

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: P579400

Luminaire Tested: **CTN-CA6-230-722-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579400
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-CA6-230-722-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 2200K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20644 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

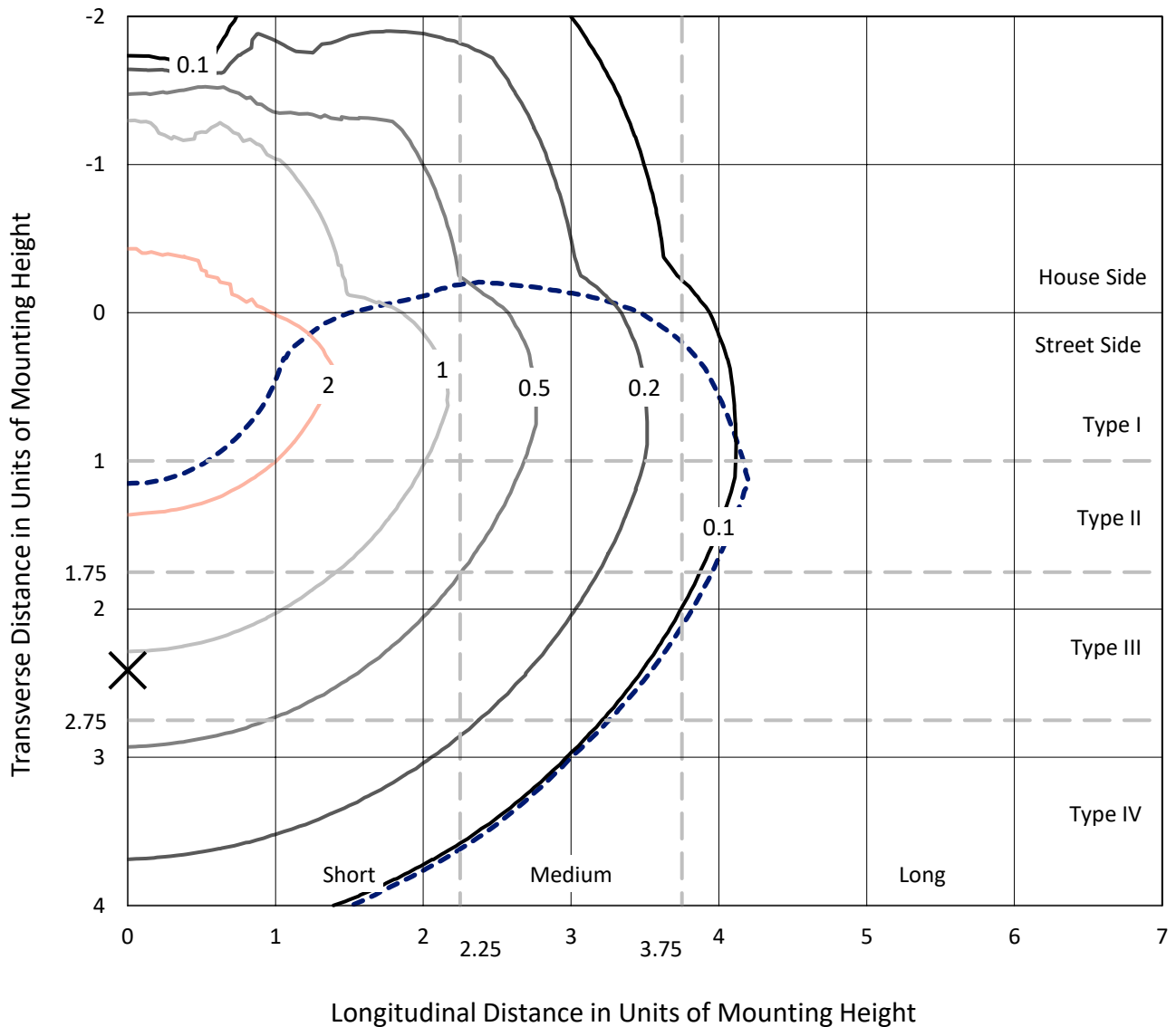
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

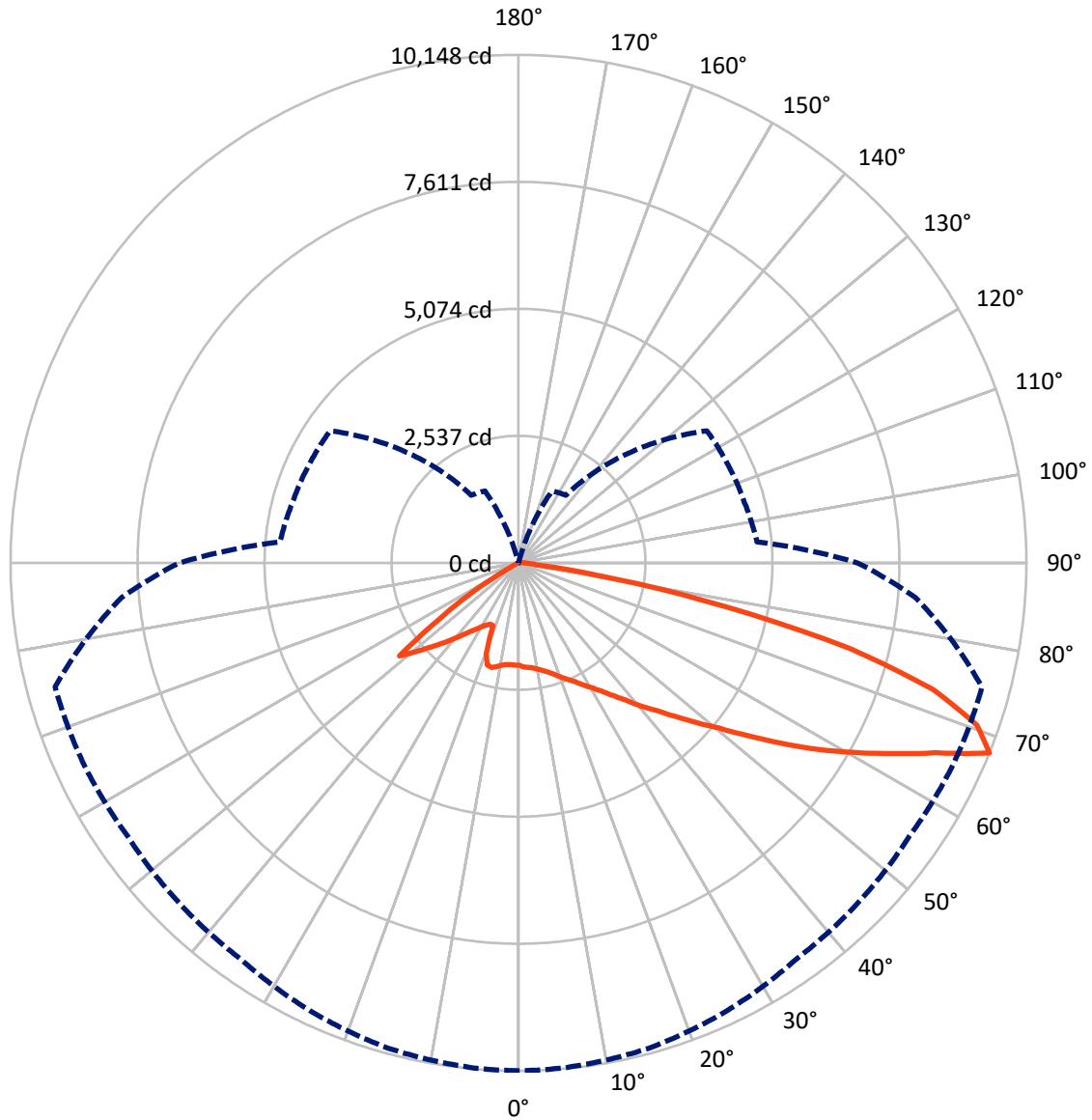
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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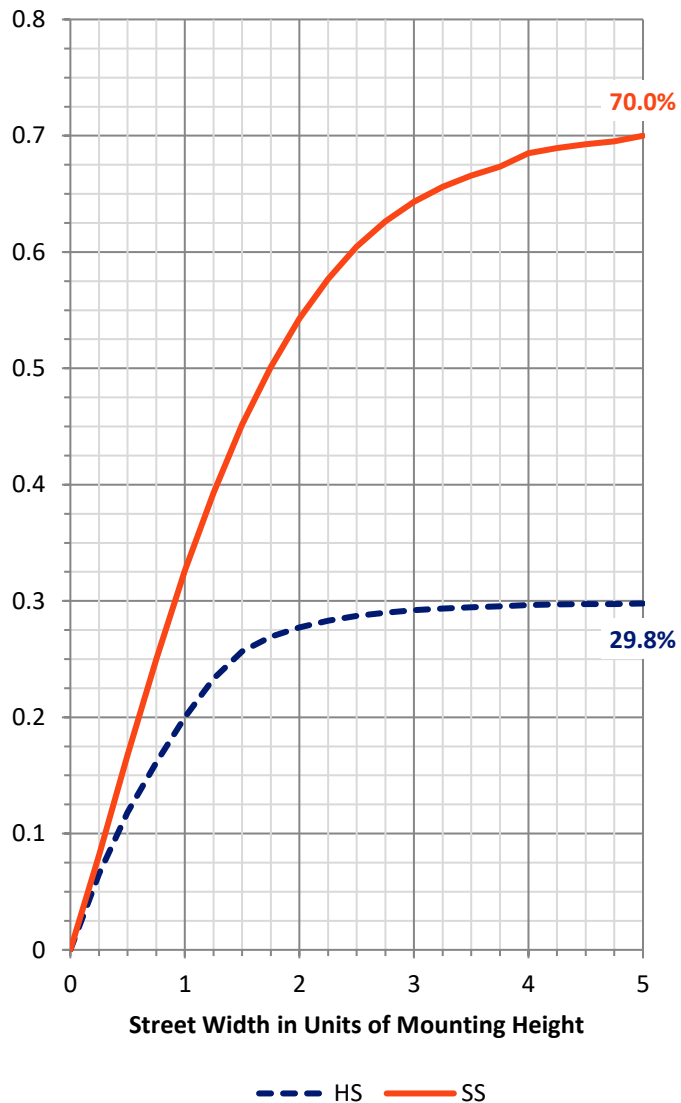
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6162.3	2.1	6164.4
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	14456.3	23.2	14479.6
	% Fixture	70.0	0.1	70.1
Total	Lumens	20618.7	25.3	20644.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.0
10°-20°	610.5	3.0
20°-30°	1024.6	5.0
30°-40°	1661.4	8.0
40°-50°	2714.9	13.2
50°-60°	4254.8	20.6
60°-70°	5698.5	27.6
70°-80°	4153.4	20.1
80°-90°	303.3	1.5
90°-100°	19.4	0.1
100°-110°	5.5	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°	20618.7	99.9
0°-180°	20644.0	100.0

Coefficient of Utilization

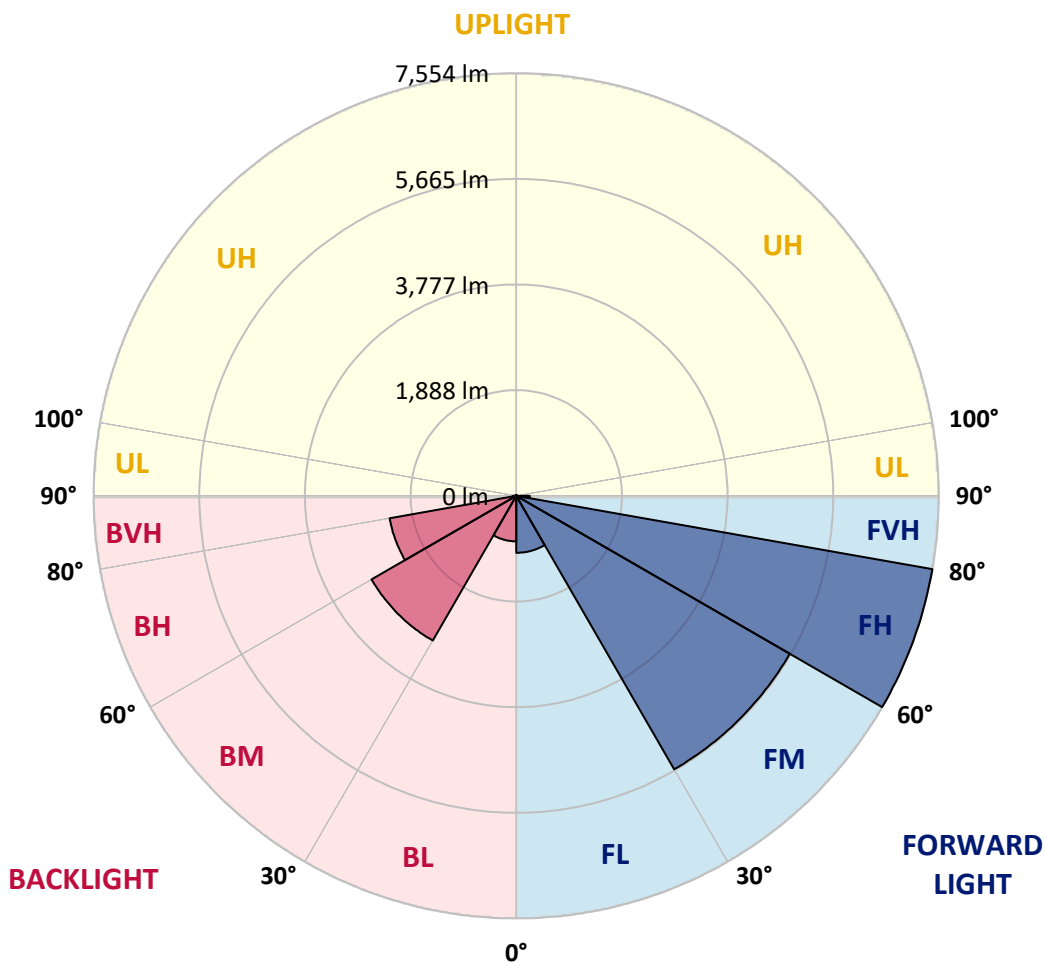


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.3	4.9			
FM (30°-60°)	5644.4	27.3			
