

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: P579528

Luminaire Tested: **CST-CA10-310-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-310-750-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39834 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

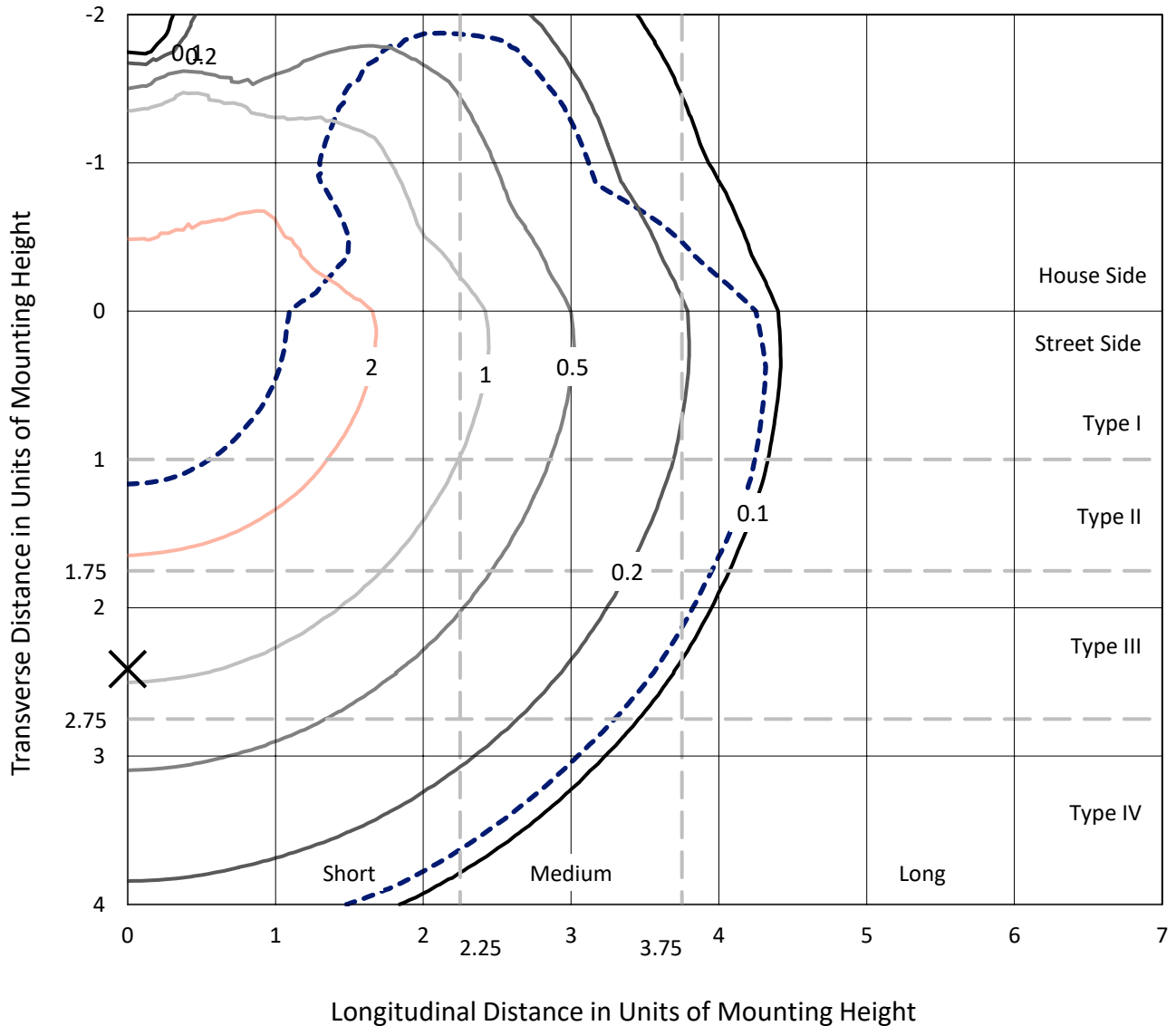
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

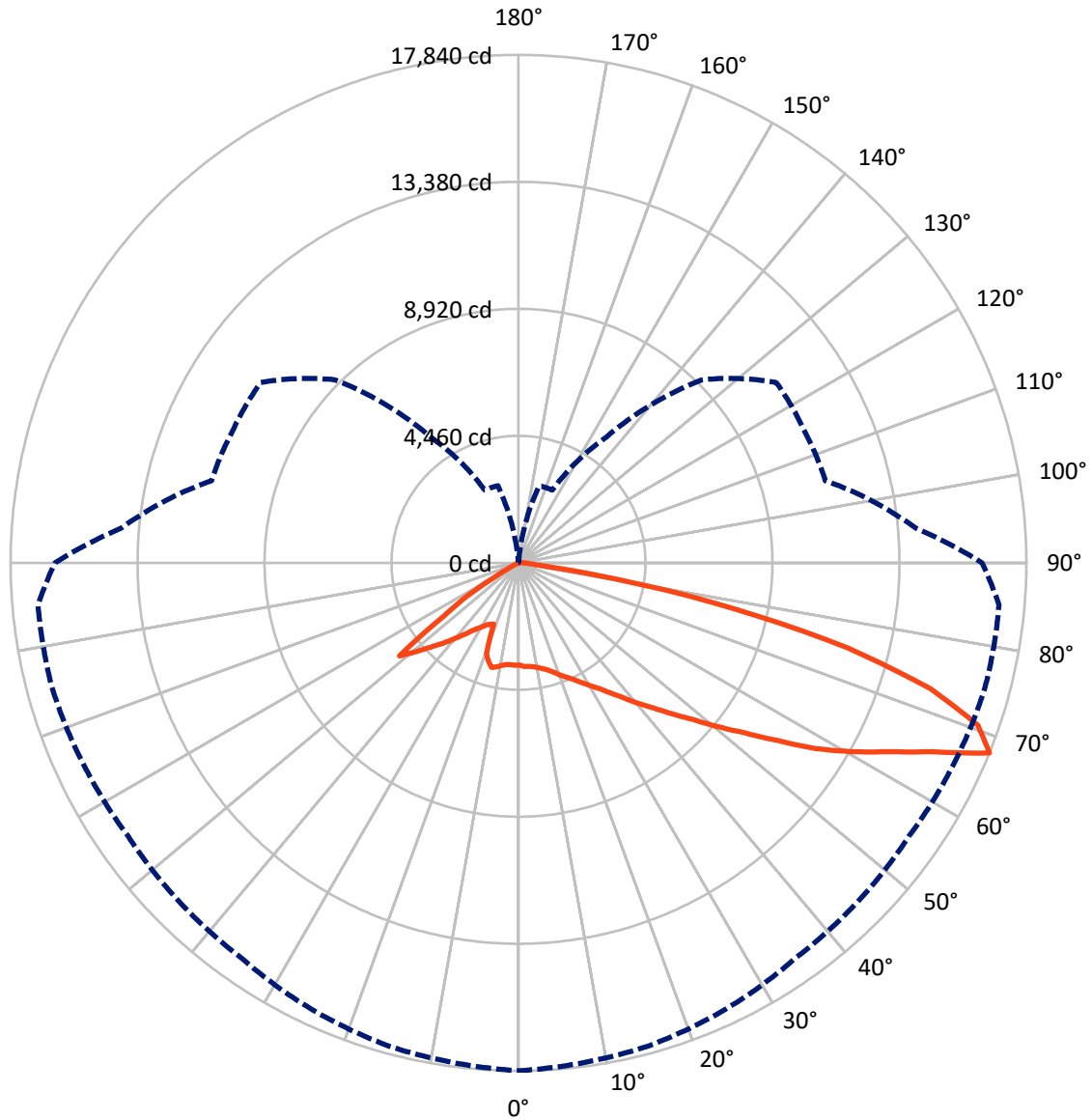
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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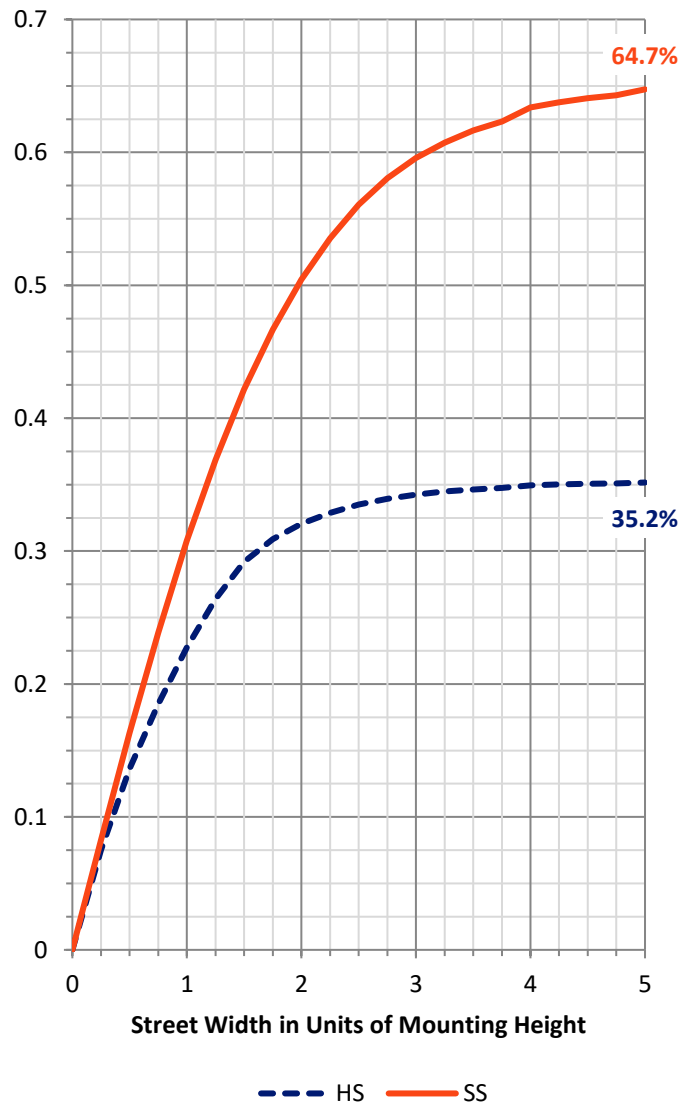
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14021.5	0.8	14022.3
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	25783.6	28.1	25811.6
	% Fixture	64.7	0.1	64.8
Total	Lumens	39805.1	28.9	39834.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.3	0.9
10°-20°	1072.8	2.7
20°-30°	1860.0	4.7
30°-40°	3052.0	7.7
40°-50°	5090.8	12.8
50°-60°	8238.8	20.7
60°-70°	11372.2	28.5
70°-80°	8204.5	20.6
80°-90°	568.7	1.4
90°-100°	24.6	0.1
100°-110°	4.1	0.0
110°-120°	0.1	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°	39805.1	99.9
0°-180°	39834.0	100.0

Coefficient of Utilization

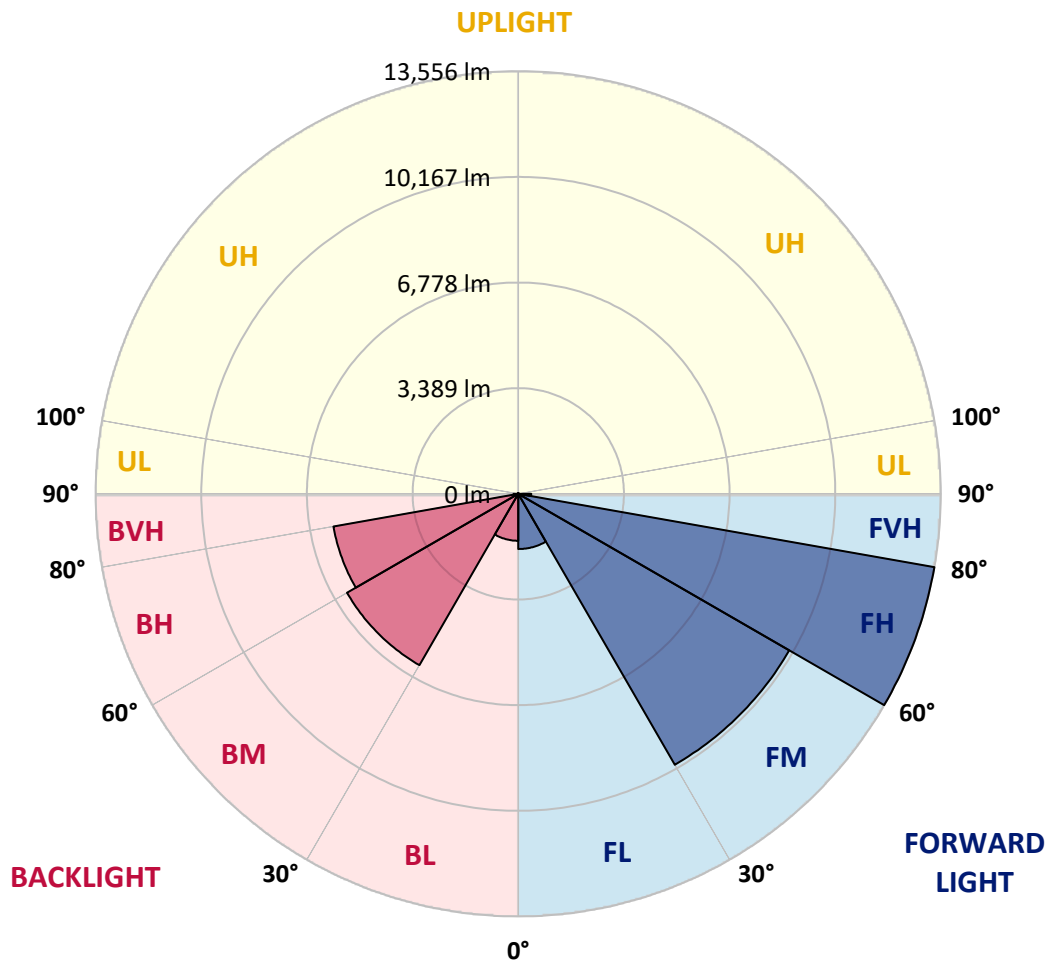


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.4	4.4			
FM (30°-60°)	10037.2	25.2			
FH (60°-80°)	13556.0	34.0			G5
FVH (80°-90°)	419.0	1.1			G3/500
