

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: P579397

Luminaire Tested: **CTN-CA10-760-722-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68200 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

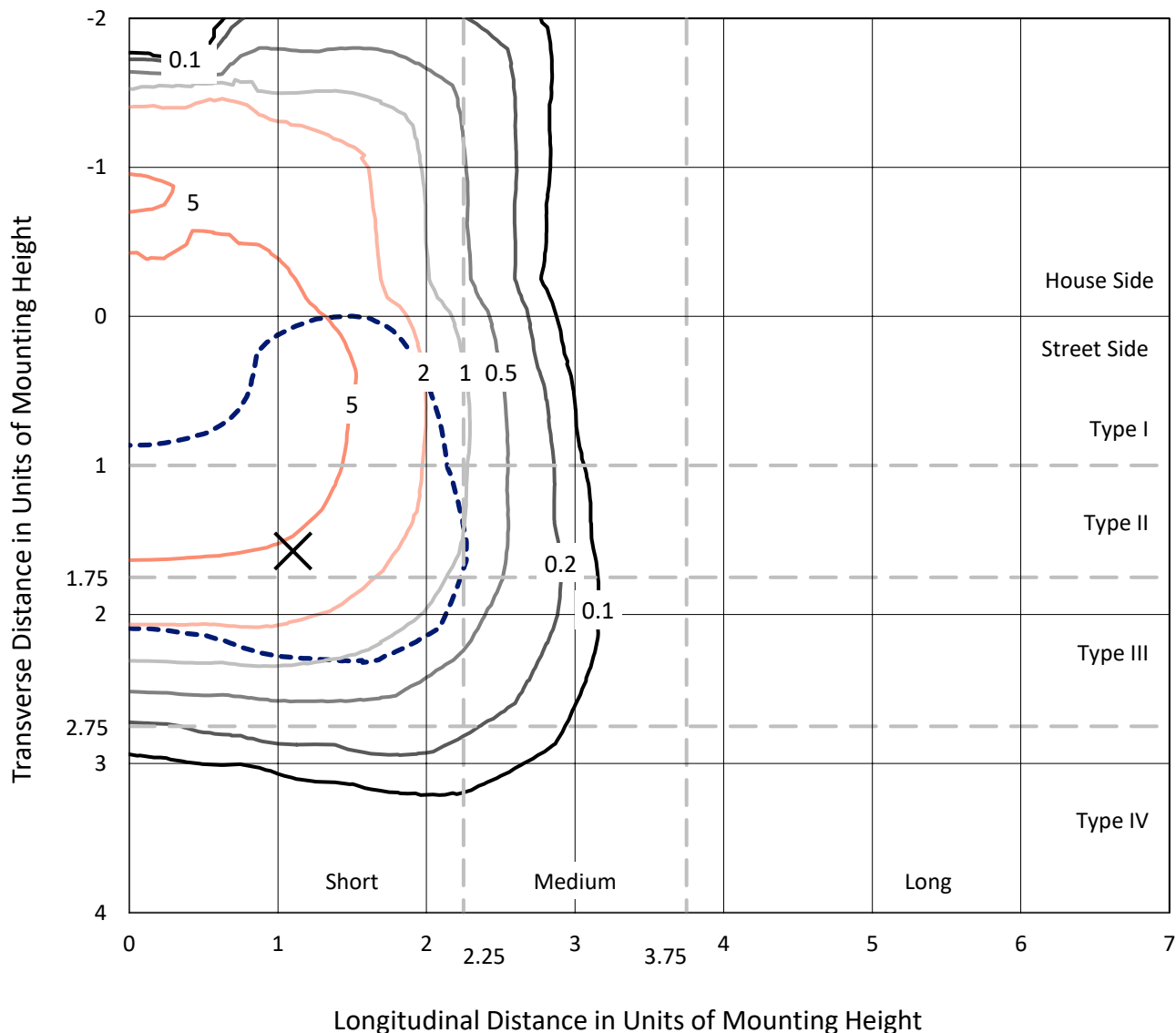
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

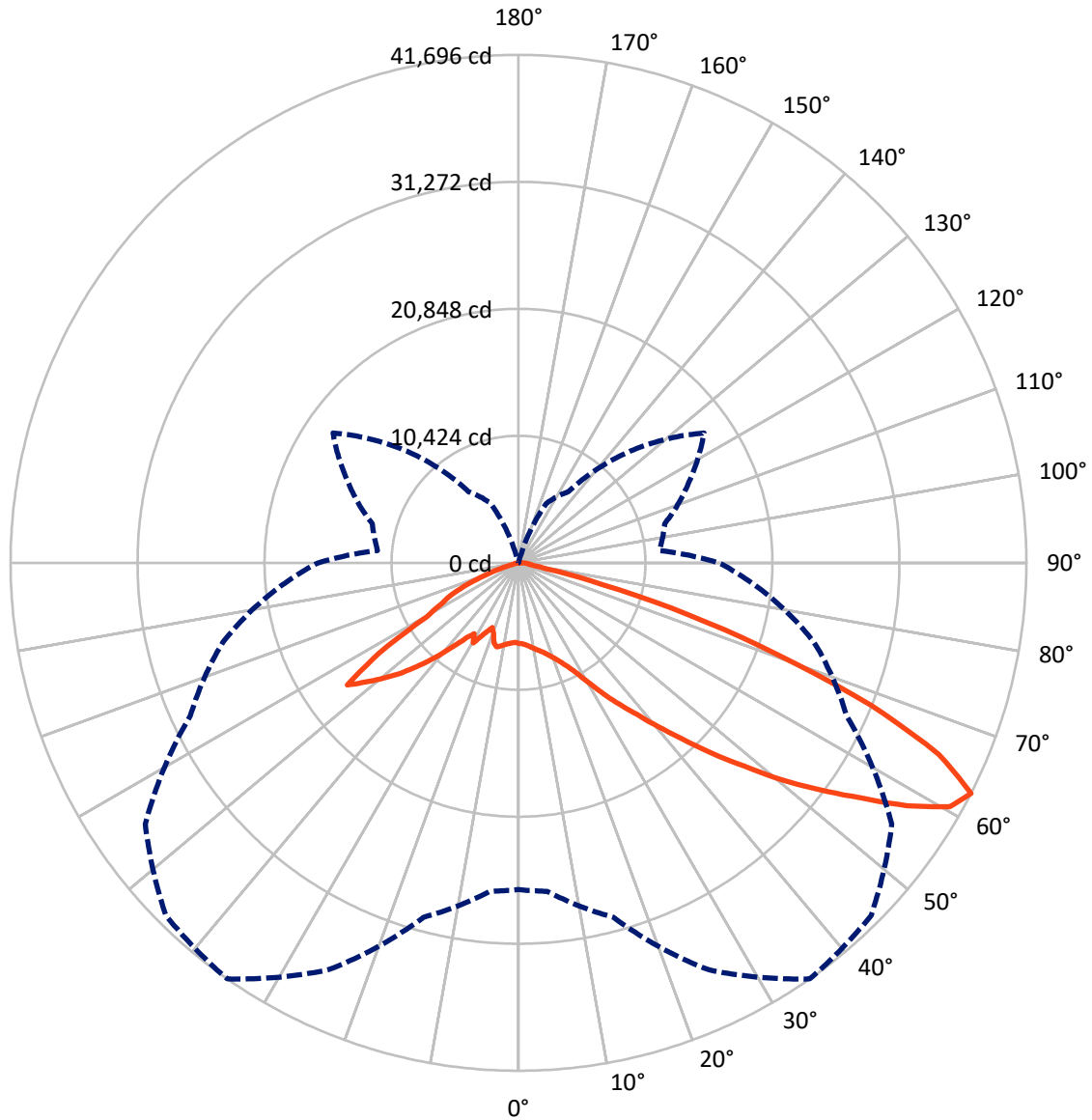
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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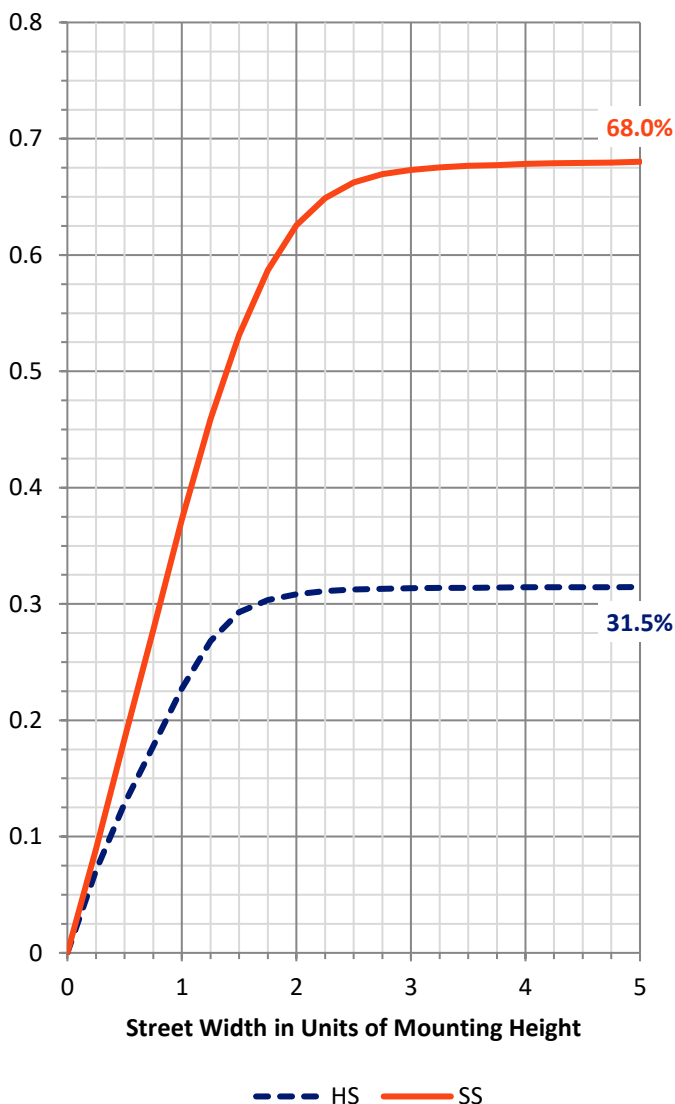
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21575.6	0.0	21575.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	46585.5	38.9	46624.4
	% Fixture	68.3	0.1	68.4
Total	Lumens	68161.0	39.0	68200.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.8	1.0
10°-20°	2098.8	3.1
20°-30°	3897.3	5.7
30°-40°	7683.8	11.3
40°-50°	13793.3	20.2
50°-60°	20050.0	29.4
60°-70°	16477.9	24.2
70°-80°	3132.2	4.6
80°-90°	374.9	0.5
90°-100°	35.5	0.1
100°-110°	3.4	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°	68161.0	99.9
0°-180°	68200.0	100.0

Coefficient of Utilization

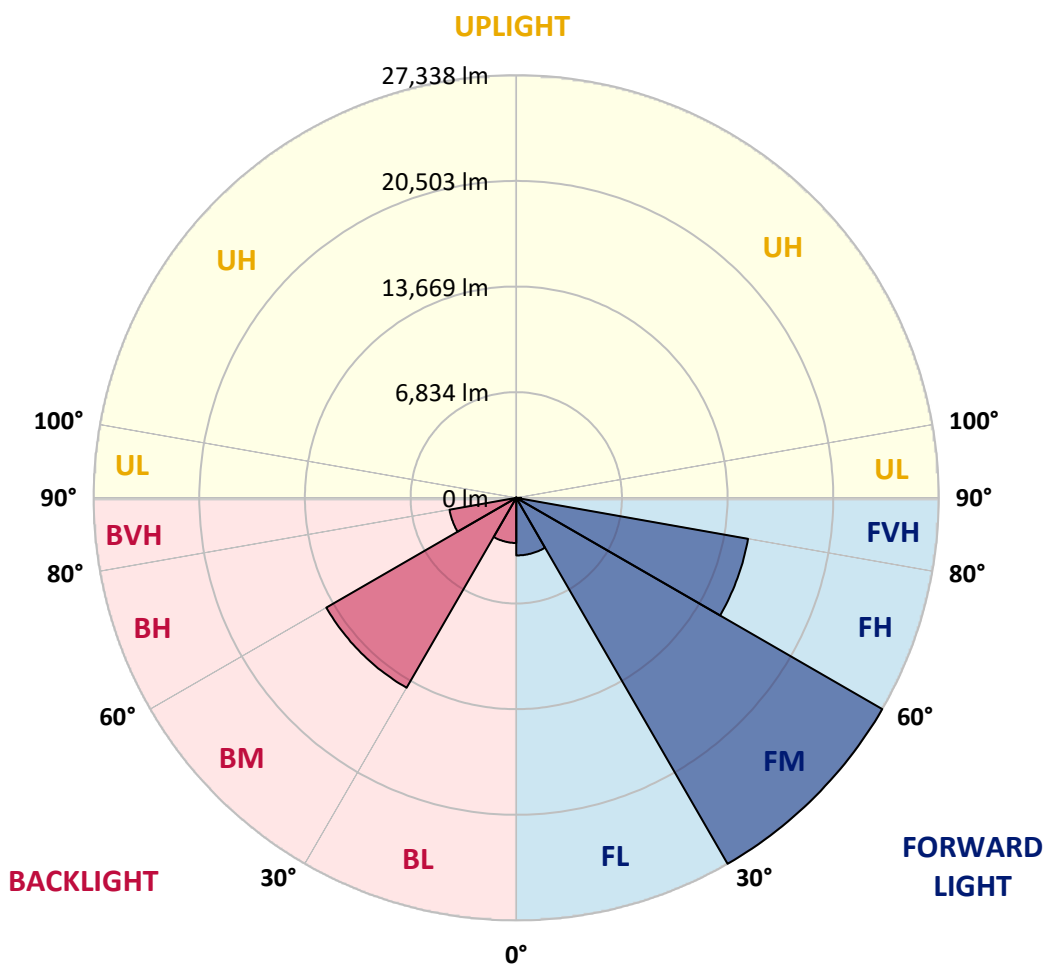


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3727.5	5.5			
FM	(30°-60°)	27337.7	40.1			
FH	(60°-80°)	15223.8	22.3			G5
FVH	(80°-90°)	296.5	0.4			G3/500
BL	(0°-30°)	2921.4	4.3	B4/5000		
