

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: P522179

Luminaire Tested: **CST-CA10-760-760-U-T5R-HSS-HM-EX90**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-760-U-T5R-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 89911 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

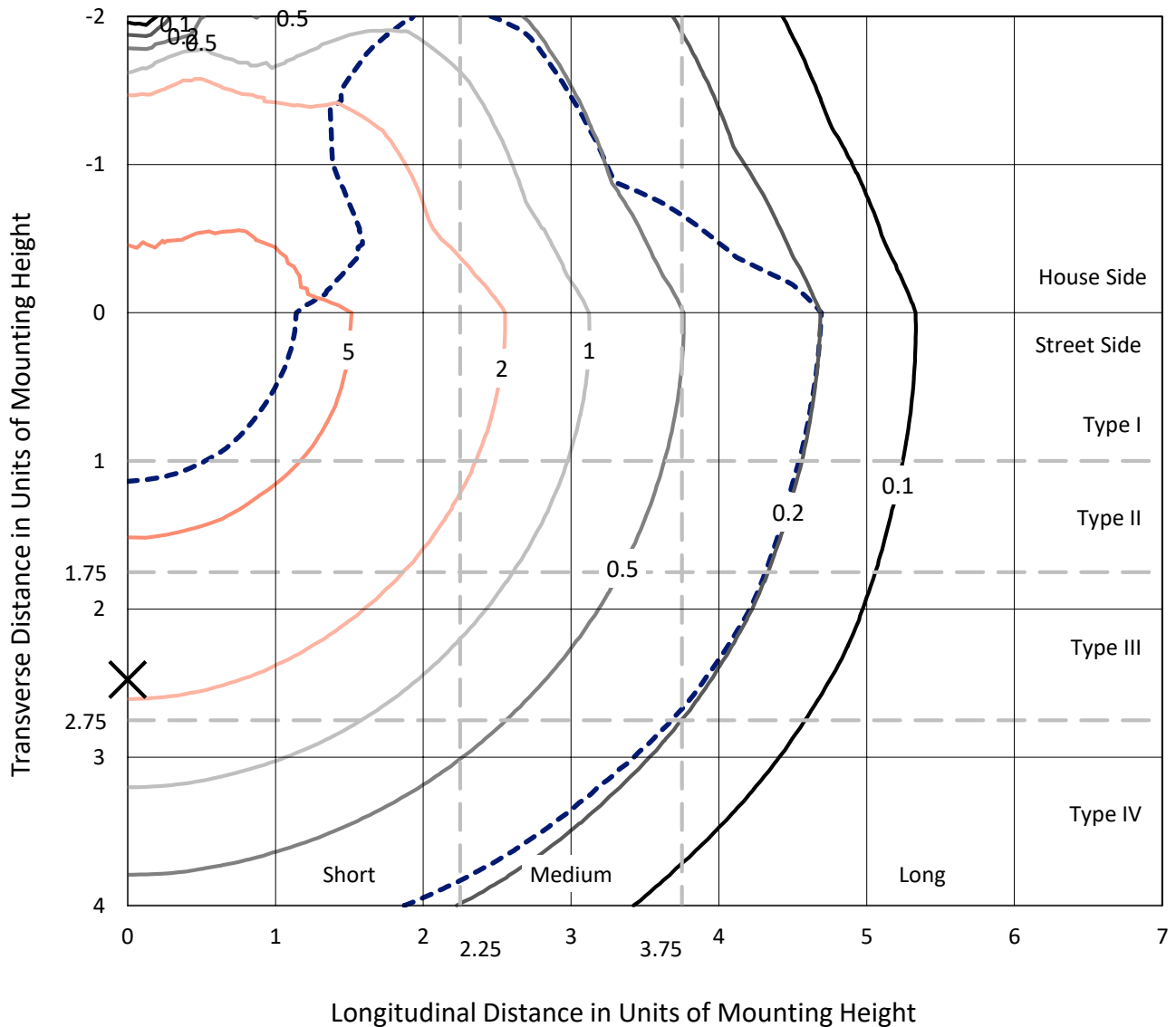
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

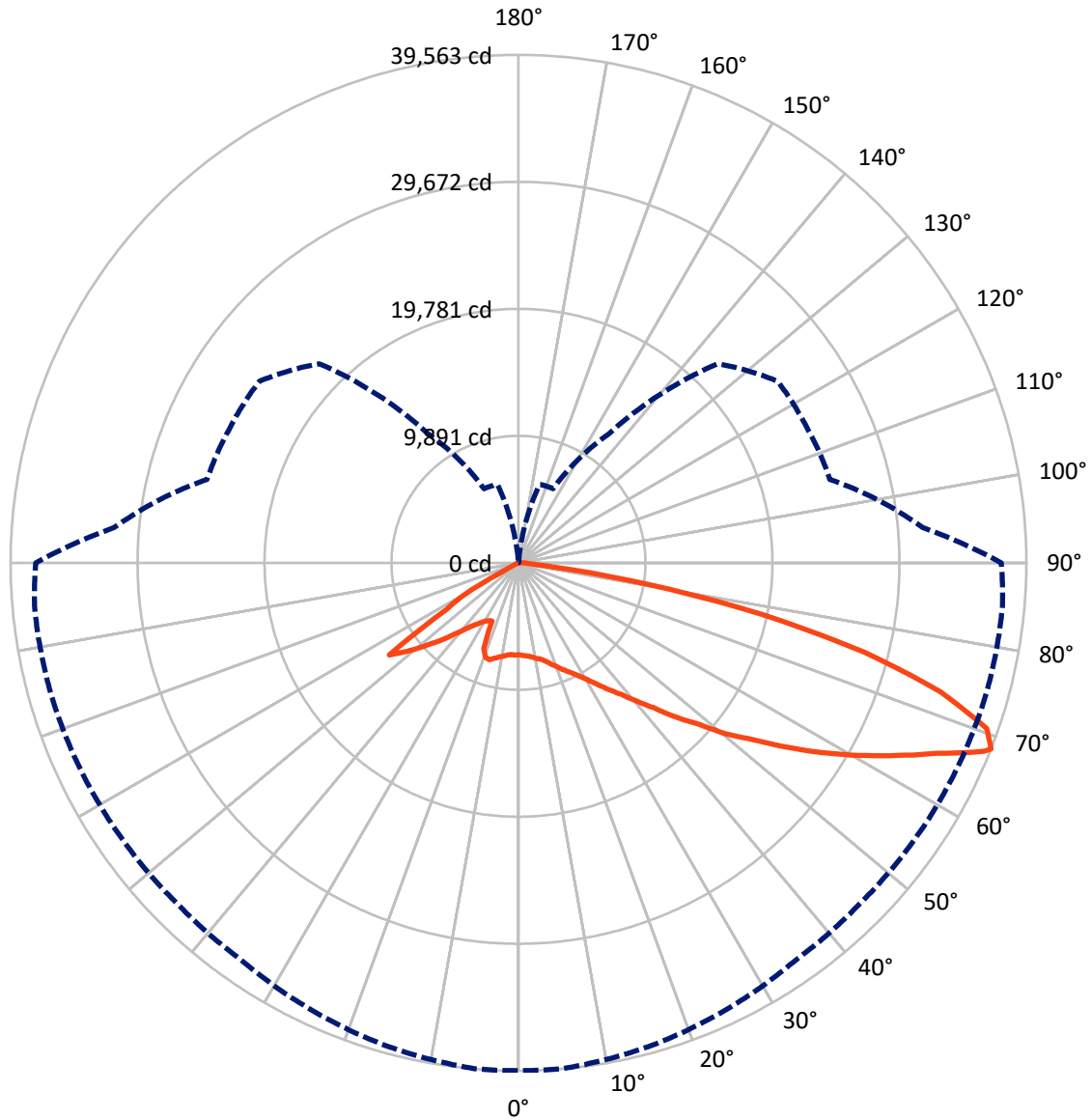
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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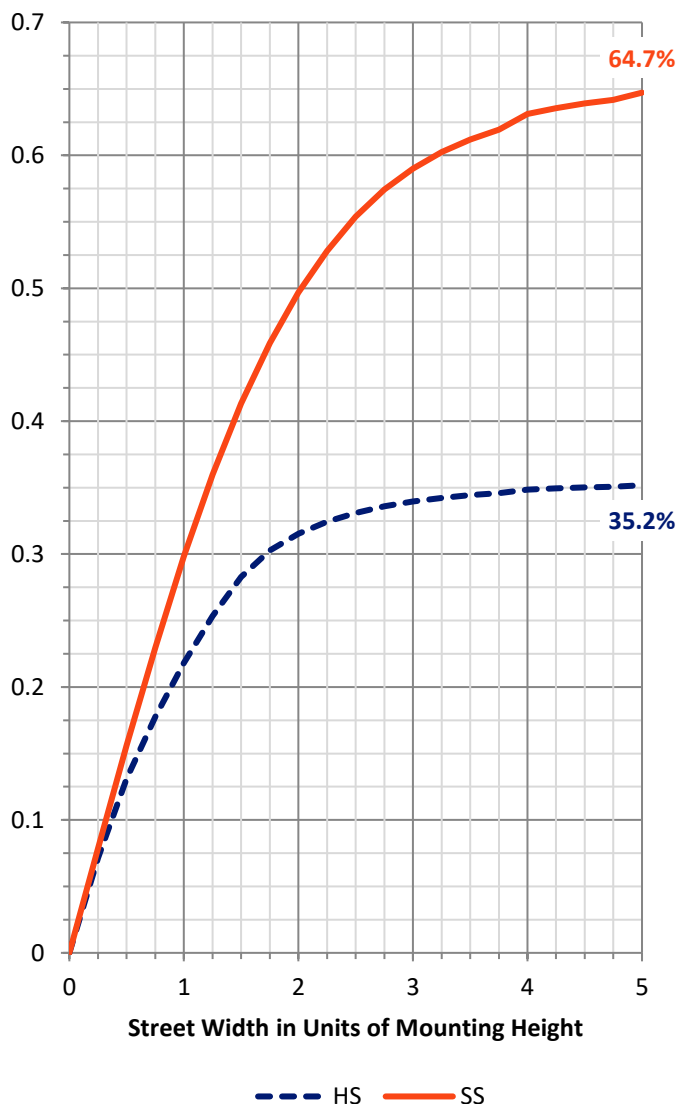
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31642.5	5.5	31648.0
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	58239.3	23.7	58263.0
	% Fixture	64.8	0.0	64.8
Total	Lumens	89881.9	29.2	89911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.2	0.8
10°-20°	2217.8	2.5
20°-30°	3959.3	4.4
30°-40°	6440.9	7.2
40°-50°	10999.1	12.2
50°-60°	18352.6	20.4
60°-70°	25532.1	28.4
70°-80°	19791.3	22.0
80°-90°	1896.5	2.1
90°-100°	22.9	0.0
100°-110°	2.0	0.0
110°-120°	1.0	0.0
120°-130°	0.7	0.0
130°-140°	0.7	0.0
140°-150°	0.8	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-90°	89881.9	100.0
0°-180°	89911.0	100.0

Coefficient of Utilization

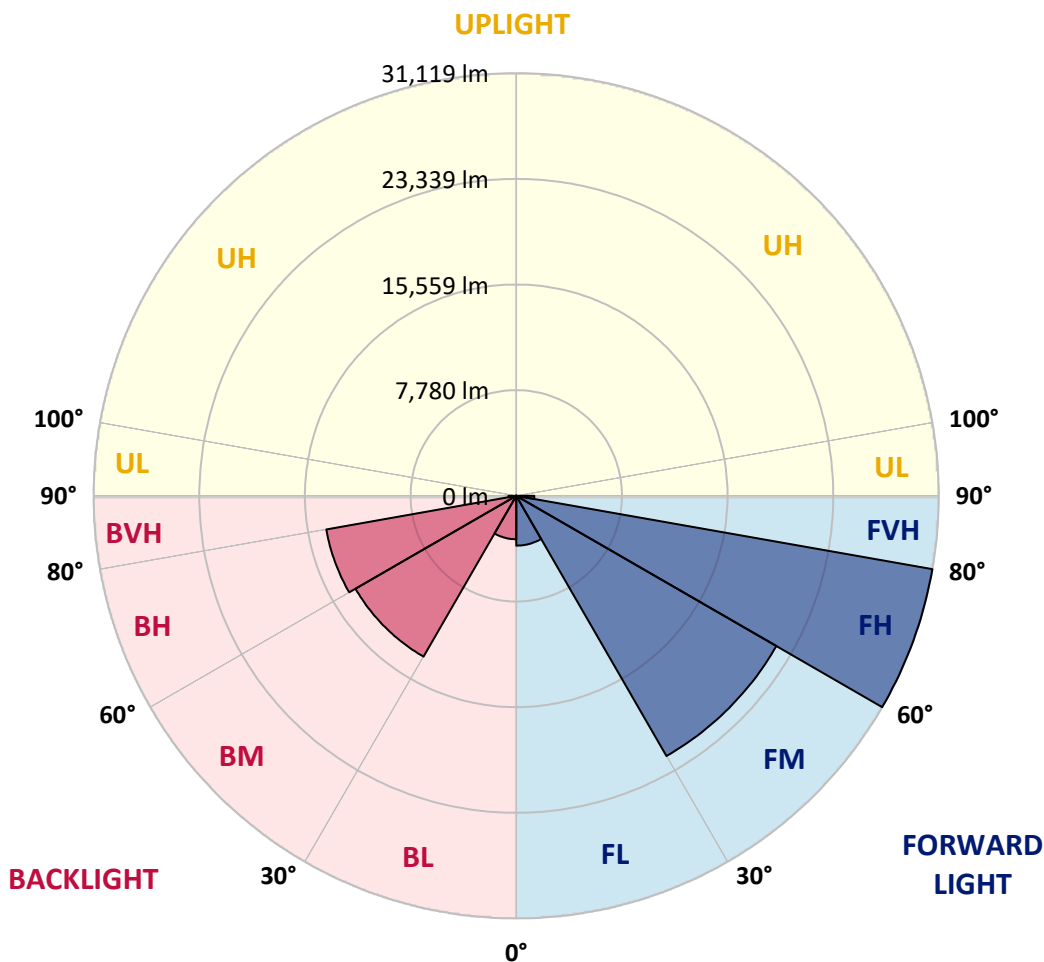


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3669.6	4.1			
FM	(30°-60°)	22124.4	24.6			
FH	(60°-80°)	31118.5	34.6			G5
FVH	(80°-90°)	1326.8	1.5			G5
BL	(0°-30°)	3199.7	3.6	B4/5000		
BM	(30°-60°)	13668.2	15.2	B5		
BH	(60°-80°)	14205.0	15.8	B5		G5
