

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: STREETWORKS

Report Number: P522174

Luminaire Tested: **CST-CA10-760-750-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522174
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: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83575 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

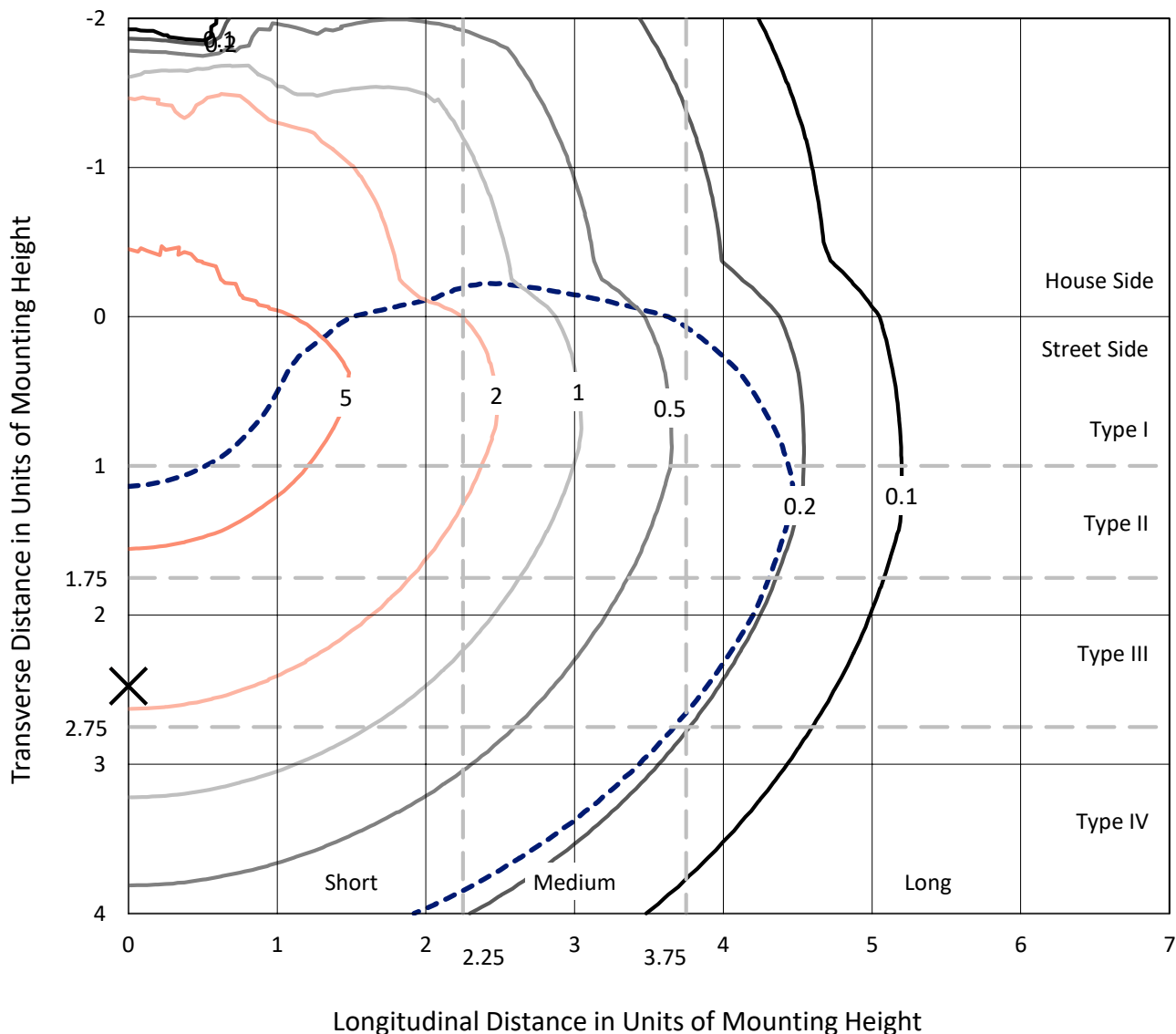
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

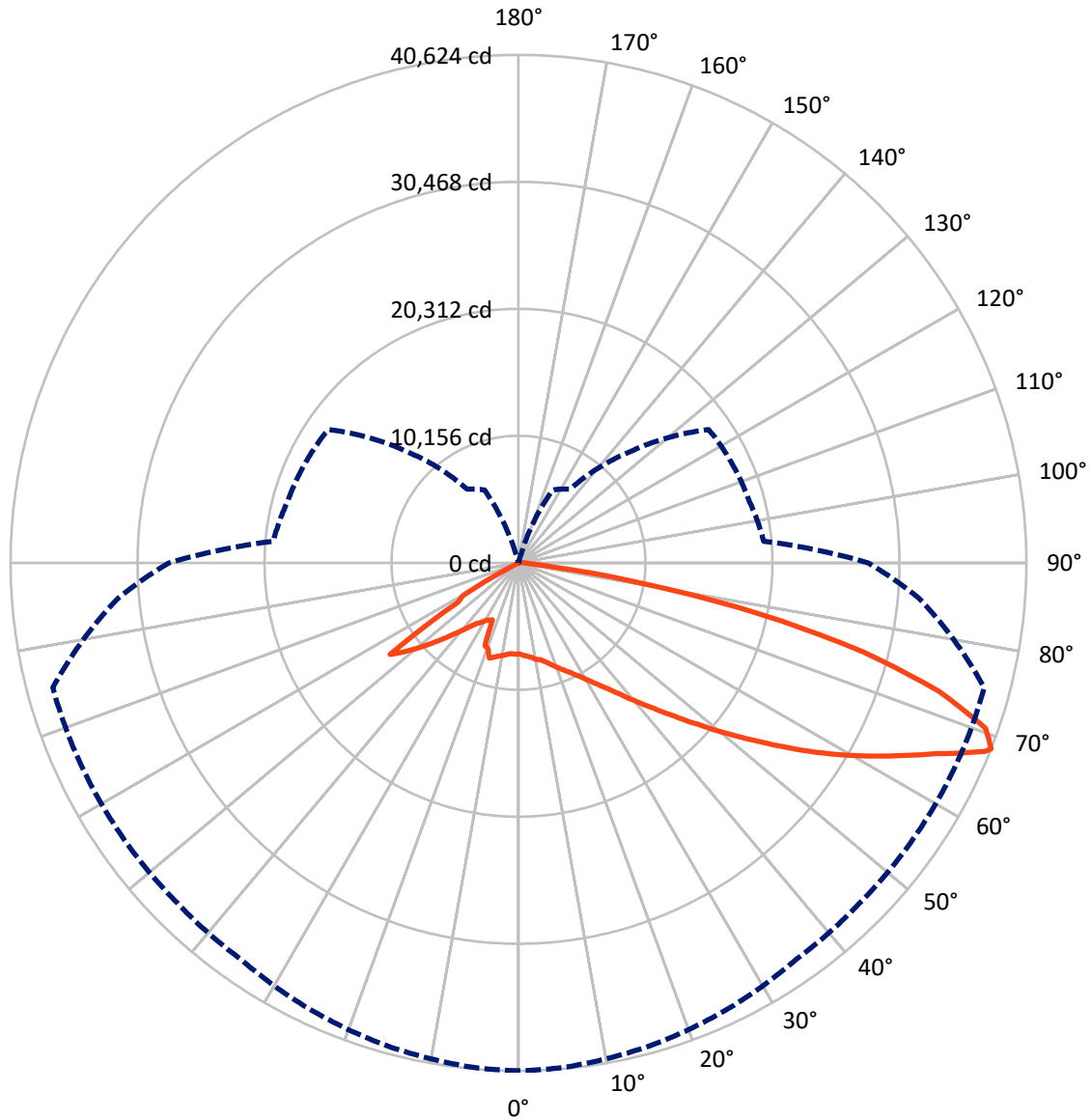
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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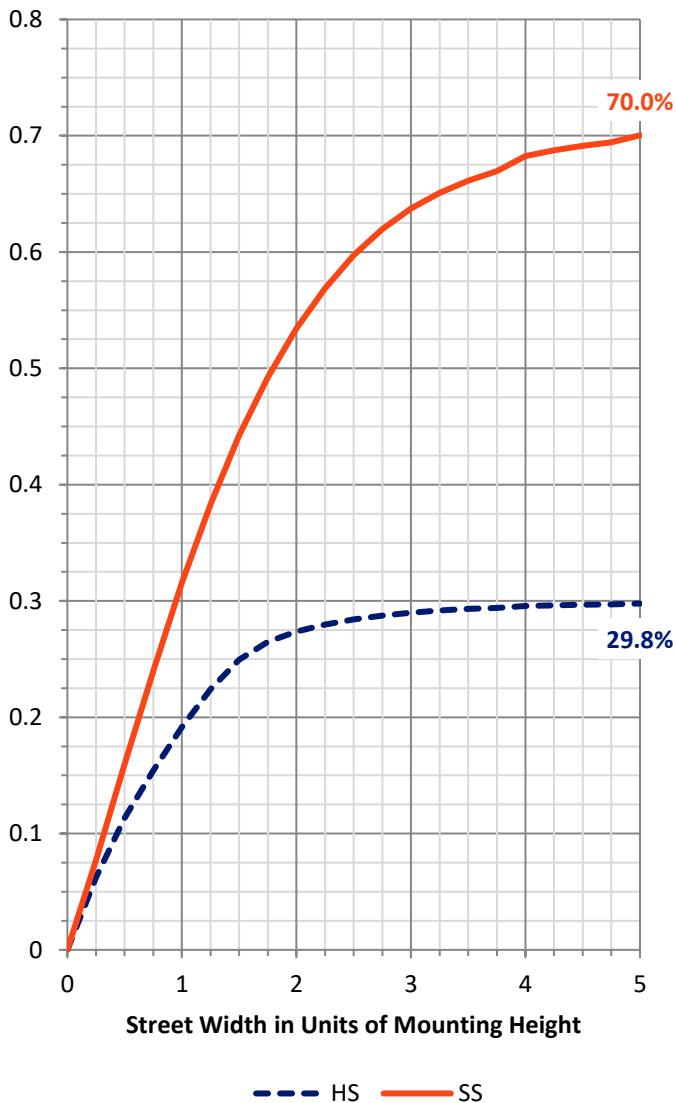
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24912.8	3.9	24916.7
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	58624.1	34.2	58658.4
	% Fixture	70.1	0.0	70.2
Total	Lumens	83536.9	38.1	83575.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	0.8
10°-20°	2250.7	2.7
20°-30°	3855.2	4.6
30°-40°	6254.0	7.5
40°-50°	10547.1	12.6
50°-60°	17192.0	20.6
60°-70°	23057.3	27.6
70°-80°	17909.6	21.4
80°-90°	1763.8	2.1
90°-100°	33.5	0.0
100°-110°	1.9	0.0
110°-120°	0.5	0.0
120°-130°	0.4	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	83536.9	100.0
0°-180°	83575.0	100.0

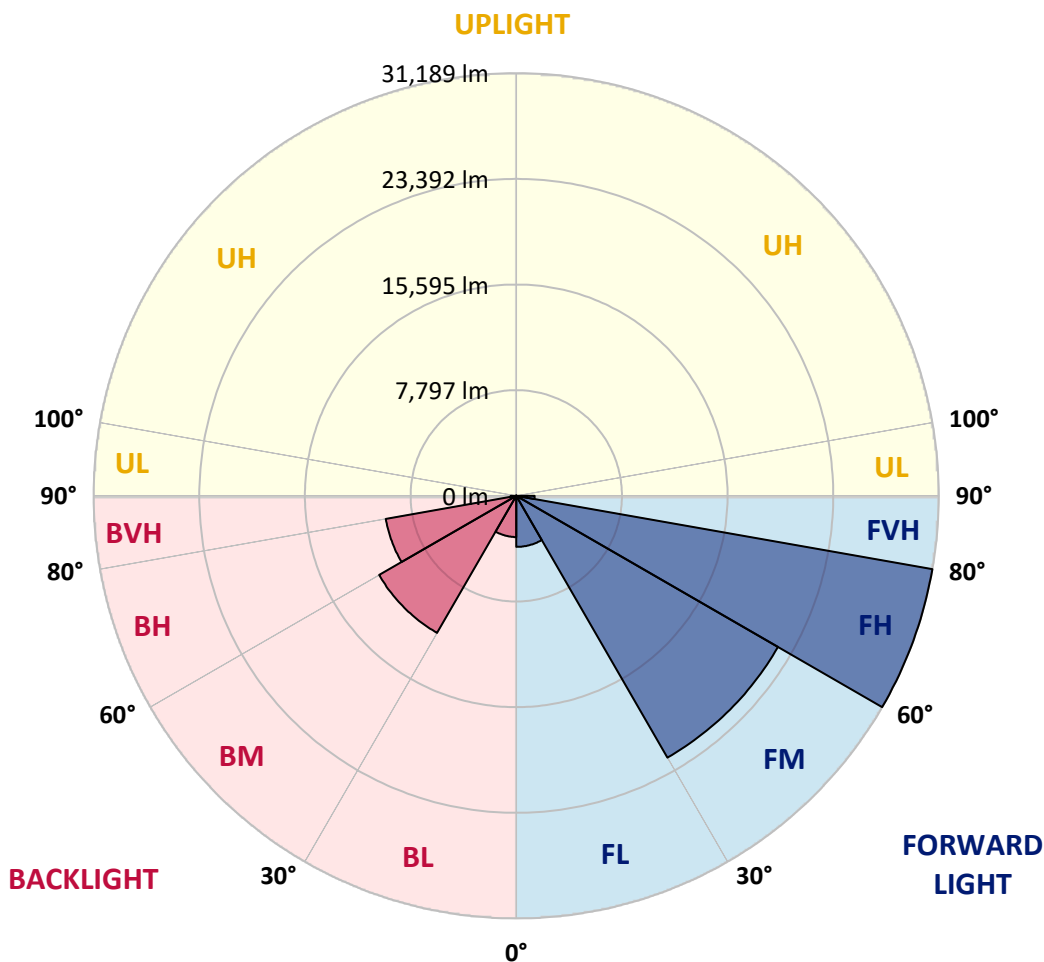


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3769.7	4.5			
FM	(30°-60°)	22309.1	26.7			
FH	(60°-80°)	31189.2	37.3			G5
FVH	(80°-90°)	1356.1	1.6			G5
BL	(0°-30°)	3043.4	3.6	B4/5000		
