

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: P522162

Luminaire Tested: **CTN-CA10-760-722-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522162
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-CA10-760-722-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: 66886 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

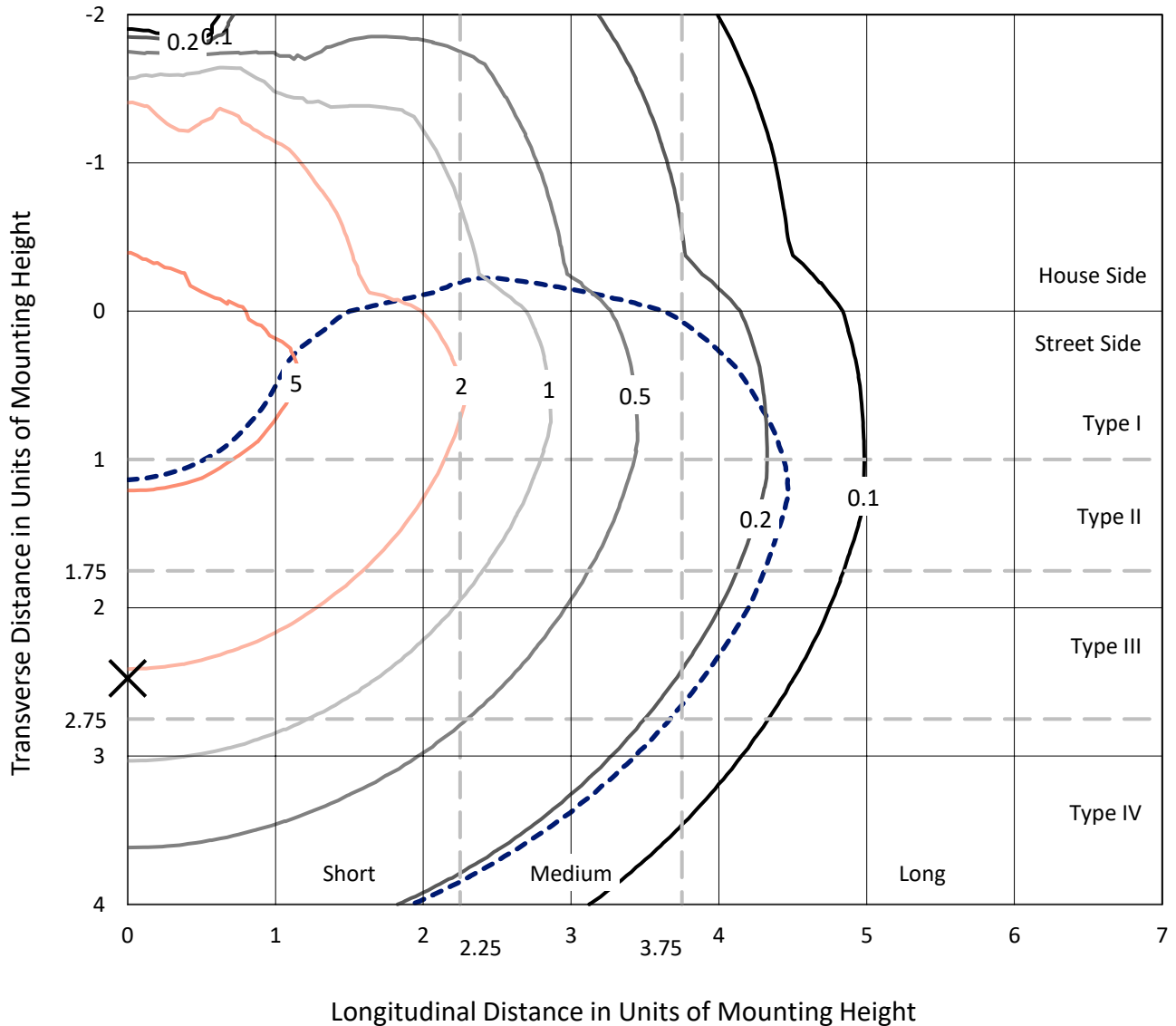
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

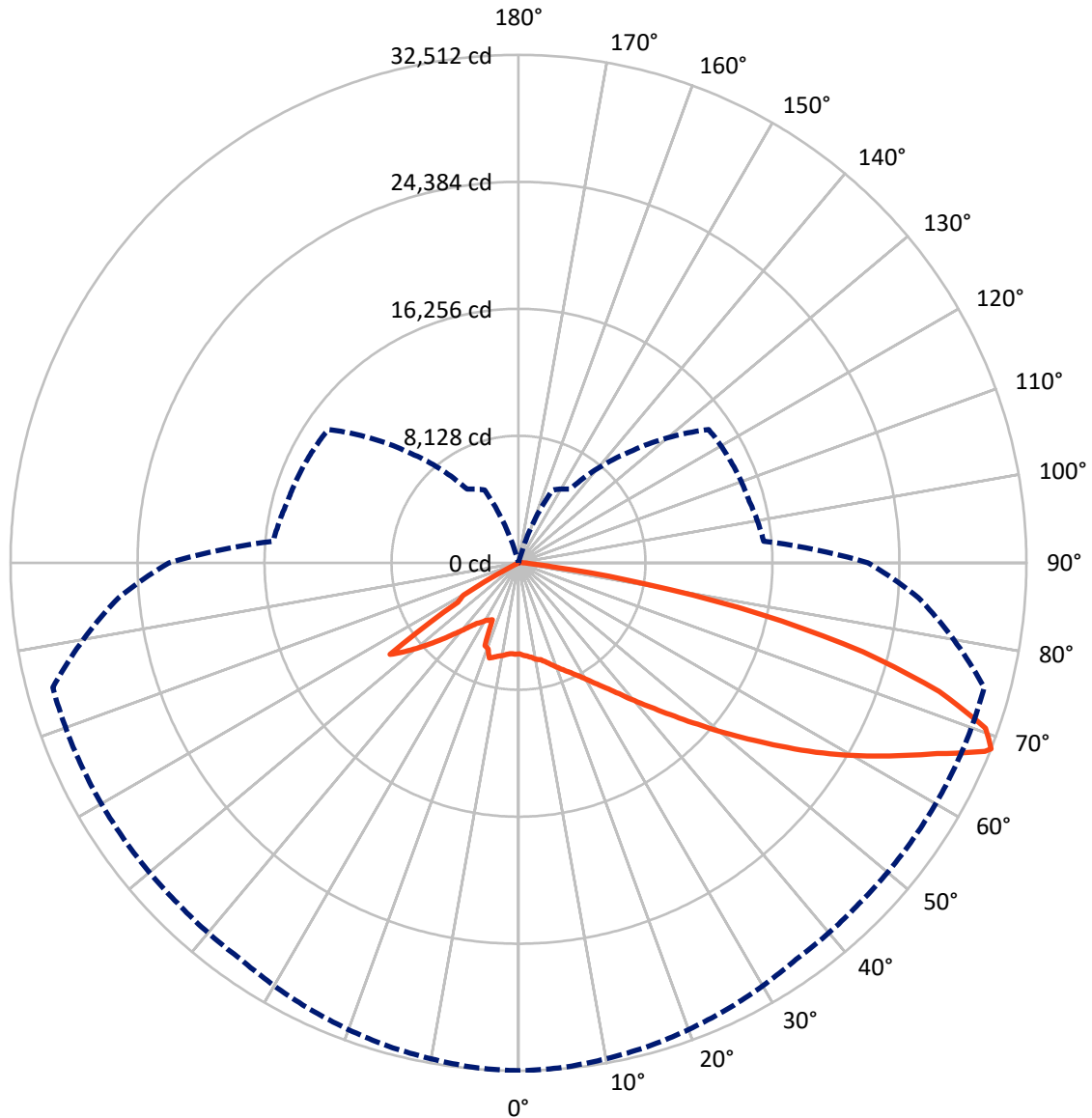
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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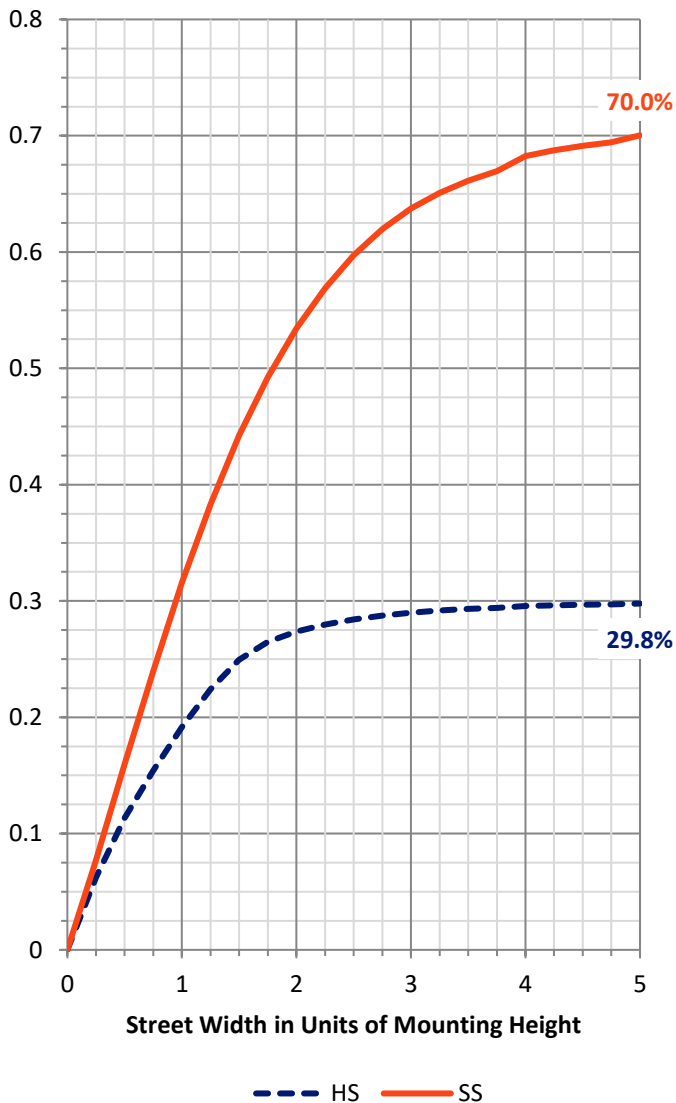
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19938.0	3.1	19941.1
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	46917.6	27.4	46945.0
	% Fixture	70.1	0.0	70.2
Total	Lumens	66855.5	30.5	66886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	0.8
10°-20°	1801.3	2.7
20°-30°	3085.4	4.6
30°-40°	5005.1	7.5
40°-50°	8441.0	12.6
50°-60°	13759.0	20.6
60°-70°	18453.0	27.6
70°-80°	14333.2	21.4
80°-90°	1411.6	2.1
90°-100°	26.8	0.0
100°-110°	1.5	0.0
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	66855.5	100.0
0°-180°	66886.0	100.0

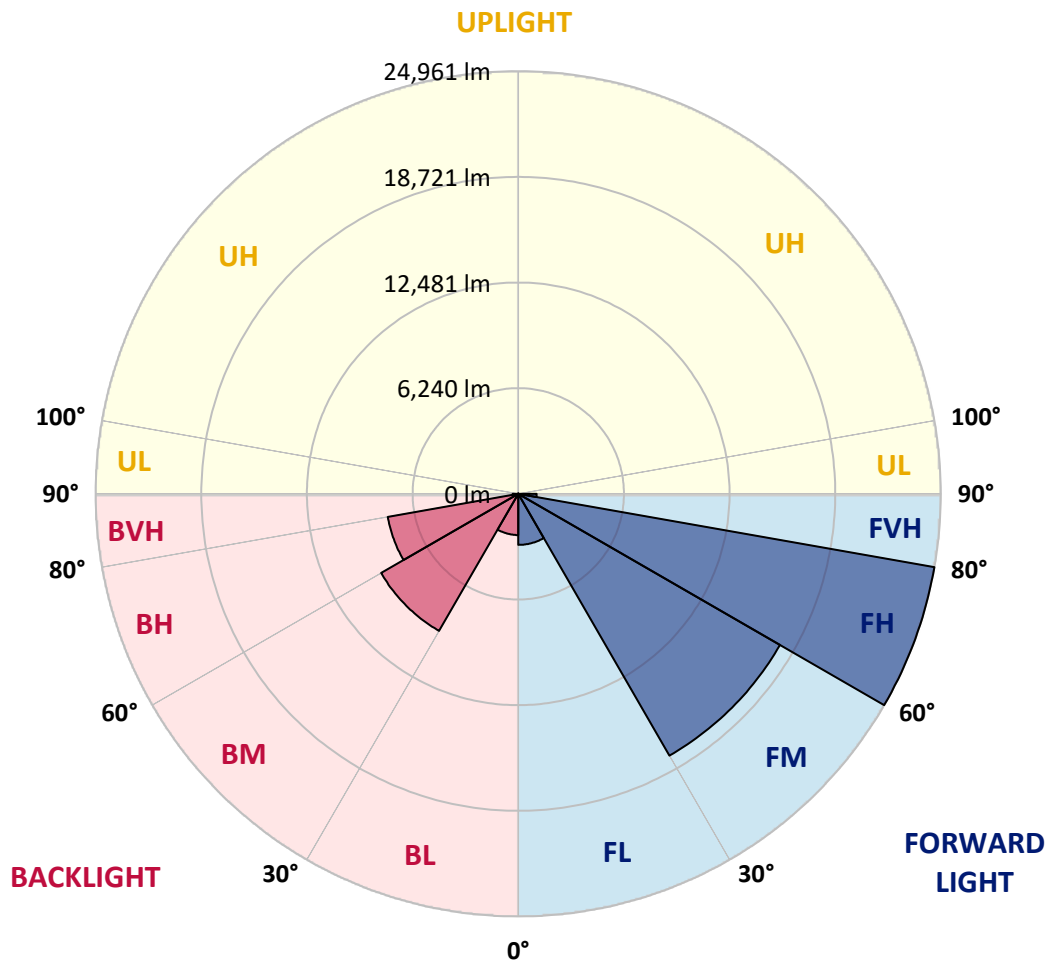


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3016.9	4.5			
FM	(30°-60°)	17854.2	26.7			
FH	(60°-80°)	24961.1	37.3			G5
FVH	(80°-90°)	1085.3	1.6			G5
BL	(0°-30°)	2435.7	3.6	B3/2500		
BM	(30°-60°)	9350.9	14.0	B5		