BVH	(80°-90°)	569.7	0.6			G4/750
UL	(90°-100°)	22.9	0.0		U2/50	
UH	(100°-180°)	6.2	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°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	7236.6	7226.4	7219.7	7263.7	7138.5	7189.2	7155.4	7199.4	7189.2	7209.5	7212.9
5°	7287.3	7270.4	7246.7	7294.1	7219.7	7253.5	7216.3	7236.6	7172.3	7226.4	7233.2
7.5°	7402.4	7355.0	7351.6	7365.2	7314.4	7338.1	7273.8	7297.5	7263.7	7243.4	7263.7
10°	7574.9	7534.3	7490.3	7517.4	7432.8	7463.3	7395.6	7415.9	7399.0	7355.0	7395.6
12.5°	7693.3	7706.9	7676.4	7696.7	7622.3	7595.2	7571.5	7568.1	7558.0	7493.7	7483.6
15°	7957.2	7964.0	7909.8	7923.4	7906.5	7892.9	7859.1	7832.0	7777.9	7737.3	7710.2
17.5°	8302.3	8265.1	8214.3	8227.9	8275.2	8214.3	8194.0	8143.3	8065.5	7997.8	7984.3
20°	8664.3	8640.6	8593.2	8620.3	8616.9	8576.3	8586.5	8501.9	8390.3	8332.7	8288.8
22.5°	9066.9	9033.1	8999.2	9050.0	9009.4	8982.3	8972.2	8914.6	8775.9	8711.7	8701.5
25°	9469.5	9452.6	9476.3	9459.3	9401.8	9381.5	9395.1	9374.8	9212.4	9134.6	9087.2
27.5°	9973.6	9933.0	9970.2	9949.9	9889.0	9892.4	9895.8	9899.2	9716.5	9615.0	9547.3
30°	10548.7	10535.2	10582.6	10518.3	10460.8	10498.0	10528.4	10460.8	10301.7	10152.9	10129.2
32.5°	11296.4	11211.8	11266.0	11184.8	11096.8	11184.8	11238.9	11103.6	10975.0	10785.5	10819.4
35°	12125.3	12098.2	12098.2	11993.3	11946.0	12084.7	12138.8	12006.9	11807.3	11641.5	11600.9
37.5°	13004.9	13032.0	13116.5	13072.6	13028.6	13113.2	13235.0	13059.0	12801.9	12626.0	12578.6
40°	14172.1	14239.8	14297.3	14239.8	14189.0	14243.1	14381.8	14151.8	13972.5	13877.8	13776.3