BL (0°-30°)	1506.8	3.8	B3/2500		
BM (30°-60°)	6344.4	15.9	B4/8500		
BH (60°-80°)	6020.7	15.1	B5		G5
BVH (80°-90°)	149.7	0.4			G2/225
UL (90°-100°)	24.6	0.1		U2/50	
UH (100°-180°)	4.3	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°	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7
2.5°	3644.6	3623.3	3624.8	3646.2	3588.2	3609.6	3585.2	3606.5	3595.8	3603.5	3612.6
5°	3655.3	3629.4	3632.4	3658.4	3612.6	3629.4	3600.4	3612.6	3603.5	3612.6	3614.1
7.5°	3682.8	3656.8	3658.4	3678.2	3630.9	3643.1	3615.7	3621.8	3606.5	3623.3	3618.7
10°	3740.7	3716.3	3707.2	3723.9	3682.8	3684.3	3652.3	3658.4	3635.5	3658.4	3649.2
12.5°	3818.5	3784.9	3788.0	3797.1	3746.8	3749.9	3711.7	3720.9	3682.8	3714.8	3704.1
15°	3913.0	3871.9	3876.4	3891.7	3842.9	3838.3	3803.2	3803.2	3769.7	3794.1	3783.4
17.5°	4044.2	3998.4	3995.4	4006.1	3966.4	3966.4	3926.8	3922.2	3888.6	3908.5	3905.4
20°	4215.0	4163.1	4154.0	4173.8	4123.5	4129.6	4079.3	4074.7	4038.1	4050.3	4051.8
22.5°	4369.0	4327.8	4326.3	4356.8	4297.3	4304.9	4259.2	4247.0	4216.5	4233.3	4237.8
25°	4545.9	4539.8	4535.2	4545.9	4486.4	4486.4	4454.4	4443.7	4423.9	4436.1	4448.3
27.5°	4768.5	4765.5	4753.3	4754.8	4704.5	4712.1	4677.0	4670.9	4661.8	4660.3	4654.2
30°	5014.0	5000.3	4983.5	4994.2	4971.3	4979.0	4948.5	4928.6	4925.6	4927.1	4918.0
32.5°	5287.0	5268.7	5258.0	5276.3	5285.5	5306.8	5305.3	5250.4	5250.4	5273.3	5232.1
