

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: P579414

Luminaire Tested: **CST-CA8-330-722-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579414
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-CA8-330-722-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 2200K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32206 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

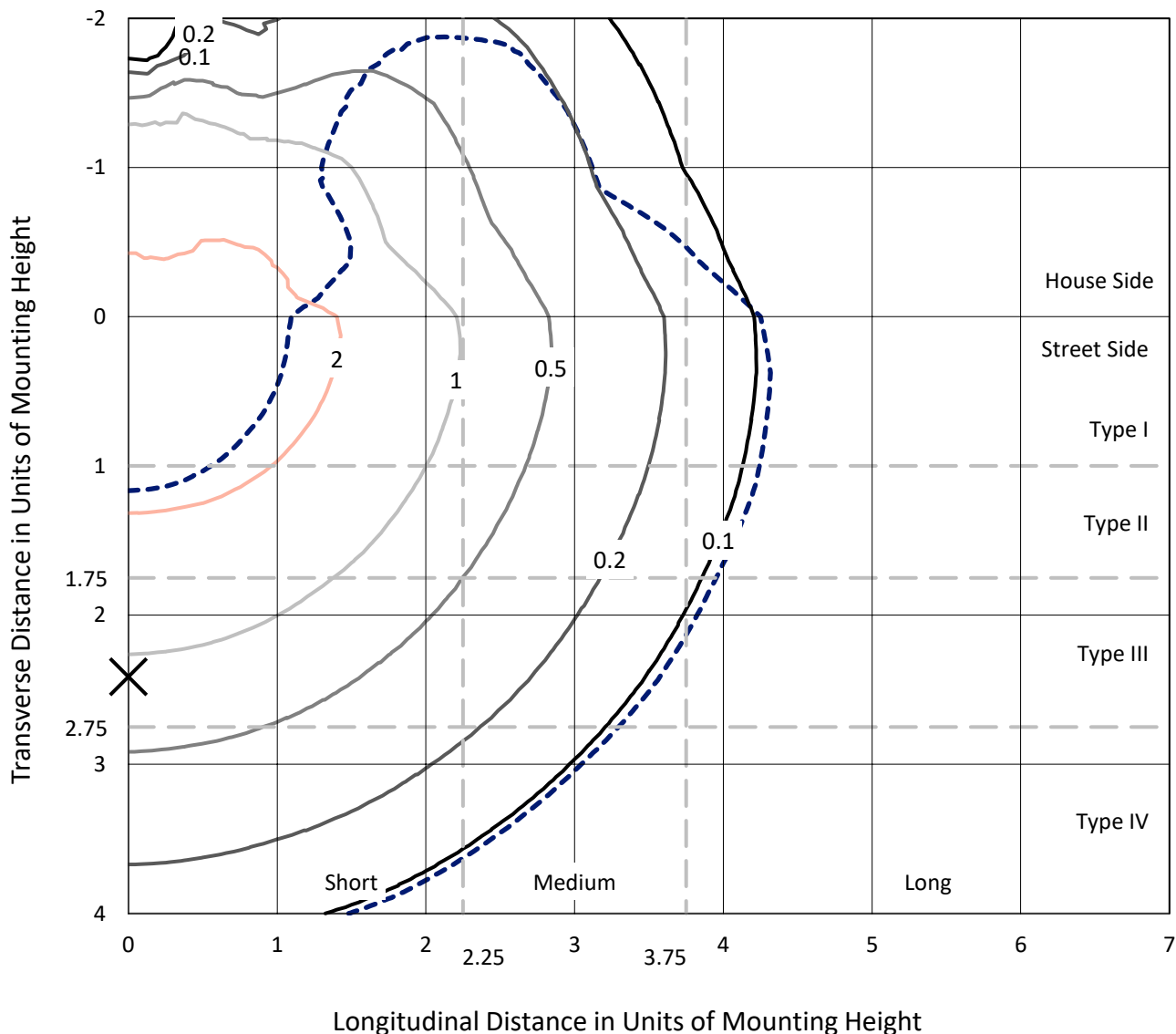
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

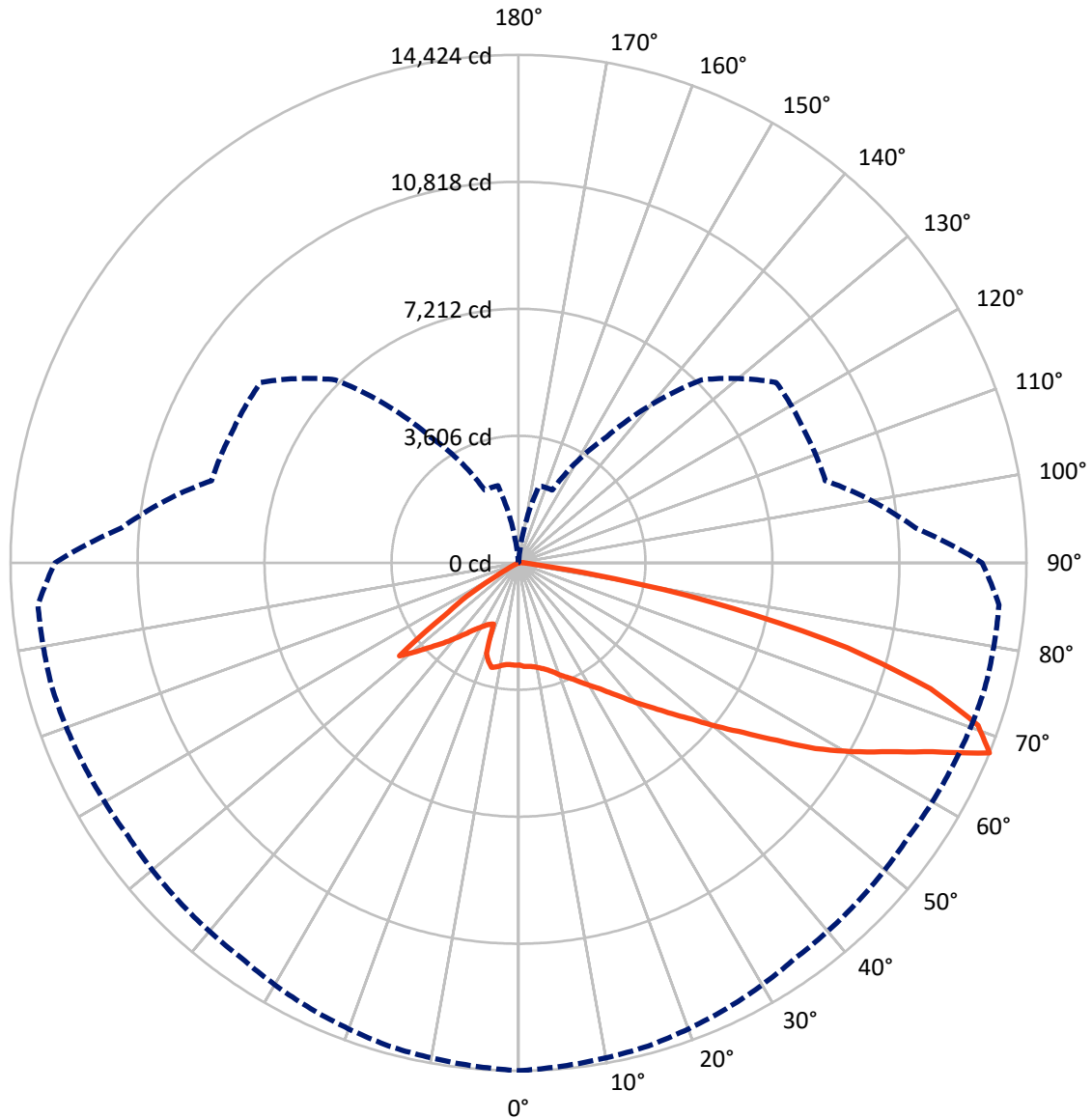
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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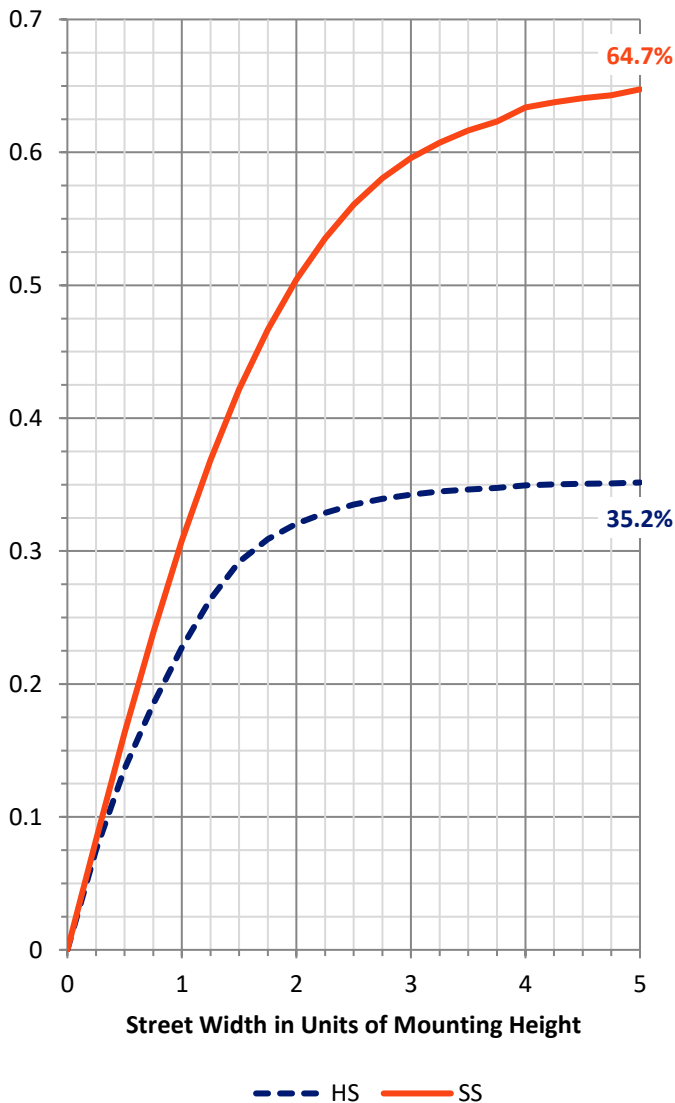
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11336.5	0.7	11337.1
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	20846.2	22.7	20868.9
	% Fixture	64.7	0.1	64.8
Total	Lumens	32182.6	23.4	32206.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	0.9
10°-20°	867.4	2.7
20°-30°	1503.8	4.7
30°-40°	2467.6	7.7
40°-50°	4115.9	12.8
50°-60°	6661.1	20.7
60°-70°	9194.5	28.5
70°-80°	6633.4	20.6
80°-90°	459.8	1.4
90°-100°	19.9	0.1
100°-110°	3.3	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°	32182.6	99.9
0°-180°	32206.0	100.0

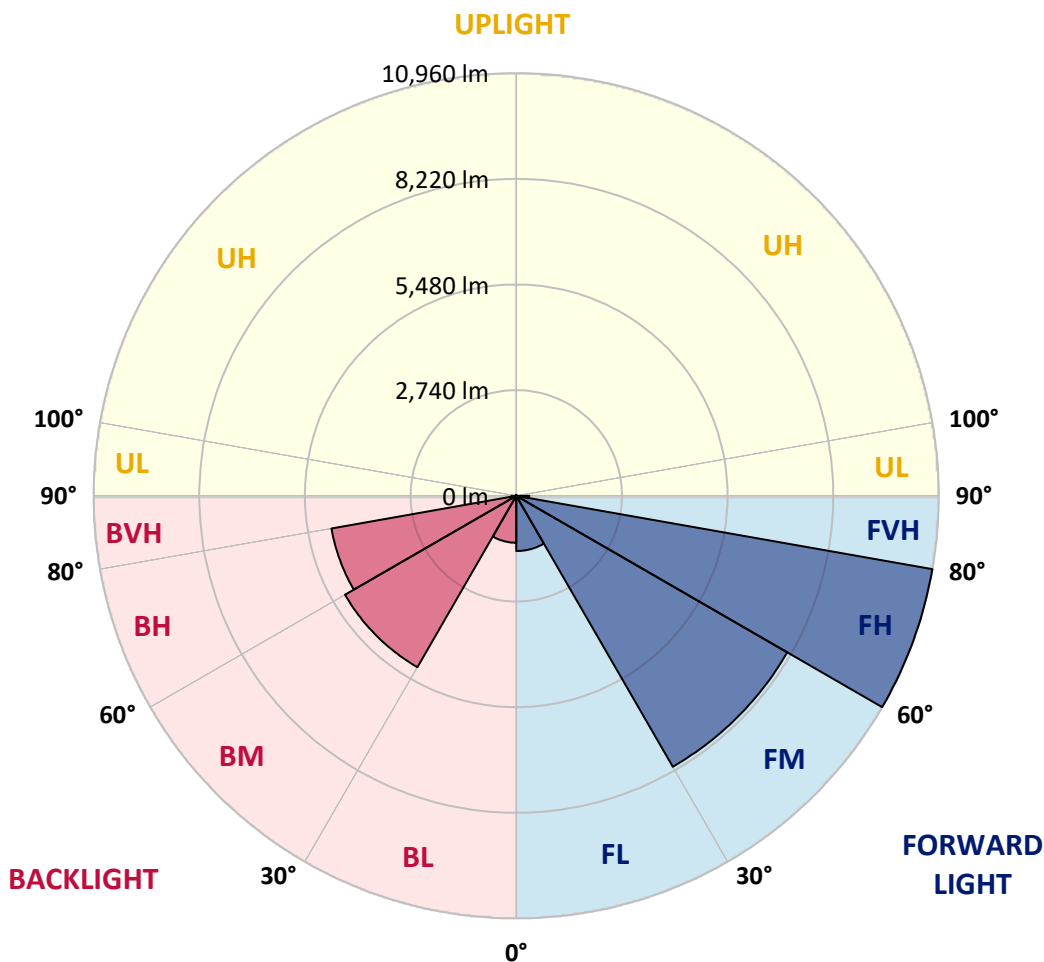


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.2	4.4			
