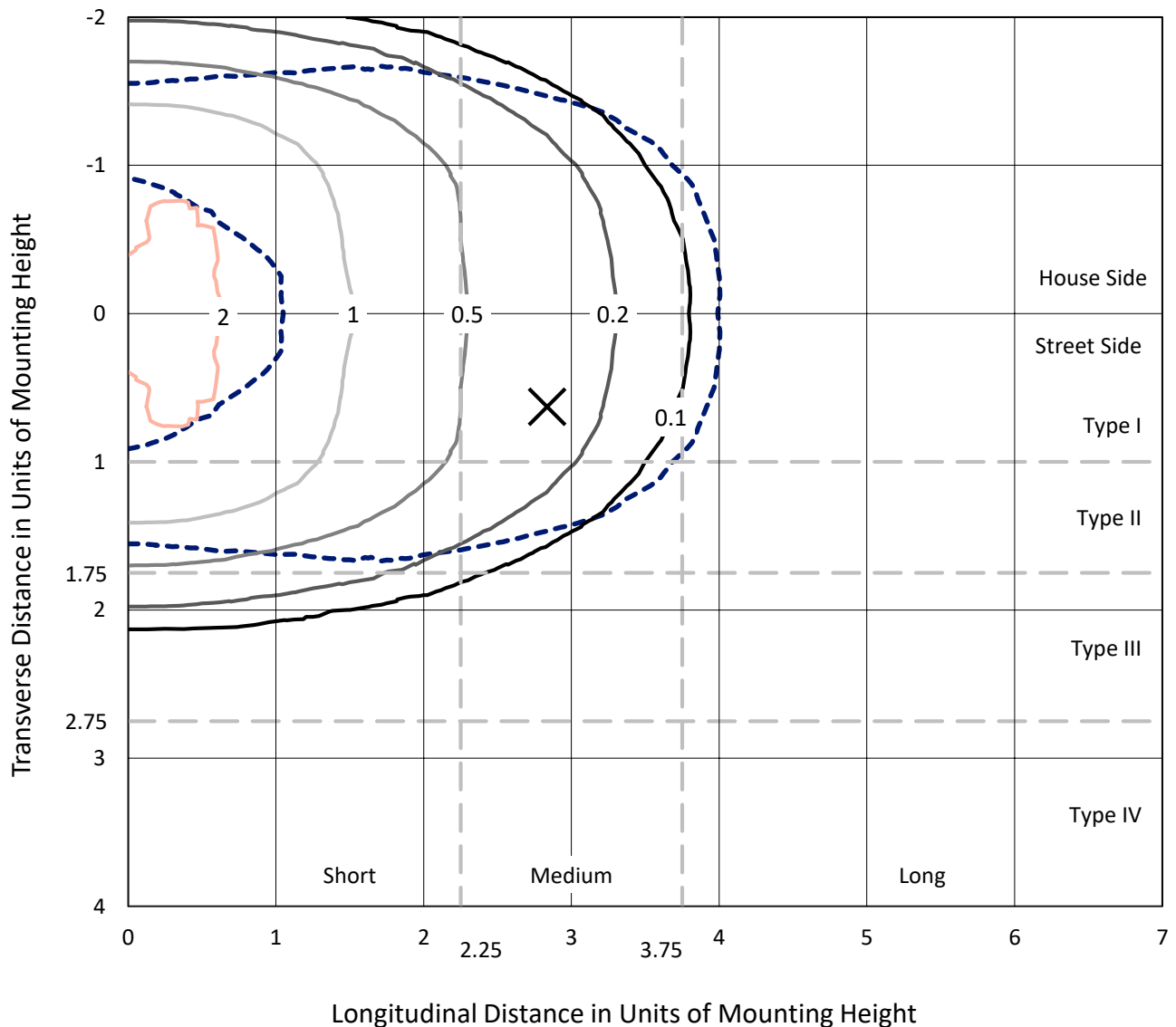
Lumens per Lamp: N/A  
Luminaire Lumens: 2068 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input 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

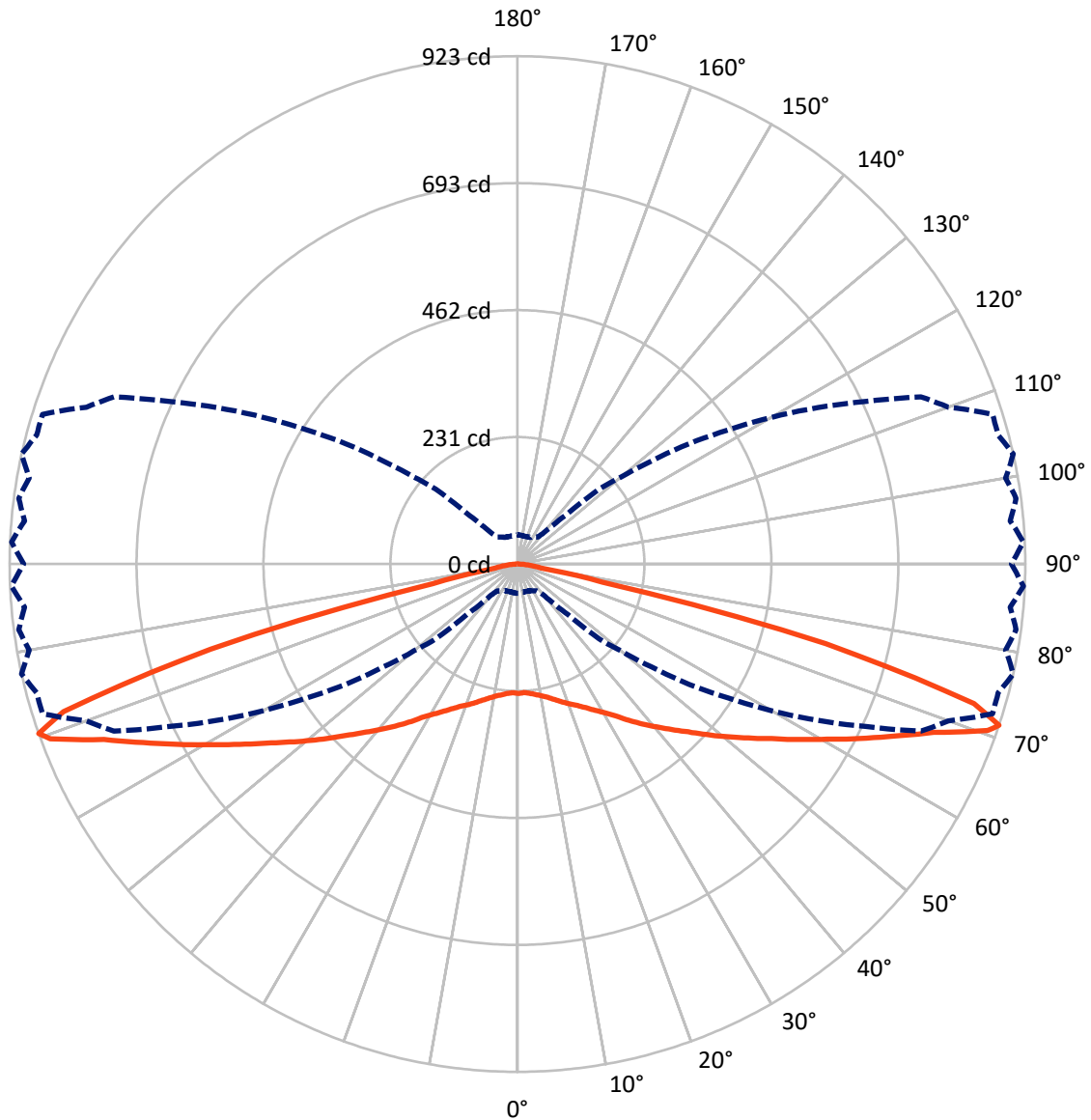
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1034.0	0.0	1034.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1034.0	0.0	1034.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2068.0	0.0	2068.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.7	1.1
10°-20°	71.1	3.4
20°-30°	133.0	6.4
30°-40°	231.5	11.2
40°-50°	377.8	18.3
50°-60°	521.4	25.2
60°-70°	494.5	23.9
70°-80°	203.6	9.8
80°-90°	12.3	0.6
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°	2068.0	100.0
0°-180°	2068.0	100.0



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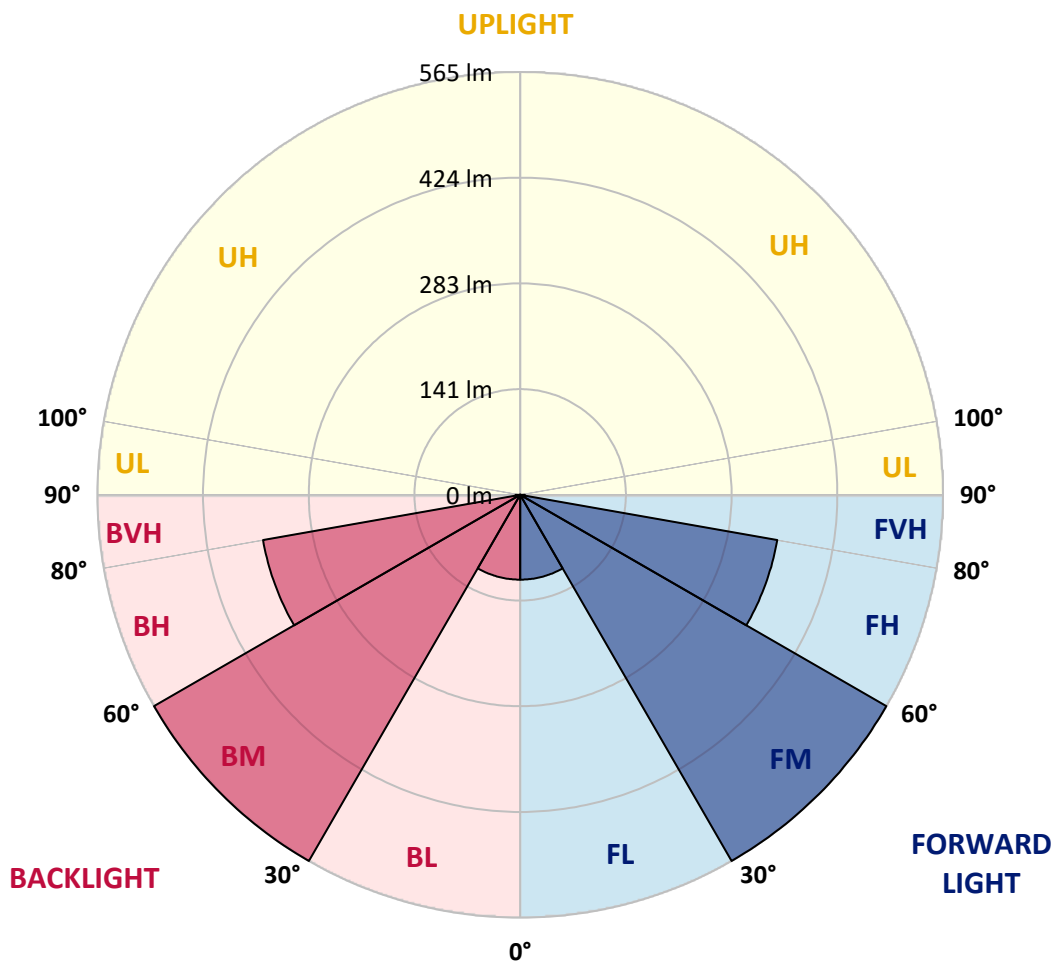
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.4	5.5			
FM	(30°-60°)	565.3	27.3			
FH	(60°-80°)	349.1	16.9			G0/660
FVH	(80°-90°)	6.1	0.3			G0/10
BL	(0°-30°)	113.4	5.5	B1/500		
BM	(30°-60°)	565.3	27.3	B1/1000		
BH	(60°-80°)	349.1	16.9	B1/500		G1/500
BVH	(80°-90°)	6.1	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	234.7	234.1	234.7	234.7	235.4	235.4	235.4	235.4	234.7	236.2	236.2
5°	234.7	234.7	235.4	235.4	236.8	238.2	236.2	236.8	237.5	236.8	238.2
7.5°	234.7	234.7	234.7	236.2	238.2	239.6	238.2	238.9	240.3	240.3	241.6
10°	232.8	232.0	233.4	236.2	239.6	241.6	240.9	243.7	243.0	243.7	245.1
12.5°	229.2	229.2	232.0	236.2	242.4	243.7	244.4	245.8	247.8	247.1	249.2