BH	(60°-80°)	7825.2	11.7	B5		G5
BVH	(80°-90°)	326.3	0.5			G3/500
UL	(90°-100°)	26.8	0.0		U2/50	
UH	(100°-180°)	3.7	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°	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2
2.5°	5928.0	5911.4	5908.7	5941.9	5836.8	5889.3	5842.3	5881.0	5856.1	5875.5	5878.2
5°	6008.3	5977.8	5958.5	5997.2	5930.8	5955.7	5903.1	5919.7	5850.6	5889.3	5894.8
7.5°	6124.4	6074.7	6069.1	6080.2	6022.1	6041.5	5955.7	5975.1	5925.3	5903.1	5922.5
10°	6282.1	6235.1	6199.1	6224.0	6146.6	6157.6	6066.4	6069.1	6033.2	5991.7	6024.9
12.5°	6370.6	6376.2	6359.6	6378.9	6315.3	6279.4	6215.7	6193.6	6157.6	6107.8	6091.2
15°	6591.9	6580.9	6547.7	6578.1	6569.8	6536.6	6459.2	6409.4	6331.9	6304.2	6276.6
17.5°	6863.0	6827.1	6799.4	6838.1	6879.6	6810.5	6735.8	6666.6	6564.3	6509.0	6475.8
20°	7148.0	7123.1	7095.4	7156.2	7170.1	7117.5	7062.2	6959.8	6840.9	6769.0	6699.8
22.5°	7466.1	7416.3	7424.6	7504.8	7479.9	7455.0	7383.1	7300.1	7156.2	7065.0	6865.8
25°	7795.2	7767.6	7806.3	7842.3	7822.9	7770.4	7734.4	7673.5	7513.1	7402.4	7112.0
27.5°	8204.7	8160.4	8210.2	8224.0	8207.4	8193.6	8143.8	8096.8	7922.5	7798.0	7435.6
30°	8686.0	8633.4	8713.6	8694.3	8677.7	8688.7	8658.3	8556.0	8401.1	8232.3	7869.9
32.5°	9258.6	9189.4	9280.7	9239.2	9200.5	9278.0	9206.0	9109.2	8926.6	8730.2	8376.2
35°	9922.5	9925.3	9972.3	9903.1	9889.3	9972.3	9925.3	9806.3	9637.6	9432.9	8929.4
37.5°	10727.5	10705.3	10824.3	10791.1	10741.3	10851.9	10865.8	10716.4	10412.1	10210.2	9615.4