35°	5625.6	5596.6	5605.7	5630.1	5648.4	5703.3	5694.2	5656.1	5668.3	5678.9	5630.1
37.5°	6023.6	6003.7	6044.9	6090.7	6092.2	6170.0	6151.7	6160.8	6159.3	6145.6	6113.5
40°	6500.9	6468.9	6511.6	6546.6	6525.3	6618.3	6615.2	6656.4	6683.9	6731.1	6712.8
42.5°	6975.1	6950.7	6991.9	7068.2	7056.0	7162.7	7178.0	7242.0	7280.1	7353.3	7310.6
45°	7559.2	7545.5	7583.6	7643.1	7684.2	7826.1	7882.5	7909.9	8006.0	8094.5	7995.3
47.5°	8213.4	8231.7	8225.6	8333.9	8425.4	8597.7	8620.6	8709.0	8792.9	8890.5	8794.4
50°	9027.7	8997.2	9024.7	9128.4	9277.8	9402.9	9520.3	9646.9	9729.2	9829.8	9653.0
52.5°	9904.6	9930.5	9991.5	10151.6	10261.4	10409.3	10516.1	10667.0	10747.9	10834.8	10604.5
55°	11010.2	11031.5	11098.6	11263.3	11341.1	11508.8	11582.0	11733.0	11810.8	11848.9	11554.6
57.5°	12306.4	12234.7	12289.6	12375.0	12495.5	12676.9	12696.8	12838.6	12838.6	12887.4	12512.2
60°	13463.8	13415.0	13473.0	13595.0	13642.2	13806.9	13790.2	13906.0	13936.5	13899.9	13451.6
62.5°	14604.5	14613.6	14688.4	14728.0	14709.7	14807.3	14846.9	14968.9	14918.6	14930.8	14413.9
65°	15989.1	16010.5	16002.9	15929.7	15765.0	15957.1	15946.4	16140.1	16152.3	16262.1	15661.3
67.5°	17840.4	17745.9	17573.6	17279.2	16952.9	16840.1	16740.9	16837.0	16960.5	16940.7	16281.9
70°	17120.7	16966.6	16876.7	16620.5	16184.3	15958.6	15752.8	15769.5	15949.5	15966.3	15292.2
