

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: P226716

Luminaire Tested: **IST-AF-350-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-350-LED-E1-T4W-8030  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

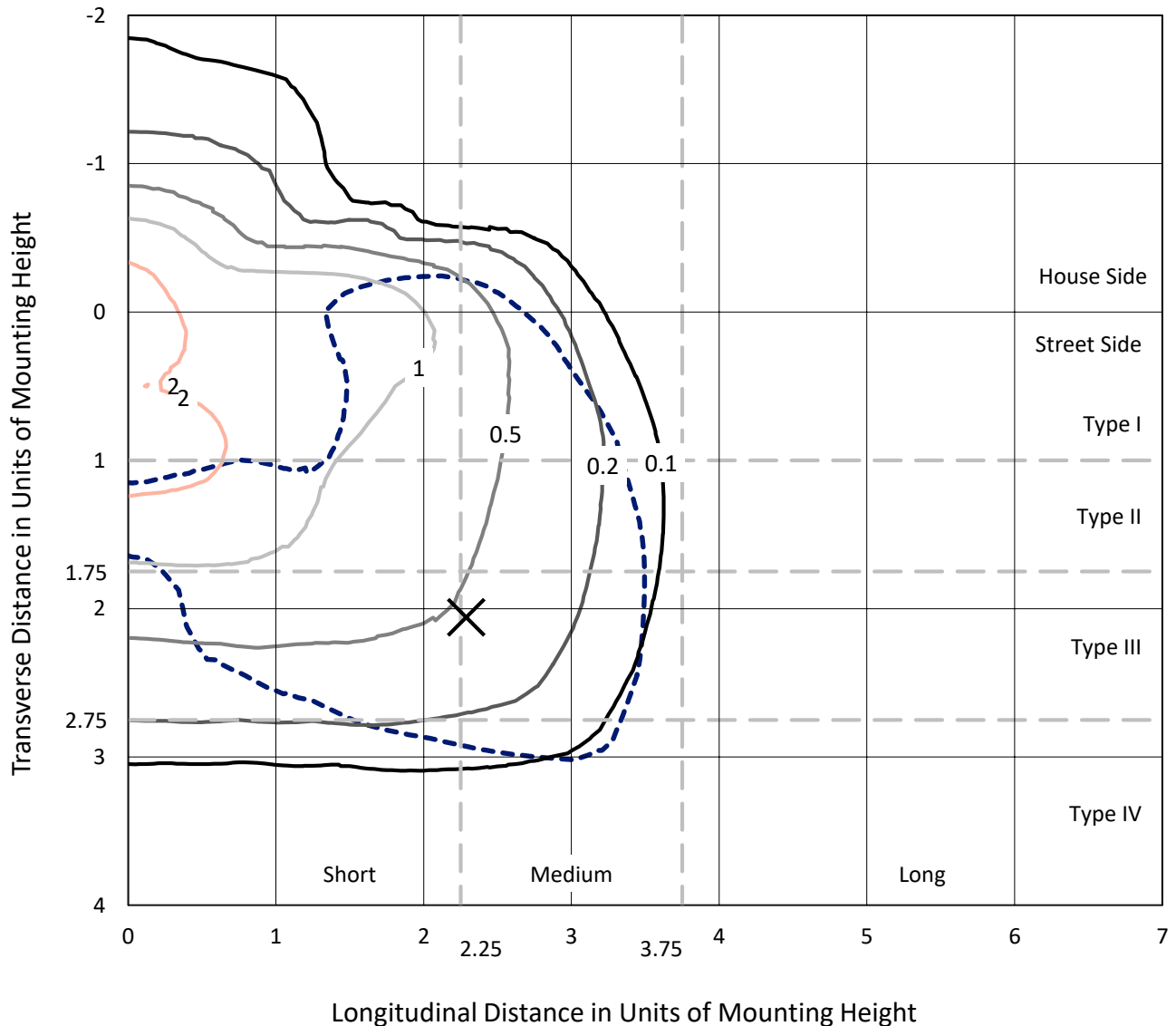
Lumens per Lamp: N/A  
Luminaire Lumens: 2040 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium - Semi-Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input 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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 CATALOG NUMBER: IST-AF-350-LED-E1-T4W-8030

### Iso-Footcandle Lines of Horizontal Illumination

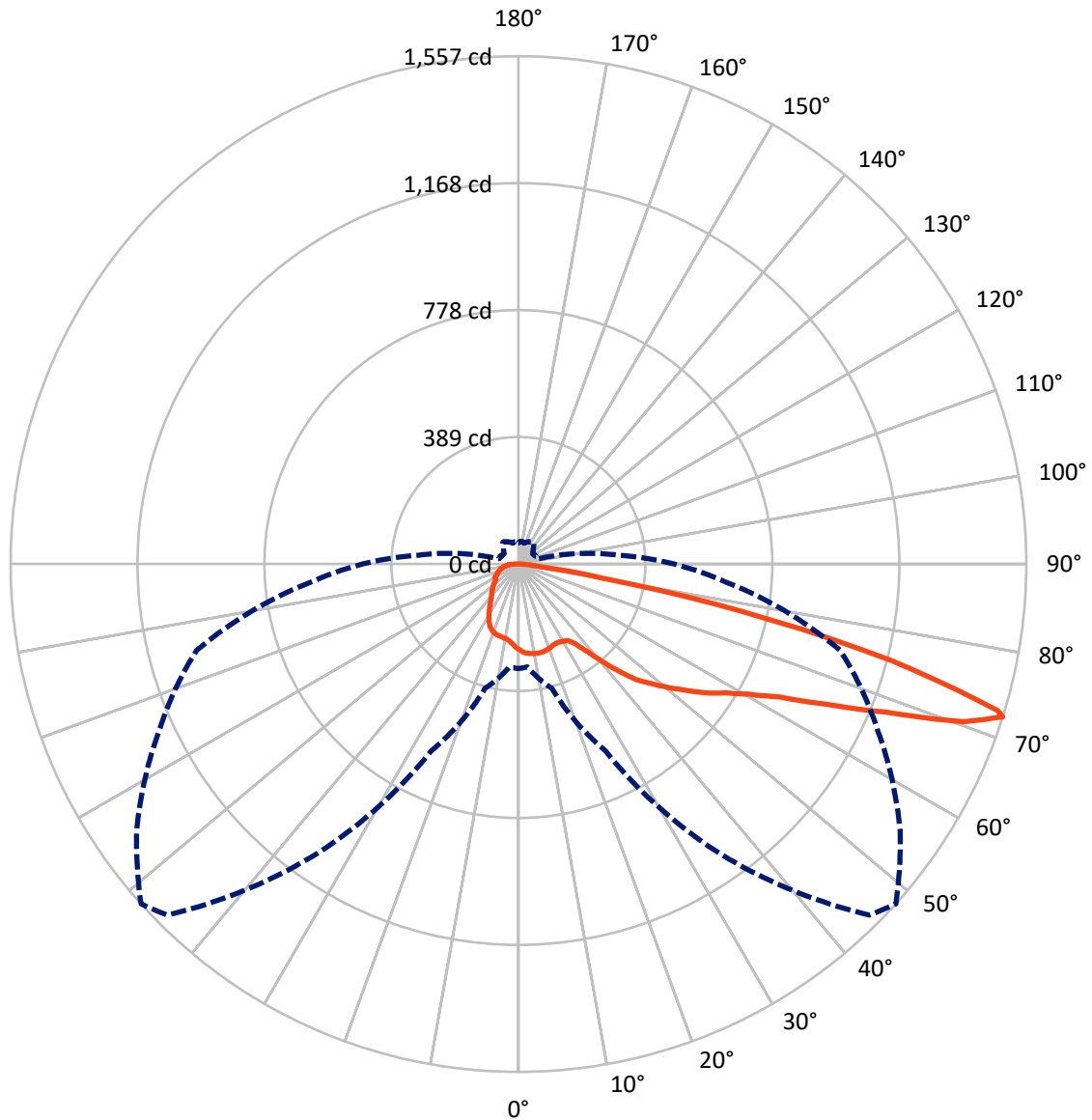
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	443.1	0.9	444.0
	% Fixture	21.7	0.0	21.8
<b>Street Side</b>	Lumens	1595.7	0.3	1596.0
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	2038.8	1.2	2040.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	1.2
10°-20°	72.5	3.6
20°-30°	111.8	5.5
30°-40°	167.5	8.2
40°-50°	279.0	13.7
50°-60°	436.0	21.4
60°-70°	575.9	28.2
70°-80°	333.1	16.3
80°-90°	38.2	1.9
90°-100°	1.2	0.1
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°	2038.8	99.9
0°-180°	2040.0	100.0



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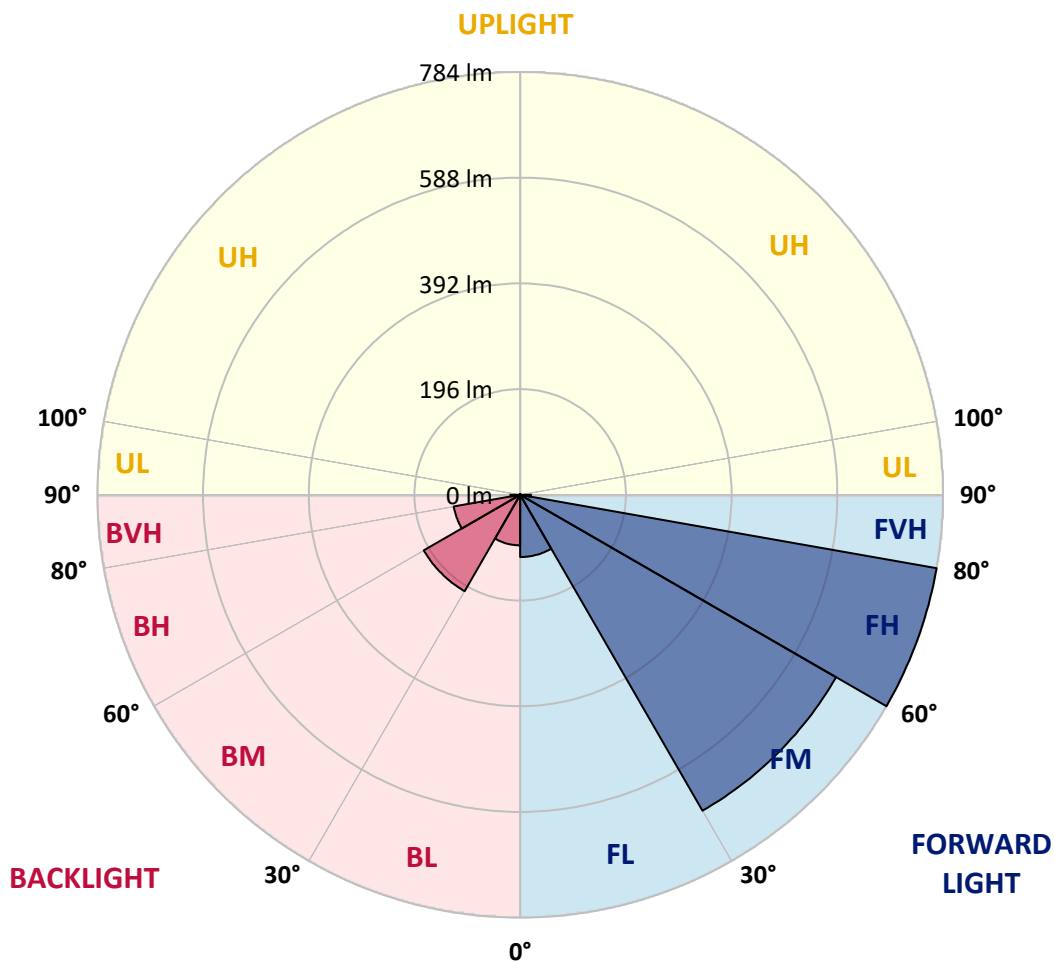
CATALOG NUMBER: IST-AF-350-LED-E1-T4W-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.3	5.7			
