

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1444942

Luminaire Tested: CWP30 (12W-3000K)

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444942
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/1/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: CWP30 (12W-3000K)
Description: COMPACT WALL PACK, 30W
SET TO 12W, 3000K CCT
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1532.4 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Circular (Dia: 1.88m x H: 0m)
IES Classification: Type IV - Short
BUG Rating: B0 - U3 - G2

Input Watts (W): 11.9
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: 28.75 FT



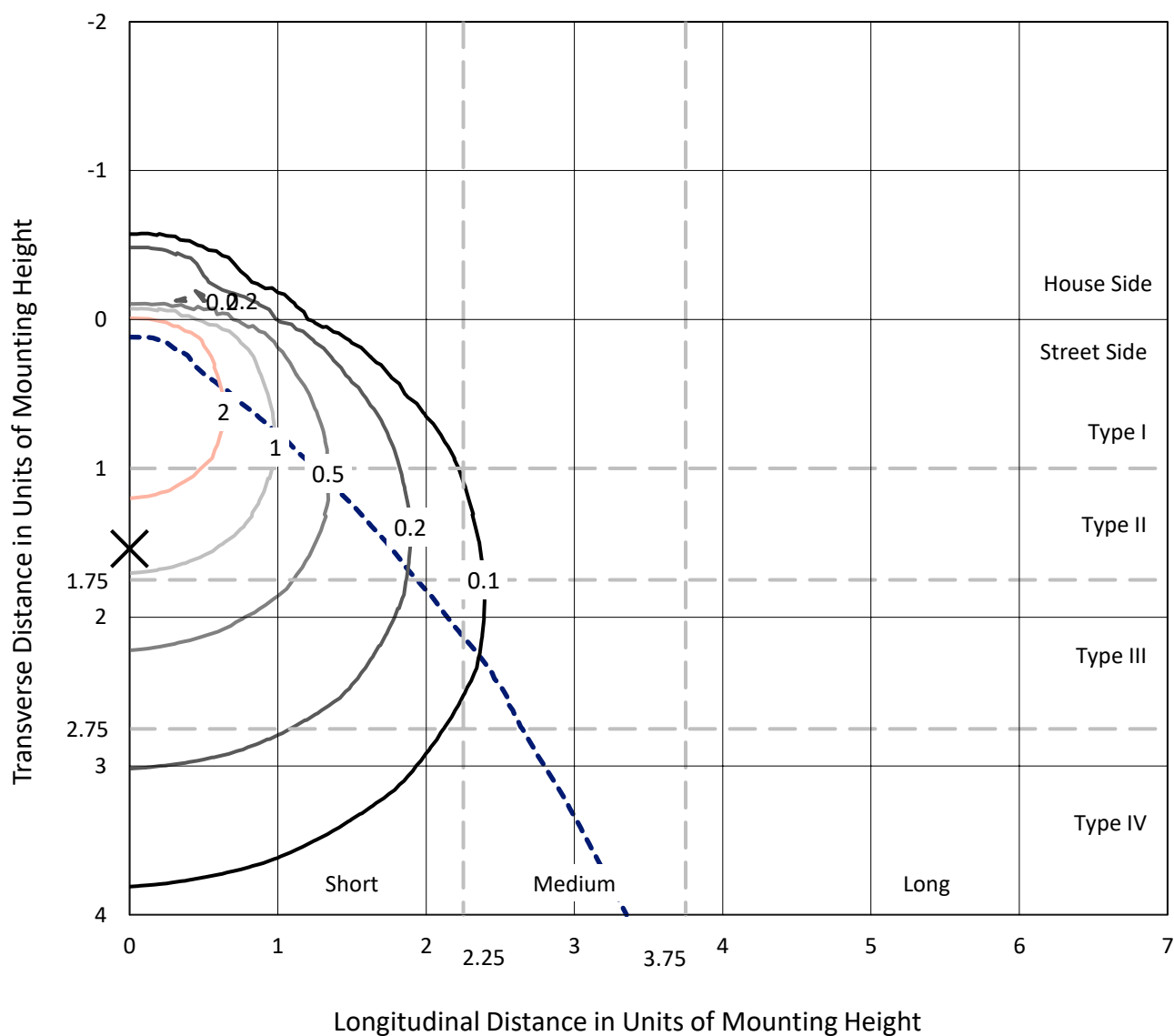
REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