15°	230.0	230.7	233.4	238.9	246.4	247.8	248.5	248.5	252.0	250.5	254.6
17.5°	234.7	235.4	238.2	243.7	252.6	252.6	253.3	254.6	259.4	256.6	262.1
20°	242.4	243.0	245.8	252.0	260.1	259.4	260.8	262.1	268.3	265.6	271.1
22.5°	251.3	252.6	255.9	262.8	271.7	267.7	270.4	273.2	279.4	274.5	282.0
25°	263.6	265.6	269.0	276.6	286.1	281.3	284.0	286.1	292.9	286.1	293.7
27.5°	281.3	282.7	285.4	293.7	301.9	298.5	299.9	301.2	309.4	301.9	310.1
30°	302.5	304.6	307.4	314.9	323.1	317.6	320.3	321.8	328.6	321.1	327.9
32.5°	329.3	331.4	334.7	341.5	348.5	340.2	340.9	343.0	349.8	342.3	349.8
35°	360.8	362.1	366.9	375.1	379.9	366.9	367.6	367.6	376.5	366.1	374.4
37.5°	393.5	395.0	400.5	408.7	414.2	399.7	399.7	400.5	408.7	397.1	404.6
40°	427.9	431.9	438.1	446.3	450.4	434.0	435.4	434.7	444.2	430.6	438.1
42.5°	462.1	465.5	474.3	484.0	488.8	472.3	473.0	470.9	480.5	466.2	472.3
45°	491.6	494.2	505.2	519.0	526.4	509.2	509.2	509.2	519.0	501.1	508.6
47.5°	515.4	517.5	529.1	549.0	561.4	544.2	545.6	542.8	557.2	535.3	545.6
50°	532.5	533.2	548.2	571.0	592.2	576.4	578.4	579.8	593.5	574.4	583.2
52.5°	538.1	539.4	556.5	583.9	614.7	604.4	611.9	614.7	627.1	606.4	618.8
55°	519.0	522.3	548.2	588.7	630.4	627.1	635.9	641.4	657.1	640.0	653.1
57.5°	454.5	458.7	494.9	561.4	633.8	639.3	651.7	660.5	683.1	672.9	687.2
60°	362.7	366.1	403.2	483.3	590.7	624.3	652.3	677.7	700.9	703.0	721.5
62.5°	249.2	254.0	289.5	366.1	496.9	541.5	581.8	623.6	662.6	709.8	733.8
65°	121.8	124.5	154.7	228.6	364.8	421.7	468.8	527.8	564.0	631.8	670.9
