

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: P579378

Luminaire Tested: **CTN-CA10-210-722-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579378
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: McGRAW-EDISON
Catalog Number: CTN-CA10-210-722-U-T5-HSS-HM-EX90
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: 22964 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

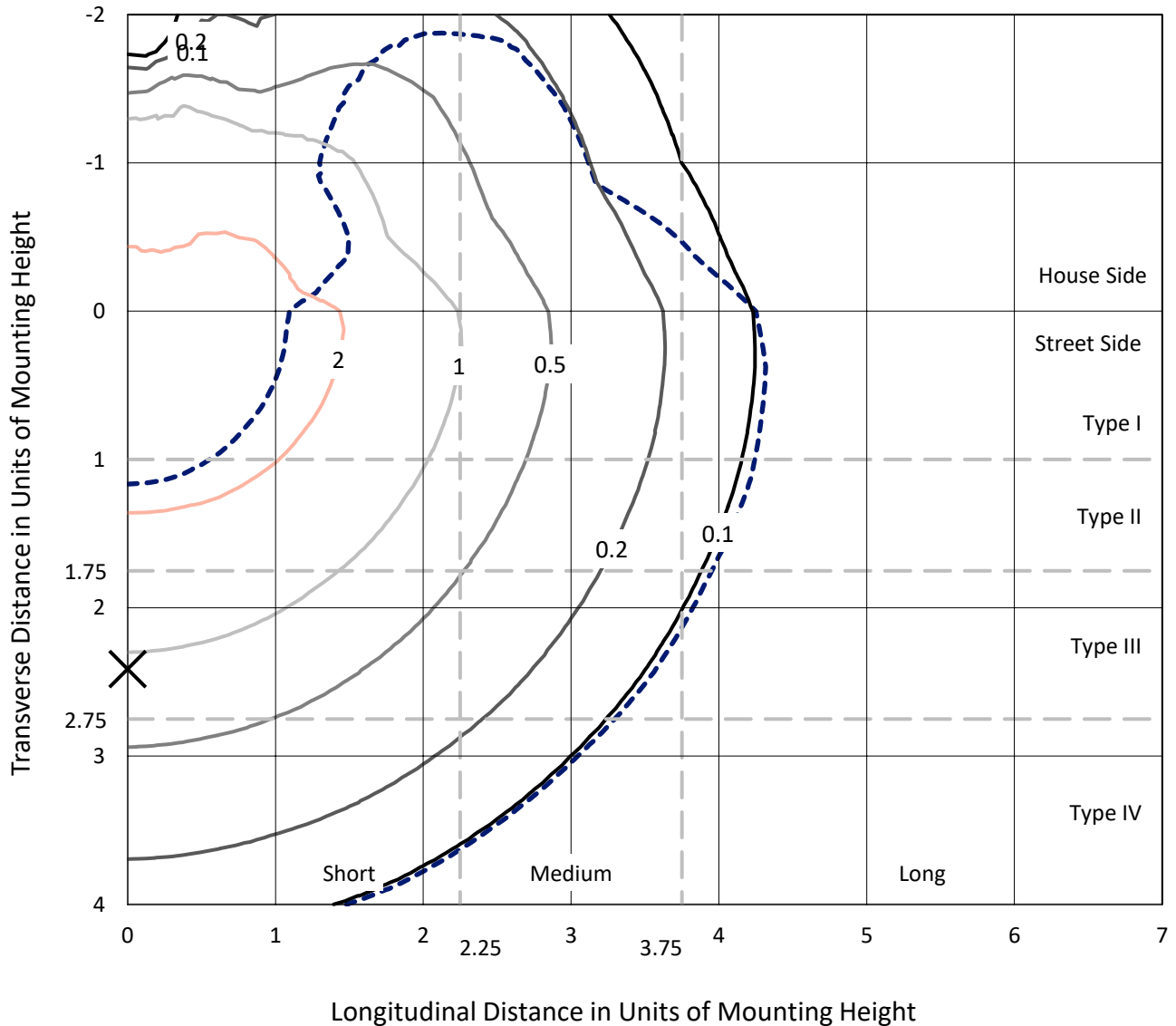
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

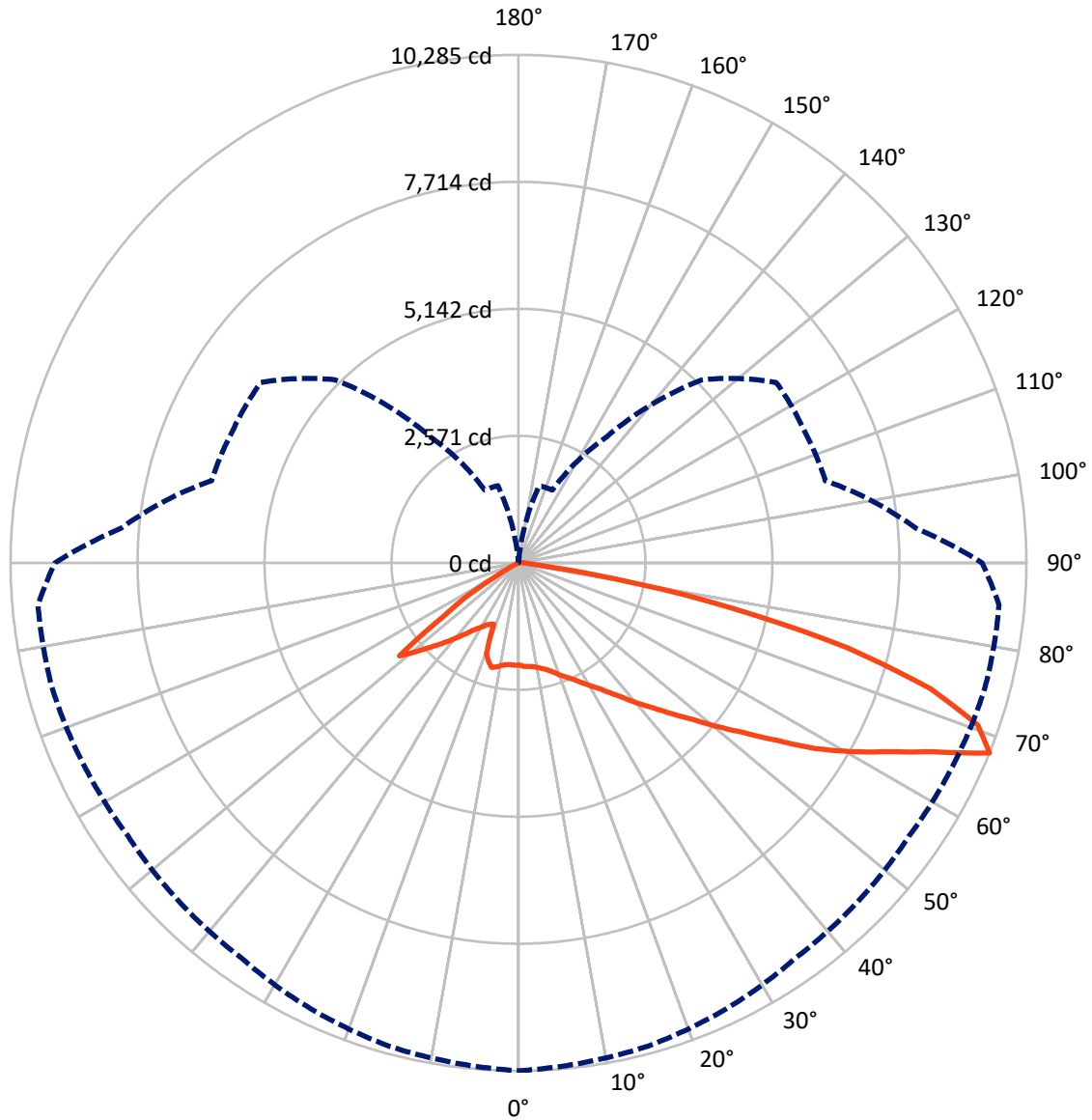
× Max cd
 - - - 1/2 Max cd



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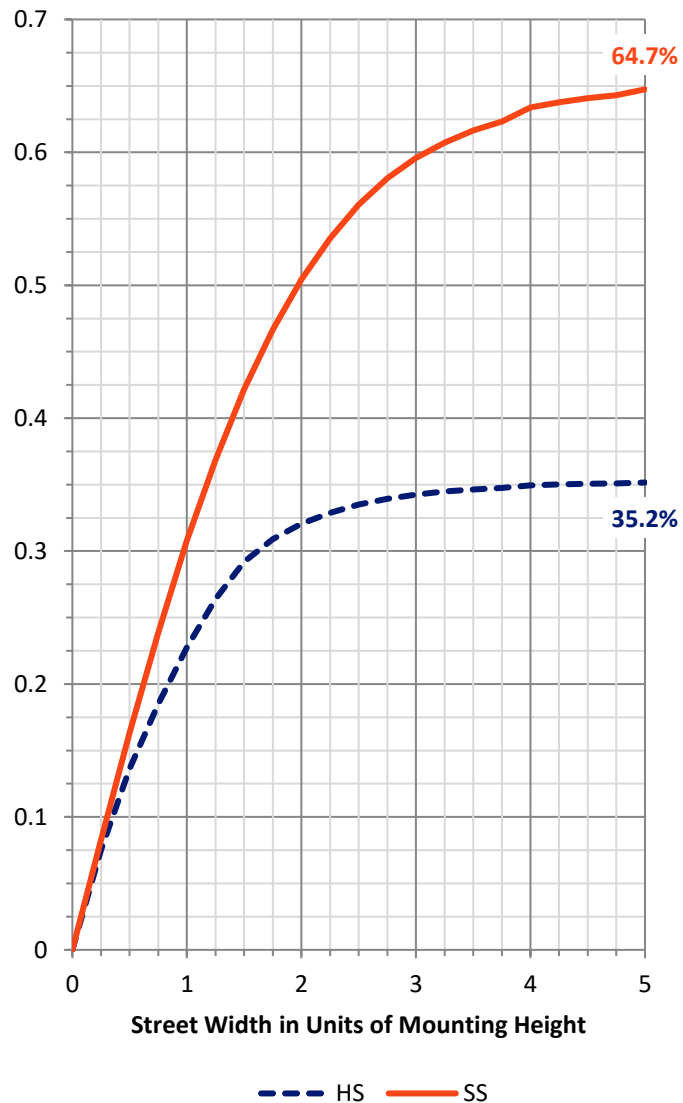
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8083.3	0.5	8083.8
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	14864.0	16.2	14880.2
	% Fixture	64.7	0.1	64.8
Total	Lumens	22947.3	16.7	22964.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	0.9
10°-20°	618.5	2.7
20°-30°	1072.3	4.7
30°-40°	1759.5	7.7
40°-50°	2934.8	12.8
50°-60°	4749.6	20.7
60°-70°	6556.0	28.5
70°-80°	4729.9	20.6
80°-90°	327.8	1.4
90°-100°	14.2	0.1
100°-110°	2.4	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°	22947.3	99.9
0°-180°	22964.0	100.0

Coefficient of Utilization

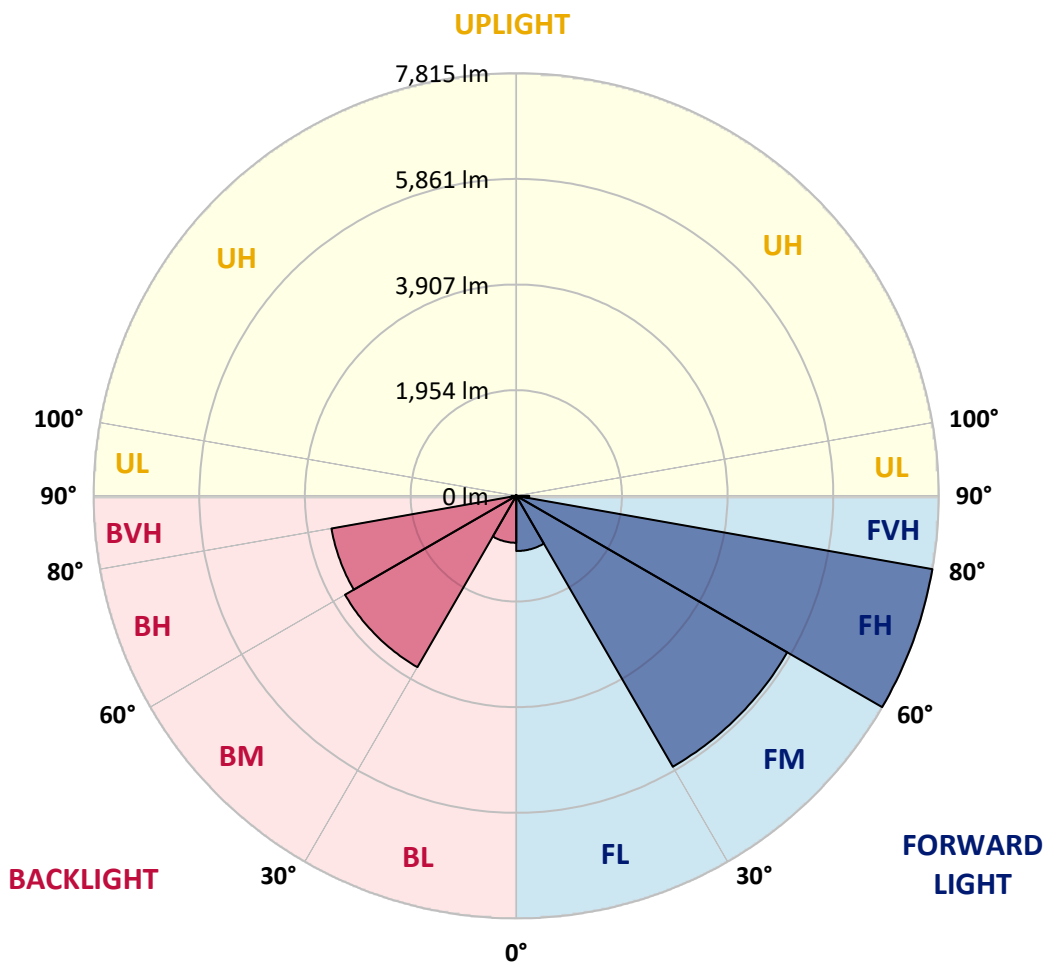


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.2	4.4			
