

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: P579510

Luminaire Tested: **CST-CA8-330-740-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579510
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-CA8-330-740-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39517 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

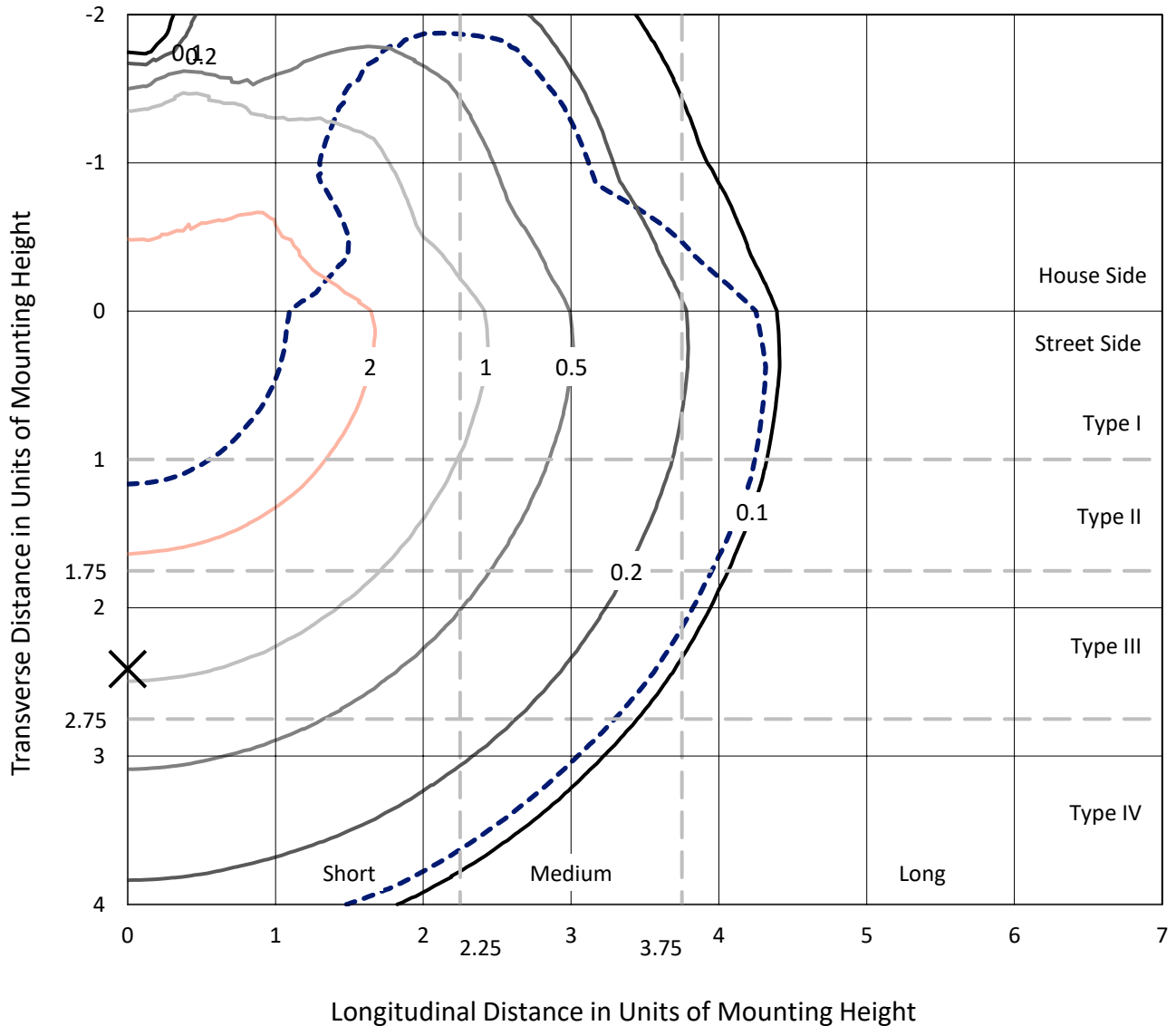
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

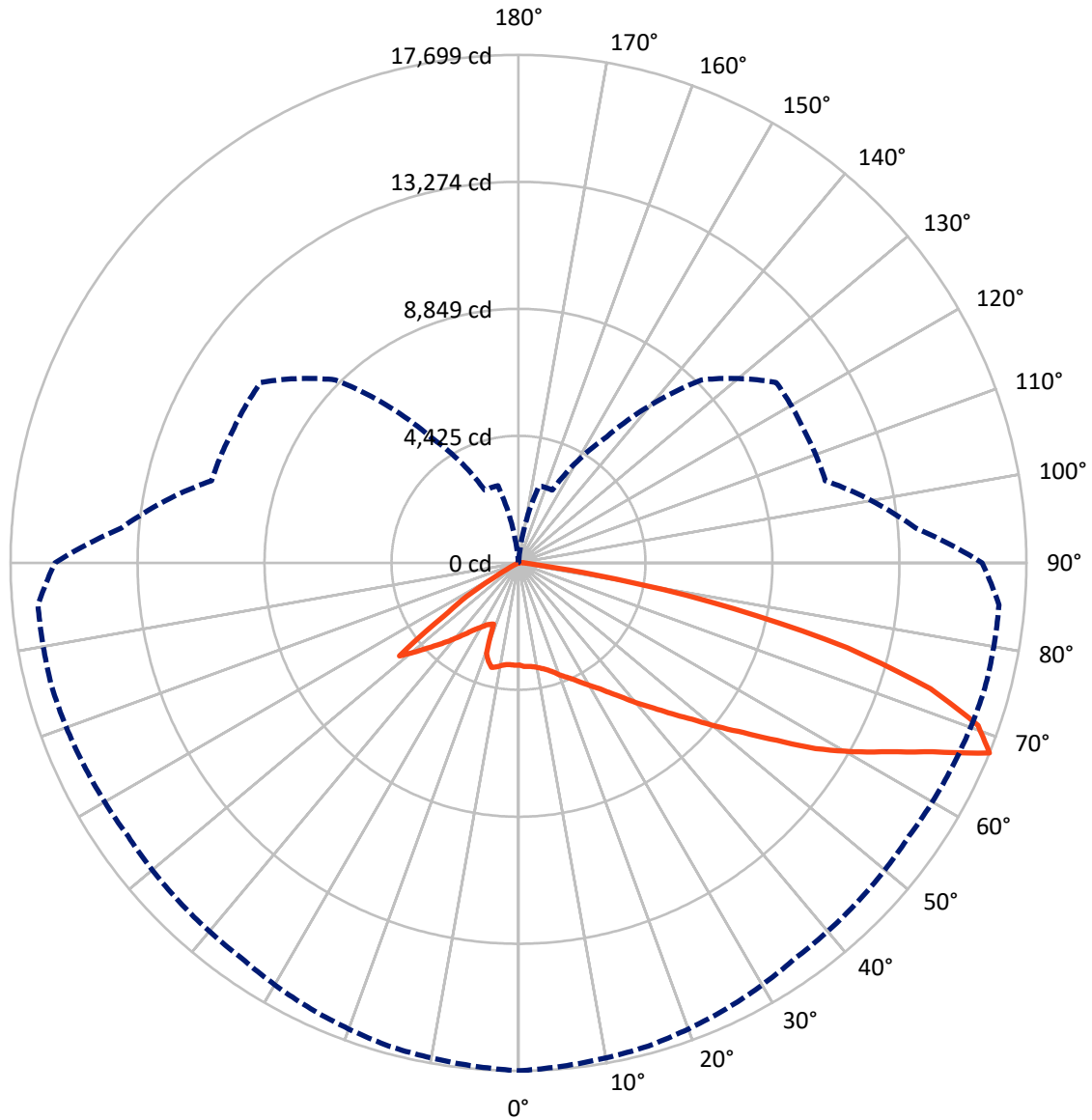
× Max cd
 - - - 1/2 Max cd



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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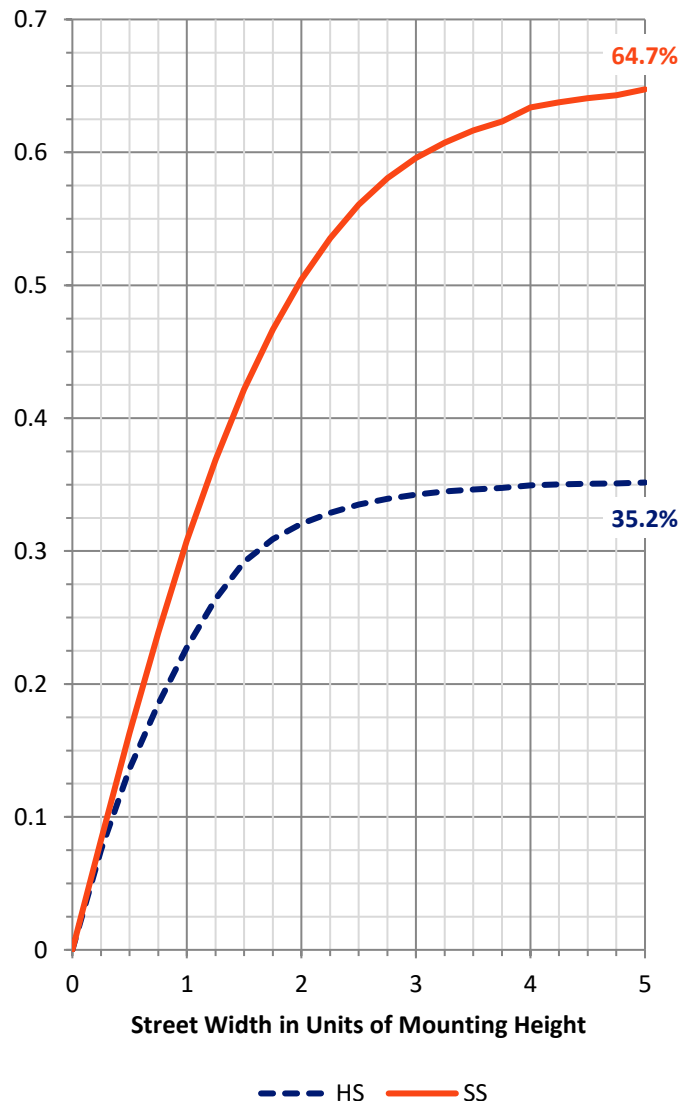
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13909.9	0.8	13910.7
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	25578.4	27.9	25606.2
	% Fixture	64.7	0.1	64.8
Total	Lumens	39488.3	28.7	39517.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.6	0.9
10°-20°	1064.3	2.7
20°-30°	1845.2	4.7
30°-40°	3027.7	7.7
40°-50°	5050.3	12.8
50°-60°	8173.2	20.7
60°-70°	11281.7	28.5
70°-80°	8139.2	20.6
80°-90°	564.1	1.4
90°-100°	24.5	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°	39488.3	99.9
0°-180°	39517.0	100.0

Coefficient of Utilization

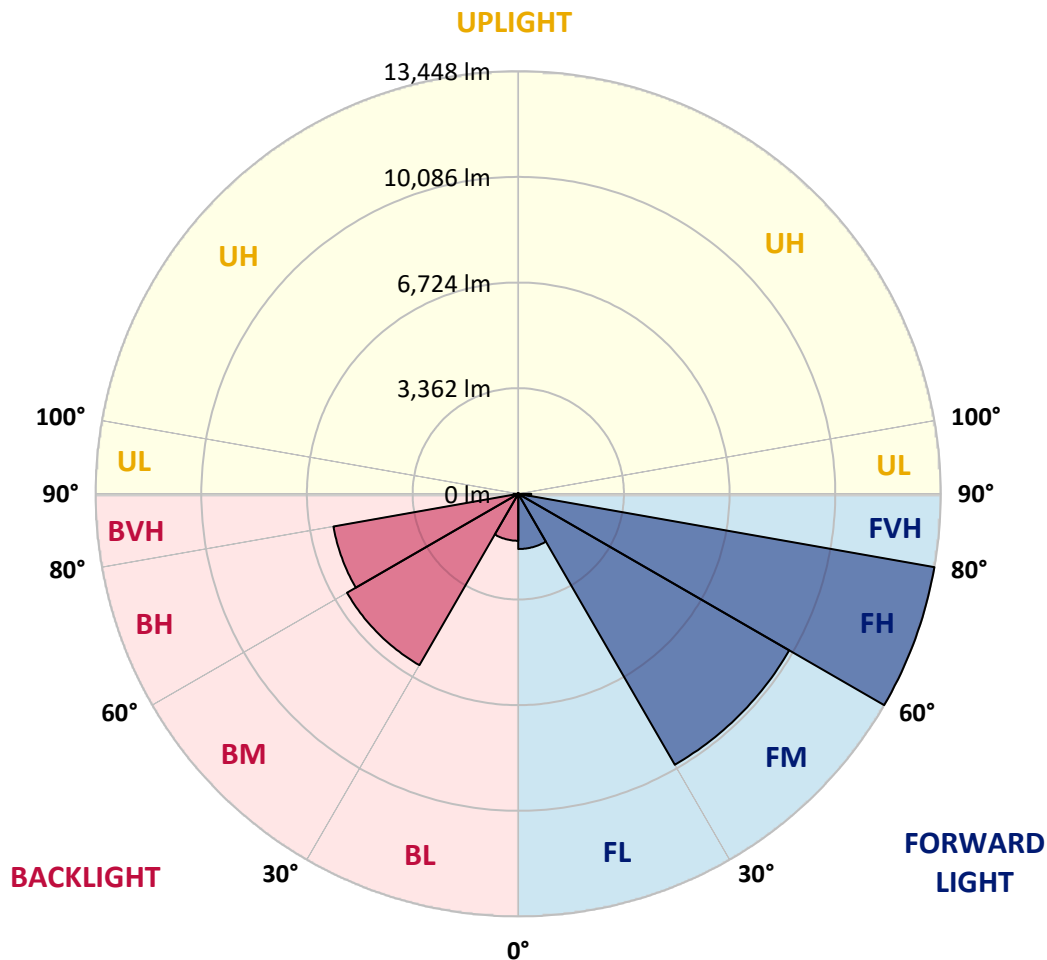


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.3	4.4			
