

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: P579606

Luminaire Tested: **CST-CA8-330-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579606
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-CA8-330-760-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39388 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

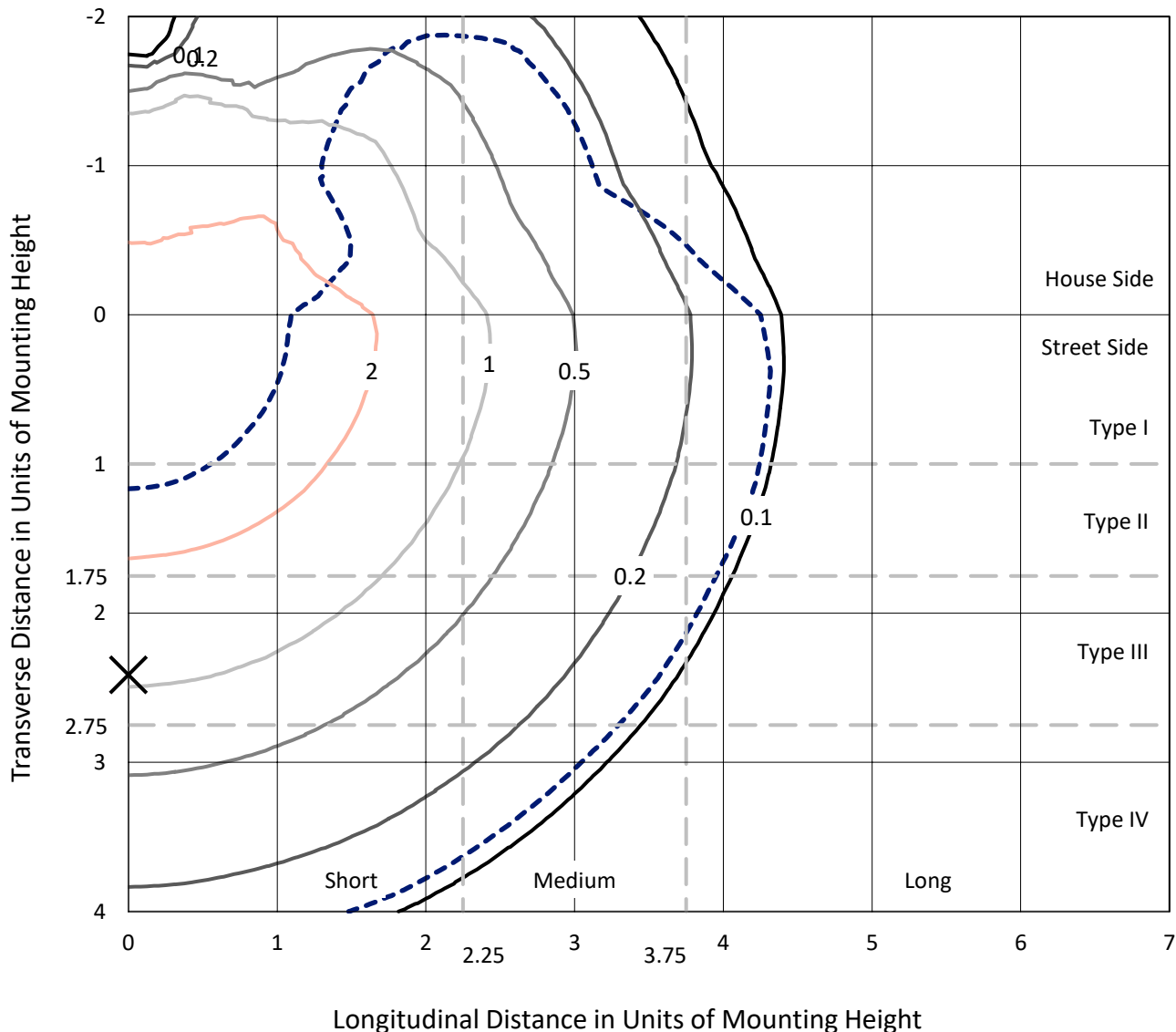
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

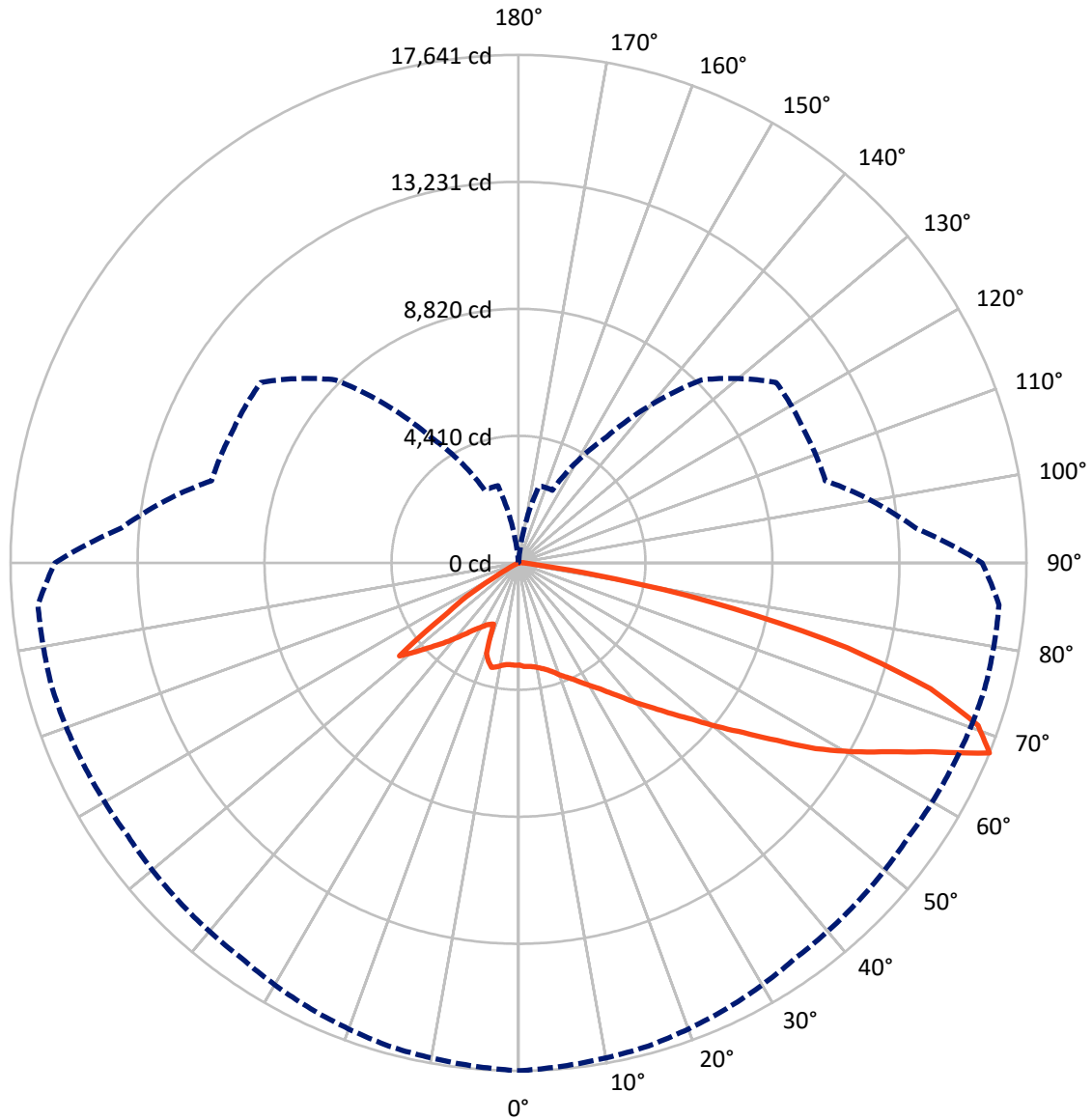
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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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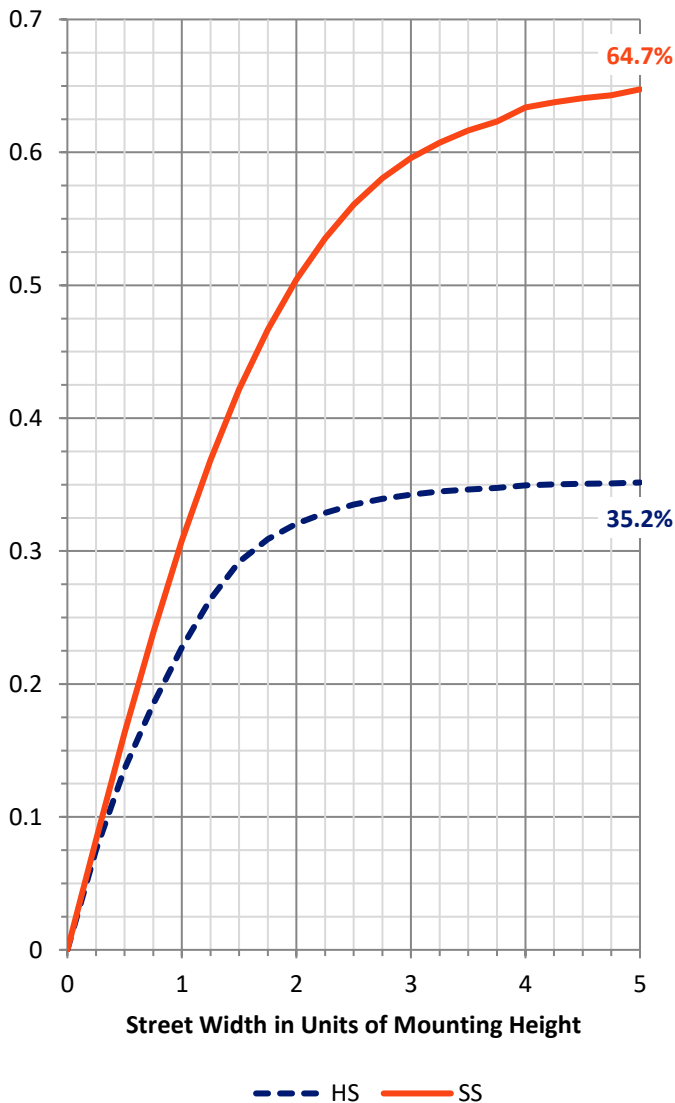
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13864.5	0.8	13865.3
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	25494.9	27.8	25522.7
	% Fixture	64.7	0.1	64.8
Total	Lumens	39359.4	28.6	39388.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	0.9
10°-20°	1060.8	2.7
20°-30°	1839.2	4.7
30°-40°	3017.8	7.7
40°-50°	5033.8	12.8
50°-60°	8146.5	20.7
60°-70°	11244.8	28.5
70°-80°	8112.7	20.6
80°-90°	562.3	1.4
90°-100°	24.4	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°	39359.4	99.9
0°-180°	39388.0	100.0

Coefficient of Utilization

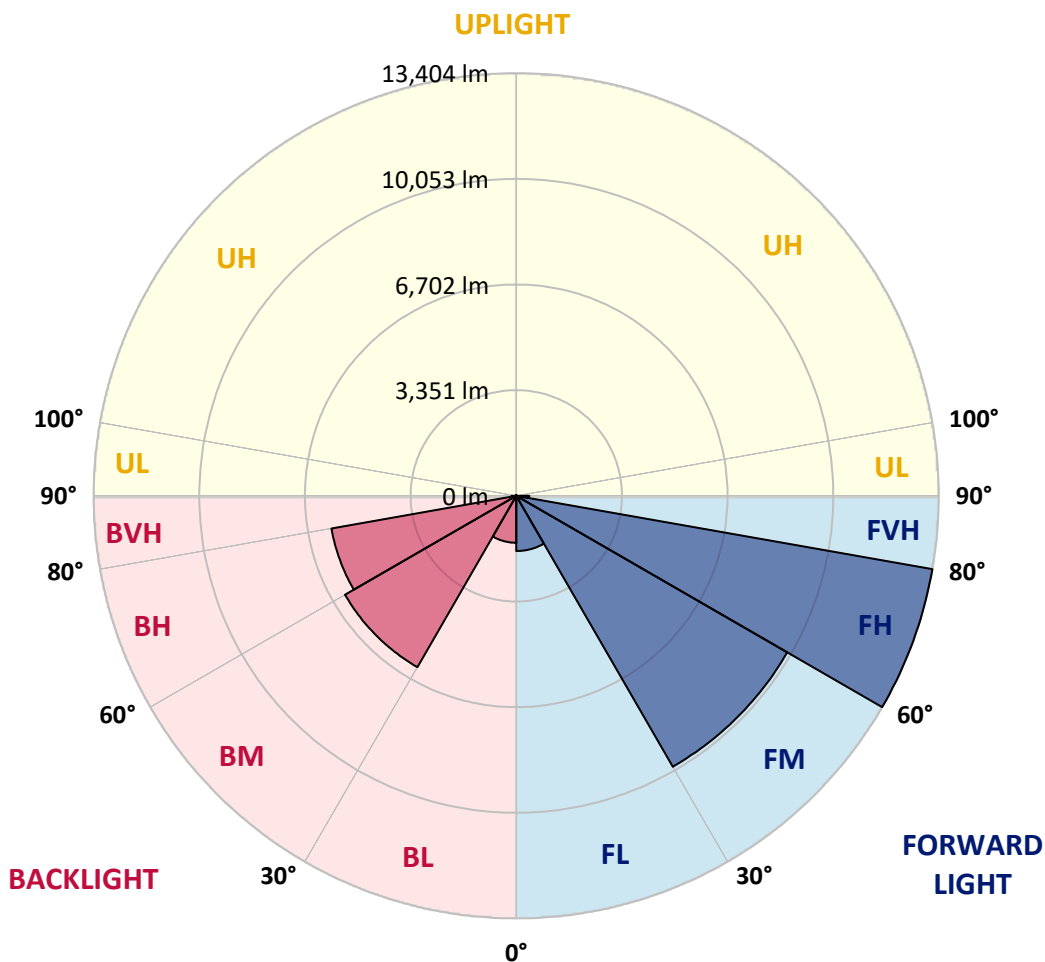


