

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: McGRAW-EDISON

Report Number: P579376

Luminaire Tested: **CTN-CA10-210-722-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579376
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: MCGRAW-EDISON
Catalog Number: CTN-CA10-210-722-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20911 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

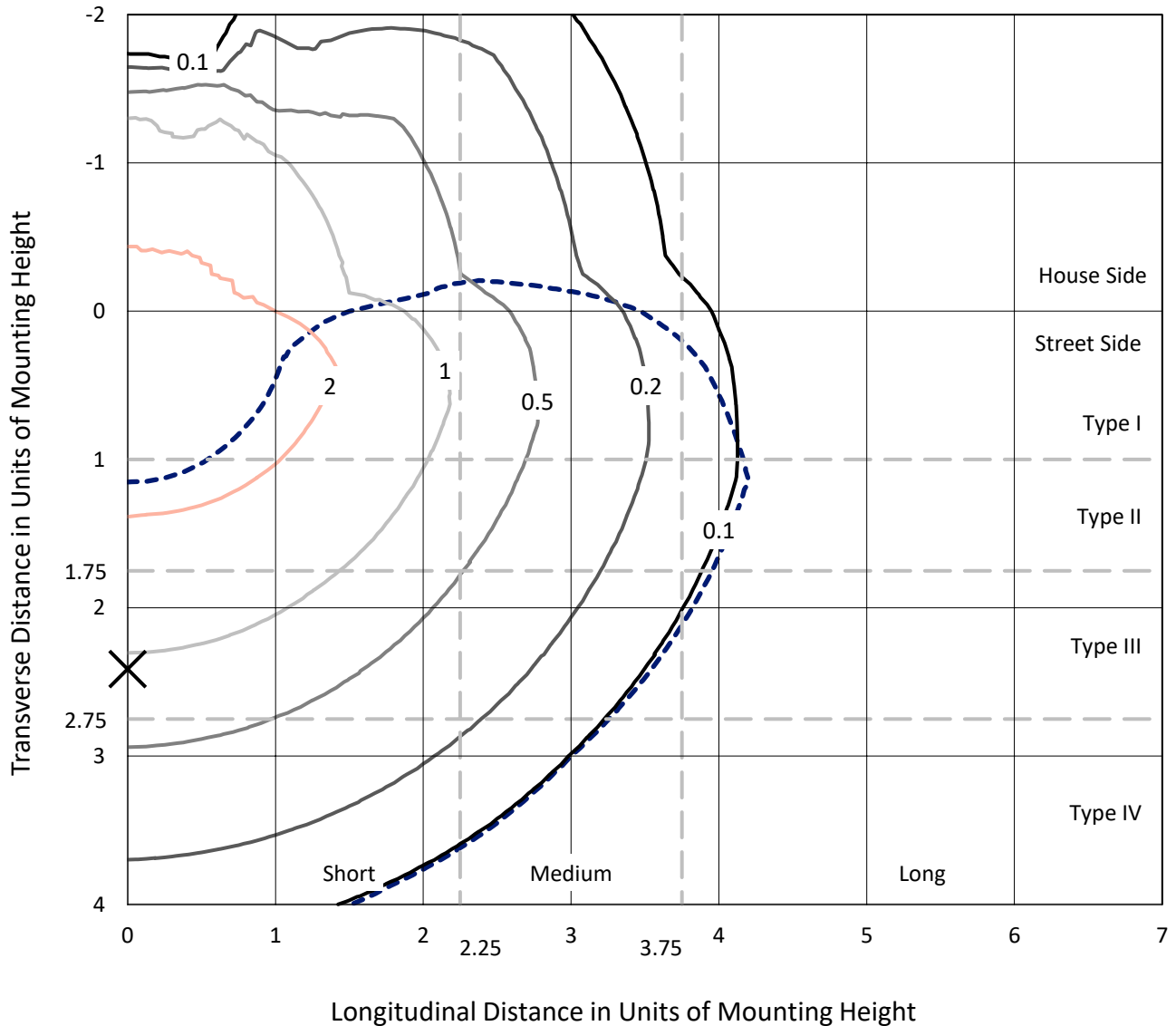
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

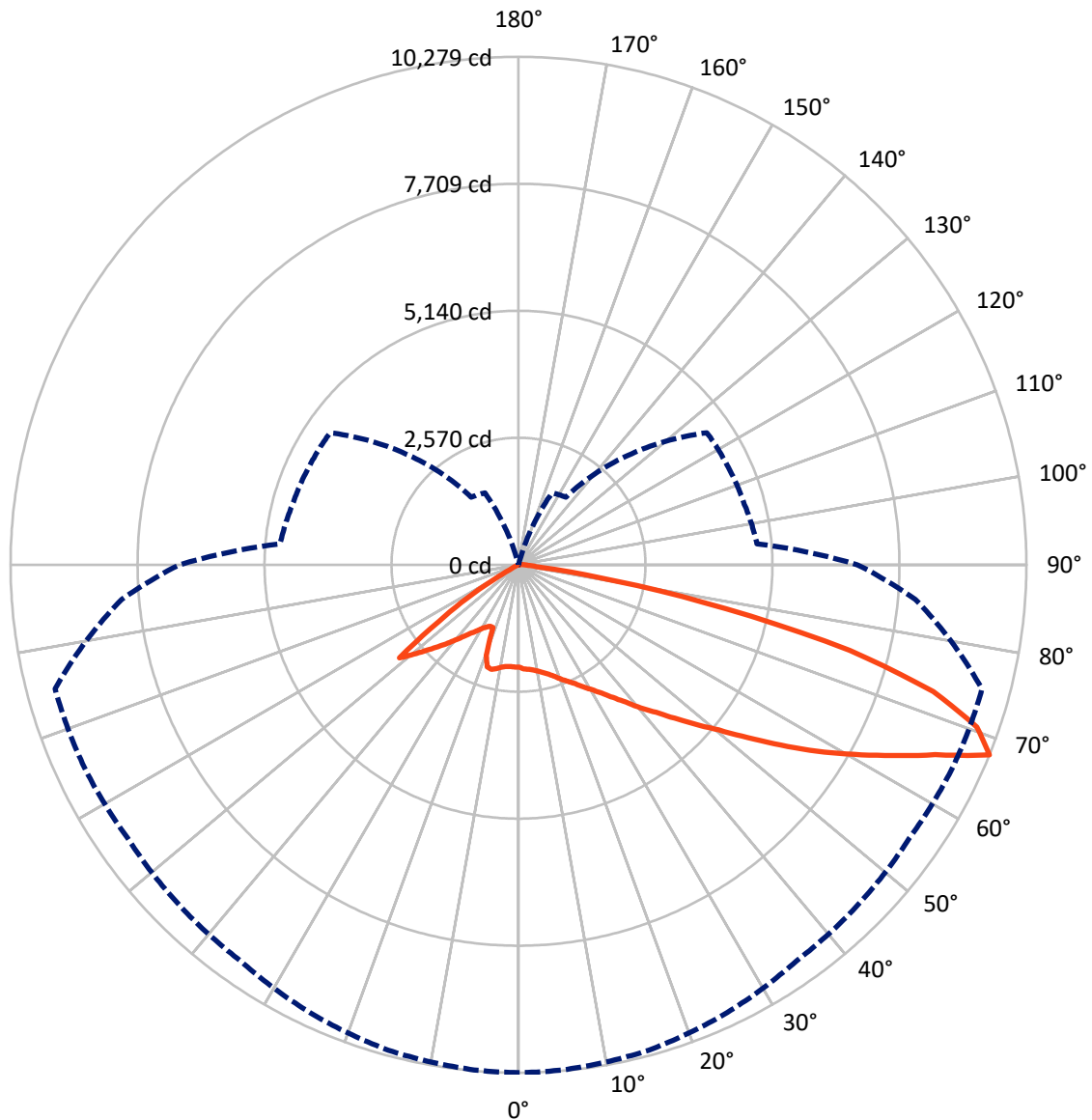
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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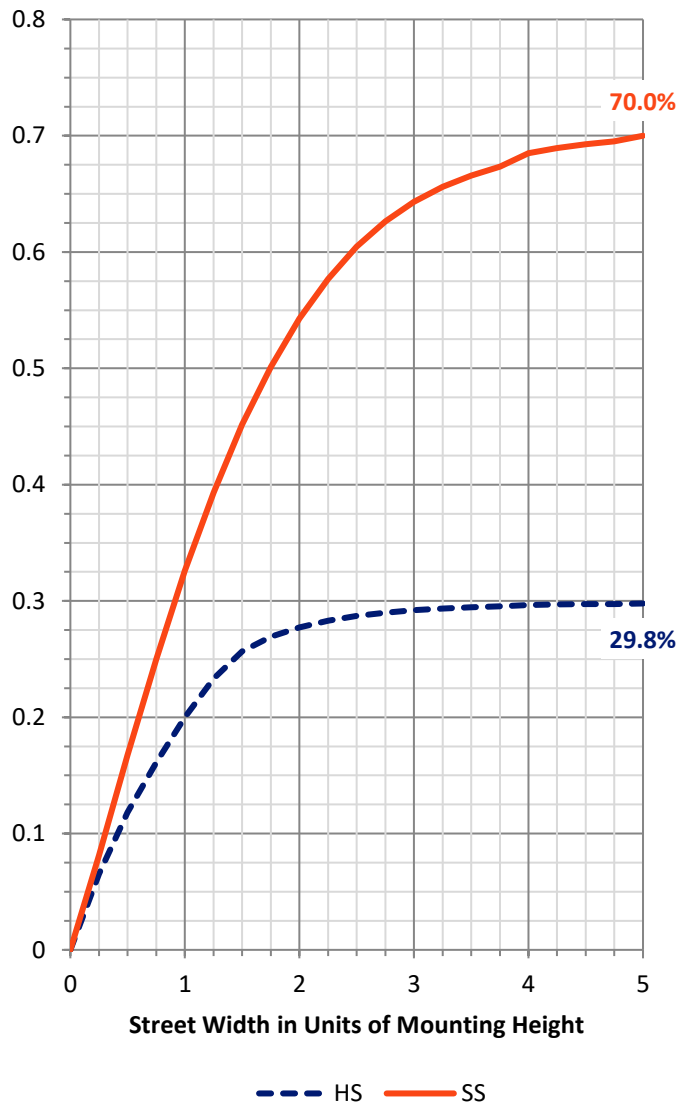
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6242.1	2.1	6244.1
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	14643.3	23.5	14666.8
	% Fixture	70.0	0.1	70.1
Total	Lumens	20885.4	25.6	20911.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.0
10°-20°	618.4	3.0
20°-30°	1037.8	5.0
30°-40°	1682.9	8.0
40°-50°	2750.0	13.2
50°-60°	4309.8	20.6
60°-70°	5772.2	27.6
70°-80°	4207.1	20.1
80°-90°	307.2	1.5
90°-100°	19.6	0.1
100°-110°	5.6	0.0
110°-120°	0.4	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°	20885.4	99.9
0°-180°	20911.0	100.0

Coefficient of Utilization



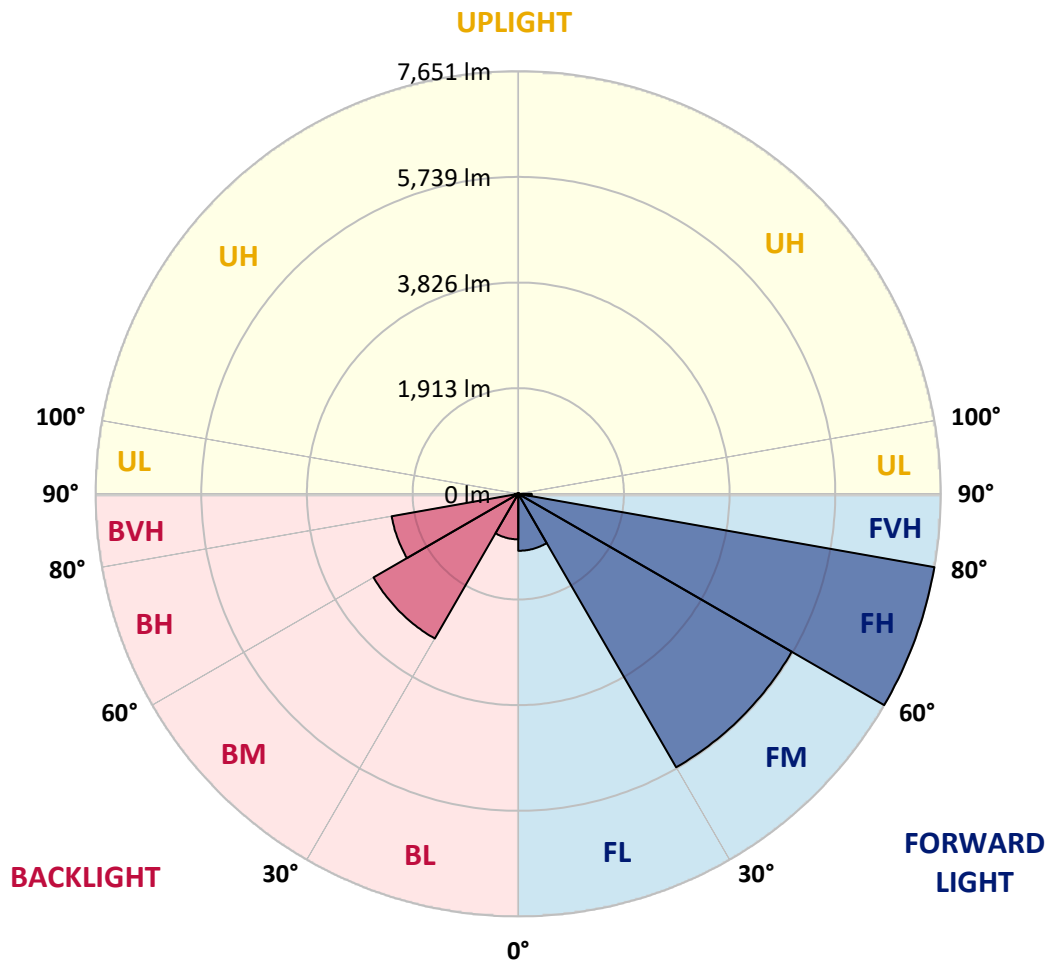
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.4	4.9			