42.5°	15427.2	15542.3	15505.1	15511.8	15555.8	15633.6	15772.3	15562.6	15356.2	15352.8	15204.0
45°	17125.6	17125.6	17047.8	17122.2	17115.4	17308.3	17369.2	17254.2	17081.6	17030.9	16902.3
47.5°	18712.3	18878.1	18847.6	18955.9	18871.3	19033.7	19240.1	19142.0	18942.4	18763.1	18736.0
50°	20924.9	20884.3	20843.7	21006.1	20992.6	21104.2	21293.7	21232.8	20955.3	20752.4	20715.1
52.5°	22870.2	23083.4	23032.6	23276.2	23140.9	23299.9	23526.6	23516.4	23178.1	22978.5	22921.0
55°	25326.4	25468.5	25458.3	25708.7	25522.6	25732.4	25921.8	25942.1	25573.4	25289.2	25377.1
57.5°	27884.1	28002.5	27934.8	28141.2	27958.5	28246.1	28361.1	28286.7	28070.1	27711.5	27843.5
60°	30445.1	30546.6	30624.4	30641.4	30536.5	30705.6	30813.9	30878.2	30536.5	30127.1	30286.1
62.5°	33046.8	33161.8	33094.2	33121.2	32830.3	33060.3	33195.6	33212.6	32820.1	32458.1	32569.8
65°	35787.2	35946.2	35702.6	35540.2	35181.6	35178.2	35357.5	35387.9	35110.5	34853.4	34809.4
67.5°	39180.5	39251.5	38730.5	38185.8	37580.2	37448.3	37573.5	37644.5	37803.5	37796.8	37597.2
68°	39562.8	39549.2	39021.5	38371.9	37722.3	37570.1	37631.0	37722.3	37827.2	37847.5	37607.3
70°	38693.3	38527.5	38226.4	37407.7	36764.9	36365.7	36152.5	36321.7	36037.5	36040.9	35590.9
72.5°	34369.6	34349.3	33794.5	33388.5	32816.7	32153.6	31849.1	31845.8	31872.8	31676.6	31213.1
75°	27840.1	27867.2	27221.0	26940.2	26764.2	26639.1	26703.3	26903.0	26923.3	26919.9	26757.5
77.5°	19416.0	19527.6	19355.1	18898.4	19388.9	19808.5	20617.0	21029.8	20897.8	21293.7	21544.0
80°	10176.6	10399.9	10406.6	10728.0	11123.9	11506.2	12203.1	12829.0	12368.9	12165.9	11956.1