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.5	4.4			
FM (30°-60°)	9924.8	25.2			
FH (60°-80°)	13404.3	34.0			G5
FVH (80°-90°)	414.3	1.1			G3/500
BL (0°-30°)	1489.9	3.8	B3/2500		
BM (30°-60°)	6273.4	15.9	B4/8500		
BH (60°-80°)	5953.3	15.1	B5		G5
BVH (80°-90°)	148.0	0.4			G2/225
UL (90°-100°)	24.4	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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3603.8	3582.7	3584.2	3605.3	3548.0	3569.2	3545.0	3566.1	3555.6	3563.1	3572.2
5°	3614.4	3588.8	3591.8	3617.4	3572.2	3588.8	3560.1	3572.2	3563.1	3572.2	3573.7
7.5°	3641.5	3615.9	3617.4	3637.0	3590.3	3602.3	3575.2	3581.2	3566.1	3582.7	3578.2
10°	3698.8	3674.7	3665.7	3682.2	3641.5	3643.0	3611.4	3617.4	3594.8	3617.4	3608.4
12.5°	3775.7	3742.6	3745.6	3754.6	3704.9	3707.9	3670.2	3679.2	3641.5	3673.2	3662.6
15°	3869.2	3828.5	3833.0	3848.1	3799.9	3795.3	3760.7	3760.7	3727.5	3751.6	3741.0
17.5°	3998.9	3953.7	3950.6	3961.2	3922.0	3922.0	3882.8	3878.3	3845.1	3864.7	3861.7
20°	4167.8	4116.5	4107.5	4127.1	4077.3	4083.3	4033.6	4029.1	3992.9	4004.9	4006.4
22.5°	4320.1	4279.4	4277.9	4308.0	4249.2	4256.7	4211.5	4199.4	4169.3	4185.9	4190.4
25°	4495.0	4489.0	4484.4	4495.0	4436.2	4436.2	4404.5	4394.0	4374.4	4386.4	4398.5
27.5°	4715.1	4712.1	4700.1	4701.6	4651.8	4659.3	4624.7	4618.6	4609.6	4608.1	4602.0