FH (60°-80°)	7553.8	36.6			G4/12000
FVH (80°-90°)	239.9	1.2			G3/500
BL (0°-30°)	814.1	3.9	B2/1000		
BM (30°-60°)	2986.7	14.5	B3/5000		
BH (60°-80°)	2298.1	11.1	B3/2500		G3/2500
BVH (80°-90°)	63.5	0.3			G1/100
UL (90°-100°)	19.4	0.1		U2/50	
UH (100°-180°)	5.9	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°	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6
2.5°	2084.6	2072.5	2073.4	2084.6	2050.8	2062.1	2047.3	2058.6	2050.8	2053.4	2058.6
5°	2097.7	2084.6	2085.5	2099.4	2069.0	2078.6	2058.6	2064.7	2057.7	2061.2	2061.2
7.5°	2123.7	2108.9	2108.1	2116.8	2085.5	2089.0	2070.8	2071.6	2061.2	2068.1	2064.7
10°	2162.7	2150.6	2141.9	2147.1	2119.4	2117.6	2094.2	2095.1	2082.0	2089.8	2083.8
12.5°	2210.5	2194.0	2192.3	2194.0	2163.6	2156.7	2132.4	2134.1	2110.7	2122.8	2115.9
15°	2271.2	2245.2	2245.2	2254.7	2215.7	2210.5	2181.0	2182.7	2158.4	2168.0	2161.0
17.5°	2345.9	2320.7	2316.4	2323.3	2289.5	2282.5	2252.1	2250.4	2223.5	2226.1	2220.0
20°	2442.2	2417.0	2406.6	2424.0	2381.5	2376.2	2339.8	2336.3	2307.7	2299.9	2296.4
22.5°	2531.6	2511.6	2506.4	2525.5	2481.3	2476.9	2442.2	2437.9	2411.0	2399.7	2331.1
25°	2632.3	2627.9	2626.2	2632.3	2590.6	2581.9	2555.0	2549.0	2526.4	2512.5	2429.2
27.5°	2762.5	2760.7	2755.5	2756.4	2718.2	2710.4	2685.2	2680.9	2657.4	2641.8	2535.1
30°	2898.7	2898.7	2887.4	2893.5	2874.4	2862.3	2842.3	2826.7	2811.9	2795.4	2660.9