67.5°	67.0	67.0	71.9	95.1	195.1	251.3	301.9	375.9	412.8	496.2	546.3
70°	56.1	56.1	54.8	58.2	73.9	87.7	113.6	156.0	207.4	291.6	336.8
71°	53.4	52.7	52.0	53.4	59.6	62.3	73.2	95.8	130.1	201.2	245.8
72.5°	49.9	48.6	46.5	47.3	50.7	50.7	52.7	56.1	69.1	94.4	126.6
75°	43.1	41.7	39.7	39.7	40.3	41.1	41.7	43.1	43.7	45.2	50.7
77.5°	35.7	34.2	32.2	32.2	31.5	32.2	33.6	34.2	32.9	35.7	36.3
80°	27.4	25.3	24.6	24.6	24.0	23.3	23.3	23.3	24.0	25.3	26.1
82.5°	17.1	15.7	16.3	15.7	15.0	15.0	15.0	15.0	15.7	15.7	17.1
85°	8.3	8.3	8.9	8.3	6.8	6.8	6.2	5.5	6.2	5.5	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	234.1	235.4	234.7	235.4	234.1	235.4	233.4	235.4	234.7	235.4	234.1
5°	236.2	238.2	236.2	238.9	236.2	238.9	236.2	238.9	236.8	238.9	236.2
7.5°	238.2	242.4	239.6	243.0	239.6	243.7	239.6	243.7	240.9	244.4	239.6
10°	242.4	247.1	243.0	247.1	243.0	247.8	243.0	248.5	244.4	249.9	243.7
12.5°	245.8	251.3	247.1	252.6	246.4	254.0	247.8	255.9	249.2	257.4	249.2
15°	250.5	257.4	253.3	259.4	253.3	261.5	254.0	263.6	255.9	264.9	255.9
17.5°	257.4	264.9	259.4	267.0	260.1	269.0	260.8	271.1	263.6	272.5	263.6
20°	267.0	273.2	267.7	275.9	268.3	276.6	269.7	277.9	271.7	280.0	271.7
22.5°	277.9	283.3	279.4	284.0	277.3	284.0	277.3	284.0	279.4	286.1	279.4
25°	290.2	294.4	289.5	294.4	288.2	293.7	287.5	292.9	288.2	294.4	289.5
27.5°	306.7	308.7	303.3	307.4	299.9	305.3	298.5	304.0	299.1	304.6	301.2
30°	324.5	326.5	321.1	323.7	315.6	319.0	311.4	316.2	312.1	316.2	314.1
32.5°	344.3	347.0	340.9	342.3	335.3	336.1	329.9	332.0	328.6	329.9	329.3