FM (30°-60°)	5786.3	25.2			
FH (60°-80°)	7815.0	34.0			G4/12000
FVH (80°-90°)	241.6	1.1			G3/500
BL (0°-30°)	868.7	3.8	B2/1000		
BM (30°-60°)	3657.5	15.9	B3/5000		
BH (60°-80°)	3470.9	15.1	B4/5000		G4/5000
BVH (80°-90°)	86.3	0.4			G1/100
UL (90°-100°)	14.2	0.1		U2/50	
UH (100°-180°)	2.5	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°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2101.1	2088.8	2089.7	2102.0	2068.6	2080.9	2066.8	2079.1	2073.0	2077.4	2082.6
5°	2107.3	2092.3	2094.1	2109.0	2082.6	2092.3	2075.6	2082.6	2077.4	2082.6	2083.5
7.5°	2123.1	2108.1	2109.0	2120.4	2093.2	2100.2	2084.4	2087.9	2079.1	2088.8	2086.2
10°	2156.5	2142.4	2137.2	2146.8	2123.1	2124.0	2105.5	2109.0	2095.8	2109.0	2103.7
12.5°	2201.3	2182.0	2183.7	2189.0	2160.0	2161.8	2139.8	2145.1	2123.1	2141.5	2135.4
15°	2255.8	2232.1	2234.7	2243.5	2215.4	2212.8	2192.5	2192.5	2173.2	2187.3	2181.1
17.5°	2331.4	2305.1	2303.3	2309.5	2286.6	2286.6	2263.7	2261.1	2241.8	2253.2	2251.4
20°	2429.9	2400.0	2394.7	2406.2	2377.2	2380.7	2351.7	2349.0	2327.9	2335.0	2335.8
22.5°	2518.7	2495.0	2494.1	2511.7	2477.4	2481.8	2455.4	2448.4	2430.8	2440.4	2443.1
25°	2620.7	2617.2	2614.5	2620.7	2586.4	2586.4	2567.9	2561.8	2550.3	2557.4	2564.4
27.5°	2749.0	2747.3	2740.2	2741.1	2712.1	2716.5	2696.3	2692.8	2687.5	2686.6	2683.1
