

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: P522171

Luminaire Tested: **CTN-CA10-760-740-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522171
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-CA10-760-740-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82069 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

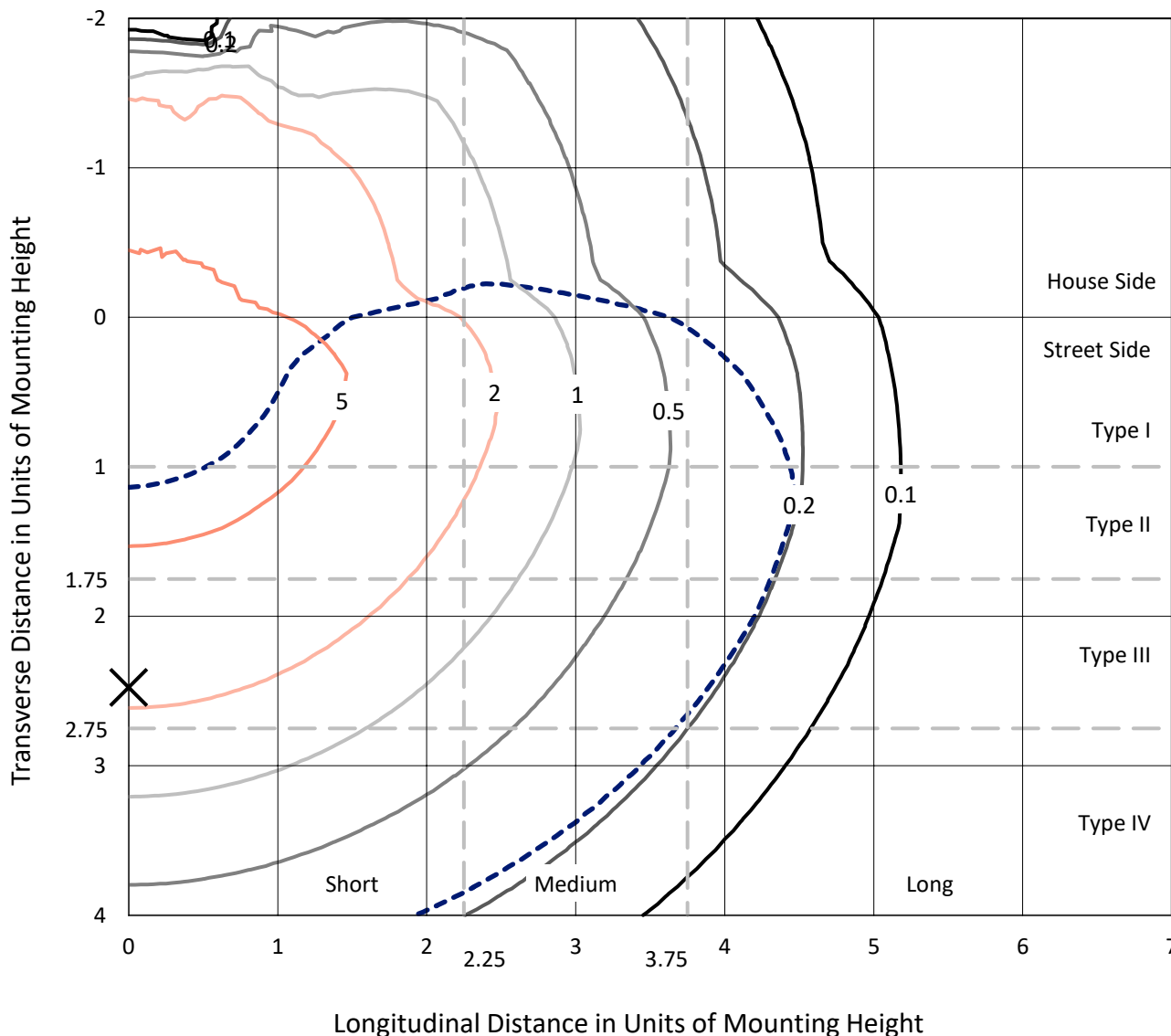
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

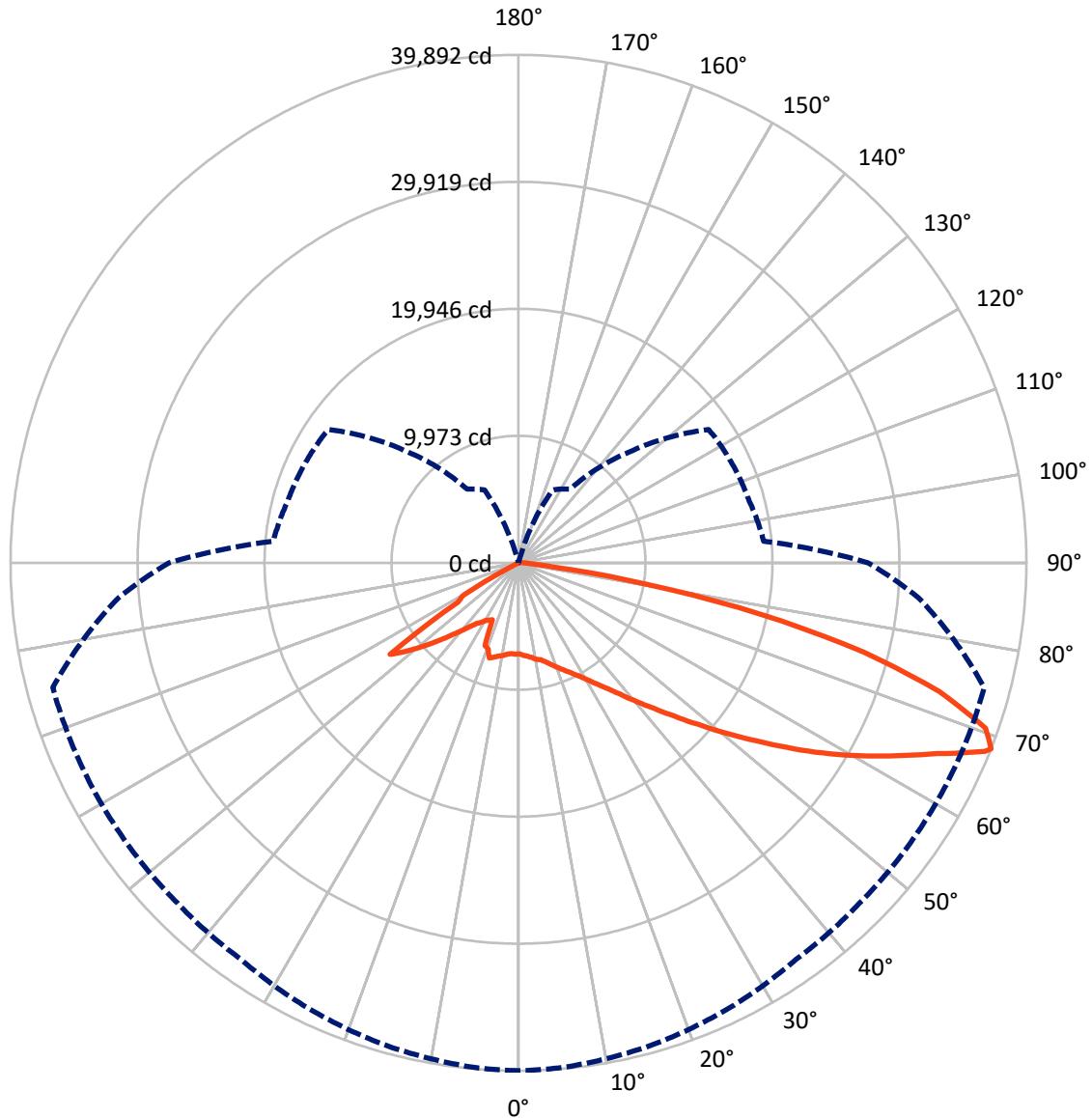
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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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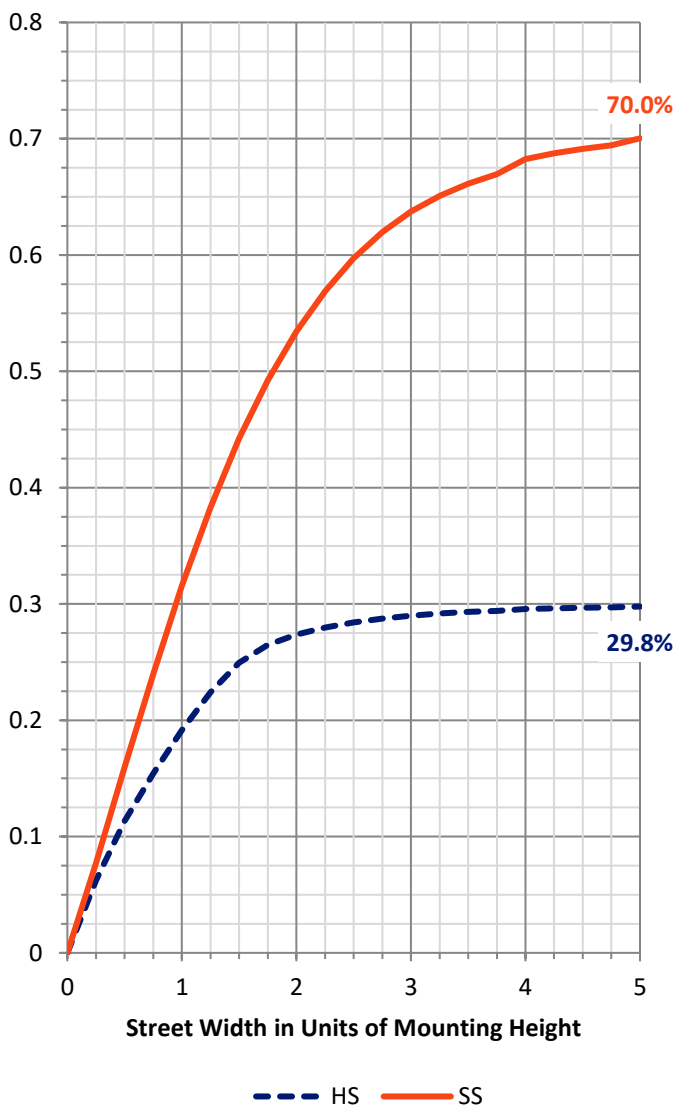
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24463.9	3.8	24467.7
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	57567.8	33.6	57601.4
	% Fixture	70.1	0.0	70.2
Total	Lumens	82031.6	37.4	82069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.4	0.8
10°-20°	2210.1	2.7
20°-30°	3785.7	4.6
30°-40°	6141.3	7.5
40°-50°	10357.0	12.6
50°-60°	16882.2	20.6
60°-70°	22641.8	27.6
70°-80°	17586.9	21.4
80°-90°	1732.0	2.1
90°-100°	32.9	0.0
100°-110°	1.9	0.0
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	82031.6	100.0
0°-180°	82069.0	100.0

Coefficient of Utilization

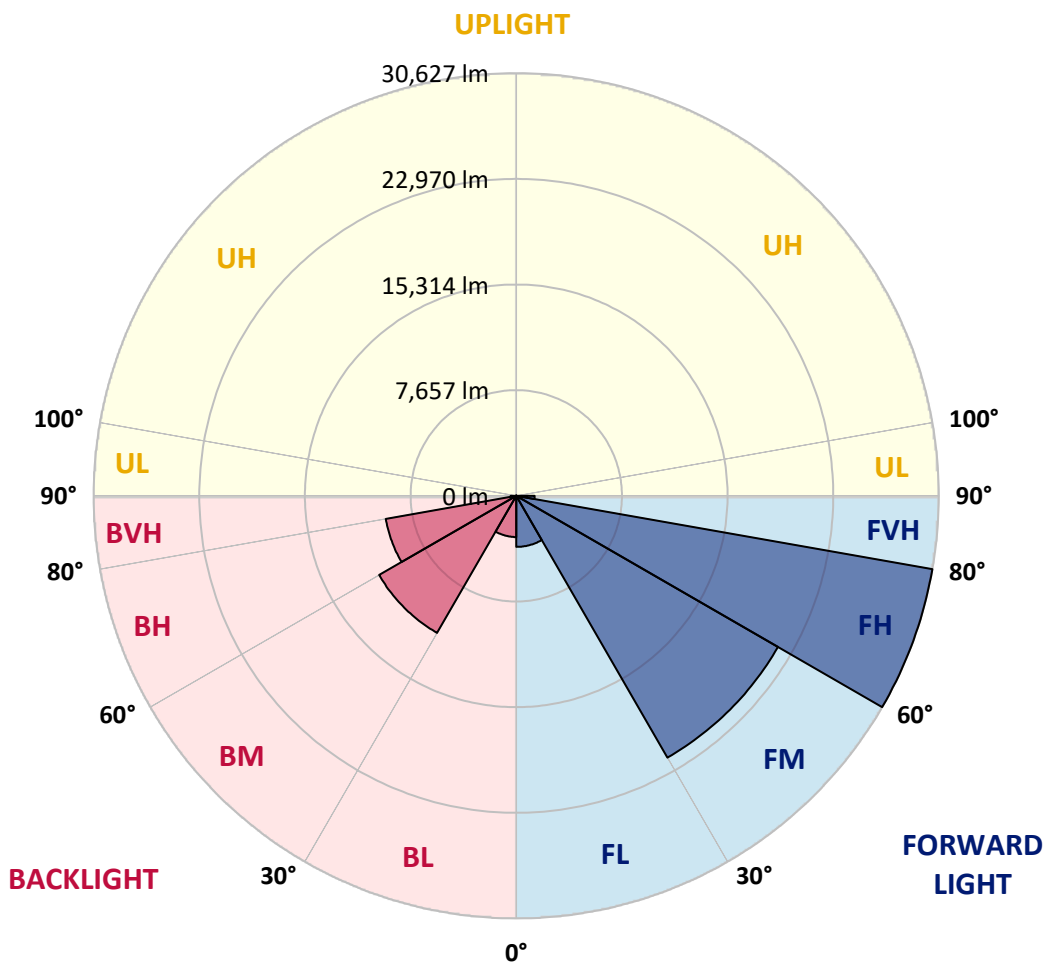


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3701.8	4.5			
FM	(30°-60°)	21907.1	26.7			
FH	(60°-80°)	30627.2	37.3			G5
FVH	(80°-90°)	1331.7	1.6			G5