BM	(30°-60°)	14189.4	20.8	B5		
BH	(60°-80°)	4386.3	6.4	B4/5000		G4/5000
BVH	(80°-90°)	78.5	0.1			G1/100
UL	(90°-100°)	35.5	0.1		U2/50	
UH	(100°-180°)	3.5	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°	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9
2.5°	6789.0	6733.5	6739.1	6780.6	6655.9	6697.5	6639.3	6689.2	6667.0	6689.2	6703.0
5°	6924.8	6855.5	6852.7	6894.3	6794.5	6819.5	6752.9	6786.2	6755.7	6783.4	6783.4
7.5°	7091.1	7032.9	7019.1	7052.3	6963.6	6974.7	6908.2	6922.0	6886.0	6922.0	6894.3
10°	7299.0	7246.4	7224.2	7240.8	7160.4	7166.0	7093.9	7099.4	7046.8	7077.3	7055.1
12.5°	7518.0	7446.0	7434.9	7462.6	7379.4	7368.3	7307.4	7312.9	7254.7	7282.4	7265.8
15°	7745.4	7670.5	7673.3	7701.0	7617.8	7623.4	7559.6	7570.7	7512.5	7540.2	7518.0
17.5°	8047.5	7972.7	7967.1	8017.0	7947.7	7969.9	7903.4	7917.2	7875.6	7881.2	7856.2
20°	8480.0	8382.9	8363.5	8435.6	8344.1	8371.9	8335.8	8382.9	8366.3	8352.4	8333.0
22.5°	8995.6	8920.7	8881.9	8937.4	8829.3	8881.9	8901.3	8998.4	9023.3	9006.7	8701.7
25°	9685.8	9647.0	9608.2	9583.3	9453.0	9536.2	9635.9	9796.7	9902.1	9943.7	9519.5
27.5°	10617.3	10636.7	10467.6	10439.9	10292.9	10423.2	10603.4	10864.0	11077.5	11155.1	10584.0
30°	11814.8	11839.8	11609.7	11543.2	11454.5	11565.4	11900.8	12186.3	12502.3	12632.6	11870.3
32.5°	13406.1	13383.9	13045.7	12918.2	12837.8	12882.1	13234.2	13625.1	13979.9	14273.7	13336.8