FM (30°-60°)	8115.1	25.2			
FH (60°-80°)	10960.1	34.0			G4/12000
FVH (80°-90°)	338.8	1.1			G3/500
BL (0°-30°)	1218.3	3.8	B3/2500		
BM (30°-60°)	5129.5	15.9	B4/8500		
BH (60°-80°)	4867.7	15.1	B4/5000		G4/5000
BVH (80°-90°)	121.0	0.4			G2/225
UL (90°-100°)	19.9	0.1		U2/50	
UH (100°-180°)	3.4	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3
2.5°	2946.7	2929.4	2930.7	2947.9	2901.1	2918.4	2898.6	2915.9	2907.3	2913.4	2920.8
5°	2955.3	2934.4	2936.8	2957.8	2920.8	2934.4	2911.0	2920.8	2913.4	2920.8	2922.1
7.5°	2977.5	2956.6	2957.8	2973.8	2935.6	2945.5	2923.3	2928.2	2915.9	2929.4	2925.7
10°	3024.4	3004.7	2997.3	3010.8	2977.5	2978.8	2952.9	2957.8	2939.3	2957.8	2950.4
12.5°	3087.3	3060.1	3062.6	3070.0	3029.3	3031.8	3001.0	3008.4	2977.5	3003.4	2994.8
15°	3163.7	3130.4	3134.1	3146.4	3107.0	3103.3	3074.9	3074.9	3047.8	3067.5	3058.9
17.5°	3269.7	3232.7	3230.3	3238.9	3206.9	3206.9	3174.8	3171.1	3144.0	3160.0	3157.5
20°	3407.8	3365.9	3358.5	3374.5	3333.9	3338.8	3298.1	3294.4	3264.8	3274.7	3275.9
22.5°	3532.4	3499.1	3497.8	3522.5	3474.4	3480.6	3443.6	3433.7	3409.1	3422.6	3426.3
25°	3675.4	3670.4	3666.7	3675.4	3627.3	3627.3	3601.4	3592.8	3576.7	3586.6	3596.5
27.5°	3855.4	3852.9	3843.1	3844.3	3803.6	3809.8	3781.4	3776.5	3769.1	3767.8	3762.9
30°	4053.9	4042.8	4029.2	4037.9	4019.4	4025.5	4000.9	3984.8	3982.4	3983.6	3976.2