FM (30°-60°)	5717.4	27.3			
FH (60°-80°)	7651.5	36.6			G4/12000
FVH (80°-90°)	243.0	1.2			G3/500
BL (0°-30°)	824.6	3.9	B2/1000		
BM (30°-60°)	3025.3	14.5	B3/5000		
BH (60°-80°)	2327.8	11.1	B3/2500		G3/2500
BVH (80°-90°)	64.3	0.3			G1/100
UL (90°-100°)	19.6	0.1		U2/50	
UH (100°-180°)	6.0	0.0		U1/10	

BUG Rating: B3-U2-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0
2.5°	2111.6	2099.3	2100.2	2111.6	2077.3	2088.7	2073.8	2085.2	2077.3	2080.0	2085.2
5°	2124.8	2111.6	2112.5	2126.5	2095.8	2105.4	2085.2	2091.4	2084.3	2087.9	2087.9
7.5°	2151.2	2136.2	2135.3	2144.1	2112.5	2116.0	2097.5	2098.4	2087.9	2094.9	2091.4
10°	2190.7	2178.4	2169.6	2174.9	2146.8	2145.0	2121.3	2122.2	2109.0	2116.9	2110.7
12.5°	2239.1	2222.4	2220.6	2222.4	2191.6	2184.6	2160.0	2161.7	2138.0	2150.3	2143.2
15°	2300.6	2274.2	2274.2	2283.9	2244.3	2239.1	2209.2	2210.9	2186.3	2196.0	2189.0
17.5°	2376.2	2350.7	2346.3	2353.4	2319.1	2312.0	2281.3	2279.5	2252.3	2254.9	2248.7
20°	2473.8	2448.3	2437.7	2455.3	2412.3	2407.0	2370.1	2366.5	2337.5	2329.6	2326.1
22.5°	2564.3	2544.1	2538.8	2558.2	2513.4	2509.0	2473.8	2469.4	2442.1	2430.7	2361.3
25°	2666.3	2661.9	2660.2	2666.3	2624.1	2615.3	2588.1	2581.9	2559.1	2545.0	2460.6
27.5°	2798.2	2796.4	2791.1	2792.0	2753.3	2745.4	2719.9	2715.5	2691.8	2676.0	2567.9
30°	2936.2	2936.2	2924.8	2930.9	2911.6	2899.3	2879.1	2863.2	2848.3	2831.6	2695.3
