

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: P436912

Luminaire Tested: **TT-D6-830-U-5CQ-PM-HSS**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P436912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D6-830-U-5CQ-PM-HSS  
Description: TOPTIER LED SITE LUMINAIRE  
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

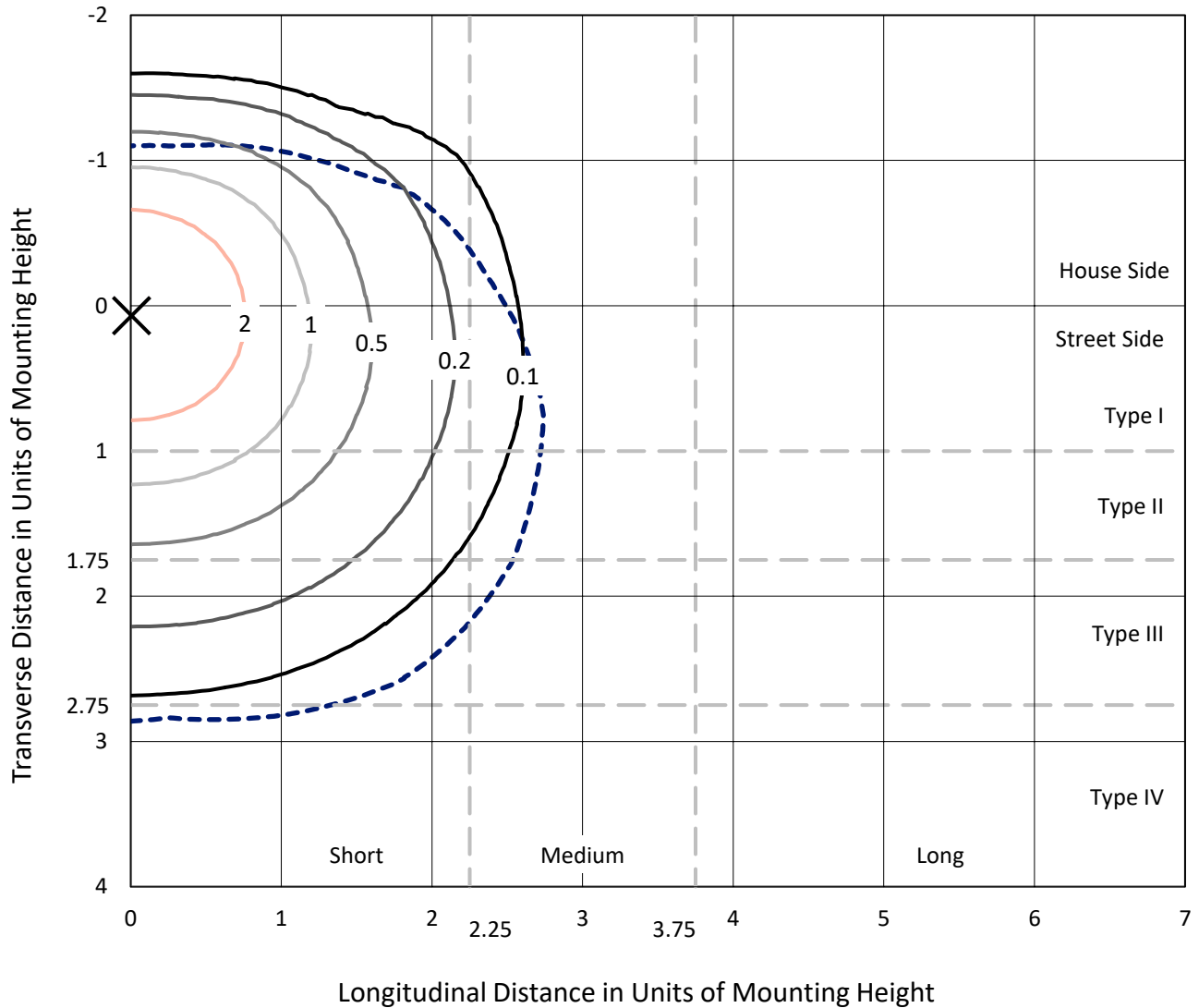
Lumens per Lamp: N/A  
Luminaire Lumens: 9334.2 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G2  
  
Input Watts (W): 105.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

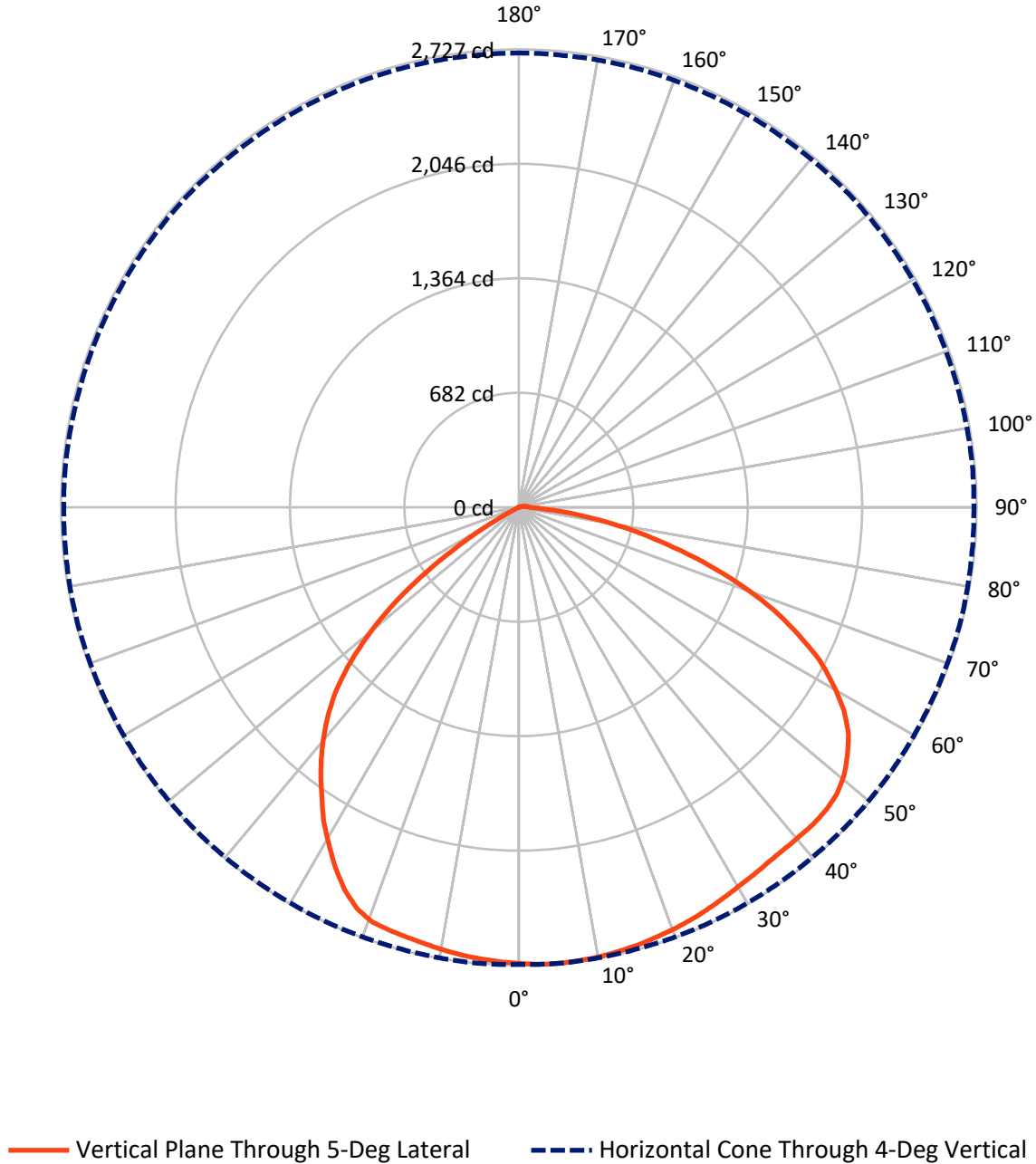
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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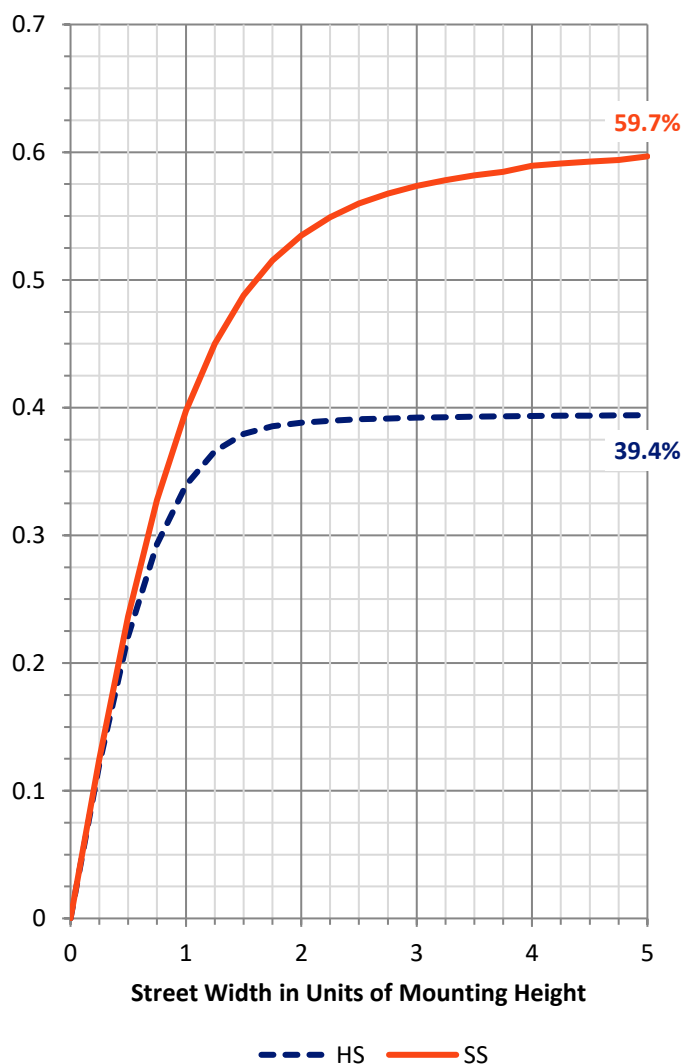
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3699.0	4.9	3703.9
	% Fixture	39.6	0.1	39.7
<b>Street Side</b>	Lumens	5604.2	26.1	5630.3
	% Fixture	60.0	0.3	60.3
<b>Total</b>	Lumens	9303.2	31.0	9334.2
	% Fixture	99.7	0.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.4	2.8
10°-20°	756.6	8.1
20°-30°	1192.2	12.8
30°-40°	1517.3	16.3
40°-50°	1752.4	18.8
50°-60°	1715.9	18.4
60°-70°	1278.0	13.7
70°-80°	692.2	7.4
80°-90°	140.3	1.5
90°-100°	17.8	0.2
100°-110°	7.0	0.1
110°-120°	2.0	0.0
120°-130°	1.4	0.0
130°-140°	1.1	0.0
140°-150°	0.8	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	9303.2	99.7
0°-180°	9334.2	100.0

**Coefficient of Utilization**



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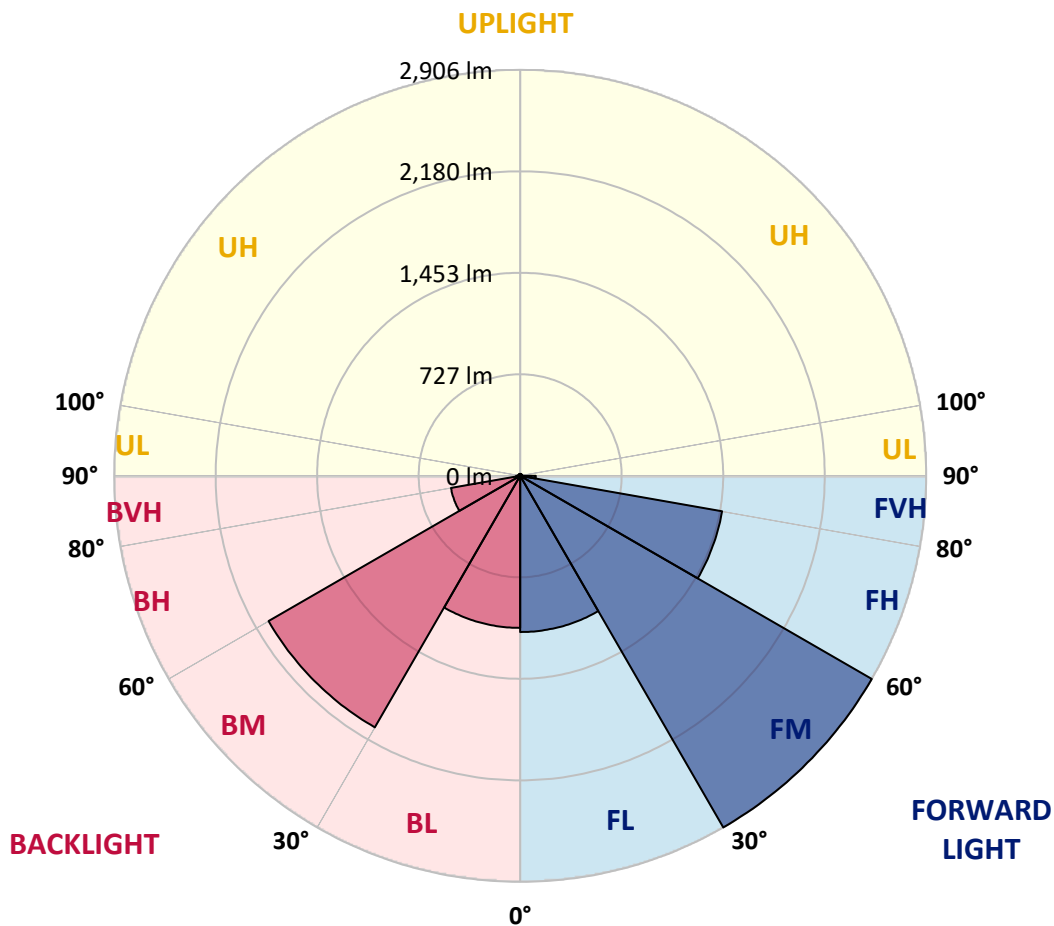
CATALOG NUMBER: TT-D6-830-U-5CQ-PM-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.4	12.0			
FM (30°-60°)	2906.2	31.1			
FH (60°-80°)	1467.5	15.7			G1/1800
FVH (80°-90°)	112.0	1.2			G2/225
BL (0°-30°)	1088.7	11.7	B3/2500		
BM (30°-60°)	2079.4	22.3	B2/2500		
BH (60°-80°)	502.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	28.3	0.3			G1/100