40°	11706.7	11701.2	11739.9	11745.4	11731.6	11784.2	11809.1	11609.9	11413.5	11109.2	9073.3
42.5°	12752.3	12774.5	12843.6	12793.8	12860.2	12929.4	12937.7	12771.7	12489.6	10658.3	9637.6
45°	14008.2	14077.4	14124.4	14113.3	14143.8	14243.3	14251.6	14163.1	13886.5	11546.3	10661.1
47.5°	15449.4	15515.8	15529.6	15618.2	15590.5	15731.6	15712.2	15715.0	15419.0	12782.8	11775.9
50°	17106.4	17136.8	17250.2	17300.0	17230.9	17421.7	17372.0	17432.8	17067.7	14199.1	12973.6
52.5°	18865.7	18918.3	18965.3	19153.4	19064.9	19230.9	19164.5	19305.6	18882.3	15640.3	14304.2
55°	20865.7	20874.0	20954.2	21145.1	21028.9	21228.1	21131.3	21183.8	20846.3	17233.6	15690.1
57.5°	22984.6	22957.0	22987.4	23139.6	23034.4	23183.8	23145.1	23194.9	22879.5	18910.0	16702.5
60°	25081.5	25040.0	25084.2	25186.6	25042.7	25300.0	25161.7	25208.7	24868.5	20622.3	18146.5
62.5°	27189.3	27158.9	27109.1	27211.5	27001.2	27134.0	27192.1	27114.6	26815.9	22171.4	19402.4
65°	29452.1	29421.7	29239.1	29302.7	28926.5	28862.9	28885.0	28909.9	28710.8	23706.6	20780.0
67.5°	32201.7	32157.5	31814.5	31382.9	30840.8	30721.8	30732.9	30799.3	30826.9	25681.7	22392.7
68°	32511.6	32431.3	32049.6	31548.9	30981.8	30843.5	30829.7	30843.5	30857.3	25698.3	22376.1
70°	31720.4	31690.0	31399.5	30793.7	30212.8	29880.9	29593.2	29582.1	29449.3	24384.4	21139.6
72.5°	28149.2	28110.5	27764.7	27335.9	26976.3	26456.3	26082.8	26105.0	25886.4	21551.7	18503.3