30°	2890.6	2882.6	2873.0	2879.1	2865.9	2870.3	2852.8	2841.3	2839.6	2840.4	2835.2
32.5°	3047.9	3037.4	3031.2	3041.8	3047.0	3059.4	3058.5	3026.8	3026.8	3040.0	3016.3
35°	3243.1	3226.4	3231.7	3245.7	3256.3	3287.9	3282.6	3260.7	3267.7	3273.9	3245.7
37.5°	3472.5	3461.1	3484.8	3511.2	3512.1	3556.9	3546.4	3551.7	3550.8	3542.9	3524.4
40°	3747.7	3729.2	3753.9	3774.1	3761.8	3815.4	3813.6	3837.4	3853.2	3880.5	3869.9
42.5°	4021.1	4007.0	4030.8	4074.7	4067.7	4129.2	4138.0	4175.0	4196.9	4239.1	4214.5
45°	4357.8	4349.9	4371.9	4406.2	4429.9	4511.7	4544.2	4560.0	4615.4	4666.4	4609.2
47.5°	4735.0	4745.5	4742.0	4804.4	4857.2	4956.5	4969.7	5020.7	5069.0	5125.3	5069.9
50°	5204.4	5186.8	5202.7	5262.4	5348.6	5420.7	5488.4	5561.3	5608.8	5666.8	5564.9
52.5°	5709.9	5724.9	5760.0	5852.3	5915.6	6000.9	6062.4	6149.5	6196.1	6246.2	6113.4
55°	6347.3	6359.6	6398.3	6493.2	6538.0	6634.7	6676.9	6764.0	6808.8	6830.8	6661.1
57.5°	7094.5	7053.2	7084.9	7134.1	7203.5	7308.2	7319.6	7401.3	7401.3	7429.5	7213.2
60°	7761.8	7733.7	7767.1	7837.4	7864.6	7959.6	7949.9	8016.7	8034.3	8013.2	7754.8
62.5°	8419.4	8424.6	8467.7	8490.6	8480.0	8536.3	8559.2	8629.5	8600.5	8607.5	8309.5
65°	9217.6	9229.9	9225.5	9183.3	9088.4	9199.2	9193.0	9304.6	9311.7	9375.0	9028.6
67.5°	10284.9	10230.4	10131.0	9961.4	9773.2	9708.2	9651.0	9706.4	9777.6	9766.2	9386.4