32.5°	3095.3	3094.4	3083.9	3102.3	3088.3	3088.3	3076.0	3059.3	3032.9	3025.0	2859.7
35°	3300.1	3287.0	3282.6	3312.5	3308.1	3316.0	3311.6	3294.0	3272.0	3253.6	3053.1
37.5°	3527.0	3523.4	3536.6	3555.1	3564.8	3585.9	3572.7	3571.8	3568.3	3521.7	3001.3
40°	3806.5	3791.6	3810.0	3819.7	3812.7	3846.9	3835.5	3845.2	3871.6	3497.1	2997.7
42.5°	4085.2	4072.0	4085.2	4132.7	4122.1	4163.4	4158.1	4195.9	4210.9	3548.9	3241.2
45°	4428.0	4413.1	4423.6	4479.9	4485.2	4535.3	4562.5	4598.6	4605.6	3884.7	3534.9
47.5°	4821.9	4797.3	4817.5	4843.8	4923.8	4971.3	4997.7	5041.6	5086.5	4289.1	3868.9
50°	5256.1	5254.4	5276.4	5322.1	5413.5	5461.0	5506.7	5552.4	5626.2	4740.1	4243.4
52.5°	5808.2	5796.8	5834.6	5877.7	5958.5	6031.5	6086.0	6133.5	6212.6	5196.4	4648.7
55°	6439.4	6399.9	6471.9	6544.9	6579.2	6665.3	6703.1	6742.7	6818.3	5676.4	4885.2
57.5°	7120.7	7111.0	7161.2	7187.5	7261.4	7315.0	7335.2	7378.3	7377.4	6175.7	5287.8
60°	7791.5	7780.9	7839.8	7855.6	7914.5	7962.9	7955.9	7994.5	8008.6	6644.2	5682.5
62.5°	8497.4	8479.8	8534.3	8537.8	8502.7	8580.9	8573.0	8605.5	8593.2	7102.3	6071.1
65°	9269.2	9282.4	9300.0	9227.9	9143.5	9211.2	9209.5	9271.0	9315.0	7742.2	6591.5
67.5°	10279.3	10262.6	10172.1	9998.0	9793.2	9724.6	9651.7	9696.5	9708.8	8060.5	6857.9
70°	9843.3	9806.4	9765.9	9588.4	9341.3	9167.3	9053.9	9101.3	9151.4	7617.4	6441.2
72.5°	8780.5	8689.0	8500.9	8344.4	8202.0	8032.3	7894.3	7977.0	8086.9	6756.8	5703.6