BM	(30°-60°)	11684.0	14.0	B5		
BH	(60°-80°)	9777.7	11.7	B5		G5
BVH	(80°-90°)	407.7	0.5			G3/500
UL	(90°-100°)	33.5	0.0		U2/50	
UH	(100°-180°)	4.6	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°	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2
2.5°	7407.2	7386.4	7383.0	7424.5	7293.1	7358.8	7300.0	7348.4	7317.3	7341.5	7345.0
5°	7507.4	7469.4	7445.2	7493.6	7410.6	7441.7	7376.1	7396.8	7310.4	7358.8	7365.7
7.5°	7652.6	7590.4	7583.5	7597.3	7524.7	7548.9	7441.7	7465.9	7403.7	7376.1	7400.3
10°	7849.6	7790.8	7745.9	7777.0	7680.2	7694.1	7580.0	7583.5	7538.5	7486.7	7528.1
12.5°	7960.2	7967.1	7946.4	7970.6	7891.1	7846.1	7766.6	7739.0	7694.1	7631.8	7611.1
15°	8236.7	8222.9	8181.4	8219.4	8209.1	8167.6	8070.8	8008.6	7911.8	7877.2	7842.7
17.5°	8575.5	8530.5	8496.0	8544.3	8596.2	8509.8	8416.5	8330.0	8202.2	8133.0	8091.5
20°	8931.5	8900.4	8865.8	8941.8	8959.1	8893.4	8824.3	8696.4	8547.8	8457.9	8371.5
22.5°	9329.0	9266.7	9277.1	9377.3	9346.2	9315.1	9225.3	9121.6	8941.8	8827.8	8578.9
25°	9740.3	9705.7	9754.1	9799.0	9774.8	9709.2	9664.2	9588.2	9387.7	9249.5	8886.5
27.5°	10251.8	10196.5	10258.7	10276.0	10255.3	10238.0	10175.8	10117.0	9899.3	9743.7	9290.9
30°	10853.3	10787.6	10887.8	10863.6	10842.9	10856.7	10818.7	10690.8	10497.2	10286.4	9833.6
32.5°	11568.7	11482.3	11596.4	11544.5	11496.2	11592.9	11503.1	11382.1	11154.0	10908.6	10466.1
35°	12398.3	12401.7	12460.5	12374.1	12356.8	12460.5	12401.7	12253.1	12042.3	11786.5	11157.4