FM	(30°-60°)	676.3	33.2			
FH	(60°-80°)	784.0	38.4			G1/1800
FVH	(80°-90°)	20.0	1.0			G1/100
BL	(0°-30°)	93.7	4.6	B0/110		
BM	(30°-60°)	206.2	10.1	B0/220		
BH	(60°-80°)	125.0	6.1	B1/500		G1/500
BVH	(80°-90°)	18.1	0.9			G1/100
UL	(90°-100°)	1.2	0.1		U1/10	
UH	(100°-180°)	0.9	0.0		U1/10	

**BUG Rating: B1-U1-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	276.3	276.0	276.0	273.7	272.8	271.3	270.1	268.4	266.6	264.5	261.8
5°	289.7	290.5	289.4	285.8	281.4	276.6	274.9	270.7	265.1	260.1	255.3
7.5°	302.4	302.7	299.4	293.5	286.7	279.3	276.9	271.3	265.1	258.3	251.5
10°	311.6	311.8	307.1	298.8	289.7	281.4	278.7	273.1	265.4	258.0	249.4
12.5°	316.9	317.2	310.1	301.5	290.5	282.3	279.9	274.0	266.0	256.5	247.1
15°	316.0	316.9	311.0	301.5	290.0	282.6	279.6	274.6	264.5	255.0	245.0
17.5°	310.1	311.3	306.5	296.2	287.0	281.1	277.8	272.8	263.0	253.0	242.0
20°	298.5	300.0	297.9	287.9	281.7	276.9	274.9	270.1	261.0	250.6	239.4
22.5°	285.5	287.0	286.4	278.1	275.2	272.8	270.7	267.2	259.2	248.8	238.2
25°	276.0	277.2	276.3	269.2	270.1	270.1	268.9	266.3	258.9	249.4	238.2
27.5°	291.7	291.7	284.0	269.5	268.1	270.7	270.1	268.7	262.7	252.4	240.5
30°	349.1	344.7	330.8	294.4	275.8	274.6	274.3	273.4	268.1	258.9	247.9
32.5°	413.3	408.9	392.3	346.8	308.0	282.6	279.9	280.2	278.7	270.1	259.2
35°	470.4	469.8	456.8	407.4	358.0	310.7	300.0	292.9	292.3	288.8	280.2
37.5°	516.6	516.6	517.8	461.6	412.1	355.3	337.3	314.8	314.8	312.7	307.4