32.5°	3055.8	3054.9	3044.5	3062.7	3048.8	3048.8	3036.7	3020.2	2994.2	2986.4	2823.2
35°	3258.0	3245.0	3240.7	3270.2	3265.8	3273.6	3269.3	3251.9	3230.2	3212.0	3014.1
37.5°	3481.9	3478.4	3491.5	3509.7	3519.2	3540.1	3527.0	3526.2	3522.7	3476.7	2962.9
40°	3757.9	3743.2	3761.4	3770.9	3764.0	3797.8	3786.5	3796.1	3822.1	3452.4	2959.5
42.5°	4033.0	4020.0	4033.0	4079.9	4069.5	4110.3	4105.1	4142.4	4157.1	3503.6	3199.9
45°	4371.5	4356.7	4367.2	4422.7	4427.9	4477.4	4504.3	4539.9	4546.8	3835.1	3489.7
47.5°	4760.3	4736.0	4756.0	4782.0	4861.0	4907.8	4933.9	4977.3	5021.5	4234.4	3819.5
50°	5189.0	5187.3	5209.0	5254.1	5344.4	5391.2	5436.4	5481.5	5554.4	4679.6	4189.2
52.5°	5734.1	5722.8	5760.1	5802.6	5882.5	5954.5	6008.3	6055.2	6133.3	5130.0	4589.3
55°	6357.2	6318.1	6389.3	6461.3	6495.2	6580.2	6617.6	6656.6	6731.2	5603.9	4822.8
57.5°	7029.8	7020.3	7069.7	7095.8	7168.7	7221.6	7241.6	7284.1	7283.2	6096.8	5220.3
60°	7692.0	7681.6	7739.7	7755.3	7813.5	7861.2	7854.3	7892.5	7906.4	6559.4	5610.0
62.5°	8388.9	8371.5	8425.3	8428.8	8394.1	8471.3	8463.5	8495.6	8483.5	7011.6	5993.6
65°	9150.9	9163.9	9181.3	9110.1	9026.8	9093.6	9091.9	9152.6	9196.0	7643.4	6507.3
67.5°	10148.1	10131.6	10042.2	9870.4	9668.1	9600.4	9528.4	9572.7	9584.8	7957.6	6770.3
70°	9717.6	9681.2	9641.2	9465.9	9222.1	9050.2	8938.3	8985.1	9034.6	7520.1	6358.9
72.5°	8668.3	8578.1	8392.4	8237.9	8097.3	7929.8	7793.5	7875.1	7983.6	6670.5	5630.8