BL	(0°-30°)	2988.5	3.6	B4/5000		
BM	(30°-60°)	11473.5	14.0	B5		
BH	(60°-80°)	9601.5	11.7	B5		G5
BVH	(80°-90°)	400.3	0.5			G3/500
UL	(90°-100°)	32.9	0.0		U2/50	
UH	(100°-180°)	4.5	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°	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9
2.5°	7273.7	7253.3	7249.9	7290.7	7161.7	7226.2	7168.5	7216.0	7185.4	7209.2	7212.6
5°	7372.1	7334.8	7311.0	7358.5	7277.1	7307.6	7243.1	7263.5	7178.7	7226.2	7233.0
7.5°	7514.7	7453.6	7446.8	7460.4	7389.1	7412.9	7307.6	7331.4	7270.3	7243.1	7266.9
10°	7708.1	7650.4	7606.3	7636.9	7541.8	7555.4	7443.4	7446.8	7402.7	7351.8	7392.5
12.5°	7816.8	7823.6	7803.2	7826.9	7748.9	7704.8	7626.7	7599.5	7555.4	7494.3	7474.0
15°	8088.3	8074.7	8034.0	8071.3	8061.1	8020.4	7925.4	7864.3	7769.2	7735.3	7701.4
17.5°	8420.9	8376.8	8342.9	8390.4	8441.3	8356.4	8264.8	8179.9	8054.4	7986.5	7945.7
20°	8770.5	8740.0	8706.0	8780.7	8797.7	8733.2	8665.3	8539.7	8393.8	8305.5	8220.7
22.5°	9160.9	9099.8	9109.9	9208.4	9177.8	9147.3	9059.0	8957.2	8780.7	8668.7	8424.3
25°	9564.8	9530.8	9578.3	9622.5	9598.7	9534.2	9490.1	9415.4	9218.6	9082.8	8726.4
27.5°	10067.1	10012.8	10073.9	10090.9	10070.5	10053.5	9992.4	9934.7	9720.9	9568.2	9123.5
30°	10657.7	10593.2	10691.6	10667.9	10647.5	10661.1	10623.7	10498.2	10308.1	10101.0	9656.4
32.5°	11360.3	11275.4	11387.4	11336.5	11289.0	11384.0	11295.8	11177.0	10953.0	10712.0	10277.5
35°	12174.9	12178.3	12236.0	12151.1	12134.1	12236.0	12178.3	12032.3	11825.3	11574.1	10956.4