40°	569.3	571.6	574.3	510.7	470.1	408.6	388.2	354.2	343.8	347.1	348.2
42.5°	638.5	641.4	639.7	571.3	523.1	472.2	447.1	405.9	380.5	385.8	398.2
45°	685.2	686.4	699.1	634.6	589.7	526.1	504.8	448.2	423.1	434.0	455.9
47.5°	738.2	741.2	743.2	706.5	667.8	587.0	548.0	489.4	473.1	489.7	524.3
50°	790.0	786.1	791.7	790.3	741.7	641.2	594.7	527.8	529.0	551.5	608.3
52.5°	834.9	821.9	834.9	851.2	837.0	696.8	642.6	573.1	590.3	617.8	707.4
55°	869.6	838.2	860.1	906.3	903.0	745.9	697.4	633.5	662.2	699.7	827.8
57.5°	798.8	802.7	863.1	943.2	941.8	795.6	745.3	708.9	744.1	786.1	970.5
60°	732.9	750.0	843.2	949.2	968.7	849.7	809.8	794.7	827.3	878.4	1107.1
62.5°	698.0	714.2	811.0	938.2	1011.6	929.9	896.5	884.9	929.3	986.7	1229.0
65°	708.9	719.0	808.9	954.8	1061.0	1051.2	1036.7	1017.5	1039.7	1093.5	1284.1
67.5°	678.1	694.7	791.7	984.1	1151.2	1199.2	1211.3	1190.6	1171.9	1164.5	1203.9
70°	504.8	520.7	622.5	863.1	1225.2	1456.0	1448.6	1379.3	1253.9	1149.2	940.6
72°	320.7	316.3	394.1	632.3	1089.1	1522.0	1556.9	1428.8	1216.6	1020.5	638.8
72.5°	233.1	254.2	326.9	562.2	1034.7	1485.9	1536.7	1412.8	1167.8	963.9	561.9
75°	56.8	60.1	78.4	201.5	605.9	1118.1	1182.0	1091.5	852.4	572.2	249.1
77.5°	38.5	39.9	51.8	71.0	178.1	637.6	701.5	602.7	381.4	194.7	111.0
80°	28.7	29.6	37.6	50.3	74.0	217.5	256.5	203.9	95.0	108.0	79.0
82.5°	20.1	20.7	28.4	37.0	49.1	50.9	67.8	74.9	61.5	70.7	46.2