30°	4957.9	4944.3	4927.7	4938.3	4915.7	4923.2	4893.1	4873.5	4870.4	4872.0	4862.9
32.5°	5227.8	5209.7	5199.2	5217.3	5226.3	5247.4	5245.9	5191.6	5191.6	5214.2	5173.5
35°	5562.6	5533.9	5543.0	5567.1	5585.2	5639.5	5630.4	5592.7	5604.8	5615.3	5567.1
37.5°	5956.1	5936.5	5977.2	6022.5	6024.0	6100.9	6082.8	6091.8	6090.3	6076.8	6045.1
40°	6428.1	6396.4	6438.6	6473.3	6452.2	6544.2	6541.2	6581.9	6609.0	6655.8	6637.7
42.5°	6897.0	6872.9	6913.6	6989.0	6977.0	7082.5	7097.6	7160.9	7198.6	7271.0	7228.8
45°	7474.6	7461.0	7498.7	7557.5	7598.2	7738.4	7794.2	7821.4	7916.4	8003.8	7905.8
47.5°	8121.4	8139.5	8133.5	8240.6	8331.0	8501.4	8524.0	8611.5	8694.4	8790.9	8695.9
50°	8926.6	8896.5	8923.6	9026.2	9173.9	9297.6	9413.7	9538.8	9620.3	9719.8	9544.9
52.5°	9793.7	9819.3	9879.6	10038.0	10146.5	10292.8	10398.3	10547.6	10627.5	10713.5	10485.8
55°	10886.9	10908.0	10974.3	11137.2	11214.1	11380.0	11452.3	11601.6	11678.5	11716.2	11425.2
57.5°	12168.6	12097.7	12152.0	12236.4	12355.6	12535.0	12554.6	12694.8	12694.8	12743.1	12372.1
60°	13313.1	13264.8	13322.1	13442.7	13489.5	13652.3	13635.8	13750.4	13780.5	13744.3	13301.0
62.5°	14441.0	14450.0	14523.9	14563.1	14545.0	14641.5	14680.7	14801.3	14751.6	14763.6	14252.5
65°	15810.1	15831.2	15823.7	15751.3	15588.5	15778.4	15767.9	15959.4	15971.5	16080.0	15485.9
