

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: P579492

Luminaire Tested: **CTN-CA10-760-740-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)  
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-T5-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: 86003 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

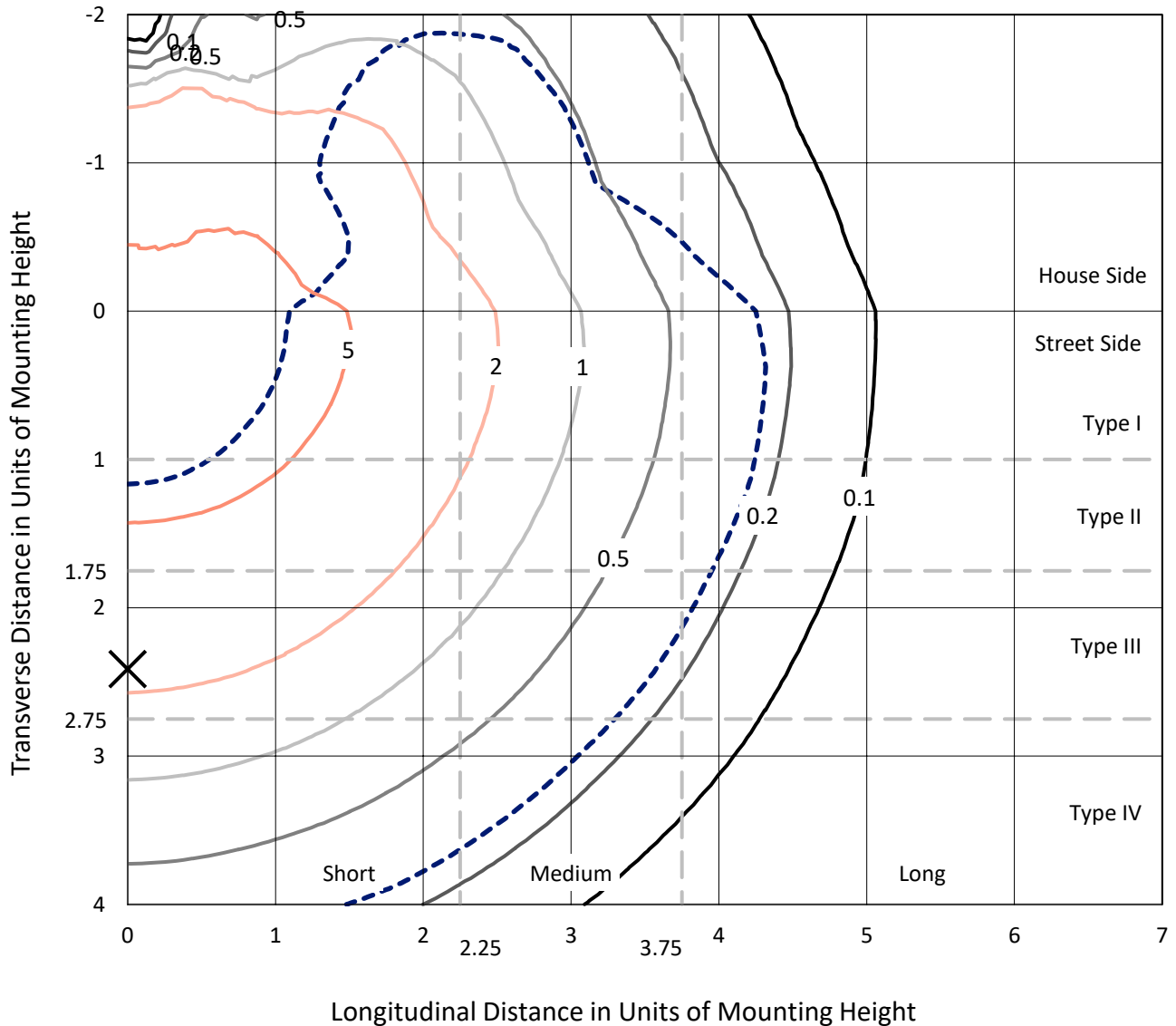
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

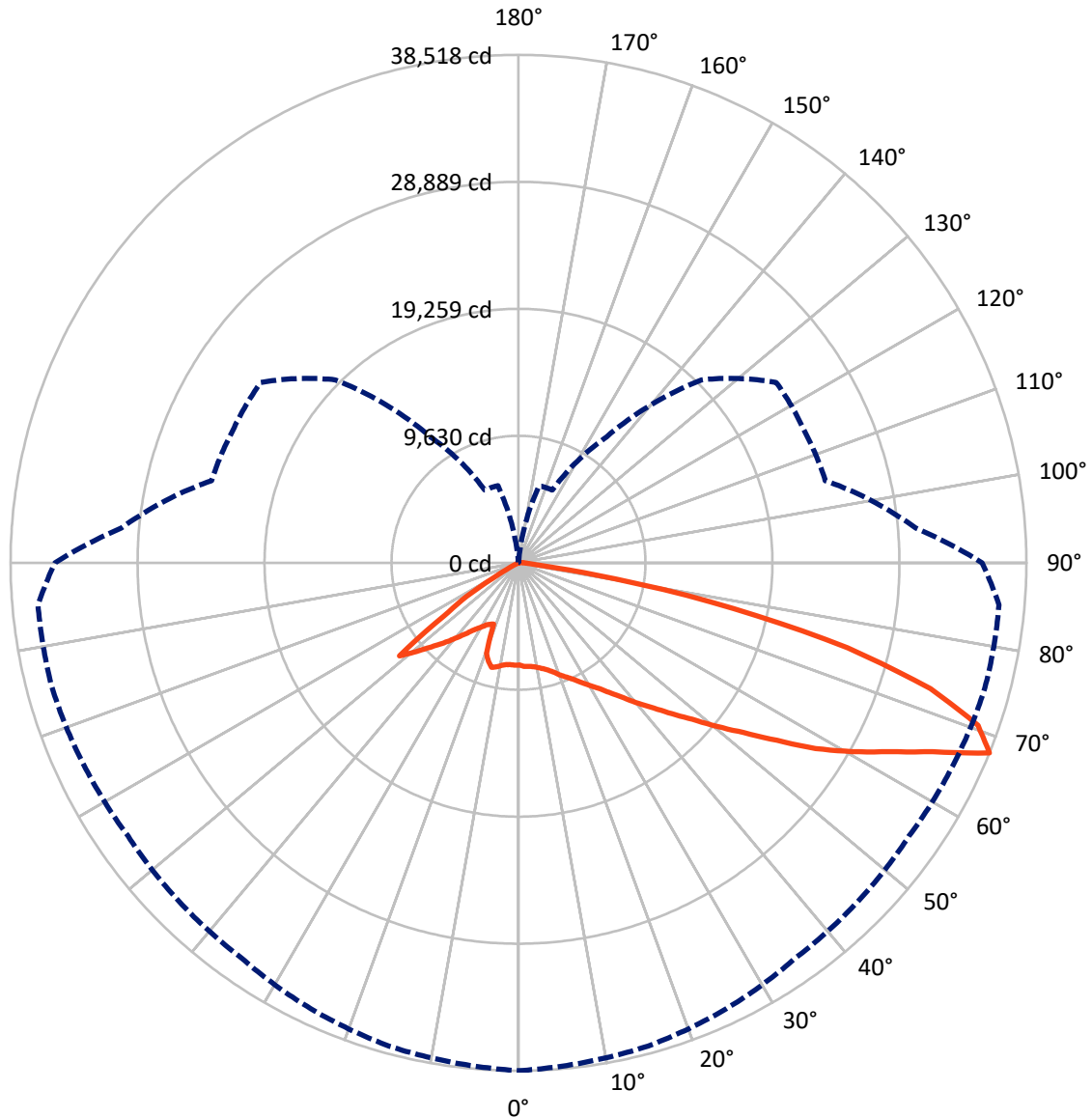
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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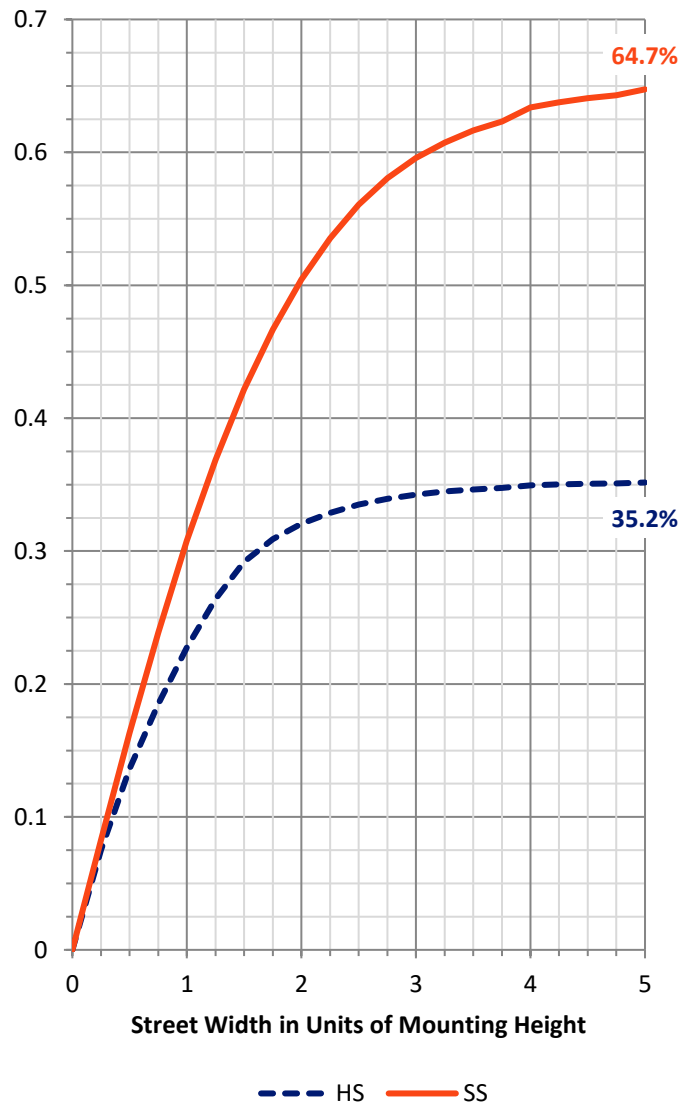
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30272.9	1.8	30274.7
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	55667.6	60.7	55728.3
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	85940.6	62.5	86003.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.6	0.9
10°-20°	2316.2	2.7
20°-30°	4015.9	4.7
30°-40°	6589.4	7.7
40°-50°	10991.2	12.8
50°-60°	17787.8	20.7
60°-70°	24552.9	28.5
70°-80°	17713.9	20.6
80°-90°	1227.8	1.4
90°-100°	53.2	0.1
100°-110°	8.9	0.0
110°-120°	0.3	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°	85940.6	99.9
0°-180°	86003.0	100.0

**Coefficient of Utilization**

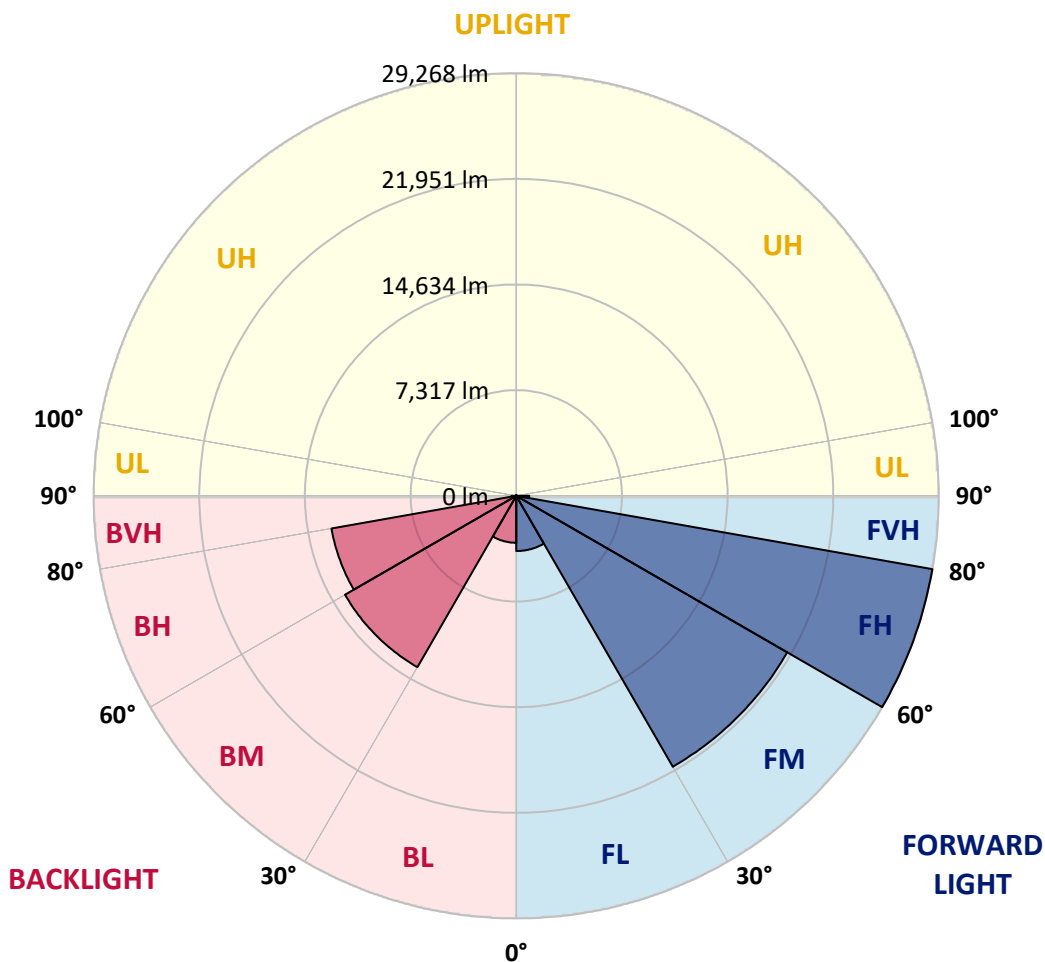


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3824.4	4.4			
FM (30°-60°)	21670.6	25.2			