FM	(30°-60°)	9957.3	25.2			
FH	(60°-80°)	13448.2	34.0			G5
FVH	(80°-90°)	415.7	1.1			G3/500
BL	(0°-30°)	1494.8	3.8	B3/2500		
BM	(30°-60°)	6293.9	15.9	B4/8500		
BH	(60°-80°)	5972.8	15.1	B5		G5
BVH	(80°-90°)	148.5	0.4			G2/225
UL	(90°-100°)	24.5	0.1		U2/50	
UH	(100°-180°)	4.2	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°	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2
2.5°	3615.6	3594.5	3596.0	3617.1	3559.7	3580.8	3556.6	3577.8	3567.2	3574.8	3583.9
5°	3626.2	3600.5	3603.5	3629.2	3583.9	3600.5	3571.8	3583.9	3574.8	3583.9	3585.4
7.5°	3653.5	3627.7	3629.2	3648.9	3602.0	3614.1	3586.9	3592.9	3577.8	3594.5	3589.9
10°	3710.9	3686.7	3677.7	3694.3	3653.5	3655.0	3623.2	3629.2	3606.6	3629.2	3620.2
12.5°	3788.1	3754.8	3757.8	3766.9	3717.0	3720.0	3682.2	3691.3	3653.5	3685.2	3674.6
15°	3881.9	3841.0	3845.6	3860.7	3812.3	3807.8	3773.0	3773.0	3739.7	3763.9	3753.3
17.5°	4012.0	3966.6	3963.6	3974.2	3934.8	3934.8	3895.5	3891.0	3857.7	3877.4	3874.3
20°	4181.4	4130.0	4120.9	4140.6	4090.7	4096.7	4046.8	4042.2	4005.9	4018.0	4019.6
22.5°	4334.2	4293.4	4291.9	4322.1	4263.1	4270.7	4225.3	4213.2	4182.9	4199.6	4204.1
25°	4509.7	4503.7	4499.1	4509.7	4450.7	4450.7	4418.9	4408.4	4388.7	4400.8	4412.9
27.5°	4730.6	4727.6	4715.5	4717.0	4667.0	4674.6	4639.8	4633.8	4624.7	4623.2	4617.1