72.5°	15135.2	15057.4	14711.2	14487.1	14188.2	14014.3	13765.8	13822.2	14057.0	14096.7	13559.9
75°	11938.9	11867.2	11554.6	11481.4	11333.5	11418.9	11357.9	11380.7	11569.8	11396.0	11074.2
77.5°	7726.9	7743.7	7694.9	7861.1	7855.0	7859.6	8082.3	8105.1	8289.6	8182.9	7871.8
80°	3464.7	3515.0	3634.0	3874.9	3728.5	3807.8	3893.2	3867.3	4053.3	3632.4	3783.4
82.5°	701.5	725.9	684.7	715.2	667.9	692.3	727.4	674.0	667.9	619.1	574.9
85°	361.4	366.0	364.5	356.8	314.1	289.7	279.1	234.8	212.0	207.4	192.1
87.5°	234.8	237.9	230.3	228.7	201.3	184.5	164.7	138.8	115.9	80.8	67.1
90°	143.3	143.3	135.7	128.1	114.4	102.2	82.3	59.5	35.1	13.7	7.6
92.5°	96.1	96.1	93.0	88.4	79.3	68.6	53.4	35.1	16.8	6.1	3.0
95°	61.0	61.0	59.5	57.9	51.8	44.2	33.5	21.3	10.7	4.6	1.5
97.5°	39.6	39.6	39.6	38.1	35.1	30.5	22.9	13.7	7.6	3.0	1.5
100°	24.4	25.9	24.4	24.4	22.9	19.8	15.2	9.1	6.1	3.0	1.5
102.5°	13.7	13.7	15.2	15.2	13.7	12.2	9.1	7.6	4.6	3.0	1.5
105°	6.1	6.1	7.6	7.6	7.6	6.1	6.1	4.6	3.0	3.0	1.5
107.5°	1.5	1.5	1.5	3.0	4.6	4.6	4.6	4.6	3.0	1.5	1.5
110°	0.0	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	1.5	1.5



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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°	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7	3589.7
2.5°	3603.5	3585.2	3598.9	3576.0	3569.9	3550.1	3588.2	3594.3	3591.3	3597.4
