

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: P579495

Luminaire Tested: **CTN-CA10-760-740-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-740-U-T5N-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87834 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

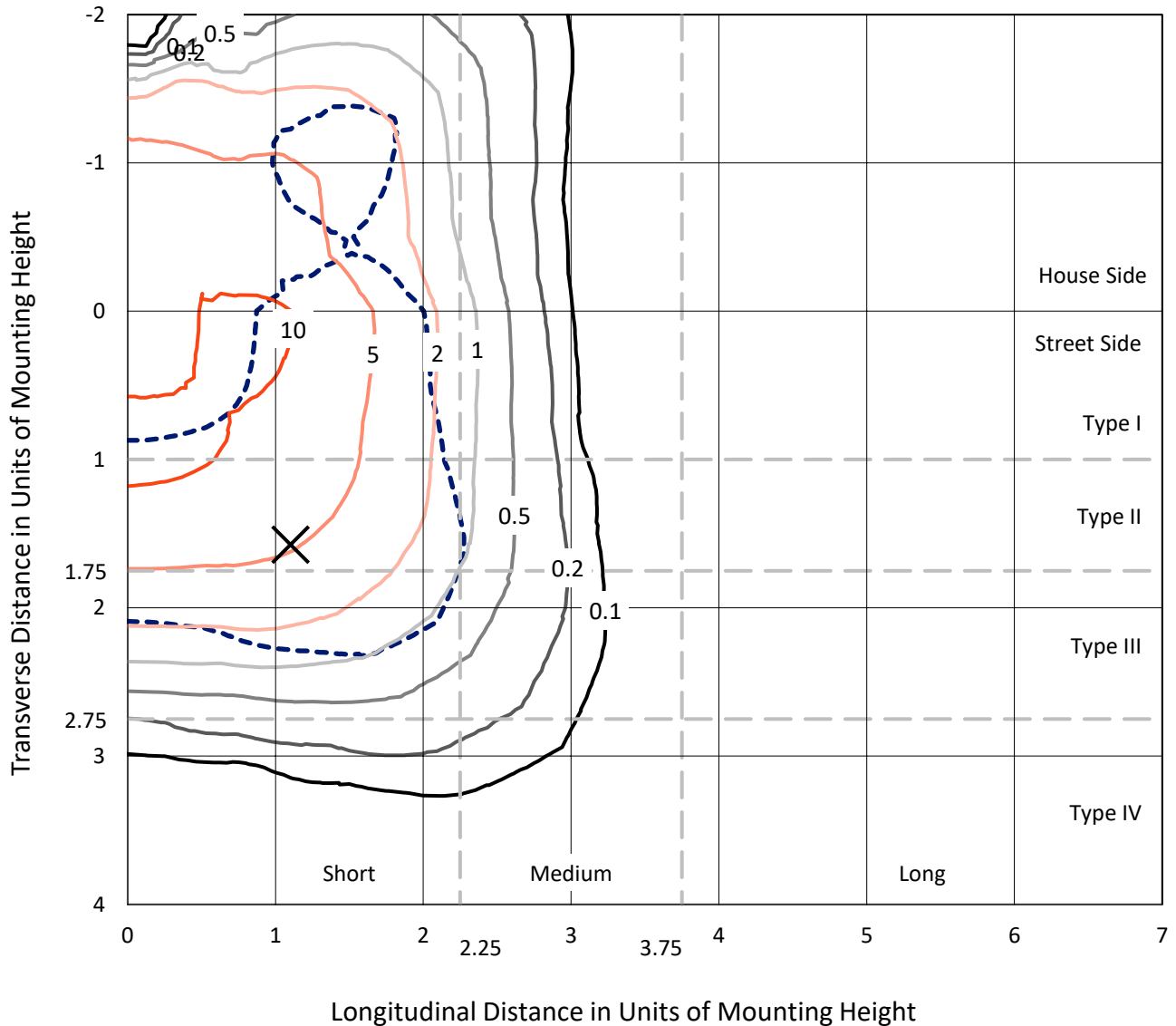
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

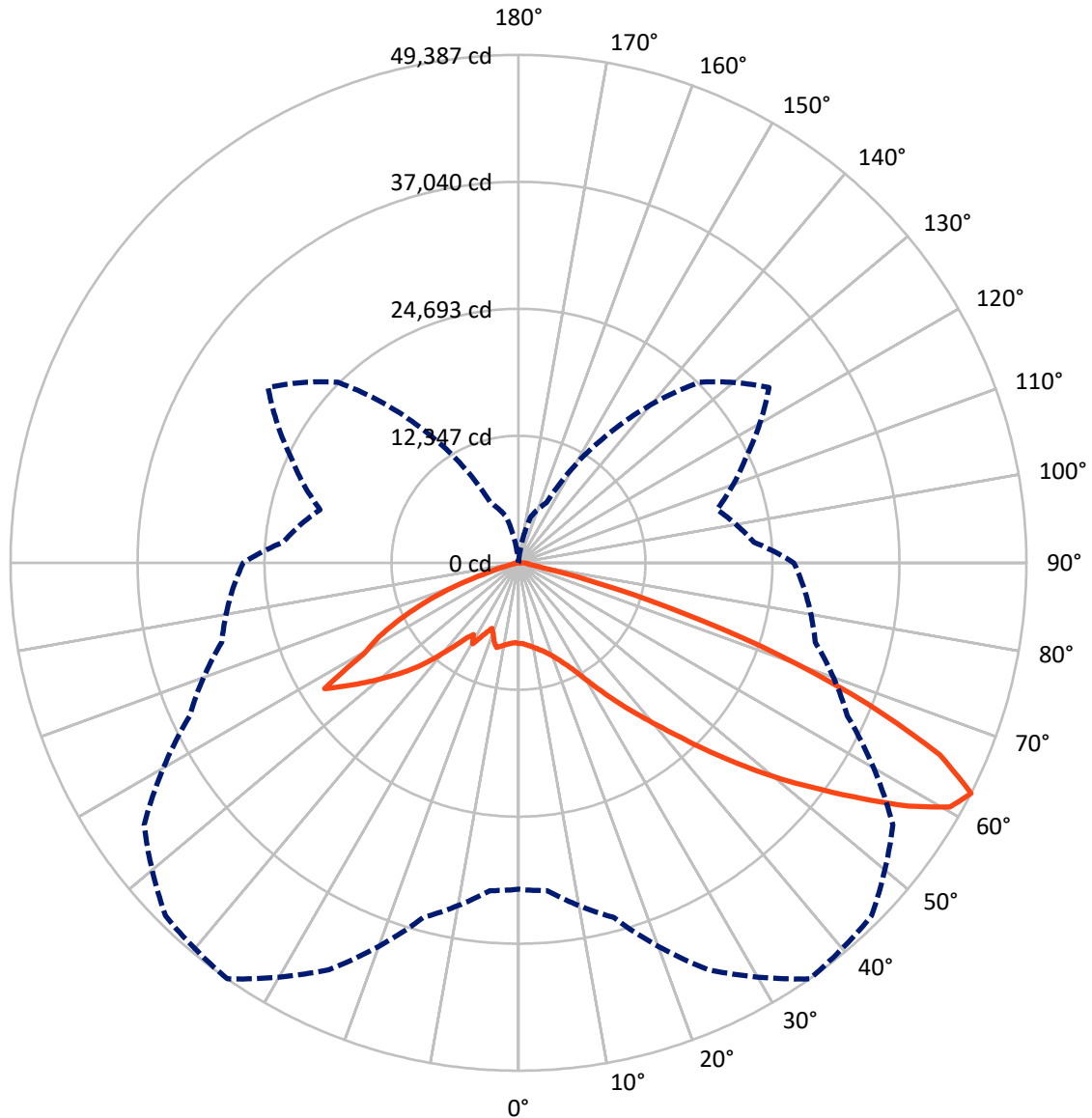
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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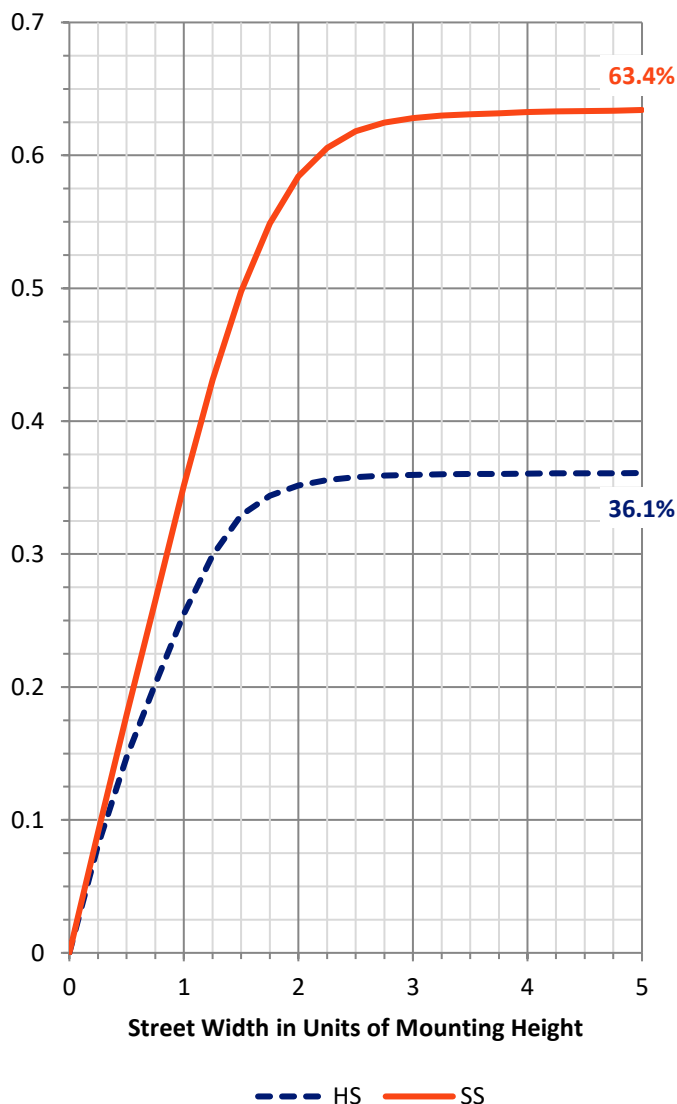
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31881.7	0.1	31881.7
	% Fixture	36.3	0.0	36.3
<b>Street Side</b>	Lumens	55910.7	41.6	55952.3
	% Fixture	63.7	0.0	63.7
<b>Total</b>	Lumens	87792.3	41.7	87834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.7	0.9
10°-20°	2497.2	2.8
20°-30°	4804.2	5.5
30°-40°	9583.9	10.9
40°-50°	17499.6	19.9
50°-60°	26150.5	29.8
60°-70°	21911.7	24.9
70°-80°	4100.6	4.7
80°-90°	472.0	0.5
90°-100°	37.5	0.0
100°-110°	4.0	0.0
110°-120°	0.1	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°	87792.3	100.0
0°-180°	87834.0	100.0

**Coefficient of Utilization**

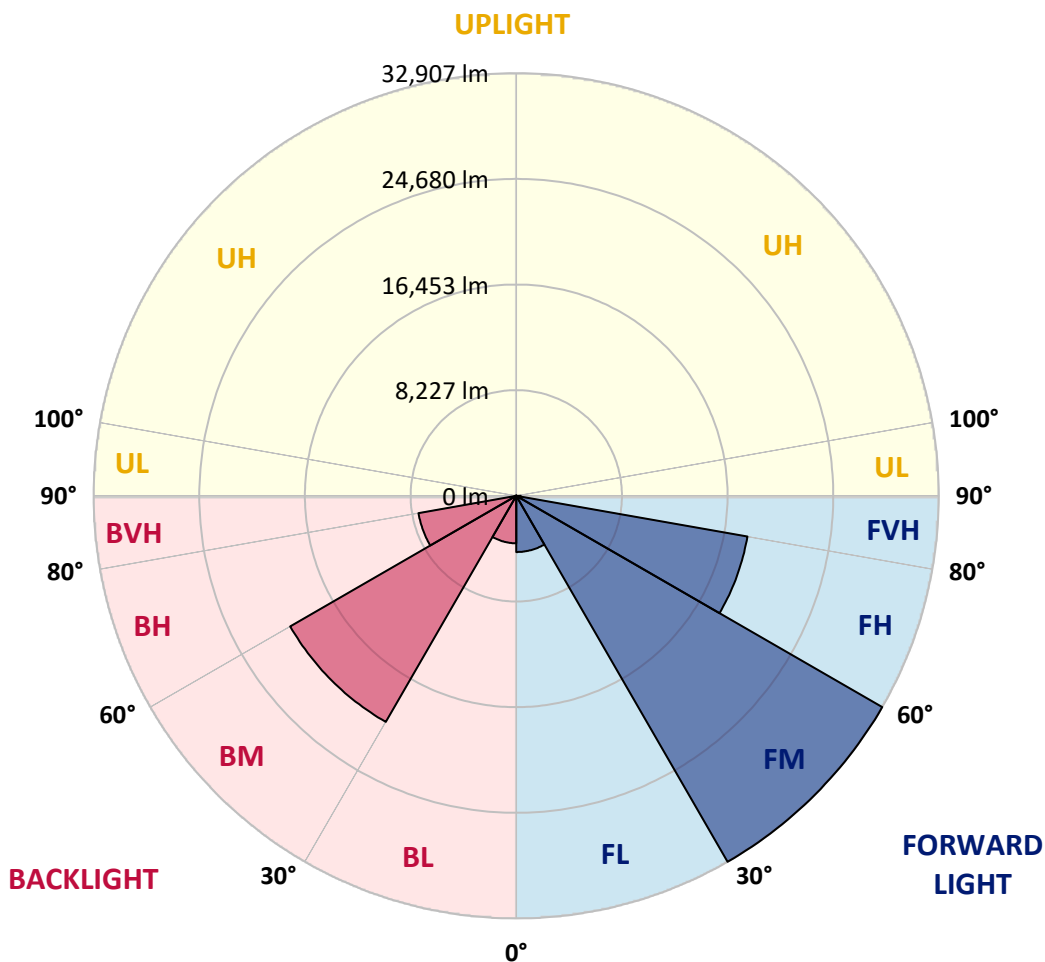


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4379.6	5.0			
FM	(30°-60°)	32906.6	37.5			
FH	(60°-80°)	18280.7	20.8			G5