75°	6927.3	6842.0	6704.9	6598.5	6522.1	6520.3	6514.1	6578.3	6562.5	5486.5	4637.3
77.5°	4290.0	4468.5	4595.1	4504.5	4536.2	4471.1	4614.4	4698.8	4775.3	3933.1	3303.7
80°	1980.6	2026.3	2250.5	2192.5	2145.9	2132.7	2141.5	2288.3	2331.4	1765.2	1478.6
82.5°	451.9	433.4	449.2	416.7	414.9	395.6	398.2	398.2	384.2	325.3	272.5
85°	228.6	233.8	235.6	225.9	199.6	179.3	166.2	140.7	121.3	103.7	87.9
87.5°	153.0	157.4	160.0	146.8	131.9	115.2	104.6	85.3	67.7	42.2	32.5
90°	104.6	103.7	101.1	94.1	84.4	72.1	58.0	40.4	23.7	8.8	6.2
92.5°	74.7	73.0	72.1	65.9	58.9	49.2	37.8	25.5	13.2	6.2	3.5
95°	49.2	48.4	48.4	44.8	39.6	32.5	25.5	16.7	9.7	5.3	3.5
97.5°	34.3	33.4	33.4	31.6	28.1	23.7	17.6	11.4	7.9	5.3	3.5
100°	23.7	23.7	23.7	22.0	20.2	16.7	13.2	8.8	7.0	5.3	3.5
102.5°	15.8	15.8	16.7	15.8	14.1	11.4	8.8	7.0	6.2	4.4	3.5
105°	10.5	10.5	10.5	10.5	9.7	7.9	7.0	6.2	5.3	4.4	3.5
107.5°	7.0	7.0	7.0	7.0	6.2	5.3	5.3	5.3	4.4	4.4	3.5
110°	4.4	4.4	4.4	5.3	4.4	4.4	4.4	4.4	4.4	3.5	3.5



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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°	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0
2.5°	2080.8	2068.5	2074.7	2062.4	2057.1	2045.7	2067.6	2069.4	2067.6	2071.2
5°	2083.5	2069.4	2076.4	2062.4	2059.7	2046.5	2068.5	2068.5	2063.3	2065.9
7.5°	2089.6	2074.7	2080.0	2063.3	2063.3	2047.4	2073.8	2072.0	2067.6	2073.8
10°	2110.7	2093.1	2093.1	2077.3	2079.1	2062.4	2094.9	2094.9	2091.4	2101.9