82.5°	2676.1	2757.3	2879.1	2693.0	2750.5	2808.0	3349.3	3298.6	3044.9	3180.2	3383.2
85°	764.6	788.3	754.4	683.4	625.9	575.1	588.7	497.3	433.0	429.7	416.1
87.5°	537.9	578.5	510.9	439.8	395.8	368.8	355.2	301.1	243.6	213.1	169.2
90°	250.4	247.0	213.1	165.8	145.5	138.7	138.7	108.3	60.9	37.2	33.8
92.5°	104.9	108.3	88.0	71.0	60.9	47.4	37.2	23.7	13.5	6.8	3.4
95°	37.2	40.6	33.8	27.1	23.7	20.3	16.9	13.5	6.8	3.4	3.4
97.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	6.8	6.8	3.4	3.4
100°	0.0	0.0	0.0	3.4	6.8	6.8	6.8	6.8	3.4	3.4	3.4
102.5°	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	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	3.4	3.4	3.4	3.4
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	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	0.0	3.4	3.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
145°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
150°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	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	3.4	3.4	3.4	3.4	3.4
160°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4
165°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4
167.5°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4
170°	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
172.5°	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
175°	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
177.5°	0.0	0.0	0.0	0.0	3.4	3.4	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°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	7206.1	7189.2	7182.5	7097.9	7121.6	7070.8	7189.2	7155.4	7148.6	7196.0