FH (60°-80°)	29267.9	34.0			G5
FVH (80°-90°)	904.7	1.1			G5
BL (0°-30°)	3253.2	3.8	B4/5000		
BM (30°-60°)	13697.8	15.9	B5		
BH (60°-80°)	12998.8	15.1	B5		G5
BVH (80°-90°)	323.1	0.4			G3/500
UL (90°-100°)	53.2	0.1		U3/500	
UH (100°-180°)	9.2	0.0		U1/10	

**BUG Rating: B5-U3-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4
2.5°	7868.9	7822.8	7826.1	7872.2	7747.1	7793.2	7740.5	7786.6	7763.5	7780.0	7799.8
5°	7891.9	7836.0	7842.6	7898.5	7799.8	7836.0	7773.4	7799.8	7780.0	7799.8	7803.1
7.5°	7951.2	7895.2	7898.5	7941.3	7839.3	7865.6	7806.3	7819.5	7786.6	7822.8	7812.9
10°	8076.3	8023.6	8003.9	8040.1	7951.2	7954.5	7885.4	7898.5	7849.1	7898.5	7878.8
12.5°	8244.2	8171.8	8178.4	8198.1	8089.5	8096.1	8013.8	8033.5	7951.2	8020.4	7997.3
15°	8448.4	8359.5	8369.4	8402.3	8296.9	8287.0	8211.3	8211.3	8138.9	8191.6	8168.5
17.5°	8731.5	8632.7	8626.2	8649.2	8563.6	8563.6	8478.0	8468.1	8395.7	8438.5	8431.9
20°	9100.3	8988.3	8968.6	9011.4	8902.7	8915.9	8807.2	8797.4	8718.3	8744.7	8748.0
22.5°	9432.8	9343.9	9340.6	9406.5	9278.1	9294.5	9195.8	9169.4	9103.6	9139.8	9149.7
25°	9814.7	9801.6	9791.7	9814.7	9686.3	9686.3	9617.2	9594.1	9551.3	9577.7	9604.0
27.5°	10295.4	10288.8	10262.5	10265.8	10157.1	10173.6	10097.9	10084.7	10065.0	10061.7	10048.5
30°	10825.5	10795.9	10759.7	10782.7	10733.3	10749.8	10683.9	10641.1	10634.5	10637.8	10618.1