35°	15349.3	15280.0	14919.6	14567.6	14248.8	14384.6	14642.4	15116.5	15654.3	16086.7	14783.8
37.5°	17605.8	17539.3	16990.4	16416.6	15787.3	15845.5	16075.6	16849.1	17542.1	17655.7	14537.1
40°	19937.2	19909.5	19391.1	18662.0	17683.5	17409.0	17714.0	18656.5	19388.3	17406.2	15110.9
42.5°	22265.8	22132.7	21841.7	21112.6	19809.7	19205.4	19615.6	20558.2	21345.5	18249.0	16441.5
45°	24613.8	24478.0	24231.3	23696.2	22340.7	21461.9	21581.1	22626.2	23338.6	19829.1	17827.6
47.5°	26698.5	26598.7	26421.2	26121.8	24913.2	24117.6	23887.5	24619.4	25104.5	21112.6	18892.1
50°	28494.8	28408.9	28478.2	28378.4	28023.5	27189.1	26429.6	26382.4	26615.3	22254.7	19870.7
52.5°	30074.9	29958.5	30255.1	30607.2	30934.3	30748.5	28910.6	28054.0	27843.3	23111.3	20527.7
55°	31380.6	31339.0	31849.1	32799.9	34044.6	34532.5	31563.6	29598.1	28941.1	23837.6	20588.7
57.5°	32162.3	32262.1	33340.5	35181.2	37615.1	37845.2	34668.3	31239.2	29908.6	24278.4	20879.7
60°	30826.2	31164.4	33104.9	36966.4	40653.4	40753.2	36899.9	31566.3	28641.7	22692.7	19324.6
62.5°	26823.2	27067.1	30119.3	36852.8	41695.7	40936.2	37398.9	29720.1	25101.7	19249.7	16436.0
65°	18953.1	19235.9	22914.5	33232.4	37933.9	37961.6	34258.1	25700.5	20064.7	14903.0	12690.8
67.5°	11432.3	11889.7	15374.3	24125.9	31233.7	31802.0	28580.7	19457.6	14359.7	9730.2	8213.8