30°	4974.1	4960.5	4943.9	4954.5	4931.8	4939.3	4909.1	4889.4	4886.4	4887.9	4878.8
32.5°	5244.9	5226.8	5216.2	5234.3	5243.4	5264.6	5263.1	5208.6	5208.6	5231.3	5190.5
35°	5580.8	5552.0	5561.1	5585.3	5603.5	5657.9	5648.9	5611.0	5623.1	5633.7	5585.3
37.5°	5975.6	5956.0	5996.8	6042.2	6043.7	6120.9	6102.7	6111.8	6110.3	6096.7	6064.9
40°	6449.1	6417.4	6459.7	6494.5	6473.3	6565.6	6562.6	6603.4	6630.7	6677.6	6659.4
42.5°	6919.6	6895.4	6936.3	7011.9	6999.8	7105.7	7120.8	7184.4	7222.2	7294.8	7252.4
45°	7499.0	7485.4	7523.2	7582.2	7623.1	7763.8	7819.8	7847.0	7942.3	8030.0	7931.7
47.5°	8148.0	8166.2	8160.1	8267.5	8358.3	8529.3	8552.0	8639.7	8722.9	8819.7	8724.4
50°	8955.9	8925.6	8952.9	9055.7	9204.0	9328.0	9444.5	9570.1	9651.8	9751.6	9576.1
52.5°	9825.8	9851.5	9912.0	10070.8	10179.8	10326.5	10432.4	10582.2	10662.3	10748.6	10520.1
55°	10922.5	10943.7	11010.3	11173.7	11250.8	11417.2	11489.9	11639.6	11716.8	11754.6	11462.6
57.5°	12208.4	12137.3	12191.8	12276.5	12396.0	12576.1	12595.7	12736.4	12736.4	12784.8	12412.7
60°	13356.7	13308.3	13365.7	13486.8	13533.7	13697.1	13680.4	13795.4	13825.6	13789.3	13344.6
62.5°	14488.3	14497.3	14571.5	14610.8	14592.6	14689.5	14728.8	14849.8	14799.9	14812.0	14299.2
65°	15861.9	15883.1	15875.5	15802.9	15639.5	15830.1	15819.5	16011.7	16023.8	16132.7	15536.6