5°	7223.1	7145.3	7192.6	7138.5	7152.0	7077.6	7172.3	7131.7	7135.1	7158.8
7.5°	7233.2	7189.2	7236.6	7141.9	7179.1	7152.0	7219.7	7179.1	7219.7	7240.0
10°	7334.7	7314.4	7280.6	7253.5	7280.6	7216.3	7300.9	7294.1	7317.8	7378.7
12.5°	7473.4	7449.7	7415.9	7368.5	7388.8	7365.2	7429.4	7436.2	7480.2	7510.6
15°	7679.8	7649.3	7632.4	7585.1	7591.8	7574.9	7612.1	7618.9	7706.9	7696.7
17.5°	7970.7	7936.9	7950.4	7906.5	7889.5	7849.0	7781.3	7757.6	7862.5	7892.9
20°	8288.8	8251.5	8268.5	8231.2	7916.6	7277.2	7706.9	8001.2	7777.9	7761.0
22.5°	8650.8	8610.2	8623.7	8566.2	8177.1	6979.5	6072.8	5998.4	6850.9	7196.0
25°	9050.0	8995.8	8989.1	8914.6	7635.8	6319.8	6218.3	6086.3	5463.8	4969.9
27.5°	9543.9	9462.7	9422.1	8298.9	7581.7	6566.7	6414.5	5944.2	5040.9	5071.4
30°	10078.5	9960.0	9198.8	8457.9	7977.5	6857.7	6654.7	5210.1	5216.8	5203.3
32.5°	10687.4	10423.5	9012.8	8945.1	8451.2	7168.9	5524.7	5463.8	5470.6	5490.9
35°	11485.9	9675.9	9638.6	9642.0	9029.7	6935.5	5852.9	5795.4	5802.1	5815.7
37.5°	11655.0	10430.3	10437.1	10359.3	9645.4	6336.7	6252.1	6248.7	6235.2	6221.6
40°	11790.3	11381.0	11282.9	11157.7	8941.7	6823.9	6796.8	6776.5	6786.6	6813.7
42.5°	12849.3	12541.4	12446.7	12297.8	9171.8	7561.4	7473.4	7449.7	7476.8	7463.3
45°	14256.7	13999.6	13813.5	11370.8	10132.6	8363.2	8292.1	8261.7	8271.8	8356.4
47.5°	15745.3	15593.0	15024.7	12284.3	11252.4	9310.5	9239.4	9192.1	9209.0	9188.7
50°	17365.8	17227.1	13908.2	13661.2	12490.7	10332.2	10227.3	10210.4	10217.2	10213.8
