

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: P522144

Luminaire Tested: **CTN-CA10-630-722-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-630-722-U-T5R-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57933 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

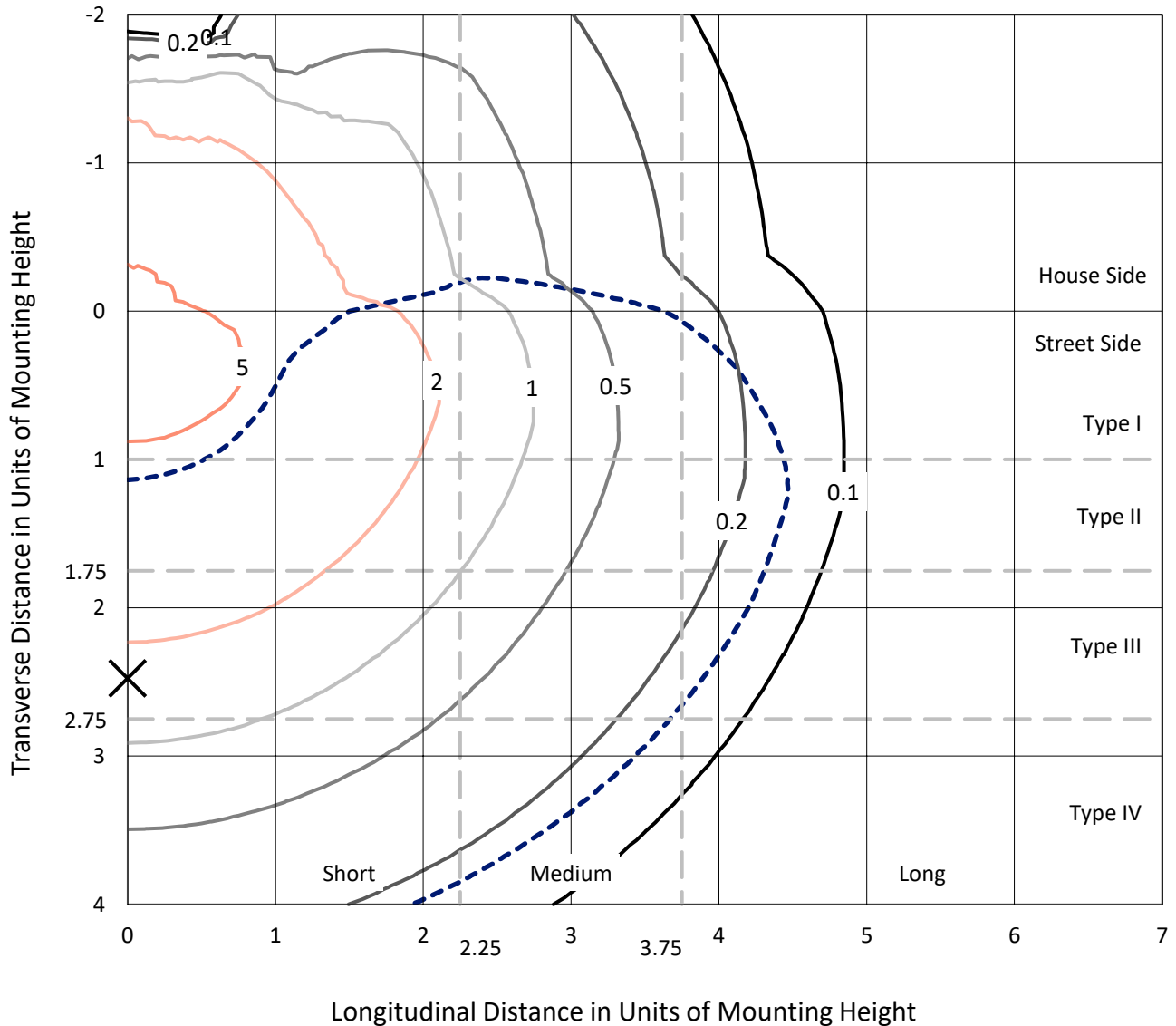
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

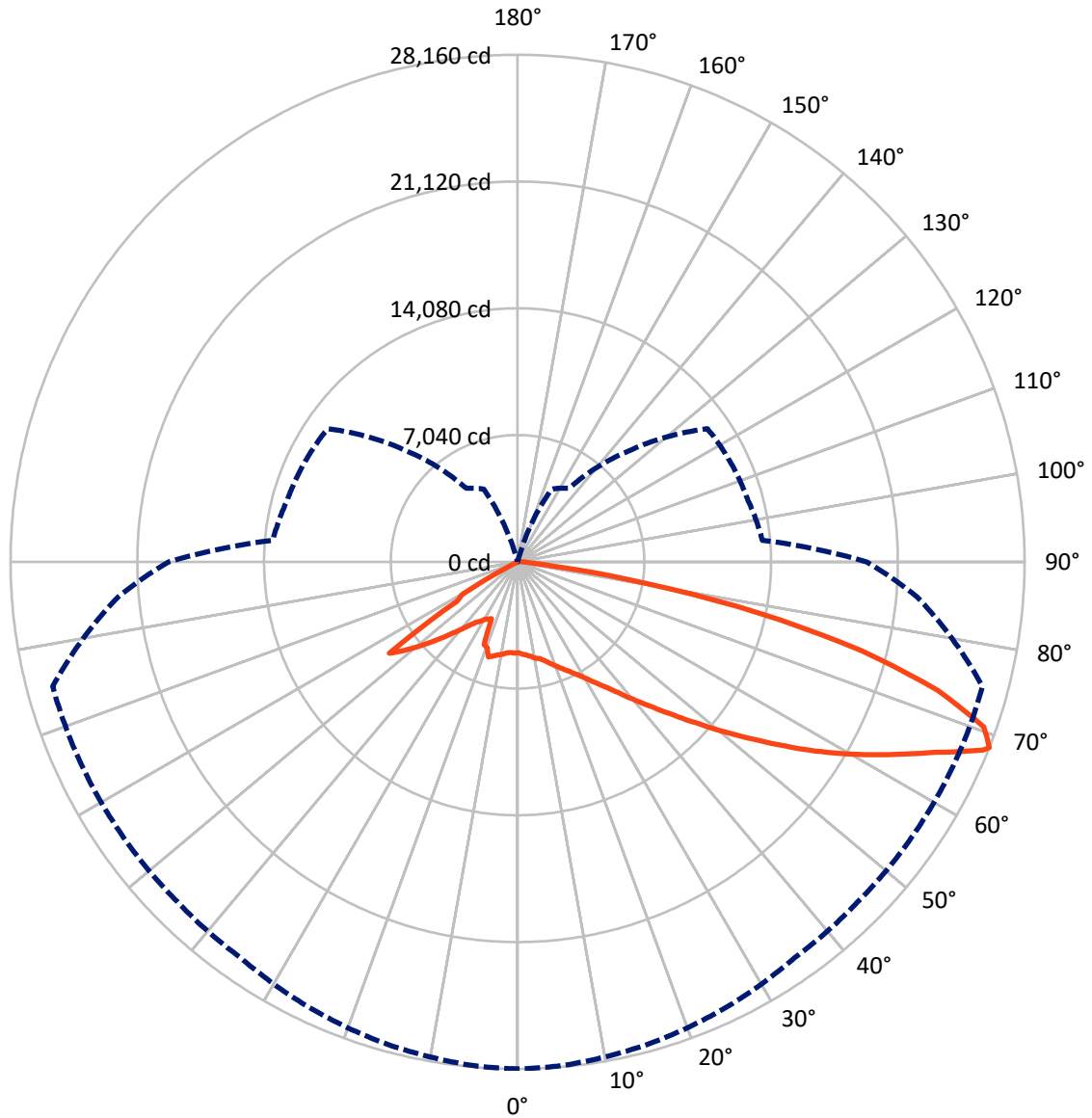
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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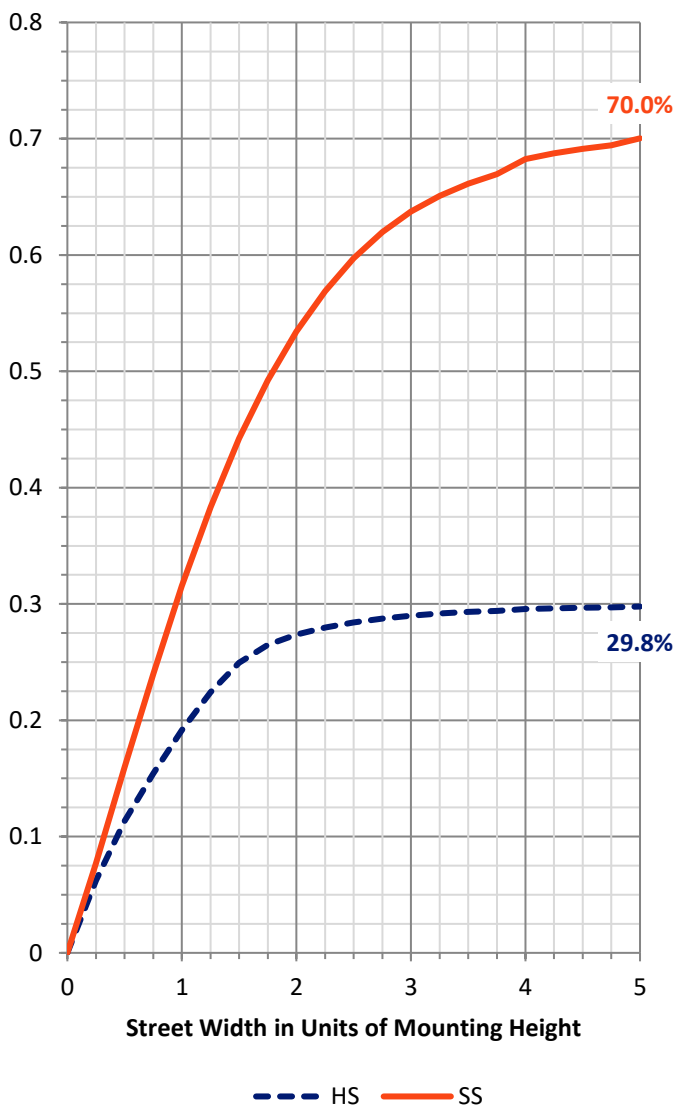
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17269.2	2.7	17271.9
	% Fixture	29.8	0.0	29.8
<b>Street Side</b>	Lumens	40637.4	23.7	40661.1
	% Fixture	70.1	0.0	70.2
<b>Total</b>	Lumens	57906.6	26.4	57933.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.2	0.8
10°-20°	1560.2	2.7
20°-30°	2672.4	4.6
30°-40°	4335.2	7.5
40°-50°	7311.1	12.6
50°-60°	11917.3	20.6
60°-70°	15983.0	27.6
70°-80°	12414.7	21.4
80°-90°	1222.7	2.1
90°-100°	23.2	0.0
100°-110°	1.3	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	57906.6	100.0
0°-180°	57933.0	100.0

**Coefficient of Utilization**

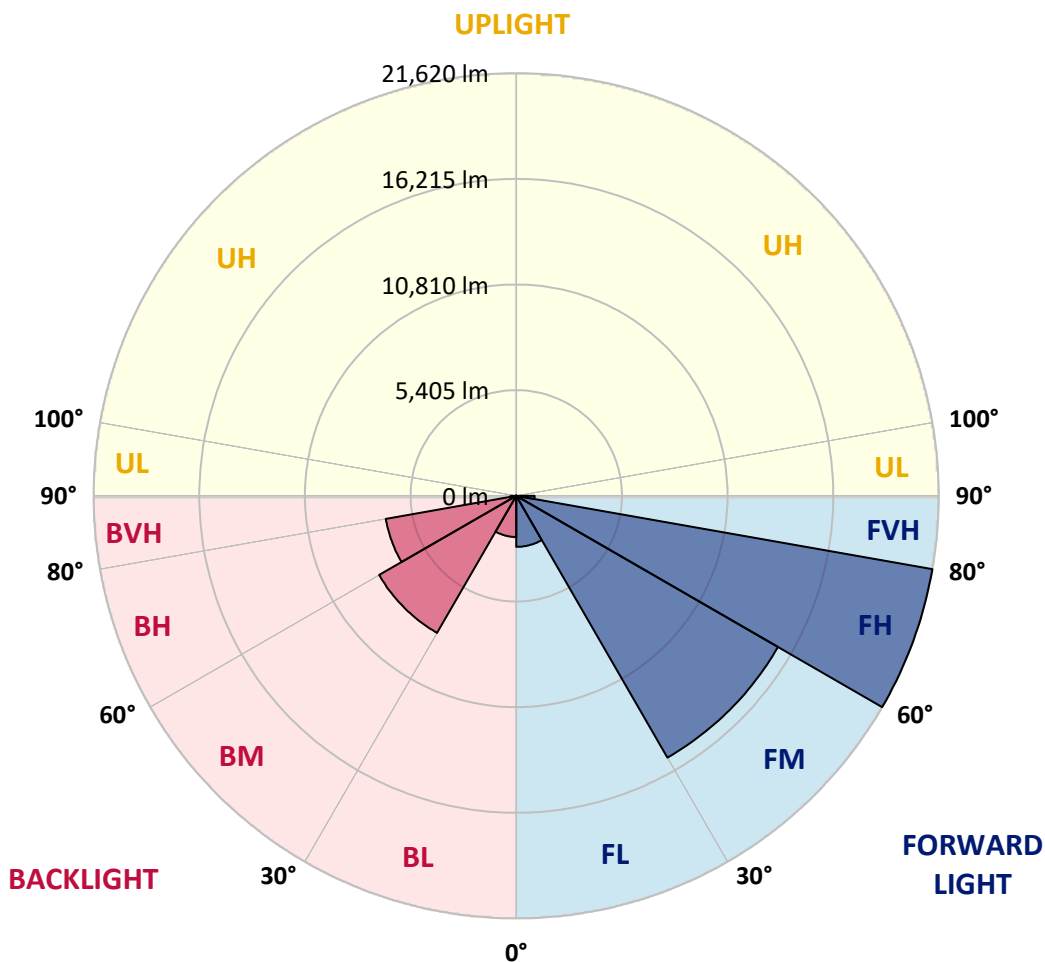


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.1	4.5			
FM (30°-60°)	15464.3	26.7			
FH (60°-80°)	21619.9	37.3			G5
FVH (80°-90°)	940.1	1.6			G5
BL (0°-30°)	2109.6	3.6	B3/2500		