12.5°	2143.2	2121.3	2122.2	2100.2	2103.7	2090.5	2130.1	2131.8	2131.8	2149.4
15°	2185.4	2152.0	2155.6	2131.8	2138.9	2123.0	2158.2	2156.4	2160.8	2186.3
17.5°	2237.3	2200.4	2169.6	2092.3	2046.5	2048.3	2152.9	2201.3	2145.0	2161.7
20°	2259.3	2080.0	1982.4	1954.2	1948.1	1850.5	1651.0	1681.7	1869.8	1951.6
22.5°	2111.6	2054.5	2044.8	2008.7	1742.4	1668.5	1680.8	1663.3	1478.6	1374.0
25°	2183.7	2145.9	2123.9	1806.6	1746.8	1733.6	1724.8	1557.8	1357.3	1367.0
27.5°	2285.7	2236.4	1972.7	1814.5	1825.9	1805.7	1754.7	1401.3	1395.1	1411.0
30°	2406.1	2282.1	1922.6	1907.6	1920.8	1894.5	1475.1	1461.1	1461.1	1476.9
32.5°	2553.8	2070.3	2040.4	2042.2	2033.4	1734.5	1552.5	1549.0	1559.5	1572.7
35°	2512.5	2208.3	2210.9	2225.9	2205.7	1696.7	1673.8	1660.6	1669.4	1674.7
37.5°	2431.6	2415.8	2415.8	2399.1	1883.0	1829.4	1804.8	1803.0	1802.2	1802.2
40°	2635.5	2620.6	2602.1	2573.1	1970.1	1984.1	1947.2	1942.8	1945.5	1955.1
42.5°	2867.6	2861.5	2859.7	2208.3	2151.2	2161.7	2122.2	2110.7	2110.7	2132.7
45°	3141.0	3133.1	2938.8	2360.4	2350.7	2363.0	2319.1	2291.8	2306.8	2322.6
47.5°	3454.9	3454.9	2602.1	2588.1	2588.1	2595.1	2551.2	2514.2	2529.2	2534.4
50°	3798.6	3261.5	2863.2	2850.0	2862.4	2858.8	2813.1	2470.3	2787.6	2790.3
52.5°	3894.4	3171.8	3149.8	3134.9	3149.8	3147.2	3099.7	2060.6	3015.3	3058.4
55°	3452.2	3454.9	3450.5	3428.5	3444.3	3438.2	3391.6	2249.6	2223.2	1981.5
