

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: P579442

Luminaire Tested: **CST-CA10-760-730-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-730-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76899 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

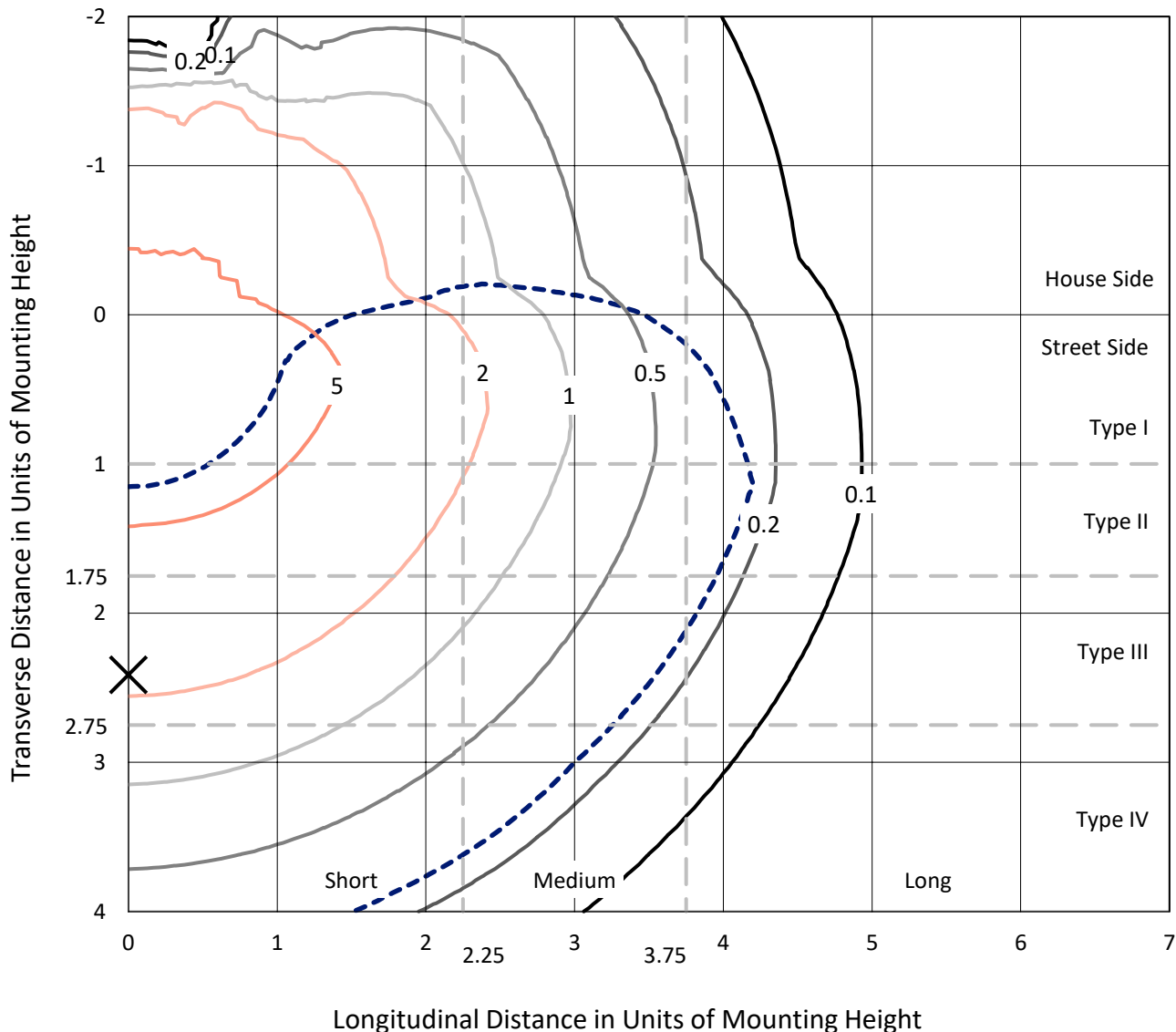
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

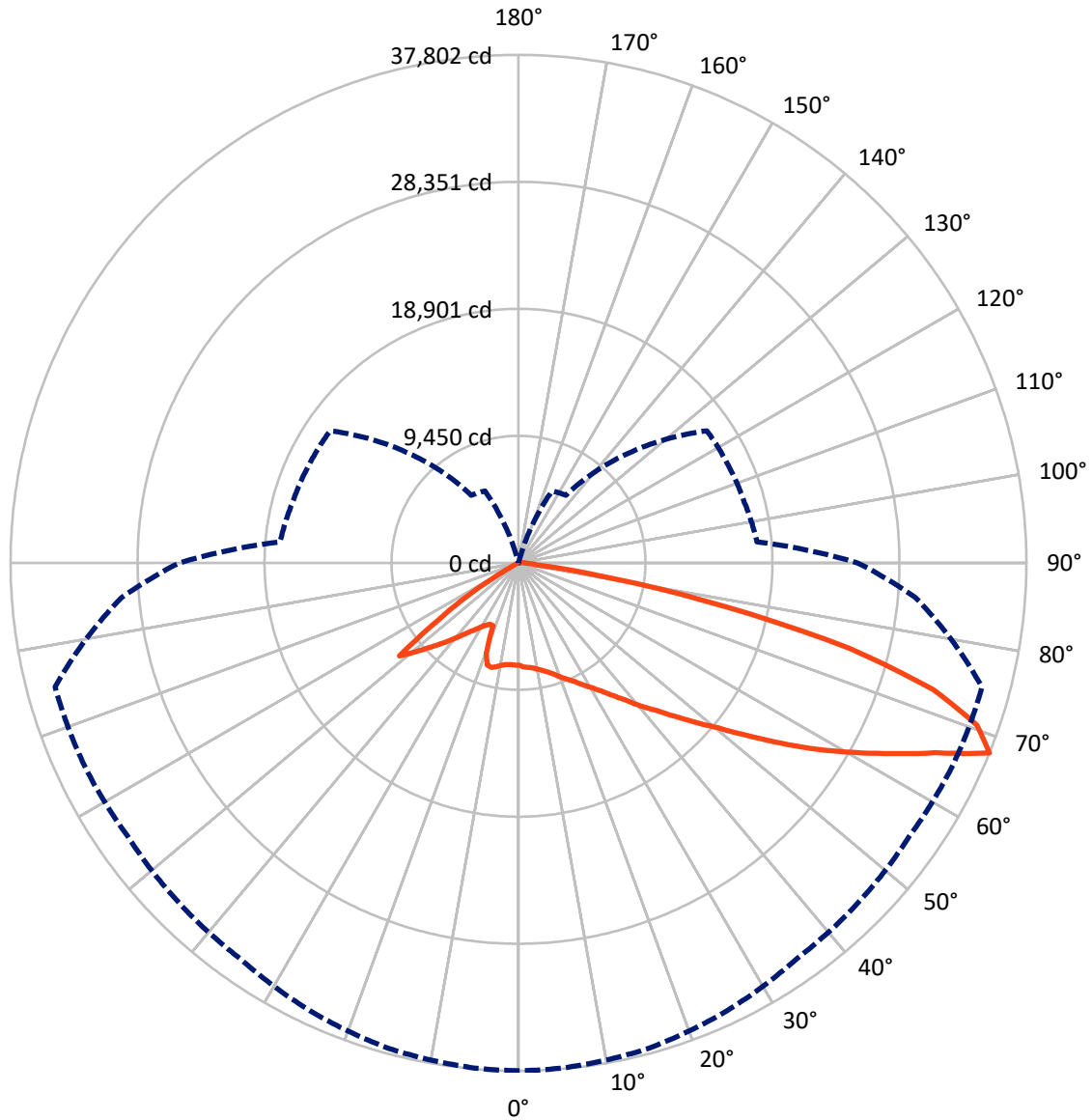
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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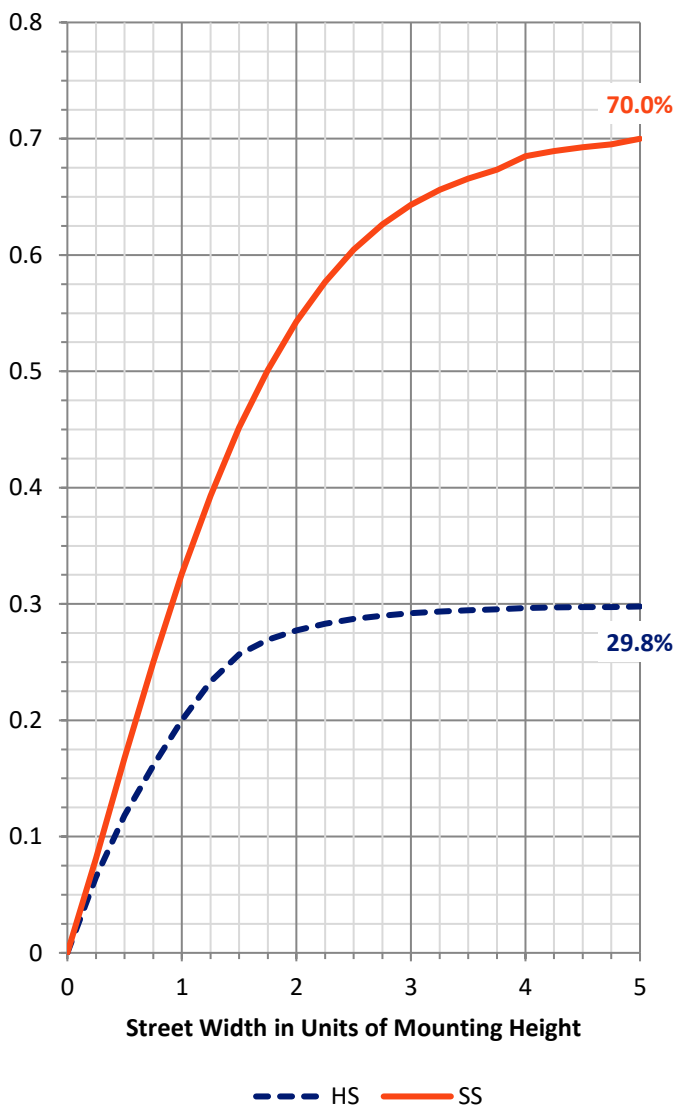
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22954.8	7.7	22962.5
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	53850.0	86.6	53936.5
	% Fixture	70.0	0.1	70.1
Total	Lumens	76804.7	94.3	76899.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.6	1.0
10°-20°	2274.2	3.0
20°-30°	3816.6	5.0
30°-40°	6188.8	8.0
40°-50°	10113.1	13.2
50°-60°	15849.2	20.6
60°-70°	21226.8	27.6
70°-80°	15471.5	20.1
80°-90°	1129.8	1.5
90°-100°	72.3	0.1
100°-110°	20.6	0.0
110°-120°	1.5	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°	76804.7	99.9
0°-180°	76899.0	100.0

Coefficient of Utilization

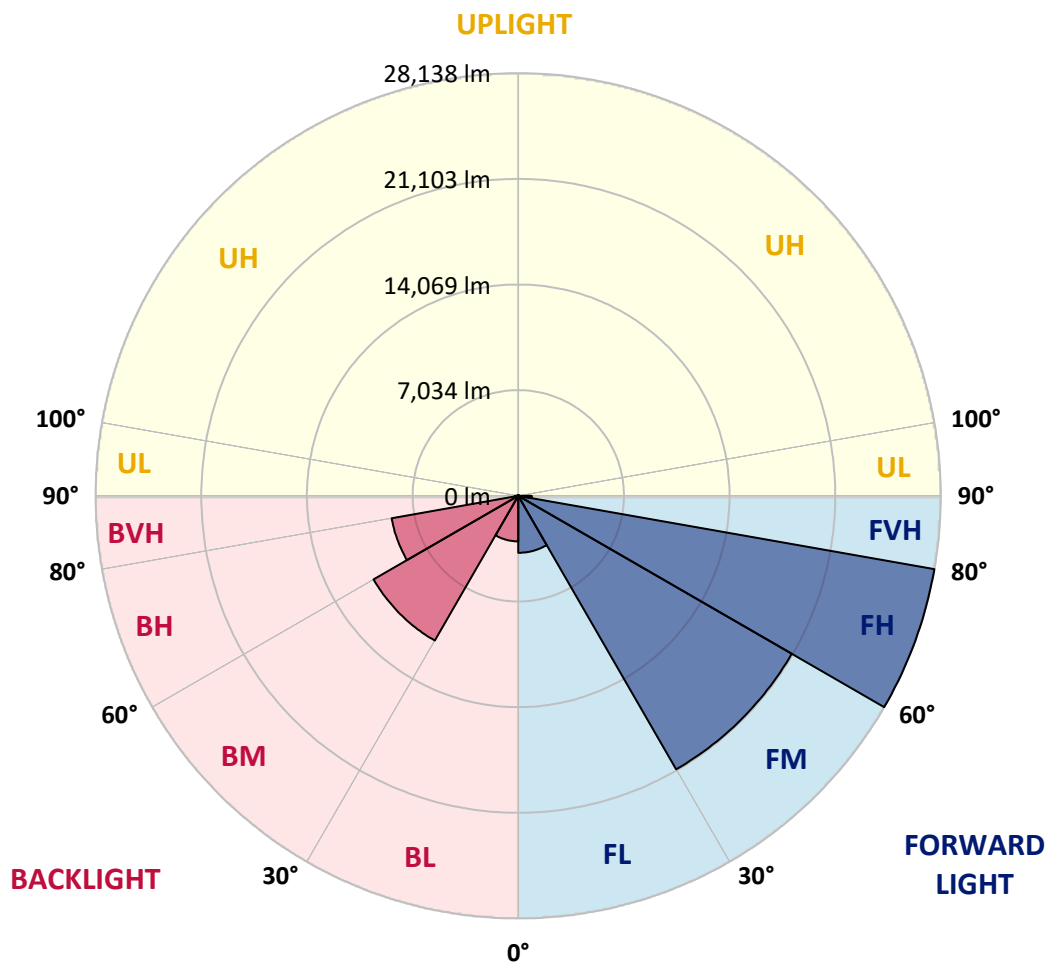


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3793.1	4.9			
FM	(30°-60°)	21025.6	27.3			
FH	(60°-80°)	28137.9	36.6			G5
FVH	(80°-90°)	893.5	1.2			G5
BL	(0°-30°)	3032.4	3.9	B4/5000		
BM	(30°-60°)	11125.5	14.5	B5		
BH	(60°-80°)	8560.5	11.1	B5		G5