BM (30°-60°)	8099.2	14.0	B4/8500		
BH (60°-80°)	6777.8	11.7	B5		G5
BVH (80°-90°)	282.6	0.5			G3/500
UL (90°-100°)	23.2	0.0		U2/50	
UH (100°-180°)	3.2	0.0		U1/10	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7
2.5°	5134.5	5120.2	5117.8	5146.5	5055.5	5101.0	5060.3	5093.8	5072.3	5089.0	5091.4
5°	5204.0	5177.7	5160.9	5194.4	5136.9	5158.5	5113.0	5127.4	5067.5	5101.0	5105.8
7.5°	5304.7	5261.5	5256.7	5266.3	5216.0	5232.8	5158.5	5175.3	5132.1	5113.0	5129.8
10°	5441.2	5400.5	5369.3	5390.9	5323.8	5333.4	5254.3	5256.7	5225.6	5189.7	5218.4
12.5°	5517.9	5522.7	5508.3	5525.1	5470.0	5438.8	5383.7	5364.6	5333.4	5290.3	5275.9
15°	5709.6	5700.0	5671.2	5697.6	5690.4	5661.7	5594.6	5551.4	5484.4	5460.4	5436.4
17.5°	5944.4	5913.2	5889.3	5922.8	5958.8	5898.9	5834.2	5774.3	5685.6	5637.7	5608.9
20°	6191.2	6169.6	6145.6	6198.4	6210.3	6164.8	6116.9	6028.2	5925.2	5862.9	5803.0
22.5°	6466.7	6423.6	6430.8	6500.2	6478.7	6457.1	6394.8	6322.9	6198.4	6119.3	5946.8
25°	6751.8	6727.9	6761.4	6792.6	6775.8	6730.3	6699.1	6646.4	6507.4	6411.6	6160.0
27.5°	7106.4	7068.1	7111.2	7123.2	7108.8	7096.8	7053.7	7013.0	6862.0	6754.2	6440.3
30°	7523.3	7477.8	7547.3	7530.5	7516.1	7525.7	7499.4	7410.7	7276.5	7130.4	6816.5
32.5°	8019.3	7959.4	8038.5	8002.5	7969.0	8036.1	7973.8	7889.9	7731.8	7561.7	7255.0
35°	8594.3	8596.7	8637.4	8577.5	8565.6	8637.4	8596.7	8493.7	8347.5	8170.2	7734.2