57.5°	3732.7	3736.2	3734.4	3730.9	3745.0	2720.8	3512.9	2032.5	1241.3	1242.2
60°	4037.7	4020.1	4014.9	4006.9	3396.0	1928.7	1463.7	141.5	485.3	478.2
62.5°	4314.6	4308.5	4290.0	4285.6	2881.7	1519.1	1483.9	32.5	25.5	24.6
65°	4699.7	4645.2	4630.2	4583.6	3071.6	1617.5	1584.1	9.7	0.9	0.0
67.5°	4843.0	4732.2	4678.6	4654.0	3125.2	1668.5	1604.4	9.7	0.9	0.0
70°	4572.2	4435.1	4367.4	4340.1	2920.4	1559.5	1496.2	9.7	0.9	0.0
72.5°	4054.4	3953.3	3926.1	3839.0	2574.9	1368.8	1313.4	9.7	0.0	0.0
75°	3325.6	3288.7	3255.3	3163.0	2093.1	1087.4	1038.2	8.8	0.0	0.0
77.5°	2420.2	2365.7	2304.1	2203.9	1412.7	710.3	684.8	7.9	0.0	0.0
80°	1091.0	1046.1	1031.2	874.7	501.1	231.2	204.0	7.0	0.0	0.0
82.5°	211.9	190.8	181.1	174.1	112.5	62.4	54.5	5.3	0.0	0.0
85°	72.1	80.0	93.2	102.9	63.3	37.8	31.6	3.5	0.0	0.0
87.5°	28.1	37.8	45.7	47.5	23.7	15.8	8.8	1.8	0.0	0.0
90°	5.3	7.0	6.2	4.4	2.6	0.9	0.0	0.0	0.0	0.0
92.5°	2.6	3.5	2.6	2.6	1.8	0.9	0.0	0.0	0.0	0.0
95°	3.5	3.5	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
97.5°	3.5	3.5	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
100°	3.5	3.5	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
102.5°	3.5	3.5	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
105°	3.5	4.4	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
107.5°	3.5	4.4	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0
110°	3.5	4.4	3.5	2.6	1.8	0.9	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)