32.5°	11414.8	11375.3	11352.3	11391.8	11411.6	11457.6	11454.4	11335.8	11335.8	11385.2	11296.3
35°	12145.8	12083.2	12103.0	12155.6	12195.2	12313.7	12293.9	12211.6	12238.0	12261.0	12155.6
37.5°	13005.1	12962.3	13051.2	13150.0	13153.2	13321.2	13281.7	13301.4	13298.1	13268.5	13199.3
40°	14035.6	13966.5	14058.7	14134.4	14088.3	14289.1	14282.6	14371.4	14430.7	14532.8	14493.3
42.5°	15059.6	15006.9	15095.8	15260.4	15234.1	15464.5	15497.5	15635.7	15718.0	15876.1	15783.9
45°	16320.6	16290.9	16373.2	16501.6	16590.5	16896.7	17018.6	17077.8	17285.2	17476.2	17262.2
47.5°	17733.0	17772.5	17759.4	17993.1	18190.7	18562.7	18612.1	18803.1	18984.1	19194.9	18987.4
50°	19491.2	19425.3	19484.6	19708.5	20031.1	20301.1	20554.6	20827.9	21005.7	21223.0	20841.1
52.5°	21384.3	21440.3	21572.0	21917.7	22154.7	22474.1	22704.6	23030.5	23205.0	23392.7	22895.5
55°	23771.3	23817.4	23962.3	24317.9	24485.8	24848.0	25006.0	25331.9	25499.9	25582.2	24946.7
57.5°	26569.9	26415.1	26533.7	26718.0	26978.2	27370.0	27412.8	27718.9	27718.9	27824.3	27014.4
60°	29068.8	28963.5	29088.6	29352.0	29454.1	29809.6	29773.4	30023.6	30089.5	30010.5	29042.5
62.5°	31531.6	31551.3	31712.7	31798.3	31758.8	31969.5	32055.1	32318.5	32209.8	32236.2	31120.0
65°	34521.1	34567.2	34550.7	34392.7	34037.1	34452.0	34428.9	34847.1	34873.4	35110.4	33813.2
67.5°	38518.1	38314.0	37941.9	37306.5	36601.9	36358.3	36144.3	36351.7	36618.4	36575.6	35153.2