37.5°	9291.5	9272.4	9375.4	9346.6	9303.5	9399.4	9411.3	9282.0	9018.4	8843.5	8328.4
40°	10139.7	10134.9	10168.5	10173.3	10161.3	10206.8	10228.4	10055.9	9885.7	9622.2	7858.8
42.5°	11045.4	11064.6	11124.4	11081.3	11138.8	11198.7	11205.9	11062.2	10817.8	9231.6	8347.5
45°	12133.1	12193.0	12233.8	12224.2	12250.6	12336.8	12344.0	12267.3	12027.7	10000.7	9234.0
47.5°	13381.4	13438.9	13450.9	13527.6	13503.6	13625.8	13609.1	13611.5	13355.1	11071.7	10199.6
50°	14816.6	14843.0	14941.2	14984.3	14924.4	15089.8	15046.6	15099.3	14783.1	12298.5	11237.1
52.5°	16340.5	16386.0	16426.7	16589.6	16513.0	16656.7	16599.2	16721.4	16354.8	13546.8	12389.5
55°	18072.7	18079.9	18149.4	18314.7	18214.1	18386.6	18302.8	18348.3	18056.0	14926.8	13589.9
57.5°	19908.0	19884.1	19910.4	20042.2	19951.2	20080.6	20047.0	20090.1	19817.0	16378.8	14466.8
60°	21724.2	21688.2	21726.6	21815.2	21690.6	21913.5	21793.7	21834.4	21539.7	17861.9	15717.5
62.5°	23549.9	23523.6	23480.4	23569.1	23387.0	23502.0	23552.3	23485.2	23226.5	19203.6	16805.3
65°	25509.8	25483.4	25325.3	25380.4	25054.6	24999.5	25018.6	25040.2	24867.7	20533.4	17998.5
67.5°	27891.4	27853.1	27556.0	27182.2	26712.6	26609.5	26619.1	26676.6	26700.6	22244.1	19395.3
68°	28159.7	28090.3	27759.6	27325.9	26834.8	26715.0	26703.0	26715.0	26727.0	22258.5	19380.9
70°	27474.5	27448.1	27196.6	26671.8	26168.7	25881.2	25632.0	25622.4	25507.4	21120.4	18309.9