85°	13.9	13.9	20.7	25.4	31.1	25.1	26.9	37.6	41.7	42.0	28.1
87.5°	7.4	8.3	12.1	16.3	16.3	11.5	12.7	19.2	23.4	25.1	16.9
90°	2.7	2.7	5.0	6.2	3.8	3.0	2.7	3.8	5.6	8.0	5.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	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):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	261.3	259.5	257.1	255.9	255.3	254.2	253.0	252.4	252.4	251.2	251.5
5°	253.0	250.3	247.1	244.7	244.4	244.4	245.0	245.0	245.3	244.4	245.6
7.5°	248.8	245.9	241.1	238.5	236.4	236.1	237.3	239.7	240.8	240.0	241.1
10°	245.9	242.6	237.3	234.0	232.6	232.0	232.8	235.2	239.1	239.1	240.2
12.5°	242.9	238.8	233.4	231.1	229.9	230.2	231.4	233.1	237.3	238.8	239.4
15°	240.0	235.2	230.8	227.5	227.5	228.4	229.9	232.0	235.8	238.5	239.1
17.5°	237.0	232.3	228.4	225.7	225.7	226.9	228.4	231.1	233.7	237.6	237.6
20°	234.3	230.5	225.5	223.1	222.8	223.7	225.5	228.1	230.2	234.0	234.3
22.5°	232.8	228.1	223.4	219.8	218.4	217.8	219.5	222.2	224.3	228.1	228.7
25°	232.3	226.9	221.0	214.5	210.7	209.5	210.4	213.6	215.4	218.4	219.2
27.5°	234.3	229.3	220.1	208.3	200.3	197.0	197.9	200.0	200.6	203.9	205.3
30°	241.4	235.5	221.9	201.8	187.3	181.4	181.4	181.7	182.6	185.2	185.5
32.5°	253.0	247.3	227.2	195.0	174.0	165.7	163.6	162.1	162.1	161.8	162.1
35°	274.3	269.5	236.4	187.3	159.5	150.3	145.3	142.6	139.9	138.8	138.5
37.5°	305.0	300.9	249.4	178.4	146.8	137.6	131.4	126.0	123.1	122.8	124.3
40°	350.9	346.8	263.9	168.4	134.6	127.8	121.3	115.7	112.4	112.7	114.2