BVH	(80°-90°)	236.4	0.3			G3/500
UL	(90°-100°)	72.3	0.1		U3/500	
UH	(100°-180°)	22.0	0.0		U2/50	

BUG Rating: B5-U3-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8
2.5°	7765.3	7720.0	7723.3	7765.3	7639.2	7681.2	7626.3	7668.3	7639.2	7648.9	7668.3
5°	7813.8	7765.3	7768.5	7820.2	7707.1	7742.7	7668.3	7690.9	7665.1	7678.0	7678.0
7.5°	7910.8	7855.8	7852.6	7884.9	7768.5	7781.5	7713.6	7716.8	7678.0	7703.9	7690.9
10°	8056.2	8011.0	7978.7	7998.1	7894.6	7888.1	7800.9	7804.1	7755.6	7784.7	7762.1
12.5°	8234.1	8172.6	8166.2	8172.6	8059.5	8033.6	7943.1	7949.6	7862.3	7907.5	7881.7
15°	8460.4	8363.4	8363.4	8398.9	8253.5	8234.1	8124.1	8130.6	8040.1	8075.6	8049.8
17.5°	8738.4	8644.6	8628.5	8654.3	8528.2	8502.4	8389.2	8382.8	8282.5	8292.2	8269.6
20°	9097.2	9003.5	8964.7	9029.3	8870.9	8851.5	8715.7	8702.8	8596.1	8567.0	8554.1
22.5°	9430.2	9355.9	9336.5	9407.6	9242.7	9226.5	9097.2	9081.1	8980.8	8938.8	8683.4
25°	9805.2	9789.1	9782.6	9805.2	9650.0	9617.7	9517.5	9494.9	9410.8	9359.1	9048.7
27.5°	10290.1	10283.7	10264.3	10267.5	10125.3	10096.2	10002.4	9986.3	9899.0	9840.8	9443.1
30°	10797.7	10797.7	10755.7	10778.3	10707.2	10661.9	10587.6	10529.4	10474.4	10413.0	9911.9
32.5°	11382.8	11379.6	11340.8	11408.7	11357.0	11357.0	11311.7	11250.3	11153.3	11124.2	10516.4
35°	12136.1	12087.6	12071.4	12181.4	12165.2	12194.3	12178.1	12113.5	12032.6	11964.8	11227.7
37.5°	12970.2	12957.2	13005.7	13073.6	13109.2	13186.8	13138.3	13135.0	13122.1	12950.8	11036.9