72.5°	24381.3	24347.8	24048.3	23676.9	23365.4	22915.0	22591.5	22610.7	22421.4	18666.9	16026.6
75°	19730.7	19728.3	19369.0	19057.5	19062.3	19028.7	18920.9	19110.2	18913.7	15832.5	13669.0
77.5°	13750.4	13798.3	13774.4	13592.3	13848.7	14203.3	14589.0	14953.2	14840.6	12506.9	10899.2
80°	7183.1	7317.3	7791.7	7813.2	7992.9	8337.9	8601.5	8845.9	8862.7	7096.8	6296.6
82.5°	1909.6	1950.3	2110.8	2065.3	2050.9	2120.4	2177.9	2185.1	2189.9	1849.7	1727.5
85°	594.2	611.0	591.8	565.4	524.7	479.2	467.2	381.0	301.9	249.2	218.0
87.5°	421.7	450.4	407.3	383.4	340.2	323.5	289.9	227.6	177.3	124.6	83.9
90°	218.0	222.8	198.9	170.1	158.1	148.5	127.0	91.0	45.5	24.0	21.6
92.5°	110.2	112.6	98.2	83.9	71.9	62.3	47.9	26.4	14.4	7.2	2.4
95°	43.1	45.5	40.7	35.9	28.8	21.6	19.2	14.4	9.6	4.8	2.4
97.5°	14.4	14.4	14.4	12.0	12.0	12.0	12.0	9.6	7.2	4.8	2.4
100°	0.0	0.0	0.0	2.4	4.8	7.2	7.2	7.2	4.8	2.4	2.4
102.5°	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8	4.8	2.4	2.4
105°	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
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	2.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
175°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
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°	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7
2.5°	5079.4	5065.1	5072.3	5012.4	5026.7	4988.4	5069.9	5048.3	5038.7	5072.3
5°	5091.4	5038.7	5081.8	5041.1	5048.3	4993.2	5060.3	5033.9	5031.5	5050.7