UL (90°-100°)	17.8	0.2		U2/50	
UH (100°-180°)	13.2	0.1		U2/50	

**BUG Rating: B3-U2-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6
2.5°	2722.1	2725.6	2723.9	2723.9	2720.3	2722.1	2720.3	2720.3	2718.6	2716.8	2716.8
4°	2723.9	2727.4	2723.9	2723.9	2722.1	2722.1	2720.3	2716.8	2718.6	2713.3	2711.6
5°	2725.6	2727.4	2725.6	2725.6	2722.1	2720.3	2716.8	2716.8	2715.1	2711.6	2711.6
7.5°	2722.1	2723.9	2723.9	2722.1	2718.6	2715.1	2713.3	2711.6	2709.8	2704.6	2704.6
10°	2715.1	2718.6	2715.1	2715.1	2713.3	2709.8	2704.6	2702.8	2697.5	2694.0	2692.3
12.5°	2708.1	2709.8	2708.1	2708.1	2704.6	2699.3	2697.5	2694.0	2687.0	2681.7	2681.7
15°	2697.5	2701.0	2699.3	2697.5	2695.8	2690.5	2685.2	2680.0	2674.7	2669.5	2669.5
17.5°	2685.2	2687.0	2688.8	2687.0	2683.5	2680.0	2674.7	2667.7	2662.4	2657.2	2655.4
20°	2671.2	2674.7	2674.7	2674.7	2671.2	2667.7	2660.7	2653.7	2650.1	2643.1	2641.4
22.5°	2657.2	2660.7	2658.9	2660.7	2658.9	2653.7	2646.6	2639.6	2632.6	2627.3	2623.8
25°	2643.1	2643.1	2643.1	2643.1	2643.1	2636.1	2629.1	2620.3	2613.3	2604.5	2604.5
27.5°	2625.6	2625.6	2627.3	2627.3	2625.6	2620.3	2611.5	2601.0	2590.5	2581.7	2578.2
30°	2609.8	2608.0	2611.5	2615.0	2613.3	2608.0	2597.5	2585.2	2569.4	2557.1	2546.6
32.5°	2590.5	2595.7	2599.2	2606.3	2608.0	2601.0	2588.7	2572.9	2557.1	2534.3	2515.0
35°	2583.5	2583.5	2592.2	2602.8	2606.3	2602.8	2585.2	2567.7	2544.8	2511.5	2488.7
37.5°	2576.4	2578.2	2592.2	2608.0	2613.3	2613.3	2594.0	2571.2	2539.6	2492.2	2464.1
40°	2572.9	2576.4	2594.0	2616.8	2630.8	2629.1	2606.3	2578.2	2539.6	2478.2	2443.0
42.5°	2569.4	2576.4	2595.7	2627.3	2648.4	2646.6	2622.1	2585.2	2536.1	2460.6	2420.2
45°	2564.1	2569.4	2595.7	2636.1	2664.2	2669.5	2641.4	2594.0	2536.1	2444.8	2392.2
47.5°	2548.4	2550.1	2585.2	2632.6	2674.7	2681.7	2653.7	2597.5	2529.0	2418.5	2357.1