37.5°	13404.1	13376.5	13525.1	13483.6	13421.4	13559.7	13576.9	13390.3	13010.1	12757.8	12014.6
40°	14627.7	14620.8	14669.2	14676.1	14658.8	14724.5	14755.6	14506.7	14261.3	13881.1	11337.2
42.5°	15934.2	15961.9	16048.3	15986.1	16069.0	16155.4	16165.8	15958.4	15605.9	13317.7	12042.3
45°	17503.5	17589.9	17648.6	17634.8	17672.8	17797.3	17807.6	17697.0	17351.4	14427.2	13321.2
47.5°	19304.3	19387.2	19404.5	19515.1	19480.5	19656.8	19632.6	19636.1	19266.2	15972.3	14714.1
50°	21374.7	21412.7	21554.4	21616.6	21530.2	21768.7	21706.5	21782.5	21326.3	17742.0	16210.7
52.5°	23573.0	23638.7	23697.4	23932.5	23821.8	24029.2	23946.3	24122.6	23593.7	19542.8	17873.3
55°	26072.0	26082.4	26182.6	26421.1	26275.9	26524.8	26403.8	26469.5	26047.8	21533.7	19605.0
57.5°	28719.6	28685.1	28723.1	28913.2	28781.9	28968.5	28920.1	28982.3	28588.3	23628.3	20870.0
60°	31339.6	31287.8	31343.1	31471.0	31291.2	31612.7	31439.9	31498.6	31073.5	25767.8	22674.3
62.5°	33973.4	33935.4	33873.2	34001.1	33738.4	33904.3	33976.9	33880.1	33506.8	27703.4	24243.5
65°	36800.8	36762.8	36534.7	36614.2	36144.1	36064.6	36092.2	36123.4	35874.5	29621.8	25964.8
67.5°	40236.5	40181.2	39752.6	39213.4	38536.0	38387.3	38401.2	38484.1	38518.7	32089.7	27980.0
68°	40623.7	40523.4	40046.4	39420.8	38712.2	38539.4	38522.1	38539.4	38556.7	32110.4	27959.2
70°	39635.1	39597.1	39234.2	38477.2	37751.3	37336.6	36977.1	36963.3	36797.4	30468.6	26414.2
72.5°	35172.8	35124.4	34692.4	34156.6	33707.3	33057.5	32590.9	32618.5	32345.5	26929.2	23120.2