40°	13998.2	13943.3	14011.1	14046.7	14020.8	14146.9	14104.9	14140.5	14237.4	12860.3	11024.0
42.5°	15023.0	14974.5	15023.0	15197.6	15158.8	15310.7	15291.4	15430.4	15485.3	13051.0	11919.5
45°	16283.8	16228.9	16267.7	16474.6	16494.0	16678.2	16778.5	16911.0	16936.9	14285.9	12999.3
47.5°	17732.1	17641.6	17716.0	17813.0	18107.2	18281.7	18378.7	18540.4	18705.2	15773.0	14227.7
50°	19329.2	19322.7	19403.5	19571.6	19907.9	20082.4	20250.5	20418.6	20690.2	17431.5	15604.9
52.5°	21359.4	21317.4	21456.4	21614.8	21912.2	22180.5	22381.0	22555.6	22846.5	19109.3	17095.3
55°	23680.6	23535.1	23800.2	24068.5	24194.6	24511.4	24650.4	24795.9	25073.9	20874.5	17964.9
57.5°	26186.0	26150.5	26334.7	26431.7	26703.3	26900.5	26974.8	27133.3	27130.0	22710.7	19445.6
60°	28652.7	28613.9	28830.5	28888.7	29105.3	29283.1	29257.2	29399.5	29451.2	24433.8	20897.1
62.5°	31248.7	31184.0	31384.4	31397.4	31268.1	31555.8	31526.7	31646.3	31601.0	26118.1	22326.0
65°	34087.1	34135.6	34200.3	33935.2	33624.8	33873.7	33867.3	34093.6	34255.2	28471.7	24239.9
67.5°	37801.6	37740.2	37407.2	36767.1	36013.9	35761.7	35493.4	35658.3	35703.5	29641.9	25219.4
70°	36198.2	36062.4	35913.7	35260.6	34352.2	33712.1	33295.1	33469.6	33653.9	28012.6	23687.0
72.5°	32289.6	31953.4	31261.6	30686.2	30162.4	29538.5	29030.9	29334.8	29738.9	24847.6	20974.7
75°	25474.8	25161.2	24656.9	24265.7	23984.5	23978.0	23955.4	24191.4	24133.2	20176.2	17053.3