70°	9869.9	9781.1	9729.3	9581.6	9330.1	9200.0	9081.4	9091.0	9194.8	9204.4	8815.9
72.5°	8725.3	8680.5	8480.9	8351.7	8179.4	8079.2	7935.9	7968.4	8103.8	8126.6	7817.2
75°	6882.7	6841.3	6661.1	6618.9	6533.7	6582.9	6547.7	6560.9	6669.9	6569.7	6384.2
77.5°	4454.5	4464.2	4436.1	4531.9	4528.4	4531.0	4659.4	4672.5	4778.9	4717.4	4538.0
80°	1997.4	2026.4	2095.0	2233.9	2149.5	2195.2	2244.4	2229.5	2336.7	2094.1	2181.1
82.5°	404.4	418.5	394.7	412.3	385.1	399.1	419.3	388.6	385.1	356.9	331.4
85°	208.4	211.0	210.1	205.7	181.1	167.0	160.9	135.4	122.2	119.6	110.8
87.5°	135.4	137.1	132.7	131.9	116.0	106.4	94.9	80.0	66.8	46.6	38.7
90°	82.6	82.6	78.2	73.8	65.9	58.9	47.5	34.3	20.2	7.9	4.4
92.5°	55.4	55.4	53.6	51.0	45.7	39.6	30.8	20.2	9.7	3.5	1.8
95°	35.2	35.2	34.3	33.4	29.9	25.5	19.3	12.3	6.2	2.6	0.9
97.5°	22.9	22.9	22.9	22.0	20.2	17.6	13.2	7.9	4.4	1.8	0.9
100°	14.1	14.9	14.1	14.1	13.2	11.4	8.8	5.3	3.5	1.8	0.9
102.5°	7.9	7.9	8.8	8.8	7.9	7.0	5.3	4.4	2.6	1.8	0.9
105°	3.5	3.5	4.4	4.4	4.4	3.5	3.5	2.6	1.8	1.8	0.9
107.5°	0.9	0.9	0.9	1.8	2.6	2.6	2.6	2.6	1.8	0.9	0.9
110°	0.0	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8	0.9	0.9



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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°	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2077.4	2066.8	2074.7	2061.5	2058.0	2046.6	2068.6	2072.1	2070.3	2073.9
