

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: P198286

Luminaire Tested: **TT-C1-LED-E1-WQ-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198286  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C1-LED-E1-WQ-MS/DIM-8030-UPL  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3860.3 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G1

Input Watts (W): 45.4  
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

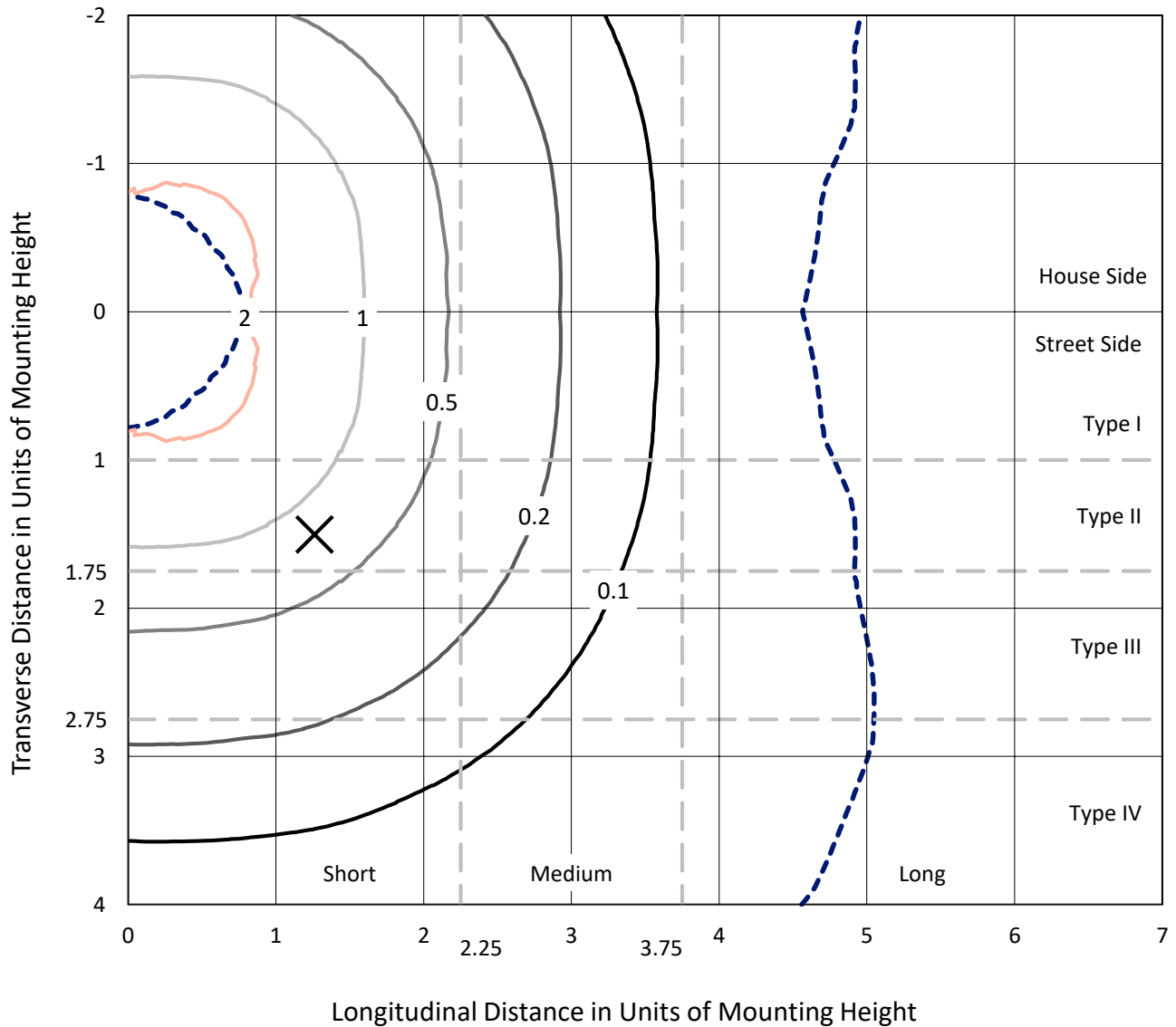


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### Iso-Footcandle Lines of Horizontal Illumination

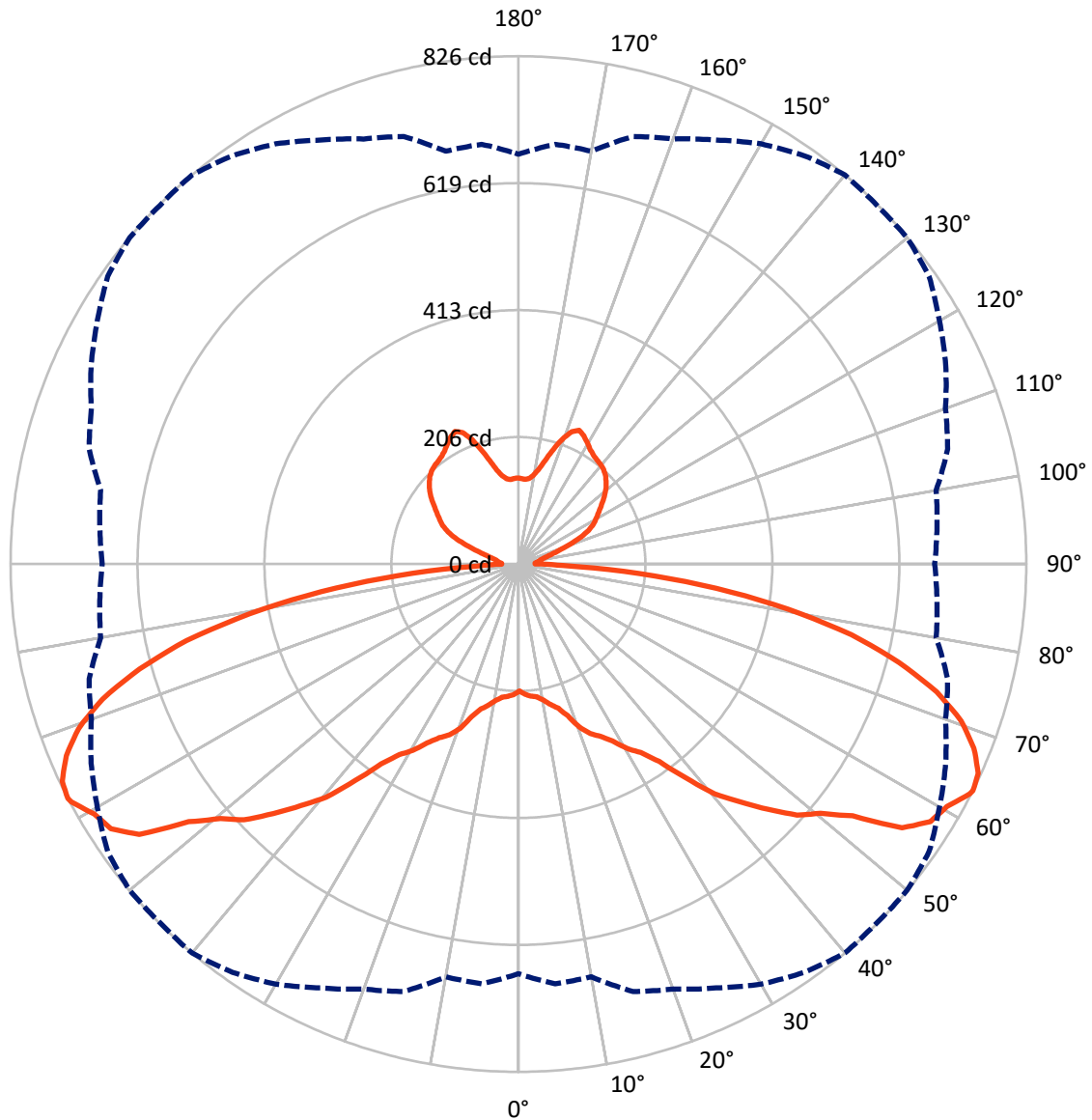
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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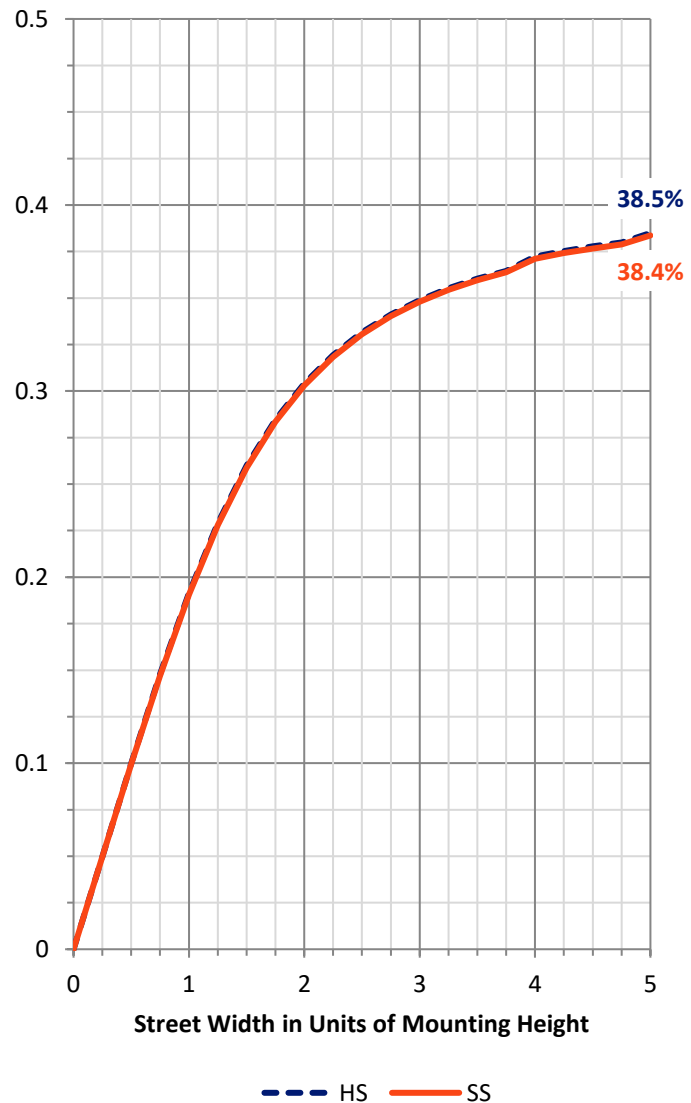
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1518.1	412.0	1930.1
	% Fixture	39.3	10.7	50.0
<b>Street Side</b>	Lumens	1518.1	412.0	1930.1
	% Fixture	39.3	10.7	50.0
<b>Total</b>	Lumens	3036.3	824.0	3860.3
	% Fixture	78.7	21.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.8	0.5
10°-20°	70.8	1.8
20°-30°	144.0	3.7
30°-40°	248.2	6.4