FVH	(80°-90°)	343.7	0.4			G3/500
BL	(0°-30°)	3694.5	4.2	B4/5000		
BM	(30°-60°)	20327.4	23.1	B5		
BH	(60°-80°)	7731.5	8.8	B5		G5
BVH	(80°-90°)	128.3	0.1			G2/225
UL	(90°-100°)	37.5	0.0		U2/50	
UH	(100°-180°)	4.1	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1
2.5°	8027.0	7961.1	7971.0	8017.1	7872.3	7931.5	7869.0	7928.2	7908.5	7934.8	7954.6
5°	8142.2	8059.9	8066.5	8119.2	8007.2	8056.6	7994.1	8033.6	8000.7	8036.9	8040.2
7.5°	8300.3	8231.1	8221.3	8273.9	8178.4	8221.3	8158.7	8178.4	8145.5	8188.3	8175.2
10°	8511.0	8448.4	8432.0	8468.2	8392.5	8415.5	8349.7	8376.0	8326.6	8376.0	8352.9
12.5°	8744.7	8662.4	8665.7	8705.2	8629.5	8646.0	8593.3	8622.9	8563.7	8616.3	8599.9
15°	9021.3	8902.8	8925.8	8968.6	8896.2	8945.6	8883.0	8925.8	8869.9	8925.8	8906.1
17.5°	9380.2	9245.2	9261.7	9330.8	9271.5	9350.6	9278.1	9330.8	9304.5	9340.7	9334.1
20°	9834.6	9745.7	9729.2	9814.8	9729.2	9828.0	9788.5	9880.6	9887.2	9923.4	9939.9
22.5°	10440.4	10381.1	10341.6	10400.9	10325.1	10394.3	10450.2	10608.3	10667.5	10763.0	10769.6
25°	11247.0	11243.7	11154.8	11158.1	11062.6	11154.8	11312.9	11559.8	11717.8	11839.7	11793.6
27.5°	12336.8	12356.6	12221.6	12168.9	12057.0	12195.2	12521.2	12827.4	13113.8	13285.0	13285.0
30°	13759.2	13778.9	13581.4	13476.0	13373.9	13614.3	14002.8	14401.2	14809.4	15056.4	15000.4
32.5°	15642.4	15579.9	15296.7	15105.8	14931.3	15207.8	15655.6	16106.7	16663.1	17018.7	16975.9