5°	3606.5	3583.6	3600.4	3577.5	3576.0	3554.7	3594.3	3595.8	3585.2	3589.7
7.5°	3615.7	3594.3	3606.5	3580.6	3583.6	3557.7	3603.5	3601.9	3595.8	3606.5
10°	3649.2	3624.8	3629.4	3601.9	3609.6	3582.1	3638.5	3641.6	3635.5	3655.3
12.5°	3707.2	3673.6	3684.3	3652.3	3658.4	3630.9	3699.5	3704.1	3704.1	3736.1
15°	3786.5	3751.4	3774.3	3733.1	3734.6	3693.4	3745.3	3745.3	3751.4	3795.6
17.5°	3902.4	3859.7	3890.2	3852.0	3614.1	3524.2	3701.1	3809.3	3629.4	3614.1
20°	4045.7	4025.9	4042.7	3980.1	3594.3	3182.6	2862.3	2845.6	3200.9	3377.8
22.5°	4221.1	4201.2	4208.9	4129.6	3208.5	2918.8	2914.2	2883.7	2439.9	2317.9
25°	4426.9	4416.3	4399.5	3734.6	3316.8	3039.2	3002.6	2604.6	2350.0	2372.8
27.5°	4648.1	4616.0	4050.3	3879.5	3483.0	3159.7	2952.3	2432.3	2423.2	2444.5
30°	4895.1	4725.8	4146.3	4088.4	3676.7	3309.1	2569.5	2539.0	2539.0	2572.6
32.5°	5209.2	4413.2	4413.2	4382.7	3916.1	2905.0	2705.3	2687.0	2708.3	2722.0
35°	5162.0	4747.2	4796.0	4782.3	4240.9	2958.4	2923.3	2892.8	2897.4	2897.4
37.5°	5177.2	5194.0	5251.9	5192.5	3699.5	3190.2	3133.8	3127.7	3132.3	3142.9
40°	5656.1	5665.2	5686.6	5555.4	3975.6	3460.1	3382.3	3367.1	3382.3	3405.2
42.5°	6171.5	6197.4	6221.8	5052.2	4361.4	3766.6	3688.9	3659.9	3687.3	3711.7
45°	6781.5	6821.1	6447.5	5499.0	4797.5	4115.8	4033.5	3998.4	4015.2	4036.6
47.5°	7467.7	7530.2	6080.0	6067.8	5309.9	4529.1	4434.6	4367.5	4393.4	4391.9