40°-50°	418.1	10.8
50°-60°	615.6	15.9
60°-70°	732.1	19.0
70°-80°	592.6	15.4
80°-90°	194.0	5.0
90°-100°	38.3	1.0
100°-110°	59.4	1.5
110°-120°	119.3	3.1
120°-130°	148.7	3.9
130°-140°	153.2	4.0
140°-150°	136.0	3.5
150°-160°	103.7	2.7
160°-170°	51.8	1.3
170°-180°	13.6	0.4
0°-90°	3036.3	78.7
0°-180°	3860.3	100.0



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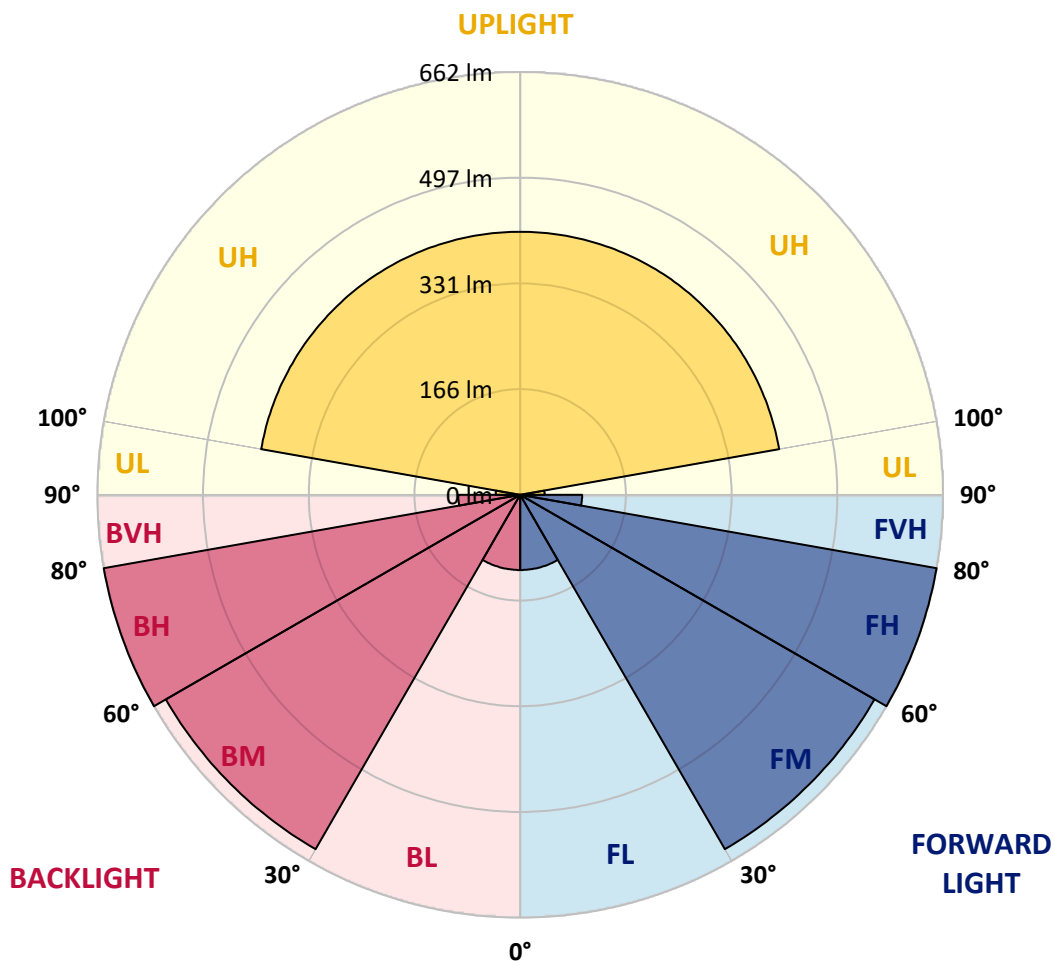
CATALOG NUMBER: TT-C1-LED-E1-WQ-MS/DIM-8030-UPL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.8	3.1			
FM (30°-60°)	641.0	16.6			
FH (60°-80°)	662.4	17.2			G1/1800
FVH (80°-90°)	97.0	2.5			G1/100
BL (0°-30°)	117.8	3.1	B1/500		
BM (30°-60°)	641.0	16.6	B1/1000		
BH (60°-80°)	662.4	17.2	B2/1000		G1/1800
BVH (80°-90°)	97.0	2.5			G1/100
UL (90°-100°)	38.3	1.0		U2/50	
UH (100°-180°)	412.0	10.7		U3/500	

**BUG Rating: B2-U4-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	206.4	206.4	206.4	206.4	206.4	206.4	206.4	206.4	206.4	206.4	206.4
2.5°	212.9	212.9	212.9	212.9	212.9	212.9	212.3	212.9	212.3	212.3	212.3
5°	217.0	217.0	217.0	217.0	216.4	216.4	215.8	215.8	215.8	215.2	215.8