70°	36964.1	36631.5	36437.3	35884.2	34942.5	34455.3	34010.8	34047.0	34435.5	34471.7	33016.5
72.5°	32677.3	32509.4	31762.0	31278.1	30632.7	30257.4	29720.7	29842.6	30349.6	30435.2	29276.3
75°	25776.4	25621.7	24946.7	24788.7	24469.3	24653.7	24522.0	24571.4	24979.6	24604.3	23909.6
77.5°	16682.7	16718.9	16613.6	16972.5	16959.3	16969.2	17449.9	17499.3	17897.6	17667.2	16995.5
80°	7480.4	7589.0	7845.9	8366.1	8050.0	8221.2	8405.6	8349.6	8751.3	7842.6	8168.5
82.5°	1514.5	1567.2	1478.3	1544.1	1442.1	1494.8	1570.5	1455.3	1442.1	1336.7	1241.2
85°	780.3	790.2	786.9	770.4	678.2	625.6	602.5	507.0	457.6	447.8	414.8
87.5°	507.0	513.6	497.2	493.9	434.6	398.4	355.6	299.6	250.2	174.5	144.9
90°	309.5	309.5	293.0	276.6	246.9	220.6	177.8	128.4	75.7	29.6	16.5
92.5°	207.4	207.4	200.8	191.0	171.2	148.2	115.2	75.7	36.2	13.2	6.6
95°	131.7	131.7	128.4	125.1	111.9	95.5	72.4	46.1	23.0	9.9	3.3
97.5°	85.6	85.6	85.6	82.3	75.7	65.8	49.4	29.6	16.5	6.6	3.3
100°	52.7	56.0	52.7	52.7	49.4	42.8	32.9	19.8	13.2	6.6	3.3
102.5°	29.6	29.6	32.9	32.9	29.6	26.3	19.8	16.5	9.9	6.6	3.3
105°	13.2	13.2	16.5	16.5	16.5	13.2	13.2	9.9	6.6	6.6	3.3
107.5°	3.3	3.3	3.3	6.6	9.9	9.9	9.9	9.9	6.6	3.3	3.3
110°	0.0	0.0	0.0	3.3	3.3	6.6	6.6	6.6	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°	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4
2.5°	7780.0	7740.5	7770.1	7720.7	7707.6	7664.8	7747.1	7760.3	7753.7	7766.8