5°	2079.1	2065.9	2075.6	2062.4	2061.5	2049.2	2072.1	2073.0	2066.8	2069.5
7.5°	2084.4	2072.1	2079.1	2064.2	2065.9	2051.0	2077.4	2076.5	2073.0	2079.1
10°	2103.7	2089.7	2092.3	2076.5	2080.9	2065.1	2097.6	2099.3	2095.8	2107.3
12.5°	2137.2	2117.8	2124.0	2105.5	2109.0	2093.2	2132.8	2135.4	2135.4	2153.9
15°	2182.9	2162.6	2175.8	2152.1	2153.0	2129.2	2159.1	2159.1	2162.6	2188.1
17.5°	2249.7	2225.1	2242.6	2220.7	2083.5	2031.7	2133.6	2196.1	2092.3	2083.5
20°	2332.3	2320.9	2330.6	2294.5	2072.1	1834.7	1650.1	1640.4	1845.3	1947.3
22.5°	2433.4	2422.0	2426.4	2380.7	1849.7	1682.6	1680.0	1662.4	1406.6	1336.3
25°	2552.1	2545.9	2536.3	2153.0	1912.1	1752.1	1731.0	1501.5	1354.7	1367.9
27.5°	2679.6	2661.1	2335.0	2236.5	2007.9	1821.5	1702.0	1402.2	1396.9	1409.2
30°	2822.0	2724.4	2390.3	2356.9	2119.6	1907.7	1481.3	1463.7	1463.7	1483.1
32.5°	3003.1	2544.2	2544.2	2526.6	2257.6	1674.7	1559.6	1549.0	1561.3	1569.2
35°	2975.8	2736.7	2764.8	2756.9	2444.8	1705.5	1685.3	1667.7	1670.3	1670.3
37.5°	2984.6	2994.3	3027.7	2993.4	2132.8	1839.1	1806.6	1803.1	1805.7	1811.9
40°	3260.7	3265.9	3278.3	3202.6	2291.9	1994.7	1949.9	1941.1	1949.9	1963.1
42.5°	3557.8	3572.8	3586.8	2912.5	2514.3	2171.4	2126.6	2109.9	2125.7	2139.8
45°	3909.5	3932.3	3716.9	3170.1	2765.7	2372.8	2325.3	2305.1	2314.7	2327.0