32.5°	4274.6	4259.8	4251.2	4265.9	4273.3	4290.6	4289.4	4245.0	4245.0	4263.5	4230.2
35°	4548.3	4524.9	4532.3	4552.0	4566.8	4611.2	4603.8	4572.9	4582.8	4591.4	4552.0
37.5°	4870.1	4854.1	4887.3	4924.3	4925.6	4988.4	4973.7	4981.0	4979.8	4968.7	4942.8
40°	5256.0	5230.1	5264.6	5293.0	5275.7	5350.9	5348.5	5381.8	5403.9	5442.2	5427.4
42.5°	5639.4	5619.7	5653.0	5714.6	5704.8	5791.1	5803.4	5855.2	5886.0	5945.2	5910.7
45°	6111.6	6100.6	6131.4	6179.5	6212.7	6327.4	6373.0	6395.2	6472.9	6544.4	6464.3
47.5°	6640.6	6655.4	6650.4	6738.0	6812.0	6951.3	6969.8	7041.3	7109.1	7188.0	7110.3
50°	7299.0	7274.3	7296.5	7380.3	7501.2	7602.3	7697.2	7799.5	7866.1	7947.5	7804.5
52.5°	8007.9	8028.9	8078.2	8207.6	8296.4	8416.0	8502.3	8624.4	8689.7	8760.0	8573.8
55°	8901.8	8919.0	8973.3	9106.4	9169.3	9304.9	9364.1	9486.2	9549.1	9579.9	9341.9
57.5°	9949.8	9891.8	9936.2	10005.2	10102.7	10249.4	10265.4	10380.1	10380.1	10419.5	10116.2
60°	10885.6	10846.1	10893.0	10991.6	11029.8	11163.0	11149.4	11243.1	11267.8	11238.2	10875.7
62.5°	11807.8	11815.2	11875.6	11907.7	11892.9	11971.8	12003.8	12102.5	12061.8	12071.6	11653.7
65°	12927.3	12944.6	12938.4	12879.2	12746.1	12901.4	12892.8	13049.4	13059.2	13148.0	12662.2
67.5°	14424.1	14347.6	14208.3	13970.4	13706.5	13615.3	13535.1	13612.8	13712.7	13696.7	13164.0