5°	7786.6	7737.2	7773.4	7724.0	7720.7	7674.6	7760.3	7763.5	7740.5	7750.4
7.5°	7806.3	7760.3	7786.6	7730.6	7737.2	7681.2	7780.0	7776.7	7763.5	7786.6
10°	7878.8	7826.1	7836.0	7776.7	7793.2	7733.9	7855.7	7862.3	7849.1	7891.9
12.5°	8003.9	7931.5	7954.5	7885.4	7898.5	7839.3	7987.4	7997.3	7997.3	8066.4
15°	8175.1	8099.4	8148.8	8059.9	8063.2	7974.3	8086.2	8086.2	8099.4	8194.9
17.5°	8425.3	8333.1	8399.0	8316.7	7803.1	7608.8	7990.7	8224.5	7836.0	7803.1
20°	8734.8	8692.0	8728.2	8593.2	7760.3	6871.3	6179.9	6143.7	6910.8	7292.7
22.5°	9113.4	9070.6	9087.1	8915.9	6927.3	6301.7	6291.8	6226.0	5267.9	5004.5
25°	9557.9	9534.9	9498.7	8063.2	7161.0	6561.8	6482.8	5623.5	5073.6	5123.0
27.5°	10035.3	9966.2	8744.7	8375.9	7519.9	6821.9	6374.1	5251.4	5231.7	5277.8
30°	10568.7	10203.2	8952.1	8827.0	7938.0	7144.6	5547.7	5481.9	5481.9	5554.3
32.5°	11246.9	9528.3	9528.3	9462.4	8455.0	6272.1	5840.8	5801.3	5847.4	5877.0
35°	11144.9	10249.3	10354.7	10325.1	9156.2	6387.3	6311.6	6245.7	6255.6	6255.6
37.5°	11177.8	11214.0	11339.1	11210.7	7987.4	6887.8	6765.9	6752.8	6762.6	6785.7
40°	12211.6	12231.4	12277.5	11994.3	8583.4	7470.5	7302.6	7269.7	7302.6	7352.0
42.5°	13324.5	13380.4	13433.1	10907.8	9416.3	8132.3	7964.4	7901.8	7961.1	8013.8
45°	14641.4	14727.0	13920.4	11872.5	10358.0	8886.3	8708.5	8632.7	8669.0	8715.1
47.5°	16123.0	16258.0	13126.9	13100.6	11464.2	9778.5	9574.4	9429.5	9485.5	9482.2