35°	366.9	370.3	363.5	365.5	358.1	358.1	352.6	351.9	350.5	349.1	349.1
37.5°	395.6	397.1	391.5	391.5	382.7	382.7	375.9	375.9	373.1	370.3	368.9
40°	427.1	427.9	418.9	418.3	409.4	409.4	401.8	399.7	395.0	391.5	389.4
42.5°	460.7	460.0	447.0	448.3	435.4	436.0	426.4	424.4	419.6	415.5	411.4
45°	494.9	492.2	479.2	478.4	463.4	464.2	452.5	451.1	444.2	440.2	435.4
47.5°	529.8	528.5	514.1	510.7	494.9	494.2	479.2	479.2	472.3	468.2	463.4
50°	566.1	565.4	549.0	547.0	530.4	527.8	510.0	510.0	501.7	500.4	493.6
52.5°	605.7	603.0	585.2	584.5	568.9	566.8	547.7	546.3	534.0	533.2	525.7
55°	644.8	640.0	628.4	623.0	607.2	606.4	589.4	586.0	570.2	570.2	560.6
57.5°	680.5	676.3	666.7	661.9	646.9	644.8	626.4	626.4	612.6	611.9	601.7
60°	717.4	718.7	708.5	706.4	692.1	691.3	672.9	672.9	659.2	658.5	646.9
62.5°	748.8	762.5	758.5	759.9	747.5	745.4	727.0	725.7	709.8	707.9	698.3
65°	718.0	766.0	796.8	817.3	815.9	815.3	797.4	794.7	774.9	769.4	753.7
67.5°	603.0	665.4	721.5	783.1	828.2	862.6	872.7	868.8	851.5	835.9	816.6
70°	403.9	475.7	547.0	623.6	700.9	776.2	853.6	887.2	922.6	910.4	907.0
71°	307.4	381.3	452.5	533.2	615.4	698.9	794.0	833.8	905.6	905.0	923.4
72.5°	173.2	238.9	314.9	385.5	462.8	549.0	646.9	690.7	794.0	814.7	868.0
75°	55.4	76.0	100.6	158.8	206.7	285.4	358.1	401.8	470.3	504.5	579.0
77.5°	37.0	41.1	42.4	49.2	55.4	78.7	106.8	130.7	143.8	150.6	158.1
80°	26.7	28.7	30.1	33.6	34.2	38.4	38.4	42.4	41.7	44.5	42.4
82.5°	17.1	19.1	19.9	21.2	21.9	24.6	26.1	28.7	28.7	30.1	29.5