7.5°	5096.2	5069.9	5110.6	5043.5	5065.1	5043.5	5093.8	5067.5	5091.4	5108.2
10°	5163.3	5148.9	5144.1	5120.2	5136.9	5089.0	5151.3	5151.3	5163.3	5208.8
12.5°	5261.5	5242.4	5230.4	5187.3	5204.0	5189.7	5240.0	5249.6	5271.1	5290.3
15°	5395.7	5362.2	5350.2	5311.8	5323.8	5321.4	5357.4	5359.8	5407.7	5405.3
17.5°	5568.2	5520.3	5534.7	5505.9	5508.3	5489.1	5470.0	5470.0	5513.1	5522.7
20°	5774.3	5501.1	5141.7	4940.5	4904.5	4930.9	5033.9	5204.0	4990.8	5050.7
22.5°	5402.9	5156.1	5139.3	5093.8	5065.1	4422.9	4257.6	4204.9	4480.4	4954.8
25°	5450.8	5345.4	5314.2	5256.7	4408.6	4401.4	4353.5	4274.4	3493.3	3476.5
27.5°	5704.8	5601.8	5551.4	4605.0	4585.9	4583.5	4511.6	3718.5	3538.8	3562.8
30°	6001.9	5882.1	4981.2	4837.4	4820.7	4782.3	4370.2	3673.0	3670.6	3673.0
32.5°	6344.5	5946.8	5125.0	5117.8	5127.4	5010.0	3871.9	3857.5	3855.1	3879.1
35°	6814.1	5517.9	5484.4	5520.3	5470.0	4331.9	4104.3	4097.1	4099.5	4087.5
37.5°	6502.6	5949.2	5942.0	5942.0	5824.6	4432.5	4387.0	4420.5	4415.8	4399.0
40°	6634.4	6471.5	6428.4	6414.0	4923.7	4782.3	4756.0	4799.1	4806.3	4818.3
42.5°	7274.1	7125.6	7104.0	6933.9	5357.4	5311.8	5230.4	5275.9	5271.1	5285.5
45°	8060.0	7959.4	7865.9	6011.5	5942.0	5884.5	5800.6	5853.3	5867.7	5858.1
47.5°	8975.3	8865.1	8189.4	6610.5	6608.1	6562.5	6469.1	6512.2	6505.0	6505.0
50°	9895.3	9775.5	7439.5	7372.4	7348.4	7276.5	7199.9	7207.1	7209.4	7233.4