70°	13842.1	13717.6	13644.9	13437.7	13085.1	12902.6	12736.2	12749.8	12895.2	12908.8	12363.9
72.5°	12236.9	12174.0	11894.1	11712.9	11471.2	11330.7	11129.7	11175.3	11365.2	11397.2	10963.2
75°	9652.6	9594.7	9341.9	9282.8	9163.2	9232.2	9182.9	9201.4	9354.3	9213.7	8953.6
77.5°	6247.3	6260.8	6221.4	6355.8	6350.8	6354.5	6534.5	6553.0	6702.2	6615.9	6364.4
80°	2801.2	2841.9	2938.1	3132.9	3014.5	3078.6	3147.7	3126.7	3277.1	2936.8	3058.9
82.5°	567.1	586.9	553.6	578.2	540.0	559.8	588.1	545.0	540.0	500.6	464.8
85°	292.2	295.9	294.7	288.5	254.0	234.3	225.6	189.9	171.4	167.7	155.3
87.5°	189.9	192.3	186.2	184.9	162.7	149.2	133.2	112.2	93.7	65.3	54.2
90°	115.9	115.9	109.7	103.6	92.5	82.6	66.6	48.1	28.4	11.1	6.2
92.5°	77.7	77.7	75.2	71.5	64.1	55.5	43.2	28.4	13.6	4.9	2.5
95°	49.3	49.3	48.1	46.9	41.9	35.8	27.1	17.3	8.6	3.7	1.2
97.5°	32.1	32.1	32.1	30.8	28.4	24.7	18.5	11.1	6.2	2.5	1.2
100°	19.7	21.0	19.7	19.7	18.5	16.0	12.3	7.4	4.9	2.5	1.2
102.5°	11.1	11.1	12.3	12.3	11.1	9.9	7.4	6.2	3.7	2.5	1.2
105°	4.9	4.9	6.2	6.2	6.2	4.9	4.9	3.7	2.5	2.5	1.2
107.5°	1.2	1.2	1.2	2.5	3.7	3.7	3.7	3.7	2.5	1.2	1.2
110°	0.0	0.0	0.0	1.2	1.2	2.5	2.5	2.5	2.5	1.2	1.2



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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°	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3