75°	22779.9	22777.2	22362.2	22002.6	22008.2	21969.4	21845.0	22063.5	21836.7	18279.3	15781.4
77.5°	15875.4	15930.7	15903.1	15692.9	15988.8	16398.2	16843.6	17264.1	17134.1	14439.7	12583.6
80°	8293.2	8448.1	8995.8	9020.7	9228.2	9626.5	9930.8	10212.9	10232.3	8193.6	7269.7
82.5°	2204.7	2251.7	2437.1	2384.5	2367.9	2448.1	2514.5	2522.8	2528.3	2135.5	1994.5
85°	686.0	705.4	683.3	652.8	605.8	553.2	539.4	439.8	348.5	287.7	251.7
87.5°	486.9	520.1	470.3	442.6	392.8	373.4	334.7	262.8	204.7	143.8	96.8
90°	251.7	257.3	229.6	196.4	182.6	171.5	146.6	105.1	52.6	27.7	24.9
92.5°	127.2	130.0	113.4	96.8	83.0	71.9	55.3	30.4	16.6	8.3	2.8
95°	49.8	52.6	47.0	41.5	33.2	24.9	22.1	16.6	11.1	5.5	2.8
97.5°	16.6	16.6	16.6	13.8	13.8	13.8	13.8	11.1	8.3	5.5	2.8
100°	0.0	0.0	0.0	2.8	5.5	8.3	8.3	8.3	5.5	2.8	2.8
102.5°	0.0	0.0	0.0	0.0	0.0	2.8	5.5	5.5	5.5	2.8	2.8
105°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8



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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	2.8	2.8	2.8
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
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	2.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
165°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
175°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
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°	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2
2.5°	5864.4	5847.8	5856.1	5787.0	5803.6	5759.3	5853.4	5828.5	5817.4	5856.1