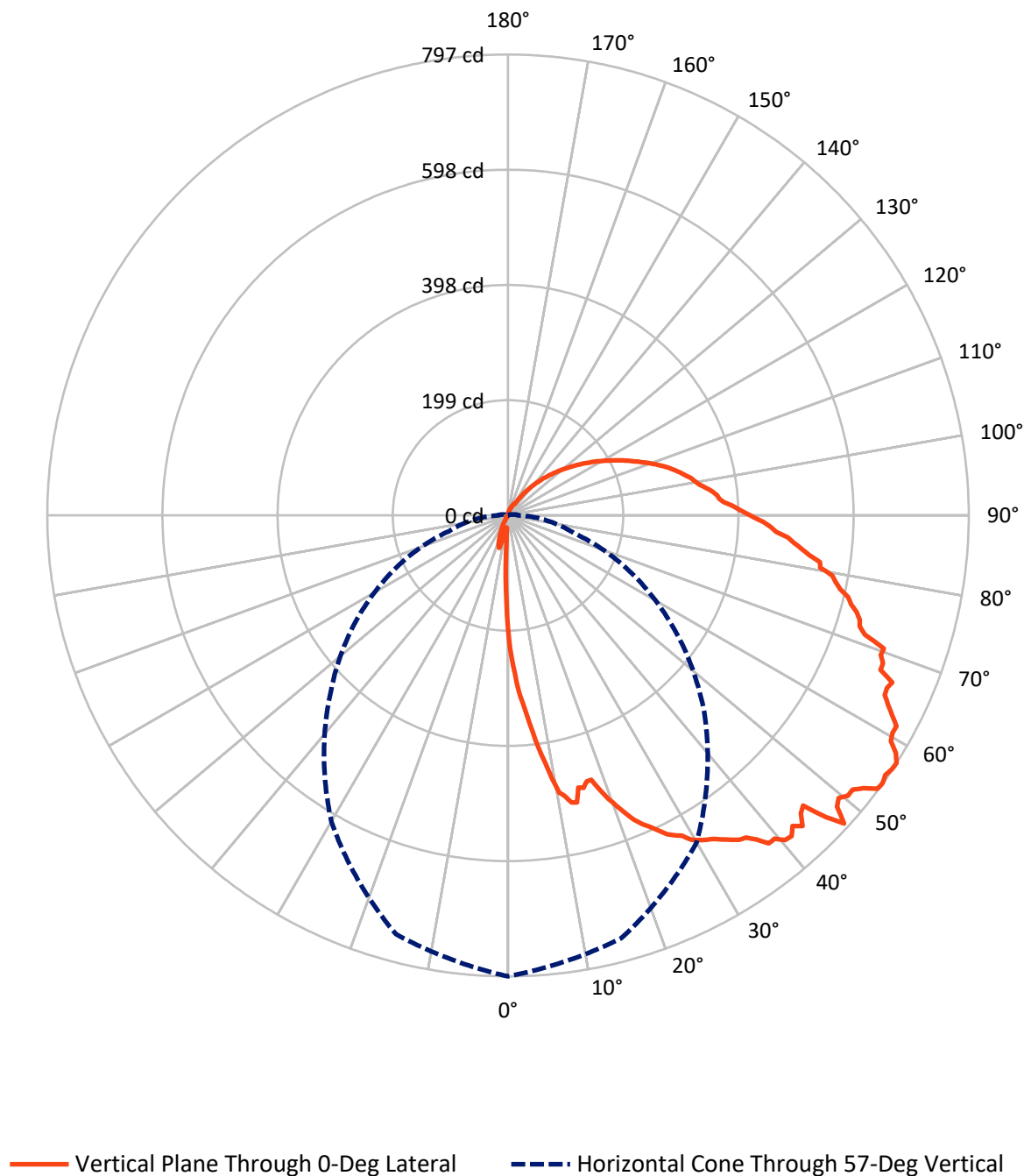
Based on 10 foot mounting height. Maximum calculated value = 4.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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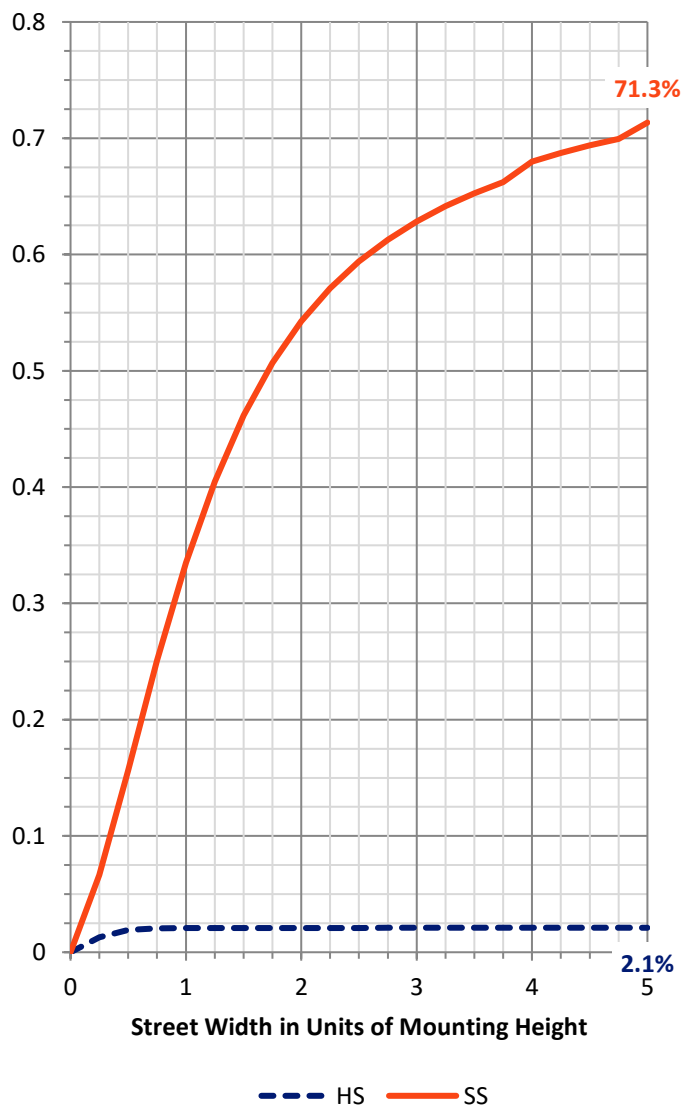
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.7	1.5	34.2
	% Fixture	2.1	0.1	2.2
Street Side	Lumens	1200.8	297.4	1498.2
	% Fixture	78.4	19.4	97.8
Total	Lumens	1233.6	298.9	1532.4
	% Fixture	80.5	19.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	1.3
10°-20°	63.5	4.1
20°-30°	106.9	7.0
30°-40°	146.6	9.6
40°-50°	176.7	11.5
50°-60°	198.6	13.0
60°-70°	201.2	13.1
70°-80°	179.4	11.7
80°-90°	141.5	9.2
90°-100°	106.5	7.0
100°-110°	80.4	5.2
110°-120°	53.8	3.5
120°-130°	32.1	2.1
130°-140°	16.3	1.1
140°-150°	6.5	0.4
150°-160°	2.5	0.2
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-90°	1233.6	80.5
0°-180°	1532.4	100.0