85°	8.3	9.6	9.6	11.0	11.0	13.0	13.0	15.0	15.0	17.1	16.3
87.5°	0.7	0.7	0.7	1.3	1.3	1.3	2.1	2.8	2.8	2.8	2.8
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):**

	80°	82.5°	85°	87.5°	90°
0°	235.4	235.4	235.4	235.4	235.4
2.5°	236.2	235.4	236.2	234.7	236.2
5°	239.6	236.8	240.3	236.8	240.3
7.5°	245.1	241.6	245.8	240.3	245.1
10°	249.9	245.1	250.5	245.1	249.9
12.5°	258.0	250.5	259.4	250.5	259.4
15°	266.3	257.4	268.3	258.7	267.7
17.5°	273.8	265.6	275.9	266.3	275.2
20°	280.7	273.2	282.0	272.5	282.0
22.5°	287.5	282.7	289.5	282.7	289.5
25°	296.4	292.9	297.8	292.9	297.8
27.5°	306.7	305.3	308.0	304.6	308.7
30°	318.3	319.0	319.7	319.0	320.3
32.5°	332.7	336.1	334.7	334.7	334.7
35°	352.6	358.7	354.7	356.0	355.3
37.5°	371.0	379.9	374.4	376.5	375.1
40°	391.5	397.7	396.3	396.3	395.0
42.5°	414.2	421.7	419.6	420.2	418.9
45°	438.8	445.6	442.9	442.1	442.9
47.5°	466.8	474.3	470.9	470.3	470.9
50°	496.2	505.2	502.4	501.1	502.4
52.5°	528.5	539.4	538.1	536.6	538.7
55°	566.1	576.4	574.9	576.4	577.0
57.5°	603.8	615.4	612.6	616.1	617.5
60°	651.0	657.8	658.5	659.2	659.9
62.5°	698.9	701.7	703.7	705.8	706.4
65°	754.4	755.0	756.5	754.4	756.5
67.5°	807.8	802.9	802.3	804.3	805.7
70°	890.6	890.6	883.8	893.4	885.1
71°	901.4	914.6	899.5	920.8	898.0
72.5°	848.1	872.1	855.0	874.1	851.5
75°	590.1	645.5	644.8	672.2	650.4
77.5°	163.6	153.3	163.6	141.0	134.8
80°	44.5	40.3	43.7	37.0	41.7
82.5°	29.5	25.3	24.6	19.9	21.2
85°	17.1	13.0	13.0	10.3	11.0
87.5°	2.8	0.7	2.8	1.3	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)