50°	2506.2	2511.5	2551.9	2615.0	2664.2	2674.7	2650.1	2588.7	2511.5	2374.6	2300.9
52.5°	2451.8	2451.8	2501.0	2571.2	2630.8	2648.4	2625.6	2557.1	2467.6	2309.7	2225.4
55°	2371.1	2383.4	2434.3	2508.0	2572.9	2597.5	2565.9	2499.2	2395.7	2227.2	2134.2
57.5°	2279.8	2283.3	2336.0	2423.7	2490.4	2506.2	2479.9	2400.9	2300.9	2128.9	2018.3
60°	2148.2	2155.2	2221.9	2299.1	2371.1	2392.2	2358.8	2279.8	2174.5	2002.5	1890.2
62.5°	2002.5	2013.1	2072.7	2151.7	2220.2	2253.5	2213.1	2130.6	2027.1	1851.6	1753.3
65°	1827.0	1830.5	1895.5	1985.0	2053.4	2065.7	2030.6	1949.9	1846.3	1677.8	1590.1
67.5°	1625.2	1642.7	1705.9	1772.6	1832.3	1846.3	1821.8	1728.7	1646.2	1497.1	1411.1
70°	1430.4	1421.6	1474.3	1540.9	1595.4	1607.6	1579.6	1493.6	1416.3	1275.9	1209.2
72.5°	1195.2	1188.2	1244.3	1295.2	1347.9	1340.9	1312.8	1244.3	1177.6	1058.3	996.9
75°	958.3	951.2	995.1	1039.0	1065.3	1068.8	1049.5	998.6	926.7	833.7	786.3
77.5°	726.6	733.6	752.9	789.8	814.3	824.9	791.5	740.6	695.0	623.0	587.9
80°	517.7	519.5	526.5	552.8	570.4	570.4	554.6	514.2	463.3	412.4	394.9
82.5°	326.4	333.5	333.5	359.8	359.8	345.7	338.7	312.4	286.1	245.7	221.1
85°	179.0	175.5	186.0	187.8	186.0	175.5	165.0	149.2	131.6	103.5	93.0
87.5°	79.0	77.2	77.2	77.2	75.5	68.4	57.9	45.6	31.6	19.3	14.0
90°	61.4	61.4	59.7	56.2	50.9	45.6	36.9	28.1	17.6	7.0	3.5
92.5°	56.2	56.2	54.4	52.7	47.4	42.1	33.3	24.6	15.8	7.0	3.5
95°	49.1	47.4	47.4	43.9	40.4	35.1	29.8	21.1	14.0	5.3	3.5
97.5°	40.4	38.6	38.6	36.9	33.3	28.1	24.6	17.6	12.3	5.3	3.5
100°	29.8	31.6	29.8	28.1	26.3	22.8	19.3	14.0	8.8	3.5	3.5
102.5°	22.8	22.8	21.1	21.1	19.3	17.6	14.0	10.5	7.0	3.5	1.8
105°	15.8	15.8	15.8	14.0	14.0	12.3	10.5	7.0	5.3	3.5	1.8
107.5°	8.8	8.8	8.8	8.8	8.8	8.8	7.0	5.3	3.5	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	5.3	5.3	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	1.8
112.5°	1.8	1.8	3.5	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8