Coefficient of Utilization



REPORT NUMBER: P1444942

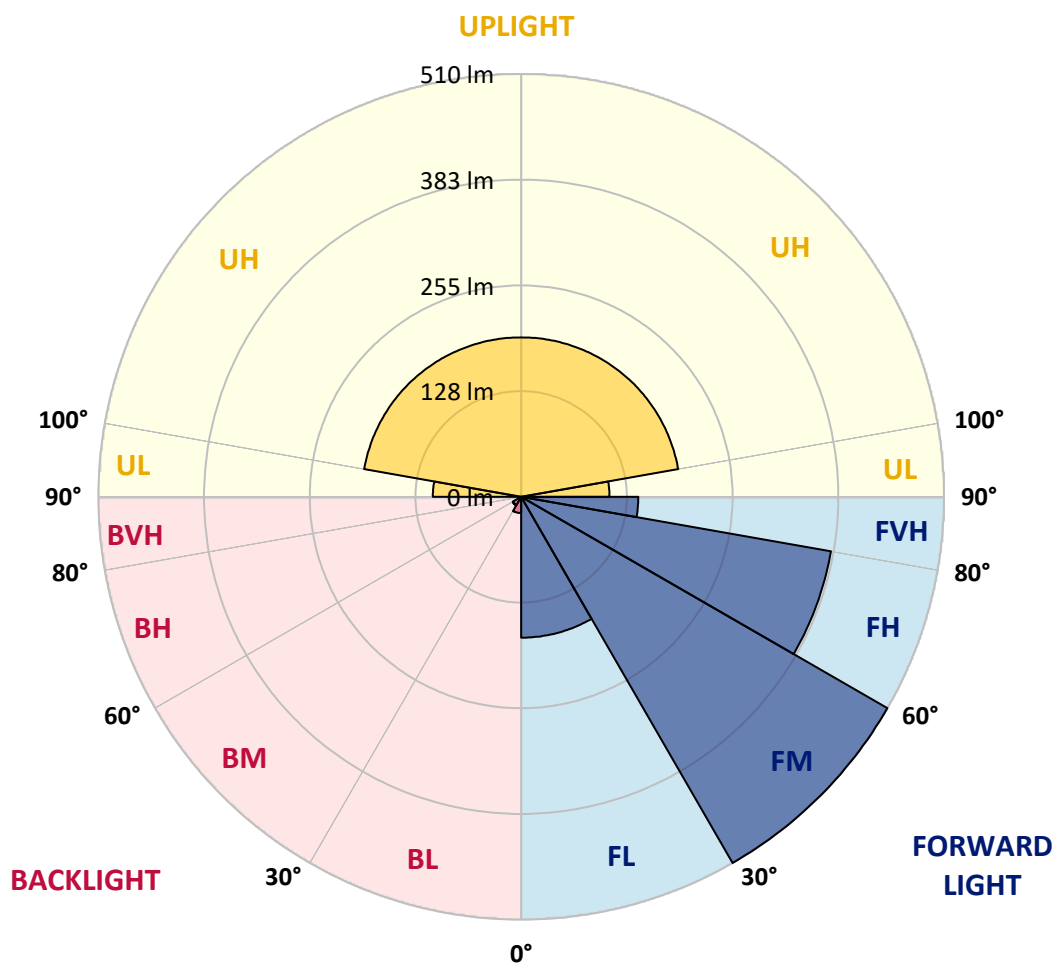
CATALOG NUMBER: CWP30 (12W-3000K)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.9	11.1			
FM	(30°-60°)	510.1	33.3			
FH	(60°-80°)	379.5	24.8			G0/660
FVH	(80°-90°)	141.3	9.2			G2/225
BL	(0°-30°)	19.6	1.3	B0/110		
BM	(30°-60°)	11.8	0.8	B0/220		
BH	(60°-80°)	1.0	0.1	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	106.5	7.0		U3/500	
UH	(100°-180°)	192.3	12.5		U3/500	