7.5°	218.8	218.8	218.8	218.8	218.2	218.2	218.2	218.2	218.2	218.2	218.2
10°	222.8	222.8	223.4	224.0	225.2	225.2	225.2	225.8	225.2	225.2	225.2
12.5°	231.7	231.1	232.3	233.4	234.6	235.1	235.1	235.1	234.6	234.6	235.1
15°	244.0	242.8	243.4	244.0	244.6	245.2	245.2	244.6	243.4	243.4	243.4
17.5°	259.8	258.1	257.5	256.9	256.9	258.1	259.2	258.7	259.2	258.7	259.2
20°	278.6	277.4	277.4	277.4	278.0	280.3	282.6	283.8	283.2	282.1	283.8
22.5°	290.9	291.5	294.4	293.8	293.2	295.5	298.5	300.8	299.7	297.9	299.1
25°	304.4	304.4	308.5	310.2	308.5	308.5	309.6	311.4	310.2	309.0	310.2
27.5°	319.6	319.6	321.4	323.1	321.9	321.9	323.7	326.7	326.1	325.5	326.1
30°	337.8	335.4	333.7	336.6	339.6	340.2	341.9	346.6	347.8	347.2	348.3
32.5°	354.8	351.3	352.5	354.2	360.7	363.0	362.4	366.0	365.4	363.6	366.0
35°	371.2	375.3	377.7	381.2	383.5	386.5	386.5	392.9	394.1	392.4	394.1
37.5°	402.9	404.7	411.1	411.7	414.6	425.8	426.9	435.7	440.4	438.1	438.7
40°	446.3	445.7	450.4	457.4	463.3	477.4	481.5	487.3	491.4	489.7	492.0
42.5°	481.5	476.8	480.3	495.5	502.0	512.6	517.8	520.8	528.4	526.1	529.0
45°	506.7	508.4	513.2	528.4	532.5	541.3	553.6	558.9	568.8	565.9	567.7