67.5°	17640.7	17547.2	17376.8	17085.8	16763.1	16651.5	16553.5	16648.5	16770.6	16751.0	16099.6
70°	16929.0	16776.7	16687.7	16434.4	16003.1	15780.0	15576.4	15593.0	15770.9	15787.5	15121.0
72.5°	14965.7	14888.8	14546.5	14324.9	14029.3	13857.4	13611.6	13667.4	13899.6	13938.8	13408.1
75°	11805.2	11734.3	11425.2	11352.8	11206.6	11291.0	11230.7	11253.3	11440.3	11268.4	10950.2
77.5°	7640.4	7657.0	7608.8	7773.1	7767.1	7771.6	7991.8	8014.4	8196.8	8091.3	7783.7
80°	3425.9	3475.7	3593.3	3831.5	3686.8	3765.2	3849.6	3824.0	4007.9	3591.8	3741.0
82.5°	693.6	717.8	677.0	707.2	660.5	684.6	719.3	666.5	660.5	612.2	568.5
85°	357.4	361.9	360.4	352.8	310.6	286.5	275.9	232.2	209.6	205.1	190.0
87.5°	232.2	235.2	227.7	226.2	199.0	182.5	162.9	137.2	114.6	79.9	66.3
90°	141.7	141.7	134.2	126.7	113.1	101.0	81.4	58.8	34.7	13.6	7.5
92.5°	95.0	95.0	92.0	87.5	78.4	67.9	52.8	34.7	16.6	6.0	3.0
95°	60.3	60.3	58.8	57.3	51.3	43.7	33.2	21.1	10.6	4.5	1.5
97.5°	39.2	39.2	39.2	37.7	34.7	30.2	22.6	13.6	7.5	3.0	1.5
100°	24.1	25.6	24.1	24.1	22.6	19.6	15.1	9.0	6.0	3.0	1.5
102.5°	13.6	13.6	15.1	15.1	13.6	12.1	9.0	7.5	4.5	3.0	1.5
105°	6.0	6.0	7.5	7.5	7.5	6.0	6.0	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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3563.1	3545.0	3558.6	3536.0	3529.9	3510.3	3548.0	3554.1	3551.1	3557.1