BUG Rating: B0-U3-G2

Type IV Short



REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
1°	248.2	248.0	246.9	245.2	241.0	236.2	215.2	200.7	189.2	181.1	175.4
2°	273.3	271.4	266.7	258.3	250.1	240.5	214.7	186.2	164.8	148.2	135.9
3°	304.6	302.0	293.8	275.7	256.9	242.9	213.2	171.1	141.1	116.5	102.6
4°	325.2	320.8	315.1	297.7	270.4	249.0	211.6	159.3	118.6	91.1	59.7
5°	348.8	342.9	328.4	312.9	287.0	252.6	210.2	148.2	101.6	53.3	32.0
6°	375.9	372.5	350.4	328.0	302.2	258.3	210.0	136.4	78.1	32.2	24.4
7°	406.0	399.8	375.7	343.6	313.6	266.6	210.3	124.2	51.8	25.3	21.4
8°	430.3	418.2	402.8	364.1	323.0	275.4	210.2	115.8	35.5	22.7	20.7
9°	460.8	447.5	419.0	387.7	335.4	277.5	205.2	103.8	27.7	21.1	21.1
10°	487.3	476.4	446.2	405.3	343.8	281.4	200.4	91.7	24.7	21.2	22.1
11°	495.5	486.9	474.4	423.3	353.6	286.1	194.5	76.8	22.8	21.9	23.9
12°	508.1	501.6	485.5	440.8	364.4	291.5	191.9	63.2	21.7	22.7	26.5
13°	510.1	512.8	496.8	456.6	374.3	295.6	191.6	51.0	21.1	24.3	30.5
14°	485.8	496.8	508.4	468.7	382.5	300.0	189.2	42.6	21.2	26.7	36.7
15°	488.8	483.2	507.1	472.3	394.1	296.2	179.0	34.4	21.8	29.4	44.0
16°	479.4	478.4	485.2	475.2	406.9	287.7	171.6	28.8	22.6	33.1	50.5
17°	479.2	484.1	485.6	483.8	409.6	284.4	162.8	25.7	23.9	36.9	55.0
18°	500.3	487.8	471.7	482.7	412.8	278.2	155.5	23.5	25.7	41.3	57.1
19°	519.6	502.1	470.6	468.8	418.1	277.1	151.1	22.0	27.3	45.2	56.3
20°	535.9	522.1	473.3	456.2	411.0	281.9	148.6	20.9	29.1	48.4	53.2
21°	553.3	544.1	485.4	454.3	406.4	286.2	141.6	20.2	30.9	49.3	50.5
22°	568.9	553.6	505.0	437.3	407.4	279.7	138.6	19.5	32.9	49.3	47.4
23°	581.7	567.0	518.7	431.4	409.8	281.2	133.9	19.2	34.8	48.1	44.1
24°	591.9	578.0	530.6	431.1	408.6	280.2	129.9	19.0	36.1	46.7	40.1
25°	602.7	585.5	541.8	439.2	396.3	278.5	127.1	19.5	37.0	44.1	36.7
26°	615.5	596.5	553.7	450.3	380.3	279.2	122.1	20.1	37.5	41.3	33.5
27°	623.3	606.6	563.9	460.5	364.1	274.7	119.3	21.0	37.5	38.2	30.5
28°	629.9	613.6	571.3	469.0	360.8	271.3	117.4	21.8	36.8	35.6	27.1
29°	644.3	626.3	576.8	478.2	354.3	269.9	114.6	22.6	35.5	32.9	24.3
30°	651.2	637.9	583.1	484.3	343.5	273.1	110.2	23.8	34.3	30.1	21.3
31°	657.6	647.2	588.8	486.8	336.6	272.5	106.7	25.0	32.9	27.2	18.4
32°	662.8	653.7	596.4	488.5	331.7	267.6	101.0	25.6	31.3	24.3	15.5
33°	671.8	662.0	602.6	487.3	333.2	264.9	97.1	26.3	29.7	21.9	12.8
34°	680.1	667.2	607.6	485.4	334.9	259.6	93.3	26.7	28.0	19.5	10.8
35°	688.4	670.9	613.2	485.0	337.9	252.8	90.2	26.7	26.3	17.2	8.9
36°	692.8	677.7	617.9	484.8	338.4	247.7	85.6	26.8	24.5	15.1	7.2
37°	706.0	685.2	621.9	485.1	338.8	244.1	79.7	26.6	22.6	13.0	5.9
38°	724.2	697.0	626.6	485.6	338.2	238.9	75.3	26.3	20.9	11.1	5.0
39°	724.4	703.9	631.6	485.1	337.5	229.6	72.4	25.5	19.2	9.3	4.3
40°	737.8	707.9	637.8	482.7	334.8	223.7	69.3	24.6	17.5	8.0	3.6
41°	740.1	717.3	638.2	484.1	332.8	221.6	66.8	23.4	15.9	6.7	2.7
42°	728.3	715.5	642.9	484.6	330.6	214.5	63.2	22.3	14.4	5.4	2.1
43°	740.1	713.6	646.1	485.9	328.4	205.9	60.1	20.9	12.9	4.4	1.7
44°	722.5	714.4	644.4	484.7	327.3	197.7	56.7	19.6	11.6	3.7	1.3