115°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
117.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
120°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
122.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
125°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
127.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
130°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
132.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
135°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
137.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
140°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
142.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
145°	1.8	1.8	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
147.5°	1.8	1.8	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
150°	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
152.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
155°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
160°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
165°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
170°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
177.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6
2.5°	2715.1	2709.8	2713.3	2711.6	2713.3	2709.8	2709.8	2709.8	2711.6	2708.1
4°	2713.3	2709.8	2709.8	2709.8	2709.8	2706.3	2706.3	2706.3	2704.6	2706.3
5°	2709.8	2708.1	2706.3	2704.6	2706.3	2702.8	2701.0	2701.0	2701.0	2702.8
7.5°	2702.8	2697.5	2697.5	2692.3	2694.0	2692.3	2690.5	2692.3	2690.5	2690.5
10°	2690.5	2687.0	2685.2	2681.7	2681.7	2678.2	2676.5	2676.5	2676.5	2674.7
12.5°	2678.2	2674.7	2673.0	2669.5	2667.7	2664.2	2662.4	2664.2	2660.7	2660.7
15°	2664.2	2660.7	2658.9	2658.9	2655.4	2651.9	2650.1	2646.6	2646.6	2646.6
17.5°	2651.9	2648.4	2650.1	2646.6	2644.9	2641.4	2641.4	2634.4	2634.4	2632.6