35°	17927.4	17700.2	17417.1	17061.5	16686.1	16903.4	17324.9	17891.2	18664.9	19198.3	19063.3
37.5°	20581.1	20357.2	19873.2	19260.8	18605.6	18632.0	18964.5	19945.7	20913.6	21348.3	21256.1
40°	23336.9	23162.4	22717.9	21931.0	20745.7	20472.5	21019.0	22201.0	23126.2	23672.7	23518.0
42.5°	26145.4	25967.6	25631.7	24841.5	23271.0	22612.6	23182.1	24469.5	25457.2	25993.9	25816.1
45°	28947.2	28743.1	28476.4	27778.4	26280.3	25315.7	25635.0	26817.0	27719.1	28328.2	27962.8
47.5°	31410.0	31275.0	31093.9	30810.8	29500.4	28433.6	28410.6	29190.9	29813.1	30214.8	29767.0
50°	33553.4	33457.9	33560.0	33500.7	33023.3	32052.0	31456.1	31403.4	31604.2	31897.3	31258.5
52.5°	35476.2	35308.2	35686.9	36157.7	36510.0	36312.4	34383.1	33299.8	33079.3	33178.0	32453.7
55°	37050.0	36970.9	37606.4	38788.4	40418.1	40852.7	37389.1	35143.6	34330.4	34277.7	33454.6
57.5°	38011.3	38123.3	39394.2	41646.2	44635.8	44774.0	41079.9	37115.8	35548.6	34982.3	34034.1
60°	36480.4	36911.7	39081.4	43727.0	48214.7	48300.3	43789.6	37478.0	34027.5	32759.9	31584.5
62.5°	31745.8	32002.6	35693.5	43657.9	49386.8	48550.5	44434.9	35291.8	29875.7	27854.1	26767.6
65°	22362.3	22843.0	26797.3	39278.9	45004.5	45109.9	40763.8	30514.4	23857.1	21621.5	20920.2
67.5°	13505.6	13966.6	18177.6	28354.6	36585.7	37767.7	34004.4	23103.1	17107.6	14282.7	13574.8