67.5°	17698.5	17604.7	17433.7	17141.7	16818.0	16706.0	16607.7	16703.0	16825.6	16805.9	16152.4
70°	16984.4	16831.6	16742.4	16488.2	16055.5	15831.6	15627.4	15644.0	15822.6	15839.2	15170.5
72.5°	15014.7	14937.6	14594.2	14371.8	14075.3	13902.8	13656.2	13712.2	13945.2	13984.5	13452.0
75°	11843.8	11772.7	11462.6	11390.0	11243.3	11328.0	11267.5	11290.2	11477.7	11305.3	10986.1
77.5°	7665.4	7682.1	7633.7	7798.6	7792.5	7797.1	8017.9	8040.6	8223.7	8117.8	7809.2
80°	3437.1	3487.0	3605.0	3844.1	3698.8	3777.5	3862.2	3836.5	4021.1	3603.5	3753.3
82.5°	695.9	720.1	679.3	709.5	662.6	686.8	721.6	668.7	662.6	614.2	570.3
85°	358.5	363.1	361.6	354.0	311.6	287.4	276.8	233.0	210.3	205.7	190.6
87.5°	233.0	236.0	228.4	226.9	199.7	183.1	163.4	137.7	115.0	80.2	66.6
90°	142.2	142.2	134.6	127.1	113.5	101.4	81.7	59.0	34.8	13.6	7.6
92.5°	95.3	95.3	92.3	87.7	78.7	68.1	52.9	34.8	16.6	6.1	3.0
95°	60.5	60.5	59.0	57.5	51.4	43.9	33.3	21.2	10.6	4.5	1.5
97.5°	39.3	39.3	39.3	37.8	34.8	30.3	22.7	13.6	7.6	3.0	1.5
100°	24.2	25.7	24.2	24.2	22.7	19.7	15.1	9.1	6.1	3.0	1.5
102.5°	13.6	13.6	15.1	15.1	13.6	12.1	9.1	7.6	4.5	3.0	1.5
105°	6.1	6.1	7.6	7.6	7.6	6.1	6.1	4.5	3.0	3.0	1.5
107.5°	1.5	1.5	1.5	3.0	4.5	4.5	4.5	4.5	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°	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2