5°	5878.2	5817.4	5867.2	5820.2	5828.5	5764.8	5842.3	5811.9	5809.1	5831.2
7.5°	5883.8	5853.4	5900.4	5822.9	5847.8	5822.9	5881.0	5850.6	5878.2	5897.6
10°	5961.2	5944.6	5939.1	5911.4	5930.8	5875.5	5947.4	5947.4	5961.2	6013.8
12.5°	6074.7	6052.5	6038.7	5988.9	6008.3	5991.7	6049.8	6060.8	6085.7	6107.8
15°	6229.6	6190.8	6177.0	6132.7	6146.6	6143.8	6185.3	6188.1	6243.4	6240.6
17.5°	6428.7	6373.4	6390.0	6356.8	6359.6	6337.4	6315.3	6315.3	6365.1	6376.2
20°	6666.6	6351.3	5936.3	5704.0	5662.5	5692.9	5811.9	6008.3	5762.1	5831.2
22.5°	6237.9	5952.9	5933.6	5881.0	5847.8	5106.5	4915.6	4854.7	5172.9	5720.6
25°	6293.2	6171.5	6135.5	6069.1	5089.9	5081.6	5026.2	4935.0	4033.2	4013.8
27.5°	6586.4	6467.5	6409.4	5316.7	5294.6	5291.8	5208.8	4293.2	4085.7	4113.4
30°	6929.4	6791.1	5751.0	5585.0	5565.7	5521.4	5045.6	4240.6	4237.9	4240.6
32.5°	7325.0	6865.8	5917.0	5908.7	5919.7	5784.2	4470.2	4453.6	4450.9	4478.5
35°	7867.2	6370.6	6331.9	6373.4	6315.3	5001.4	4738.6	4730.3	4733.0	4719.2
37.5°	7507.6	6868.6	6860.3	6860.3	6724.7	5117.5	5065.0	5103.7	5098.2	5078.8
40°	7659.7	7471.6	7421.8	7405.2	5684.6	5521.4	5491.0	5540.8	5549.1	5562.9
42.5°	8398.3	8226.8	8201.9	8005.5	6185.3	6132.7	6038.7	6091.2	6085.7	6102.3
45°	9305.6	9189.4	9081.5	6940.5	6860.3	6793.9	6697.1	6757.9	6774.5	6763.4
47.5°	10362.3	10235.1	9455.0	7632.0	7629.3	7576.7	7468.8	7518.6	7510.3	7510.3
50°	11424.5	11286.2	8589.2	8511.7	8484.0	8401.1	8312.5	8320.8	8323.6	8351.3