70°	3750.7	4169.3	7019.1	14279.3	22515.3	24949.2	21464.7	12643.7	7498.6	4113.9	3312.7
72.5°	1485.9	1677.1	2472.7	6314.9	14509.4	16657.8	13225.9	6109.8	2517.1	1092.2	950.8
75°	992.4	1011.8	1142.1	2151.2	7099.4	9109.2	6375.9	1776.9	934.2	681.9	598.8
77.5°	864.9	867.7	925.9	1133.8	2312.0	3492.9	1835.2	953.6	773.4	560.0	496.2
80°	792.8	803.9	840.0	967.5	1059.0	1186.5	906.5	795.6	670.9	515.6	468.5
82.5°	759.6	767.9	790.1	876.0	856.6	889.9	731.8	632.0	565.5	474.0	449.1
85°	693.0	706.9	720.8	773.4	704.1	609.9	565.5	424.1	404.7	357.6	329.9
87.5°	523.9	521.2	507.3	515.6	471.3	385.3	318.8	238.4	194.0	160.8	133.1
90°	219.0	221.8	213.5	202.4	177.4	146.9	110.9	66.5	33.3	11.1	5.5
92.5°	166.3	169.1	163.6	146.9	127.5	102.6	74.8	38.8	22.2	8.3	2.8
95°	102.6	105.3	99.8	88.7	77.6	58.2	38.8	24.9	13.9	5.5	0.0
97.5°	61.0	63.8	58.2	52.7	41.6	27.7	22.2	16.6	11.1	5.5	0.0
100°	36.0	36.0	33.3	27.7	19.4	16.6	13.9	11.1	8.3	2.8	0.0
102.5°	16.6	16.6	16.6	11.1	8.3	8.3	8.3	8.3	8.3	2.8	0.0
105°	5.5	5.5	2.8	2.8	2.8	5.5	5.5	5.5	5.5	2.8	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	5.5	2.8	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	0.0



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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°	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9	6619.9