50°	8242.4	7196.3	6717.4	6709.8	5881.7	4989.6	4892.1	4831.1	4850.9	4835.6
52.5°	9079.6	7393.0	7408.2	7406.7	6479.5	5485.3	5395.3	5319.0	5162.0	5306.8
55°	9936.6	8073.1	8131.1	8121.9	7106.3	5997.6	5901.6	5829.9	3809.3	3217.7
57.5°	10789.0	8783.7	8802.0	8823.4	7755.9	6491.7	6069.3	5575.2	2173.1	2162.4
60°	11630.8	9460.8	9497.4	9509.6	8106.7	5373.9	2481.1	2526.8	657.3	785.4
62.5°	12503.1	10128.7	10162.3	10151.6	8455.9	4997.3	2606.1	2554.3	61.0	56.4
65°	13616.3	10965.9	10918.7	10883.6	9006.4	5332.8	2799.8	2786.1	19.8	13.7
67.5°	14006.7	11156.6	11060.5	11048.3	9085.7	5404.4	2815.1	2804.4	19.8	13.7
70°	13122.2	10432.2	10267.5	10272.1	8454.3	5055.2	2626.0	2610.7	18.3	13.7
72.5°	11492.0	9213.8	9145.1	8782.2	7321.3	4446.8	2328.6	2270.7	18.3	12.2
75°	9434.9	7443.3	7290.8	6883.6	5826.8	3534.8	1828.4	1753.7	16.8	10.7
77.5°	6549.7	5219.9	4928.6	4513.9	3897.8	2343.9	1229.1	1133.0	15.2	10.7
80°	2969.1	2142.6	2153.2	1650.0	1322.1	794.5	390.4	353.8	13.7	9.1
82.5°	517.0	381.2	358.4	346.2	288.2	195.2	118.9	102.2	12.2	6.1
85°	179.9	144.9	160.1	189.1	167.7	117.4	73.2	70.1	7.6	3.0
87.5°	61.0	64.0	74.7	90.0	79.3	45.7	27.4	19.8	1.5	0.0
90°	6.1	7.6	7.6	7.6	4.6	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.5	1.5	1.5	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°
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)