52.5°	10923.2	8730.9	8234.9	8100.7	8119.9	8072.0	7997.7	6054.6	7961.8	7983.3
55°	10209.2	9138.2	9109.4	8932.1	8977.7	8915.4	8867.5	5973.1	7918.7	8750.1
57.5°	10094.2	10017.5	9993.6	9811.5	9869.0	9277.2	9720.4	6536.2	5477.2	4001.3
60°	10973.5	10892.0	10877.7	10717.1	10712.3	7372.4	8836.3	4482.8	3502.9	3526.9
62.5°	11826.5	11694.7	11730.6	11541.3	8136.7	4492.4	3960.5	100.6	160.5	170.1
65°	12777.7	12557.2	12593.2	12418.3	8393.1	4736.8	4281.6	52.7	45.5	43.1
67.5°	13692.9	13307.2	13122.7	12938.2	8716.5	4988.4	4461.3	14.4	0.0	0.0
68°	13647.4	13240.1	13050.8	12875.9	8683.0	4981.2	4451.7	14.4	0.0	0.0
70°	12878.3	12511.7	12332.0	12197.8	8290.0	4811.1	4272.0	14.4	0.0	0.0
72.5°	11258.6	11055.0	10940.0	10822.6	7365.2	4303.1	3831.1	14.4	0.0	0.0
75°	9567.1	9509.6	9437.7	9178.9	6138.5	3522.1	3148.3	14.4	0.0	0.0
77.5°	7580.8	7578.4	7403.5	7099.2	4621.8	2585.2	2321.7	12.0	0.0	0.0
80°	4099.5	4468.5	4334.3	4178.6	2621.2	1406.4	1339.3	9.6	0.0	0.0
82.5°	1152.5	1090.2	1047.0	979.9	551.1	306.7	299.5	9.6	0.0	0.0
85°	160.5	177.3	196.5	222.8	127.0	81.5	71.9	4.8	0.0	0.0
87.5°	91.0	103.0	127.0	131.8	47.9	38.3	12.0	0.0	0.0	0.0
90°	19.2	21.6	24.0	24.0	9.6	9.6	0.0	0.0	0.0	0.0
92.5°	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.4	2.4	2.4	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°
110°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.4	2.4	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)