75°	28463.9	28460.4	27941.9	27492.6	27499.5	27451.1	27295.6	27568.6	27285.2	22840.2	19719.0
77.5°	19836.6	19905.7	19871.1	19608.4	19978.3	20489.8	21046.3	21571.7	21409.2	18042.7	15723.4
80°	10362.4	10556.0	11240.4	11271.5	11530.7	12028.4	12408.7	12761.2	12785.4	10238.0	9083.5
82.5°	2754.8	2813.5	3045.1	2979.5	2958.7	3059.0	3141.9	3152.3	3159.2	2668.4	2492.1
85°	857.2	881.4	853.7	815.7	757.0	691.3	674.0	549.6	435.5	359.5	314.5
87.5°	608.3	649.8	587.6	553.0	490.8	466.6	418.2	328.4	255.8	179.7	121.0
90°	314.5	321.4	286.9	245.4	228.1	214.3	183.2	131.3	65.7	34.6	31.1
92.5°	159.0	162.5	141.7	121.0	103.7	89.9	69.1	38.0	20.7	10.4	3.5
95°	62.2	65.7	58.8	51.8	41.5	31.1	27.7	20.7	13.8	6.9	3.5
97.5°	20.7	20.7	20.7	17.3	17.3	17.3	17.3	13.8	10.4	6.9	3.5
100°	0.0	0.0	0.0	3.5	6.9	10.4	10.4	10.4	6.9	3.5	3.5
102.5°	0.0	0.0	0.0	0.0	0.0	3.5	6.9	6.9	6.9	3.5	3.5
105°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5



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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	3.5	3.5	3.5
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
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	3.5
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
165°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
175°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5
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°	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2
2.5°	7327.7	7306.9	7317.3	7230.9	7251.6	7196.3	7313.8	7282.7	7268.9	7317.3