37.5°	13162.6	13135.4	13281.4	13240.6	13179.5	13315.3	13332.3	13149.0	12775.6	12527.9	11798.1
40°	14364.1	14357.3	14404.8	14411.6	14394.7	14459.1	14489.7	14245.3	14004.3	13631.0	11132.9
42.5°	15647.1	15674.3	15759.1	15698.0	15779.5	15864.3	15874.5	15670.9	15324.7	13077.7	11825.3
45°	17188.1	17272.9	17330.6	17317.0	17354.4	17476.6	17486.7	17378.1	17038.7	14167.2	13081.1
47.5°	18956.4	19037.9	19054.8	19163.5	19129.5	19302.6	19278.9	19282.3	18919.1	15684.4	14449.0
50°	20989.5	21026.9	21166.0	21227.1	21142.3	21376.5	21315.4	21390.0	20942.0	17422.2	15918.6
52.5°	23148.2	23212.7	23270.4	23501.2	23392.6	23596.2	23514.8	23687.9	23168.6	19190.6	17551.2
55°	25602.2	25612.4	25710.8	25945.0	25802.4	26046.8	25928.0	25992.5	25578.4	21145.6	19251.7
57.5°	28202.1	28168.2	28205.5	28392.2	28263.2	28446.5	28399.0	28460.1	28073.1	23202.5	20494.0
60°	30774.9	30724.0	30778.3	30903.9	30727.4	31043.0	30873.3	30931.0	30513.5	25303.5	22265.7
62.5°	33361.2	33323.9	33262.8	33388.4	33130.4	33293.4	33364.6	33269.6	32903.0	27204.2	23806.7
65°	36137.7	36100.3	35876.3	35954.4	35492.8	35414.7	35441.9	35472.4	35228.0	29088.0	25497.0
67.5°	39511.5	39457.2	39036.3	38506.8	37841.5	37695.6	37709.2	37790.6	37824.6	31511.4	27475.8
68°	39891.6	39793.2	39324.8	38710.5	38014.6	37844.9	37828.0	37844.9	37861.9	31531.8	27455.4
70°	38920.9	38883.6	38527.2	37783.8	37071.1	36663.8	36310.8	36297.2	36134.3	29919.6	25938.2
72.5°	34539.0	34491.5	34067.2	33541.1	33099.9	32461.8	32003.6	32030.7	31762.6	26443.9	22703.6