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CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	715.6	702.2	644.3	485.0	325.7	188.1	53.7	18.2	10.3	3.0	0.2
46°	757.4	702.9	641.7	488.0	324.2	179.3	51.6	16.9	9.1	2.3	0.1
47°	788.0	736.2	632.5	486.4	323.1	171.3	48.8	15.6	8.0	1.5	0.1
48°	759.8	753.4	631.0	486.6	321.3	162.4	44.8	14.4	6.8	1.0	0.1
49°	751.8	735.8	647.7	486.0	318.9	156.0	41.1	13.3	5.7	0.8	0.2
50°	761.6	726.5	651.0	481.2	317.4	148.9	38.1	12.2	4.8	0.4	0.2
51°	761.5	731.2	645.8	480.7	314.3	143.4	35.2	11.2	4.0	0.1	0.2
52°	774.6	732.5	648.3	486.9	310.6	138.8	31.5	10.3	3.3	0.1	0.2
53°	794.5	741.7	645.9	490.2	307.0	134.2	28.0	9.4	2.7	0.1	0.2
54°	796.1	752.1	640.5	486.6	301.7	130.2	25.2	8.6	2.1	0.1	0.2
55°	791.8	753.3	643.1	483.2	297.5	126.0	22.9	7.7	1.5	0.1	0.2
56°	795.5	754.2	649.4	481.0	295.3	121.7	20.5	6.9	1.0	0.2	0.2
57°	796.7	756.7	652.6	479.5	294.6	117.7	18.1	6.2	0.6	0.2	0.2
58°	786.4	756.1	654.5	479.1	287.9	113.6	16.3	5.5	0.4	0.2	0.2
59°	768.3	744.7	653.6	479.8	281.8	109.8	14.5	4.9	0.2	0.2	0.2
60°	763.7	730.7	651.9	478.0	277.1	107.0	13.3	4.3	0.1	0.2	0.2
61°	764.1	728.4	645.2	475.3	272.2	104.3	12.2	3.8	0.1	0.2	0.3
62°	749.2	724.2	640.1	474.0	268.1	101.3	11.1	3.3	0.1	0.2	0.3
63°	734.5	717.1	637.0	473.2	263.6	98.3	10.0	2.8	0.1	0.2	0.3
64°	721.9	699.6	631.9	466.9	259.0	95.1	9.1	2.4	0.1	0.2	0.3
65°	719.9	690.8	625.0	461.0	254.8	92.4	8.4	2.0	0.1	0.2	0.3
66°	724.4	690.2	612.6	456.8	251.0	89.7	7.7	1.6	0.1	0.2	0.3
67°	697.0	684.2	606.6	452.1	245.4	87.0	7.1	1.3	0.1	0.2	0.3
68°	697.1	661.7	605.3	443.1	238.8	84.7	6.5	1.0	0.1	0.2	0.3
69°	688.4	659.0	593.5	437.0	234.4	82.4	5.8	0.8	0.2	0.3	0.4
70°	689.6	655.8	584.7	434.1	229.3	79.7	5.2	0.5	0.2	0.3	0.4
71°	650.9	641.4	577.4	425.8	223.2	76.9	4.6	0.4	0.2	0.3	0.4
72°	637.6	606.8	571.5	419.1	218.0	74.2	4.0	0.2	0.2	0.3	0.4
73°	634.1	606.4	546.0	414.9	213.8	71.5	3.5	0.2	0.2	0.3	0.4
74°	625.6	596.9	537.3	405.8	207.0	68.9	3.0	0.2	0.2	0.3	0.4
75°	612.9	588.5	526.9	391.1	201.9	66.5	2.5	0.1	0.2	0.3	0.4
76°	604.4	575.5	516.9	382.3	195.6	64.0	2.1	0.1	0.2	0.3	0.4
77°	588.1	567.2	504.8	375.8	187.5	61.6	1.7	0.1	0.2	0.3	0.4
78°	578.2	553.6	493.0	367.0	181.0	58.4	1.4	0.1	0.2	0.3	0.5
79°	570.2	542.7	481.6	357.9	175.4	55.9	1.2	0.1	0.2	0.3	0.5
80°	547.5	524.4	472.8	347.7	169.2	53.4	0.9	0.1	0.2	0.4	0.5
81°	545.5	521.1	454.3	339.2	162.6	51.0	0.8	0.1	0.2	0.4	0.5
82°	525.4	504.5	447.9	327.1	156.7	48.8	0.6	0.1	0.2	0.4	0.5
83°	511.4	489.5	431.1	317.4	151.3	46.4	0.5	0.1	0.2	0.4	0.5
84°	496.8	475.4	419.8	306.6	144.4	44.3	0.3	0.1	0.2	0.4	0.5
85°	485.7	463.4	406.8	295.0	139.1	42.3	0.2	0.1	0.2	0.4	0.5
86°	464.6	444.9	390.3	283.0	133.7	40.6	0.1	0.1	0.2	0.4	0.5
87°	454.6	435.4	379.6	273.7	129.8	39.2	0.1	0.1	0.3	0.4	0.5
88°	442.1	424.2	367.1	264.1	126.3	37.9	0.0	0.1	0.3	0.4	0.5
89°	425.9	409.2	353.6	255.9	123.8	37.1	0.0	0.1	0.3	0.4	0.6