2.5°	2913.4	2898.6	2909.7	2891.2	2886.3	2870.3	2901.1	2906.0	2903.6	2908.5
5°	2915.9	2897.4	2911.0	2892.5	2891.2	2874.0	2906.0	2907.3	2898.6	2902.3
7.5°	2923.3	2906.0	2915.9	2894.9	2897.4	2876.4	2913.4	2912.2	2907.3	2915.9
10°	2950.4	2930.7	2934.4	2912.2	2918.4	2896.2	2941.8	2944.2	2939.3	2955.3
12.5°	2997.3	2970.1	2978.8	2952.9	2957.8	2935.6	2991.1	2994.8	2994.8	3020.7
15°	3061.4	3033.0	3051.5	3018.2	3019.5	2986.2	3028.1	3028.1	3033.0	3068.8
17.5°	3155.1	3120.6	3145.2	3114.4	2922.1	2849.3	2992.3	3079.9	2934.4	2922.1
20°	3271.0	3254.9	3268.5	3218.0	2906.0	2573.1	2314.2	2300.7	2587.9	2730.9
22.5°	3412.8	3396.7	3402.9	3338.8	2594.1	2359.8	2356.1	2331.5	1972.7	1874.1
25°	3579.2	3570.6	3557.0	3019.5	2681.6	2457.2	2427.6	2105.8	1899.9	1918.4
27.5°	3758.0	3732.1	3274.7	3136.6	2816.0	2554.6	2387.0	1966.5	1959.1	1976.4
30°	3957.7	3820.9	3352.3	3305.5	2972.6	2675.5	2077.5	2052.8	2052.8	2080.0
32.5°	4211.7	3568.1	3568.1	3543.4	3166.2	2348.7	2187.2	2172.4	2189.7	2200.8
35°	4173.5	3838.1	3877.6	3866.5	3428.8	2391.9	2363.5	2338.9	2342.6	2342.6
37.5°	4185.8	4199.4	4246.2	4198.1	2991.1	2579.3	2533.7	2528.7	2532.4	2541.1
40°	4572.9	4580.3	4597.6	4491.6	3214.3	2797.5	2734.6	2722.3	2734.6	2753.1
42.5°	4989.7	5010.6	5030.4	4084.7	3526.2	3045.3	2982.5	2959.0	2981.2	3001.0
45°	5482.9	5514.9	5212.8	4446.0	3878.8	3327.7	3261.1	3232.7	3246.3	3263.6