2.5°	6689.2	6636.5	6644.8	6597.7	6586.6	6536.7	6625.4	6633.7	6608.8	6633.7
5°	6772.3	6708.6	6725.2	6672.5	6658.7	6589.4	6661.4	6655.9	6636.5	6661.4
7.5°	6894.3	6822.2	6830.5	6769.6	6755.7	6678.1	6744.6	6725.2	6703.0	6733.5
10°	7049.5	6980.2	6983.0	6899.8	6891.5	6802.8	6888.8	6852.7	6819.5	6863.8
12.5°	7265.8	7168.7	7160.4	7068.9	7066.2	6974.7	7063.4	7032.9	6988.6	7057.9
15°	7515.3	7385.0	7351.7	7235.3	7232.5	7135.5	7224.2	7177.1	7154.9	7238.1
17.5°	7839.6	7676.0	7423.8	7027.4	6847.2	6877.7	7190.9	7304.6	7008.0	7052.3
20°	8036.4	7243.6	6874.9	6711.3	6625.4	6132.0	5463.9	5519.3	6176.3	6489.6
22.5°	7703.8	7468.1	7332.3	7102.2	5904.7	5735.6	5774.4	5763.3	4915.0	4662.7
25°	8396.8	8175.0	7928.3	6509.0	6262.3	6190.2	6209.6	5414.0	4951.0	4970.4
27.5°	9394.8	9109.2	7545.8	6930.3	6880.4	6775.1	6392.5	5436.2	5494.4	5533.2
30°	10656.1	9641.5	8036.4	7767.5	7667.7	7554.1	5932.4	6073.8	6181.9	6301.1
32.5°	11875.8	9378.1	8976.2	8696.2	8541.0	6858.3	6691.9	6952.5	7060.6	7163.2
35°	11765.0	10506.4	9985.2	9630.4	9339.3	7401.6	7548.5	7944.9	8230.5	8227.7
37.5°	12069.9	11734.5	11132.9	10683.8	8105.7	8291.5	8599.2	9051.0	9397.5	9394.8
40°	13342.3	12979.1	12413.6	11448.9	8981.7	9414.2	9835.5	10259.7	10509.2	10528.6
42.5°	14606.4	14326.4	13816.3	10112.8	10054.5	10653.3	11094.1	11363.0	11515.5	11568.1