75°	27950.9	27947.6	27438.4	26997.2	27004.0	26956.5	26803.7	27071.9	26793.5	22428.6	19363.7
77.5°	19479.1	19547.0	19513.1	19255.1	19618.3	20120.6	20667.1	21183.0	21023.5	17717.5	15440.1
80°	10175.7	10365.8	11037.8	11068.4	11322.9	11811.7	12185.1	12531.3	12555.0	10053.5	8919.9
82.5°	2705.1	2762.9	2990.3	2925.8	2905.4	3003.8	3085.3	3095.5	3102.3	2620.3	2447.2
85°	841.8	865.5	838.4	801.0	743.3	678.8	661.9	539.7	427.7	353.0	308.9
87.5°	597.4	638.1	577.0	543.1	482.0	458.2	410.7	322.4	251.2	176.5	118.8
90°	308.9	315.7	281.7	241.0	224.0	210.4	179.9	129.0	64.5	33.9	30.5
92.5°	156.1	159.5	139.2	118.8	101.8	88.2	67.9	37.3	20.4	10.2	3.4
95°	61.1	64.5	57.7	50.9	40.7	30.5	27.2	20.4	13.6	6.8	3.4
97.5°	20.4	20.4	20.4	17.0	17.0	17.0	17.0	13.6	10.2	6.8	3.4
100°	0.0	0.0	0.0	3.4	6.8	10.2	10.2	10.2	6.8	3.4	3.4
102.5°	0.0	0.0	0.0	0.0	0.0	3.4	6.8	6.8	6.8	3.4	3.4
105°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4



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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	3.4	3.4	3.4
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
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	3.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
175°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
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°	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9	7154.9
2.5°	7195.6	7175.3	7185.4	7100.6	7121.0	7066.7	7182.1	7151.5	7137.9	7185.4