75°	6838.9	6754.7	6619.3	6514.3	6438.8	6437.0	6431.0	6494.3	6478.7	5416.4	4578.0
77.5°	4235.2	4411.4	4536.4	4447.0	4478.2	4414.0	4555.5	4638.8	4714.3	3882.9	3261.5
80°	1955.3	2000.5	2221.8	2164.5	2118.5	2105.5	2114.1	2259.1	2301.6	1742.7	1459.8
82.5°	446.1	427.9	443.5	411.4	409.6	390.5	393.1	393.1	379.3	321.1	269.0
85°	225.6	230.9	232.6	223.0	197.0	177.0	164.0	138.9	119.8	102.4	86.8
87.5°	151.0	155.3	158.0	144.9	130.2	113.7	103.3	84.2	66.8	41.7	32.1
90°	103.3	102.4	99.8	92.9	83.3	71.2	57.3	39.9	23.4	8.7	6.1
92.5°	73.8	72.0	71.2	65.1	58.1	48.6	37.3	25.2	13.0	6.1	3.5
95°	48.6	47.7	47.7	44.3	39.1	32.1	25.2	16.5	9.5	5.2	3.5
97.5°	33.8	33.0	33.0	31.2	27.8	23.4	17.4	11.3	7.8	5.2	3.5
100°	23.4	23.4	23.4	21.7	20.0	16.5	13.0	8.7	6.9	5.2	3.5
102.5°	15.6	15.6	16.5	15.6	13.9	11.3	8.7	6.9	6.1	4.3	3.5
105°	10.4	10.4	10.4	10.4	9.5	7.8	6.9	6.1	5.2	4.3	3.5
107.5°	6.9	6.9	6.9	6.9	6.1	5.2	5.2	5.2	4.3	4.3	3.5
110°	4.3	4.3	4.3	5.2	4.3	4.3	4.3	4.3	4.3	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°	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6	2045.6
2.5°	2054.3	2042.1	2048.2	2036.0	2030.8	2019.5	2041.2	2043.0	2041.2	2044.7
5°	2056.9	2043.0	2049.9	2036.0	2033.4	2020.4	2042.1	2042.1	2036.9	2039.5
7.5°	2062.9	2048.2	2053.4	2036.9	2036.9	2021.3	2047.3	2045.6	2041.2	2047.3
10°	2083.8	2066.4	2066.4	2050.8	2052.5	2036.0	2068.1	2068.1	2064.7	2075.1