47.5°	531.3	539.6	543.6	550.7	563.5	575.3	590.5	595.8	609.9	608.7	607.0
50°	563.5	570.0	574.7	580.0	597.6	616.9	629.8	632.2	636.9	633.4	639.2
52.5°	598.2	597.6	601.7	616.3	641.0	648.6	659.8	670.3	680.3	683.8	680.3
55°	643.9	629.2	646.3	667.4	677.9	696.1	723.1	737.7	757.1	760.1	754.2
57.5°	662.7	662.7	680.3	692.6	711.9	744.2	773.0	780.0	789.9	784.6	790.5
60°	660.4	682.6	682.6	704.3	736.0	764.7	775.3	787.0	800.5	799.9	799.9
62.5°	663.3	685.0	679.1	716.6	736.0	759.5	782.9	804.6	823.4	822.8	822.2
63°	666.2	685.0	681.5	719.6	735.4	760.6	788.8	810.4	825.7	824.5	825.1
65°	675.0	669.7	690.8	714.9	733.1	770.6	794.1	811.0	821.6	821.0	821.0
67.5°	658.6	646.3	676.2	685.6	720.2	753.6	771.8	791.1	798.7	798.7	797.5
70°	608.2	613.4	634.0	649.2	684.4	714.3	729.5	754.2	763.5	763.5	763.0
72.5°	557.1	565.9	580.0	601.7	635.1	658.6	676.7	699.1	711.3	710.7	710.7
75°	492.0	500.3	516.6	537.2	566.5	589.4	604.0	625.2	639.2	644.5	638.6
77.5°	418.7	421.1	436.3	457.4	483.2	499.1	521.4	541.9	553.6	553.0	551.3
80°	329.6	332.5	345.4	369.4	383.5	402.3	422.8	434.0	443.9	443.9	442.7
82.5°	227.5	234.0	246.9	262.7	277.4	293.8	305.0	316.1	324.3	323.7	321.9