52.5°	19125.1	16225.7	15413.7	15156.6	13796.6	11401.3	11364.1	11272.7	11293.0	11272.7
55°	21188.8	17091.8	17071.5	16770.4	15264.9	12642.9	12598.9	12470.4	11661.8	12368.9
57.5°	23147.6	18746.1	18746.1	18455.2	16767.0	13877.8	13806.7	13712.0	8288.8	6685.1
60°	25292.6	20403.9	20356.5	20116.3	18215.0	15055.1	12236.9	12209.9	5007.1	5024.0
62.5°	27146.5	21882.3	21966.9	21743.6	19608.8	11272.7	5670.2	5555.2	493.9	761.2
65°	29223.8	23516.4	23617.9	23387.8	21117.7	11956.1	6154.0	6096.5	111.6	101.5
67.5°	31578.5	25147.1	24917.0	24663.3	22000.7	12311.4	6394.2	6343.4	30.4	20.3
68°	31598.8	25113.3	24815.5	24643.0	21916.2	12243.7	6373.9	6326.5	30.4	20.3
70°	29974.9	23848.0	23550.2	23594.2	20867.4	11709.1	6110.0	6022.0	30.4	20.3
72.5°	26297.4	21222.6	20887.7	20650.9	18505.9	10410.0	5477.3	5311.6	30.4	20.3
75°	22501.5	17984.9	17430.1	16909.1	14889.3	8518.8	4492.8	4306.8	30.4	20.3
77.5°	17734.6	13708.6	12920.3	12578.6	11188.1	6292.7	3339.2	3136.2	30.4	16.9
80°	9801.0	7865.9	7196.0	6986.2	6397.6	3697.8	1914.9	1793.1	27.1	16.9
82.5°	2534.0	1901.3	1657.8	1600.2	1502.1	876.2	466.9	443.2	23.7	13.5
85°	362.0	267.3	294.3	348.5	334.9	226.7	162.4	138.7	20.3	10.1
87.5°	189.5	159.0	186.1	209.8	213.1	131.9	67.7	37.2	10.1	0.0
90°	30.4	30.4	33.8	37.2	37.2	16.9	13.5	0.0	0.0	0.0
92.5°	3.4	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	3.4	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.4	6.8	3.4	3.4	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	3.4	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.4	3.4	3.4	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)