12.5°	2115.9	2094.2	2095.1	2073.4	2076.8	2063.8	2102.9	2104.6	2104.6	2122.0
15°	2157.5	2124.6	2128.0	2104.6	2111.5	2095.9	2130.6	2128.9	2133.2	2158.4
17.5°	2208.7	2172.3	2141.9	2065.5	2020.4	2022.2	2125.4	2173.2	2117.6	2134.1
20°	2230.4	2053.4	1957.1	1929.3	1923.2	1826.9	1629.9	1660.2	1846.0	1926.7
22.5°	2084.6	2028.2	2018.7	1983.1	1720.1	1647.2	1659.4	1642.0	1459.8	1356.5
25°	2155.8	2118.5	2096.8	1783.5	1724.5	1711.5	1702.8	1537.9	1340.0	1349.5
27.5°	2256.5	2207.9	1947.5	1791.3	1802.6	1782.6	1732.3	1383.4	1377.3	1392.9
30°	2375.4	2253.0	1898.0	1883.3	1896.3	1870.3	1456.3	1442.4	1442.4	1458.0
32.5°	2521.2	2043.8	2014.3	2016.1	2007.4	1712.3	1532.7	1529.2	1539.6	1552.6
35°	2480.4	2180.1	2182.7	2197.5	2177.5	1675.0	1652.4	1639.4	1648.1	1653.3
37.5°	2400.5	2384.9	2384.9	2368.4	1859.0	1806.1	1781.8	1780.0	1779.1	1779.1
40°	2601.9	2587.1	2568.9	2540.3	1944.9	1958.8	1922.3	1918.0	1920.6	1930.2
42.5°	2831.0	2824.9	2823.2	2180.1	2123.7	2134.1	2095.1	2083.8	2083.8	2105.5
45°	3100.9	3093.1	2901.3	2330.2	2320.7	2332.9	2289.5	2262.6	2277.3	2292.9
47.5°	3410.8	3410.8	2568.9	2555.0	2555.0	2562.0	2518.6	2482.1	2496.9	2502.1
50°	3750.1	3219.8	2826.7	2813.7	2825.8	2822.3	2777.2	2438.7	2752.0	2754.6
52.5°	3844.7	3131.3	3109.6	3094.8	3109.6	3107.0	3060.1	2034.3	2976.8	3019.3
55°	3408.2	3410.8	3406.4	3384.7	3400.3	3394.3	3348.3	2220.9	2194.9	1956.2