42.5°	407.4	394.7	279.6	154.7	124.9	121.3	114.2	109.5	106.2	104.4	104.1
45°	473.4	452.1	294.4	142.0	114.2	115.7	108.9	103.6	99.4	94.7	94.1
47.5°	555.6	509.5	307.4	129.3	102.7	109.8	103.3	98.2	92.0	86.4	85.5
50°	641.4	575.5	318.7	115.7	92.3	103.3	97.6	90.8	82.3	77.2	77.2
52.5°	740.6	654.8	333.1	100.6	84.3	96.2	90.5	81.7	74.6	74.0	74.0
55°	850.9	737.9	343.2	88.8	78.1	88.5	85.8	83.1	80.8	81.4	81.7
57.5°	966.3	824.6	334.3	80.5	73.1	86.7	94.4	90.8	83.4	83.1	82.8
60°	1065.7	892.0	285.2	75.2	69.2	89.6	101.2	90.8	83.4	87.3	87.6
62.5°	1130.8	924.0	189.9	68.3	63.6	84.6	98.8	88.2	83.7	94.7	95.6
65°	1121.9	888.2	109.2	63.6	60.1	77.8	95.6	84.9	78.1	84.3	82.5
67.5°	989.7	744.4	79.0	61.5	57.4	73.1	89.6	80.2	72.8	80.5	77.2
70°	711.3	506.8	68.1	59.8	55.6	67.5	85.5	77.2	69.8	75.2	70.1
72°	477.2	308.3	62.4	58.3	53.8	63.9	82.5	74.9	67.2	70.1	64.5
72.5°	406.2	243.2	60.9	57.7	53.3	63.0	81.7	74.3	66.6	69.5	64.2
75°	151.8	95.3	54.1	53.3	49.1	58.6	78.1	71.6	63.6	62.7	60.4
77.5°	78.1	60.4	46.2	47.0	44.1	53.6	74.3	67.5	58.6	55.3	54.1
80°	56.8	43.8	37.3	39.9	37.6	48.2	68.9	61.2	53.3	49.7	48.2
82.5°	35.8	27.2	28.4	31.7	32.0	42.6	62.7	55.0	47.3	44.4	42.0
85°	17.2	16.3	20.1	23.4	25.7	36.1	57.4	48.8	41.4	35.5	35.8
87.5°	9.2	12.4	12.1	15.7	19.8	29.6	50.9	39.9	33.1	26.6	26.9
90°	2.1	3.3	3.6	6.2	8.0	12.7	32.8	22.8	22.2	9.5	8.3
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)