5°	3566.1	3543.5	3560.1	3537.5	3536.0	3514.9	3554.1	3555.6	3545.0	3549.5
7.5°	3575.2	3554.1	3566.1	3540.5	3543.5	3517.9	3563.1	3561.6	3555.6	3566.1
10°	3608.4	3584.2	3588.8	3561.6	3569.2	3542.0	3597.8	3600.8	3594.8	3614.4
12.5°	3665.7	3632.5	3643.0	3611.4	3617.4	3590.3	3658.1	3662.6	3662.6	3694.3
15°	3744.1	3709.4	3732.0	3691.3	3692.8	3652.1	3703.4	3703.4	3709.4	3753.1
17.5°	3858.7	3816.4	3846.6	3808.9	3573.7	3484.7	3659.6	3766.7	3588.8	3573.7
20°	4000.4	3980.8	3997.4	3935.6	3554.1	3146.9	2830.3	2813.7	3165.0	3340.0
22.5°	4173.8	4154.2	4161.7	4083.3	3172.6	2886.1	2881.6	2851.4	2412.6	2292.0
25°	4377.4	4366.8	4350.2	3692.8	3279.6	3005.2	2969.0	2575.5	2323.6	2346.3
27.5°	4596.0	4564.4	4004.9	3836.0	3444.0	3124.3	2919.3	2405.1	2396.0	2417.1
30°	4840.3	4672.9	4099.9	4042.6	3635.5	3272.1	2540.8	2510.6	2510.6	2543.8
32.5°	5150.9	4363.8	4363.8	4333.6	3872.2	2872.5	2675.0	2656.9	2678.0	2691.6
35°	5104.2	4694.0	4742.3	4728.7	4193.4	2925.3	2890.6	2860.4	2865.0	2865.0
37.5°	5119.2	5135.8	5193.1	5134.3	3658.1	3154.5	3098.7	3092.7	3097.2	3107.7
40°	5592.7	5601.8	5622.9	5493.2	3931.0	3421.4	3344.5	3329.4	3344.5	3367.1
42.5°	6102.4	6128.0	6152.1	4995.6	4312.5	3724.5	3647.6	3618.9	3646.1	3670.2
45°	6705.5	6744.7	6375.3	5437.4	4743.8	4069.8	3988.3	3953.7	3970.2	3991.4