70°	4385.5	4886.0	8283.8	16712.5	26912.5	29747.3	25588.9	15036.6	8958.8	6275.4	5514.9
72.5°	1666.0	1817.4	2696.5	7299.4	16761.9	19860.1	15826.8	7543.0	2775.5	1652.8	1452.0
75°	1083.2	1106.3	1261.0	2558.2	8083.0	10934.2	7628.6	2209.2	1112.8	987.7	915.3
77.5°	931.8	948.2	1014.1	1274.2	2574.7	4181.4	2189.5	1129.3	928.5	823.1	773.7
80°	879.1	885.7	928.5	1079.9	1205.0	1396.0	1053.6	944.9	809.9	773.7	737.5
82.5°	833.0	856.0	879.1	981.2	977.9	1004.2	846.2	740.8	688.1	724.3	711.2
85°	777.0	790.2	806.7	875.8	796.8	675.0	651.9	510.3	497.2	530.1	497.2
87.5°	546.5	579.5	559.7	589.3	553.1	431.3	365.5	289.7	230.5	191.0	184.4
90°	223.9	227.2	214.0	197.5	174.5	144.9	115.2	72.4	32.9	16.5	6.6
92.5°	174.5	174.5	167.9	151.5	131.7	108.7	82.3	46.1	23.0	9.9	3.3
95°	108.7	111.9	105.4	95.5	82.3	65.8	49.4	26.3	16.5	6.6	3.3
97.5°	69.1	69.1	62.6	56.0	46.1	32.9	23.0	19.8	13.2	6.6	0.0
100°	39.5	39.5	36.2	29.6	23.0	16.5	16.5	13.2	9.9	3.3	0.0
102.5°	23.0	23.0	16.5	13.2	9.9	9.9	9.9	9.9	6.6	3.3	0.0
105°	9.9	9.9	6.6	6.6	3.3	3.3	6.6	6.6	6.6	3.3	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	6.6	3.3	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1	7859.1
2.5°	7941.4	7882.1	7892.0	7836.0	7826.2	7770.2	7882.1	7895.3	7862.4	7892.0
5°	8033.6	7961.1	7984.2	7921.6	7911.8	7836.0	7934.8	7928.2	7901.9	7931.5
7.5°	8171.9	8096.1	8109.3	8040.2	8027.0	7944.7	8036.9	8007.2	7980.9	8017.1