47.5°	4305.1	4341.1	3505.1	3498.0	3061.1	2611.0	2556.5	2517.8	2532.8	2531.9
50°	4751.7	4148.6	3872.5	3868.1	3390.8	2876.5	2820.2	2785.1	2796.5	2787.7
52.5°	5234.3	4262.0	4270.8	4269.9	3735.4	3162.2	3110.3	3066.4	2975.8	3059.4
55°	5728.4	4654.1	4687.5	4682.2	4096.7	3457.6	3402.2	3360.9	2196.1	1855.0
57.5°	6219.8	5063.8	5074.3	5086.6	4471.2	3742.4	3498.9	3214.1	1252.8	1246.6
60°	6705.1	5454.1	5475.2	5482.2	4673.4	3098.0	1430.3	1456.7	378.9	452.7
62.5°	7207.9	5839.1	5858.5	5852.3	4874.7	2880.9	1502.4	1472.5	35.2	32.5
65°	7849.7	6321.8	6294.5	6274.3	5192.1	3074.3	1614.1	1606.2	11.4	7.9
67.5°	8074.8	6431.7	6376.3	6369.3	5237.8	3115.6	1622.9	1616.7	11.4	7.9
70°	7564.9	6014.1	5919.1	5921.8	4873.9	2914.3	1513.9	1505.1	10.5	7.9
72.5°	6625.1	5311.7	5272.1	5062.9	4220.7	2563.5	1342.4	1309.0	10.5	7.0
75°	5439.1	4291.0	4203.1	3968.4	3359.1	2037.8	1054.1	1011.0	9.7	6.2
77.5°	3775.8	3009.2	2841.3	2602.2	2247.0	1351.2	708.6	653.2	8.8	6.2
80°	1711.7	1235.2	1241.3	951.2	762.2	458.0	225.1	204.0	7.9	5.3
82.5°	298.0	219.8	206.6	199.6	166.2	112.5	68.6	58.9	7.0	3.5
85°	103.7	83.5	92.3	109.0	96.7	67.7	42.2	40.4	4.4	1.8
87.5°	35.2	36.9	43.1	51.9	45.7	26.4	15.8	11.4	0.9	0.0
90°	3.5	4.4	4.4	4.4	2.6	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.9	0.9	0.9	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)