45°	15864.9	15601.6	13575.2	11185.6	11363.0	11956.2	12225.1	12277.8	12441.4	12435.8
47.5°	16865.7	16641.1	12488.5	12460.8	12901.5	13311.8	13225.9	13159.3	13200.9	13223.1
50°	17788.8	14487.2	13464.3	13869.0	14539.9	14589.8	14232.2	11274.3	13957.7	13910.6
52.5°	16524.7	14137.9	14373.5	15321.6	16463.7	15884.3	15185.8	9882.7	13090.0	14334.7
55°	14459.5	14697.9	15230.1	16821.3	17949.6	17262.1	16095.0	10176.5	8687.9	7071.7
57.5°	14747.8	15124.8	16136.6	18334.9	19319.0	13672.2	15022.2	7174.3	4856.8	4854.0
60°	13733.2	14304.2	16117.2	19014.1	15637.6	8760.0	6018.3	163.6	942.5	934.2
62.5°	11609.7	12421.9	15377.0	18584.4	12954.2	7118.8	5361.3	13.9	5.5	5.5
65°	8979.0	9935.3	12821.1	16092.3	11476.6	6132.0	3980.8	0.0	0.0	0.0
67.5°	5888.0	6775.1	9627.6	13367.2	9527.8	4635.0	2675.1	0.0	0.0	0.0
70°	2453.3	3548.3	5982.3	9660.9	7008.0	3035.5	1269.6	0.0	0.0	0.0
72.5°	709.7	1081.1	2694.5	5768.8	4349.5	1588.4	471.3	0.0	0.0	0.0
75°	468.5	493.4	815.0	2320.3	2115.1	582.1	191.3	0.0	0.0	0.0
77.5°	393.6	404.7	518.4	648.7	679.2	230.1	155.2	0.0	0.0	0.0
80°	363.1	365.9	465.7	482.4	363.1	191.3	152.5	0.0	0.0	0.0
82.5°	338.2	329.9	396.4	382.6	302.2	166.3	141.4	0.0	0.0	0.0
85°	232.9	238.4	268.9	341.0	183.0	83.2	99.8	0.0	0.0	0.0
87.5°	72.1	83.2	105.3	108.1	33.3	11.1	0.0	0.0	0.0	0.0
90°	2.8	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)