85°	128.4	131.4	143.7	153.7	164.8	175.3	183.0	190.0	197.0	197.0	195.8
87.5°	38.7	34.6	41.6	45.8	51.6	56.9	60.4	67.4	72.2	66.9	66.9
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	206.4	206.4	206.4	206.4	206.4	206.4	206.4	206.4
2.5°	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.9
5°	215.8	216.4	216.4	217.0	217.0	217.0	217.0	217.0
7.5°	218.2	218.2	218.2	218.2	218.8	218.8	218.8	218.8
10°	225.2	225.8	225.2	225.2	224.0	223.4	223.4	223.4
12.5°	235.1	235.7	235.7	234.6	233.4	232.3	231.7	231.1
15°	244.6	246.3	245.2	244.6	243.4	244.0	244.0	244.6
17.5°	259.2	259.8	258.1	256.9	256.3	257.5	258.7	259.2
20°	284.4	283.2	279.8	278.6	277.4	277.4	278.6	278.6
22.5°	300.3	297.3	295.0	293.8	293.8	293.8	292.1	289.7
25°	311.4	309.6	307.9	309.0	310.2	308.5	304.4	303.8
27.5°	326.7	323.1	322.5	321.9	322.5	321.4	320.8	318.5
30°	346.6	341.9	340.7	339.6	336.0	334.9	336.0	337.8
32.5°	365.4	362.4	363.6	361.2	354.8	352.5	353.6	353.1
35°	392.4	387.1	387.1	382.3	380.6	380.0	375.3	371.2
37.5°	435.1	428.1	426.4	415.8	411.1	412.3	405.9	401.1
40°	487.3	482.1	477.4	465.7	459.2	451.0	446.9	446.9