2.5°	3574.8	3556.6	3570.2	3547.6	3541.5	3521.8	3559.7	3565.7	3562.7	3568.7
5°	3577.8	3555.1	3571.8	3549.1	3547.6	3526.4	3565.7	3567.2	3556.6	3561.2
7.5°	3586.9	3565.7	3577.8	3552.1	3555.1	3529.4	3574.8	3573.3	3567.2	3577.8
10°	3620.2	3596.0	3600.5	3573.3	3580.8	3553.6	3609.6	3612.6	3606.6	3626.2
12.5°	3677.7	3644.4	3655.0	3623.2	3629.2	3602.0	3670.1	3674.6	3674.6	3706.4
15°	3756.3	3721.5	3744.2	3703.4	3704.9	3664.0	3715.5	3715.5	3721.5	3765.4
17.5°	3871.3	3828.9	3859.2	3821.4	3585.4	3496.1	3671.6	3779.0	3600.5	3585.4
20°	4013.5	3993.8	4010.5	3948.5	3565.7	3157.3	2839.6	2822.9	3175.4	3350.9
22.5°	4187.5	4167.8	4175.4	4096.7	3183.0	2895.5	2891.0	2860.7	2420.5	2299.5
25°	4391.7	4381.1	4364.5	3704.9	3290.4	3015.0	2978.7	2583.9	2331.3	2353.9
27.5°	4611.1	4579.3	4018.0	3848.6	3455.3	3134.6	2928.8	2412.9	2403.9	2425.0
30°	4856.1	4688.2	4113.4	4055.9	3647.4	3282.8	2549.1	2518.8	2518.8	2552.1
32.5°	5167.8	4378.1	4378.1	4347.8	3884.9	2881.9	2683.7	2665.6	2686.8	2700.4
35°	5120.9	4709.4	4757.8	4744.2	4207.1	2934.9	2900.1	2869.8	2874.4	2874.4
37.5°	5136.0	5152.7	5210.1	5151.1	3670.1	3164.8	3108.8	3102.8	3107.3	3117.9
40°	5611.0	5620.1	5641.3	5511.2	3943.9	3432.6	3355.4	3340.3	3355.4	3378.1
42.5°	6122.4	6148.1	6172.3	5012.0	4326.7	3736.7	3659.5	3630.8	3658.0	3682.2
45°	6727.5	6766.8	6396.2	5455.2	4759.3	4083.1	4001.4	3966.6	3983.2	4004.4