77.5°	15776.3	16432.5	16898.1	16565.1	16681.5	16442.2	16969.2	17279.6	17560.8	14463.7	12149.0
80°	7283.6	7451.7	8276.1	8062.7	7891.4	7842.9	7875.2	8415.1	8573.5	6491.6	5437.6
82.5°	1661.7	1593.8	1652.0	1532.4	1525.9	1454.8	1464.5	1464.5	1412.8	1196.2	1002.2
85°	840.5	859.9	866.4	830.8	733.9	659.5	611.0	517.3	446.1	381.5	323.3
87.5°	562.5	578.7	588.4	539.9	484.9	423.5	384.7	313.6	248.9	155.2	119.6
90°	384.7	381.5	371.8	345.9	310.4	265.1	213.4	148.7	87.3	32.3	22.6
92.5°	274.8	268.3	265.1	242.5	216.6	181.0	139.0	93.8	48.5	22.6	12.9
95°	181.0	177.8	177.8	164.9	145.5	119.6	93.8	61.4	35.6	19.4	12.9
97.5°	126.1	122.8	122.8	116.4	103.5	87.3	64.7	42.0	29.1	19.4	12.9
100°	87.3	87.3	87.3	80.8	74.4	61.4	48.5	32.3	25.9	19.4	12.9
102.5°	58.2	58.2	61.4	58.2	51.7	42.0	32.3	25.9	22.6	16.2	12.9
105°	38.8	38.8	38.8	38.8	35.6	29.1	25.9	22.6	19.4	16.2	12.9
107.5°	25.9	25.9	25.9	25.9	22.6	19.4	19.4	19.4	16.2	16.2	12.9
110°	16.2	16.2	16.2	19.4	16.2	16.2	16.2	16.2	16.2	12.9	12.9



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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°	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8
2.5°	7652.1	7606.9	7629.5	7584.3	7564.9	7522.8	7603.6	7610.1	7603.6	7616.6
5°	7661.8	7610.1	7636.0	7584.3	7574.6	7526.1	7606.9	7606.9	7587.5	7597.2
7.5°	7684.5	7629.5	7648.9	7587.5	7587.5	7529.3	7626.3	7619.8	7603.6	7626.3
10°	7762.1	7697.4	7697.4	7639.2	7645.7	7584.3	7703.9	7703.9	7690.9	7729.7