50°	17795.6	15537.0	14503.1	14486.7	12698.9	10772.8	10562.1	10430.4	10473.2	10440.3
52.5°	19603.1	15961.7	15994.6	15991.3	13989.5	11842.9	11648.6	11484.0	11144.9	11457.6
55°	21453.5	17430.1	17555.2	17535.5	15342.7	12949.1	12741.7	12587.0	8224.5	6947.0
57.5°	23293.9	18964.4	19003.9	19050.0	16745.3	14015.9	13103.9	12037.1	4691.7	4668.7
60°	25111.3	20426.2	20505.2	20531.6	17502.5	11602.5	5356.8	5455.6	1419.0	1695.6
62.5°	26994.6	21868.3	21940.7	21917.7	18256.5	10789.3	5626.8	5514.8	131.7	121.8
65°	29398.1	23675.8	23573.8	23498.1	19445.1	11513.6	6044.9	6015.3	42.8	29.6
67.5°	30240.9	24087.4	23880.0	23853.6	19616.3	11668.4	6077.8	6054.8	42.8	29.6
70°	28331.3	22523.5	22167.9	22177.8	18253.2	10914.4	5669.6	5636.6	39.5	29.6
72.5°	24811.7	19892.8	19744.7	18961.1	15806.9	9600.7	5027.5	4902.4	39.5	26.3
75°	20370.2	16070.3	15741.1	14862.0	12580.4	7631.8	3947.6	3786.3	36.2	23.0
77.5°	14141.0	11270.0	10641.1	9745.6	8415.4	5060.5	2653.7	2446.3	32.9	23.0
80°	6410.4	4625.9	4648.9	3562.4	2854.5	1715.4	842.9	763.8	29.6	19.8
82.5°	1116.1	823.1	773.7	747.4	622.3	421.4	256.8	220.6	26.3	13.2
85°	388.5	312.8	345.7	408.3	362.2	253.5	158.0	151.5	16.5	6.6
87.5°	131.7	138.3	161.3	194.3	171.2	98.8	59.3	42.8	3.3	0.0
90°	13.2	16.5	16.5	16.5	9.9	0.0	0.0	0.0	0.0	0.0
92.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	3.3	3.3	3.3	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)