47.5°	7384.1	7445.9	6011.9	5999.9	5250.4	4478.4	4384.9	4318.6	4344.2	4342.7
50°	8150.1	7115.7	6642.2	6634.7	5815.9	4933.8	4837.3	4777.0	4796.6	4781.5
52.5°	8977.9	7310.2	7325.3	7323.8	6407.0	5423.8	5334.9	5259.5	5104.2	5247.4
55°	9825.3	7982.7	8040.0	8031.0	7026.7	5930.5	5835.5	5764.6	3766.7	3181.6
57.5°	10668.2	8685.4	8703.5	8724.6	7669.1	6419.0	6001.4	5512.8	2148.7	2138.2
60°	11500.6	9354.9	9391.1	9403.1	8015.9	5313.8	2453.3	2498.6	649.9	776.6
62.5°	12363.1	10015.3	10048.5	10038.0	8361.2	4941.3	2577.0	2525.7	60.3	55.8
65°	13463.9	10843.2	10796.4	10761.7	8905.5	5273.1	2768.5	2754.9	19.6	13.6
67.5°	13849.9	11031.6	10936.6	10924.6	8983.9	5343.9	2783.5	2773.0	19.6	13.6
70°	12975.3	10315.4	10152.6	10157.1	8359.7	4998.6	2596.6	2581.5	18.1	13.6
72.5°	11363.4	9110.6	9042.8	8683.9	7239.3	4397.0	2302.5	2245.2	18.1	12.1
75°	9329.2	7360.0	7209.2	6806.6	5761.6	3495.3	1807.9	1734.1	16.6	10.6
77.5°	6476.3	5161.5	4873.5	4463.3	3854.1	2317.6	1215.4	1120.4	15.1	10.6
80°	2935.8	2118.6	2129.1	1631.5	1307.3	785.6	386.0	349.8	13.6	9.0
82.5°	511.2	377.0	354.4	342.3	285.0	193.0	117.6	101.0	12.1	6.0
85°	177.9	143.2	158.3	187.0	165.9	116.1	72.4	69.4	7.5	3.0
87.5°	60.3	63.3	73.9	89.0	78.4	45.2	27.1	19.6	1.5	0.0
90°	6.0	7.5	7.5	7.5	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)