12.5°	7881.7	7800.9	7804.1	7723.3	7736.2	7687.7	7833.2	7839.6	7839.6	7904.3
15°	8036.8	7914.0	7926.9	7839.6	7865.5	7807.3	7936.6	7930.2	7946.3	8040.1
17.5°	8227.6	8091.8	7978.7	7694.2	7526.1	7532.5	7917.2	8095.0	7888.1	7949.6
20°	8308.4	7648.9	7290.1	7186.6	7164.0	6805.1	6071.3	6184.4	6876.3	7176.9
22.5°	7765.3	7555.2	7519.6	7387.0	6407.5	6135.9	6181.2	6116.5	5437.6	5052.9
25°	8030.4	7891.4	7810.6	6643.5	6423.7	6375.2	6342.8	5728.6	4991.5	5027.1
27.5°	8405.4	8224.4	7254.5	6672.6	6714.6	6640.3	6452.8	5153.2	5130.5	5188.7
30°	8848.3	8392.5	7070.2	7015.3	7063.8	6966.8	5424.7	5373.0	5373.0	5431.2
32.5°	9391.4	7613.3	7503.4	7509.9	7477.6	6378.4	5709.2	5696.3	5735.1	5783.6
35°	9239.5	8120.9	8130.6	8185.6	8111.2	6239.4	6155.3	6106.8	6139.2	6158.6
37.5°	8942.0	8883.9	8883.9	8822.4	6924.8	6727.5	6637.0	6630.6	6627.3	6627.3
40°	9692.1	9637.1	9569.2	9462.5	7244.8	7296.5	7160.7	7144.6	7154.3	7189.8
42.5°	10545.5	10522.9	10516.4	8120.9	7910.8	7949.6	7804.1	7762.1	7762.1	7842.9
45°	11551.0	11521.9	10807.4	8680.2	8644.6	8689.9	8528.2	8428.0	8483.0	8541.2
47.5°	12705.1	12705.1	9569.2	9517.5	9517.5	9543.4	9381.7	9245.9	9300.9	9320.3
50°	13969.1	11993.9	10529.4	10480.9	10526.1	10513.2	10345.1	9084.3	10251.3	10261.0
52.5°	14321.5	11664.1	11583.3	11528.3	11583.3	11573.6	11399.0	7577.8	11088.7	11247.1
55°	12695.4	12705.1	12688.9	12608.1	12666.3	12643.7	12472.3	8272.8	8175.9	7286.8
57.5°	13726.7	13739.6	13733.1	13720.2	13771.9	10005.7	12918.4	7474.3	4564.8	4568.0