10°	8366.1	8280.5	8287.1	8198.2	8208.1	8099.4	8211.4	8158.7	8125.8	8175.2
12.5°	8599.9	8504.4	8507.7	8415.5	8412.2	8306.9	8405.6	8376.0	8326.6	8402.3
15°	8902.8	8794.1	8784.3	8662.4	8629.5	8511.0	8603.2	8547.2	8514.3	8622.9
17.5°	9327.5	9205.7	9169.5	9021.3	8405.6	8050.0	8543.9	8711.8	8507.7	8474.8
20°	9893.8	9791.7	9709.4	9485.6	8451.7	7342.2	6522.3	6528.9	7391.6	7789.9
22.5°	10661.0	10539.1	10384.4	10065.0	7753.7	6877.9	6881.2	6871.3	5896.8	5485.2
25°	11711.2	11563.1	11247.0	9442.7	8231.1	7421.2	7401.4	6436.7	5900.1	5929.7
27.5°	13130.3	12827.4	10977.0	10229.6	9080.6	8125.8	7651.7	6479.5	6545.4	6591.5
30°	14934.6	13716.4	11862.7	11418.2	10101.2	9060.8	7075.5	7236.8	7368.5	7398.1
32.5°	16784.9	13755.9	13278.5	12807.6	11359.0	8244.3	7974.3	8280.5	8418.8	8435.3
35°	16768.5	15441.6	14825.9	14295.8	12524.5	8820.5	8991.7	9462.5	9814.8	9798.3
37.5°	17746.3	17301.8	16567.6	15896.0	11273.4	9936.6	10242.8	10776.2	11204.2	11191.0
40°	19790.9	19277.3	18500.3	17091.1	12481.7	11214.1	11642.1	12215.0	12517.9	12534.4
42.5°	21723.6	21298.9	20505.4	15968.4	13992.9	12751.7	13140.2	13525.4	13713.1	13772.3
45°	23646.4	23343.5	20702.9	17647.5	15820.2	14299.1	14555.9	14628.4	14825.9	14802.9
47.5°	25207.0	24871.2	19906.2	19754.7	18036.0	15767.5	15747.8	15652.3	15724.7	15741.2
50°	26632.6	22586.2	21506.3	22010.0	20360.5	17265.6	16890.3	16696.0	16597.2	16554.4