57.5°	3685.0	3688.5	3686.7	3683.3	3697.2	2686.1	3468.0	2006.5	1225.4	1226.3
60°	3986.2	3968.8	3963.6	3955.8	3352.6	1904.1	1445.0	139.7	479.1	472.1
62.5°	4259.5	4253.5	4235.2	4230.9	2844.9	1499.7	1465.0	32.1	25.2	24.3
65°	4639.7	4585.9	4571.1	4525.1	3032.4	1596.9	1563.9	9.5	0.9	0.0
67.5°	4781.1	4671.8	4618.8	4594.5	3085.3	1647.2	1583.9	9.5	0.9	0.0
70°	4513.8	4378.4	4311.6	4284.7	2883.1	1539.6	1477.1	9.5	0.9	0.0
72.5°	4002.6	3902.8	3875.9	3790.0	2542.0	1351.3	1296.6	9.5	0.0	0.0
75°	3283.2	3246.7	3213.7	3122.6	2066.4	1073.6	1025.0	8.7	0.0	0.0
77.5°	2389.3	2335.5	2274.7	2175.8	1394.7	701.2	676.1	7.8	0.0	0.0
80°	1077.0	1032.8	1018.0	863.5	494.7	228.3	201.3	6.9	0.0	0.0
82.5°	209.2	188.3	178.8	171.8	111.1	61.6	53.8	5.2	0.0	0.0
85°	71.2	79.0	92.0	101.5	62.5	37.3	31.2	3.5	0.0	0.0
87.5°	27.8	37.3	45.1	46.9	23.4	15.6	8.7	1.7	0.0	0.0
90°	5.2	6.9	6.1	4.3	2.6	0.9	0.0	0.0	0.0	0.0
92.5°	2.6	3.5	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0
95°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
97.5°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
100°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
102.5°	3.5	3.5	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
105°	3.5	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
107.5°	3.5	4.3	3.5	2.6	1.7	0.9	0.0	0.0	0.0	0.0
110°	3.5	4.3	3.5	2.6	1.7	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)