5°	7212.6	7137.9	7199.0	7141.3	7151.5	7073.4	7168.5	7131.1	7127.7	7154.9
7.5°	7219.4	7182.1	7239.8	7144.7	7175.3	7144.7	7216.0	7178.7	7212.6	7236.4
10°	7314.4	7294.1	7287.3	7253.3	7277.1	7209.2	7297.5	7297.5	7314.4	7378.9
12.5°	7453.6	7426.4	7409.5	7348.4	7372.1	7351.8	7423.0	7436.6	7467.2	7494.3
15°	7643.7	7596.1	7579.2	7524.9	7541.8	7538.4	7589.4	7592.7	7660.6	7657.2
17.5°	7888.0	7820.2	7840.5	7799.8	7803.2	7776.0	7748.9	7748.9	7810.0	7823.6
20°	8179.9	7793.0	7283.9	6998.8	6947.9	6985.2	7131.1	7372.1	7070.0	7154.9
22.5°	7653.8	7304.2	7280.5	7216.0	7175.3	6265.6	6031.4	5956.8	6347.1	7019.1
25°	7721.7	7572.4	7528.3	7446.8	6245.3	6235.1	6167.2	6055.2	4948.7	4924.9
27.5°	8081.5	7935.6	7864.3	6523.6	6496.4	6493.0	6391.2	5267.7	5013.2	5047.1
30°	8502.4	8332.7	7056.5	6852.8	6829.1	6774.8	6191.0	5203.3	5199.9	5203.3
32.5°	8987.7	8424.3	7260.1	7249.9	7263.5	7097.2	5485.0	5464.6	5461.2	5495.2
35°	9653.0	7816.8	7769.2	7820.2	7748.9	6136.7	5814.2	5804.0	5807.4	5790.4
37.5°	9211.8	8427.7	8417.5	8417.5	8251.2	6279.2	6214.7	6262.2	6255.4	6231.7
40°	9398.4	9167.6	9106.5	9086.2	6975.0	6774.8	6737.4	6798.5	6808.7	6825.7
42.5°	10304.7	10094.2	10063.7	9822.7	7589.4	7524.9	7409.5	7474.0	7467.2	7487.5
45°	11418.0	11275.4	11143.0	8516.0	8417.5	8336.1	8217.3	8291.9	8312.3	8298.7
47.5°	12714.5	12558.4	11601.3	9364.5	9361.1	9296.6	9164.2	9225.3	9215.2	9215.2
50°	14017.9	13848.2	10538.9	10443.8	10409.9	10308.1	10199.5	10209.6	10213.0	10247.0