47.5°	6037.7	6088.2	4915.7	4905.8	4293.1	3661.8	3585.4	3531.1	3552.1	3550.8
50°	6664.0	5818.2	5431.1	5424.9	4755.4	4034.2	3955.2	3905.9	3922.0	3909.6
52.5°	7340.9	5977.3	5989.6	5988.4	5238.7	4434.9	4362.1	4300.5	4173.5	4290.6
55°	8033.8	6527.1	6574.0	6566.6	5745.5	4849.1	4771.5	4713.5	3079.9	2601.5
57.5°	8723.0	7101.7	7116.5	7133.7	6270.7	5248.6	4907.1	4507.6	1756.9	1748.3
60°	9403.6	7649.1	7678.7	7688.6	6554.3	4344.9	2006.0	2043.0	531.4	635.0
62.5°	10108.8	8189.1	8216.3	8207.6	6836.6	4040.3	2107.1	2065.2	49.3	45.6
65°	11008.9	8866.0	8827.8	8799.4	7281.7	4311.6	2263.7	2252.6	16.0	11.1
67.5°	11324.5	9020.1	8942.5	8932.6	7345.8	4369.5	2276.0	2267.4	16.0	11.1
70°	10609.4	8434.5	8301.3	8305.0	6835.4	4087.2	2123.1	2110.8	14.8	11.1
72.5°	9291.4	7449.4	7393.9	7100.5	5919.3	3595.2	1882.7	1835.8	14.8	9.9
75°	7628.2	6017.9	5894.7	5565.5	4711.0	2857.9	1478.3	1417.9	13.6	8.6
77.5°	5295.4	4220.3	3984.8	3649.5	3151.4	1895.0	993.7	916.1	12.3	8.6
80°	2400.5	1732.3	1740.9	1334.0	1069.0	642.4	315.6	286.0	11.1	7.4
82.5°	418.0	308.2	289.7	279.9	233.0	157.8	96.2	82.6	9.9	4.9
85°	145.5	117.1	129.5	152.9	135.6	94.9	59.2	56.7	6.2	2.5
87.5°	49.3	51.8	60.4	72.7	64.1	37.0	22.2	16.0	1.2	0.0
90°	4.9	6.2	6.2	6.2	3.7	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.2	1.2	1.2	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)