47.5°	7408.3	7470.3	6031.6	6019.5	5267.6	4493.1	4399.3	4332.7	4358.4	4356.9
50°	8176.8	7139.0	6664.0	6656.4	5834.9	4949.9	4853.1	4792.6	4812.3	4797.1
52.5°	9007.3	7334.1	7349.3	7347.8	6428.0	5441.6	5352.3	5276.7	5120.9	5264.6
55°	9857.5	8008.9	8066.3	8057.3	7049.7	5949.9	5854.6	5783.5	3779.0	3192.0
57.5°	10703.2	8713.8	8732.0	8753.2	7694.2	6440.1	6021.0	5530.9	2155.8	2145.2
60°	11538.3	9385.5	9421.8	9433.9	8042.1	5331.2	2461.4	2506.7	652.0	779.1
62.5°	12403.6	10048.1	10081.4	10070.8	8388.6	4957.5	2585.4	2534.0	60.5	56.0
65°	13507.9	10878.7	10831.8	10797.0	8934.7	5290.3	2777.5	2763.9	19.7	13.6
67.5°	13895.2	11067.8	10972.5	10960.4	9013.4	5361.4	2792.7	2782.1	19.7	13.6
70°	13017.8	10349.2	10185.8	10190.3	8387.1	5015.0	2605.1	2589.9	18.2	13.6
72.5°	11400.6	9140.4	9072.4	8712.3	7263.0	4411.4	2310.1	2252.6	18.2	12.1
75°	9359.8	7384.1	7232.8	6828.9	5780.5	3506.7	1813.9	1739.7	16.6	10.6
77.5°	6497.6	5178.4	4889.4	4477.9	3866.8	2325.2	1219.3	1124.0	15.1	10.6
80°	2945.5	2125.5	2136.1	1636.9	1311.6	788.2	387.3	351.0	13.6	9.1
82.5°	512.8	378.2	355.5	343.4	285.9	193.6	118.0	101.4	12.1	6.1
85°	178.5	143.7	158.8	187.6	166.4	116.5	72.6	69.6	7.6	3.0
87.5°	60.5	63.5	74.1	89.3	78.7	45.4	27.2	19.7	1.5	0.0
90°	6.1	7.6	7.6	7.6	4.5	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)