52.5°	15474.0	12368.3	11665.7	11475.7	11502.8	11434.9	11329.7	8577.1	11278.8	11309.4
55°	14462.5	12945.3	12904.6	12653.4	12717.9	12629.7	12561.8	8461.7	11217.7	12395.5
57.5°	14299.6	14191.0	14157.1	13899.1	13980.6	13142.2	13770.1	9259.3	7759.1	5668.3
60°	15545.3	15429.9	15409.5	15182.1	15175.3	10443.8	12517.7	6350.5	4962.3	4996.2
62.5°	16753.6	16566.9	16617.8	16349.7	11526.6	6364.1	5610.6	142.6	227.4	241.0
65°	18101.1	17788.8	17839.7	17592.0	11889.8	6710.3	6065.4	74.7	64.5	61.1
67.5°	19397.7	18851.2	18589.8	18328.5	12348.0	7066.7	6319.9	20.4	0.0	0.0
68°	19333.2	18756.2	18488.0	18240.2	12300.5	7056.5	6306.4	20.4	0.0	0.0
70°	18243.6	17724.3	17469.8	17279.7	11743.8	6815.5	6051.8	20.4	0.0	0.0
72.5°	15949.2	15660.7	15497.8	15331.4	10433.7	6095.9	5427.3	20.4	0.0	0.0
75°	13552.9	13471.4	13369.6	13003.0	8695.9	4989.4	4459.9	20.4	0.0	0.0
77.5°	10739.1	10735.7	10488.0	10056.9	6547.3	3662.3	3288.9	17.0	0.0	0.0
80°	5807.4	6330.1	6140.0	5919.4	3713.2	1992.4	1897.3	13.6	0.0	0.0
82.5°	1632.6	1544.3	1483.3	1388.2	780.7	434.5	424.3	13.6	0.0	0.0
85°	227.4	251.2	278.3	315.7	179.9	115.4	101.8	6.8	0.0	0.0
87.5°	129.0	145.9	179.9	186.7	67.9	54.3	17.0	0.0	0.0	0.0
90°	27.2	30.5	33.9	33.9	13.6	13.6	0.0	0.0	0.0	0.0
92.5°	0.0	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.4	3.4	3.4	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°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.4	3.4	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)