5°	7345.0	7268.9	7331.1	7272.4	7282.7	7203.2	7300.0	7262.0	7258.5	7286.2
7.5°	7351.9	7313.8	7372.6	7275.8	7306.9	7275.8	7348.4	7310.4	7345.0	7369.2
10°	7448.6	7427.9	7421.0	7386.4	7410.6	7341.5	7431.4	7431.4	7448.6	7514.3
12.5°	7590.4	7562.7	7545.4	7483.2	7507.4	7486.7	7559.3	7573.1	7604.2	7631.8
15°	7783.9	7735.5	7718.3	7662.9	7680.2	7676.8	7728.6	7732.1	7801.2	7797.7
17.5°	8032.8	7963.7	7984.4	7942.9	7946.4	7918.7	7891.1	7891.1	7953.3	7967.1
20°	8330.0	7936.0	7417.5	7127.2	7075.4	7113.4	7262.0	7507.4	7199.8	7286.2
22.5°	7794.3	7438.3	7414.1	7348.4	7306.9	6380.6	6142.1	6066.1	6463.6	7147.9
25°	7863.4	7711.3	7666.4	7583.5	6359.9	6349.5	6280.4	6166.3	5039.5	5015.3
27.5°	8229.8	8081.2	8008.6	6643.3	6615.6	6612.2	6508.5	5364.4	5105.2	5139.7
30°	8658.4	8485.6	7186.0	6978.6	6954.4	6899.1	6304.6	5298.7	5295.3	5298.7
32.5°	9152.7	8578.9	7393.3	7383.0	7396.8	7227.4	5585.6	5564.9	5561.4	5596.0
35°	9830.1	7960.2	7911.8	7963.7	7891.1	6249.3	5920.9	5910.5	5914.0	5896.7
37.5°	9380.8	8582.4	8572.0	8572.0	8402.6	6394.4	6328.8	6377.1	6370.2	6346.0
40°	9570.9	9335.9	9273.7	9252.9	7103.0	6899.1	6861.1	6923.3	6933.6	6950.9
42.5°	10493.8	10279.5	10248.4	10003.0	7728.6	7662.9	7545.4	7611.1	7604.2	7624.9
45°	11627.5	11482.3	11347.5	8672.2	8572.0	8489.0	8368.1	8444.1	8464.8	8451.0
47.5°	12947.9	12788.9	11814.1	9536.3	9532.9	9467.2	9332.4	9394.6	9384.3	9384.3
50°	14275.1	14102.3	10732.3	10635.5	10600.9	10497.2	10386.6	10397.0	10400.5	10435.0