42.5°	521.9	518.4	512.0	503.7	496.7	482.6	477.4	480.3
45°	560.1	555.4	541.9	533.7	527.2	517.2	511.4	505.5
47.5°	598.8	592.3	576.5	565.9	550.7	547.7	541.3	533.1
50°	632.8	630.4	619.3	601.7	582.3	577.6	571.8	564.1
52.5°	674.4	660.4	650.9	643.3	621.6	606.4	598.2	601.7
55°	742.4	724.8	700.8	676.7	672.1	653.9	633.4	644.5
57.5°	781.7	771.8	753.6	715.5	696.7	684.4	670.9	660.9
60°	791.1	773.0	768.8	740.1	710.2	684.4	689.6	666.2
62.5°	809.3	784.6	761.8	738.9	720.8	685.6	684.4	672.1
63°	815.2	790.5	766.5	738.9	722.5	689.6	683.2	676.7
65°	814.0	792.9	774.7	738.9	714.3	701.4	669.7	684.4
67.5°	791.7	774.1	753.0	728.4	687.3	677.3	655.1	658.0
70°	755.9	733.1	713.1	690.2	657.4	634.5	621.1	609.9
72.5°	700.2	679.7	658.6	637.4	608.2	580.6	571.2	558.9
75°	626.4	606.4	587.1	567.1	539.6	514.9	504.9	496.1
77.5°	541.9	524.9	497.3	478.6	462.7	436.3	426.9	417.5
80°	432.2	424.0	404.1	379.5	371.2	345.4	338.4	326.1
82.5°	314.3	306.1	290.3	273.3	263.3	249.8	238.1	229.9
85°	191.8	183.0	174.7	159.5	153.7	143.7	134.3	129.6
87.5°	69.2	62.1	55.7	48.6	45.2	38.1	37.0	33.4
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)