52.5°	12611.3	10080.2	9507.5	9352.6	9374.8	9319.4	9233.7	6990.3	9192.2	9217.1
55°	11786.9	10550.4	10517.2	10312.5	10365.1	10293.2	10237.8	6896.2	9142.4	10102.3
57.5°	11654.1	11565.6	11538.0	11327.7	11394.1	10710.9	11222.6	7546.3	6323.6	4619.6
60°	12669.4	12575.3	12558.7	12373.4	12367.8	8511.7	10201.9	5175.6	4044.2	4071.9
62.5°	13654.1	13502.0	13543.5	13325.0	9394.1	5186.7	4572.6	116.2	185.3	196.4
65°	14752.3	14497.8	14539.3	14337.4	9690.1	5468.8	4943.3	60.9	52.6	49.8
67.5°	15809.0	15363.7	15150.7	14937.7	10063.6	5759.3	5150.7	16.6	0.0	0.0
68°	15756.5	15286.2	15067.7	14865.7	10024.8	5751.0	5139.7	16.6	0.0	0.0
70°	14868.5	14445.3	14237.8	14082.9	9571.2	5554.6	4932.2	16.6	0.0	0.0
72.5°	12998.5	12763.4	12630.6	12495.1	8503.4	4968.2	4423.2	16.6	0.0	0.0
75°	11045.6	10979.2	10896.2	10597.4	7087.1	4066.4	3634.8	16.6	0.0	0.0
77.5°	8752.4	8749.6	8547.7	8196.4	5336.1	2984.8	2680.5	13.8	0.0	0.0
80°	4733.0	5159.0	5004.1	4824.3	3026.3	1623.8	1546.3	11.1	0.0	0.0
82.5°	1330.6	1258.6	1208.8	1131.4	636.2	354.1	345.8	11.1	0.0	0.0
85°	185.3	204.7	226.8	257.3	146.6	94.1	83.0	5.5	0.0	0.0
87.5°	105.1	118.9	146.6	152.1	55.3	44.3	13.8	0.0	0.0	0.0
90°	22.1	24.9	27.7	27.7	11.1	11.1	0.0	0.0	0.0	0.0
92.5°	0.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.8	2.8	2.8	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°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.8	2.8	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)