52.5°	15758.0	12595.3	11879.8	11686.3	11713.9	11644.8	11537.6	8734.4	11485.8	11516.9
55°	14727.9	13182.9	13141.4	12885.6	12951.3	12861.4	12792.3	8616.9	11423.6	12623.0
57.5°	14562.0	14451.4	14416.9	14154.2	14237.1	13383.4	14022.8	9429.2	7901.4	5772.3
60°	15830.5	15713.0	15692.3	15460.7	15453.8	10635.5	12747.4	6467.0	5053.3	5087.9
62.5°	17061.0	16870.9	16922.8	16649.7	11738.1	6480.8	5713.5	145.2	231.6	245.4
65°	18433.2	18115.3	18167.1	17914.8	12107.9	6833.4	6176.7	76.0	65.7	62.2
67.5°	19753.6	19197.1	18931.0	18664.8	12574.6	7196.3	6435.9	20.7	0.0	0.0
68°	19687.9	19100.3	18827.3	18575.0	12526.2	7186.0	6422.1	20.7	0.0	0.0
70°	18578.4	18049.6	17790.3	17596.8	11959.3	6940.6	6162.8	20.7	0.0	0.0
72.5°	16241.9	15948.1	15782.1	15612.8	10625.1	6207.8	5526.9	20.7	0.0	0.0
75°	13801.6	13718.6	13615.0	13241.7	8855.4	5081.0	4541.8	20.7	0.0	0.0
77.5°	10936.2	10932.7	10680.4	10241.5	6667.5	3729.5	3349.3	17.3	0.0	0.0
80°	5914.0	6446.3	6252.7	6028.0	3781.4	2028.9	1932.2	13.8	0.0	0.0
82.5°	1662.6	1572.7	1510.5	1413.7	795.0	442.4	432.1	13.8	0.0	0.0
85°	231.6	255.8	283.4	321.4	183.2	117.5	103.7	6.9	0.0	0.0
87.5°	131.3	148.6	183.2	190.1	69.1	55.3	17.3	0.0	0.0	0.0
90°	27.7	31.1	34.6	34.6	13.8	13.8	0.0	0.0	0.0	0.0
92.5°	0.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.5	3.5	3.5	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°	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.5	3.5	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)