20°	2639.6	2636.1	2636.1	2634.4	2634.4	2630.8	2625.6	2622.1	2620.3	2620.3
22.5°	2623.8	2618.6	2609.8	2597.5	2590.5	2585.2	2583.5	2578.2	2576.4	2572.9
25°	2599.2	2585.2	2565.9	2544.8	2523.8	2513.3	2509.7	2502.7	2502.7	2502.7
27.5°	2569.4	2543.1	2516.8	2485.2	2453.6	2432.5	2418.5	2411.5	2407.9	2407.9
30°	2530.8	2497.5	2460.6	2420.2	2385.1	2346.5	2321.9	2307.9	2300.9	2302.6
32.5°	2495.7	2453.6	2411.5	2360.6	2313.2	2267.5	2225.4	2204.4	2195.6	2192.1
35°	2460.6	2413.2	2362.3	2307.9	2246.5	2179.8	2123.6	2092.0	2074.5	2076.2
37.5°	2434.3	2378.1	2321.9	2255.3	2185.1	2104.3	2032.4	1981.5	1960.4	1963.9
40°	2406.2	2343.0	2281.6	2204.4	2121.9	2025.3	1932.3	1863.9	1839.3	1834.0
42.5°	2379.9	2306.2	2236.0	2153.5	2049.9	1941.1	1827.0	1746.3	1709.4	1704.2
45°	2346.5	2264.0	2188.6	2093.8	1979.7	1844.6	1711.2	1605.9	1567.3	1551.5
47.5°	2302.6	2211.4	2127.1	2018.3	1893.7	1741.0	1574.3	1444.4	1395.3	1383.0
50°	2237.7	2132.4	2046.4	1923.5	1772.6	1604.1	1418.1	1258.4	1193.4	1184.7
52.5°	2151.7	2044.6	1948.1	1807.7	1623.4	1425.1	1214.5	1049.5	974.1	968.8
55°	2048.2	1932.3	1827.0	1669.1	1453.2	1223.3	1003.9	795.0	721.3	712.6
57.5°	1927.1	1807.7	1693.6	1498.8	1249.6	993.4	738.9	538.8	468.6	451.1
60°	1793.7	1670.8	1542.7	1305.8	975.8	703.8	447.5	286.1	233.4	215.9
62.5°	1663.8	1530.4	1395.3	1075.9	668.7	401.9	203.6	82.5	52.7	50.9
65°	1511.1	1384.7	1246.1	867.0	423.0	180.8	59.7	1.8	0.0	0.0
67.5°	1333.8	1226.8	1103.9	775.7	373.8	158.0	50.9	1.8	0.0	0.0
70°	1144.3	1060.1	951.2	666.9	321.2	133.4	43.9	0.0	0.0	0.0
72.5°	944.2	872.3	791.5	554.6	266.8	110.6	35.1	0.0	0.0	0.0
75°	740.6	695.0	623.0	438.8	207.1	84.2	26.3	0.0	0.0	0.0
77.5°	549.3	512.5	459.8	322.9	156.2	61.4	19.3	0.0	0.0	0.0
80°	370.3	342.2	312.4	219.4	105.3	40.4	12.3	0.0	0.0	0.0
82.5°	215.9	194.8	175.5	124.6	57.9	22.8	5.3	0.0	0.0	0.0
85°	87.8	80.7	77.2	52.7	22.8	7.0	1.8	0.0	0.0	0.0
87.5°	10.5	8.8	8.8	5.3	1.8	0.0	0.0	0.0	0.0	0.0
90°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
95°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
97.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
100°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
102.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
105°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
107.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
112.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
115°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
117.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
120°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
122.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
125°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
127.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
130°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
132.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
135°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
140°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
145°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
147.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	1.8
150°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
157.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
160°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
162.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
165°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
167.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
170°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
172.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
175°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
177.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)