52.5°	27758.7	22592.8	23001.1	24341.1	22984.6	18892.1	18085.4	17538.9	15356.0	17064.8
55°	28716.8	23524.6	24416.8	26833.5	25246.5	20594.3	19165.4	18190.8	10249.4	8218.0
57.5°	29266.6	24232.4	25819.4	29167.8	27222.0	22487.4	17644.2	15257.2	5794.7	5788.1
60°	27143.0	22961.6	25779.9	30392.6	26652.4	17443.4	7184.1	6012.0	1096.4	1126.0
62.5°	22978.0	19975.3	24449.7	29721.0	24821.8	15346.1	6443.3	4629.2	36.2	29.6
65°	17802.3	15935.5	20587.7	26142.1	22582.9	12804.3	4803.7	3335.3	9.9	0.0
67.5°	11645.4	11230.6	15191.4	21677.5	18418.0	9920.2	3223.3	1596.8	6.6	0.0
70°	4965.0	5751.9	9623.8	15718.2	14098.3	6825.3	1554.0	576.2	3.3	0.0
72.5°	1389.4	1840.5	4283.5	9209.0	8866.6	3588.8	605.8	243.6	3.3	0.0
75°	823.1	707.9	1228.1	3674.4	4316.4	1261.0	279.9	187.7	3.3	0.0
77.5°	684.8	553.1	704.6	938.3	1307.1	454.4	237.1	167.9	0.0	0.0
80°	642.0	490.6	609.1	655.2	645.3	378.6	233.8	167.9	0.0	0.0
82.5°	609.1	428.0	503.7	503.7	540.0	349.0	220.6	164.6	0.0	0.0
85°	457.7	299.6	335.8	434.6	388.5	246.9	161.3	131.7	0.0	0.0
87.5°	174.5	108.7	131.7	138.3	111.9	56.0	13.2	13.2	0.0	0.0
90°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	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
97.5°	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
102.5°	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
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)