60°	14848.5	14783.8	14764.4	14735.3	12488.5	7092.9	5382.7	520.5	1784.5	1758.7
62.5°	15866.8	15844.2	15776.3	15760.1	10597.3	5586.4	5457.0	119.6	93.8	90.5
65°	17282.8	17082.3	17027.4	16856.0	11295.6	5948.4	5825.6	35.6	3.2	0.0
67.5°	17809.7	17402.4	17205.2	17114.7	11492.8	6135.9	5899.9	35.6	3.2	0.0
70°	16814.0	16309.7	16060.8	15960.6	10739.5	5735.1	5502.3	35.6	3.2	0.0
72.5°	14909.9	14538.1	14437.9	14117.8	9469.0	5033.5	4829.9	35.6	0.0	0.0
75°	12229.8	12094.1	11971.2	11631.8	7697.4	3999.0	3818.0	32.3	0.0	0.0
77.5°	8900.0	8699.6	8473.3	8104.7	5195.2	2612.1	2518.4	29.1	0.0	0.0
80°	4012.0	3847.1	3792.1	3216.7	1842.7	850.2	750.0	25.9	0.0	0.0
82.5°	779.1	701.5	666.0	640.1	413.8	229.5	200.4	19.4	0.0	0.0
85°	265.1	294.2	342.7	378.2	232.8	139.0	116.4	12.9	0.0	0.0
87.5°	103.5	139.0	168.1	174.6	87.3	58.2	32.3	6.5	0.0	0.0
90°	19.4	25.9	22.6	16.2	9.7	3.2	0.0	0.0	0.0	0.0
92.5°	9.7	12.9	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0
95°	12.9	12.9	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
97.5°	12.9	12.9	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
100°	12.9	12.9	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
102.5°	12.9	12.9	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
105°	12.9	16.2	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
107.5°	12.9	16.2	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
110°	12.9	16.2	12.9	9.7	6.5	3.2	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)