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CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	411.9	394.8	342.8	250.4	121.5	36.1	0.0	0.1	0.3	0.4	0.6
91°	399.4	382.8	332.2	243.9	119.6	35.2	0.0	0.1	0.3	0.4	0.6
92°	387.7	370.7	321.4	238.6	117.3	34.0	0.0	0.1	0.3	0.4	0.6
93°	373.7	358.5	314.9	234.1	113.7	32.4	0.1	0.1	0.3	0.4	0.6
94°	366.5	352.5	310.0	229.0	110.6	31.0	0.1	0.1	0.3	0.4	0.6
95°	363.1	349.6	303.6	223.1	106.8	29.6	0.1	0.1	0.3	0.4	0.6
96°	357.1	342.6	296.5	217.2	102.8	28.2	0.1	0.2	0.3	0.5	0.6
97°	348.9	335.0	289.0	210.4	99.2	27.1	0.1	0.2	0.3	0.5	0.6
98°	340.3	326.2	281.9	204.5	96.3	25.9	0.1	0.2	0.3	0.5	0.6
99°	333.3	319.2	275.8	199.2	93.9	24.9	0.1	0.2	0.3	0.5	0.6
100°	327.8	314.4	270.4	193.2	90.3	24.0	0.1	0.2	0.3	0.5	0.6
101°	322.9	308.8	263.5	187.4	86.7	23.1	0.1	0.2	0.3	0.5	0.6
102°	315.9	302.2	257.3	181.5	83.8	22.2	0.1	0.2	0.3	0.5	0.6
103°	309.6	295.6	250.6	175.1	80.4	21.2	0.1	0.2	0.3	0.5	0.6
104°	303.2	288.9	243.9	168.7	77.0	20.2	0.1	0.2	0.3	0.5	0.6
105°	296.5	282.3	237.0	162.4	73.9	19.3	0.1	0.2	0.3	0.5	0.6
106°	289.8	275.2	230.0	156.1	70.7	18.4	0.1	0.2	0.3	0.5	0.6
107°	282.4	267.7	222.9	149.9	67.8	17.6	0.1	0.2	0.3	0.5	0.6
108°	274.5	260.1	215.7	143.8	65.0	16.8	0.1	0.2	0.3	0.5	0.6
109°	266.8	252.5	208.4	137.9	62.3	16.1	0.1	0.2	0.3	0.5	0.6
110°	258.9	244.7	201.2	132.0	59.7	15.4	0.1	0.2	0.3	0.5	0.6
111°	250.6	237.0	194.4	126.4	57.1	14.8	0.1	0.2	0.3	0.5	0.6
112°	242.9	229.3	187.7	120.7	54.5	14.1	0.1	0.2	0.3	0.5	0.6
113°	235.3	222.1	181.0	115.3	52.0	13.5	0.1	0.2	0.3	0.5	0.6
114°	227.9	214.4	174.4	110.1	49.5	12.9	0.1	0.2	0.3	0.5	0.6
115°	220.5	207.3	167.7	105.1	47.2	12.2	0.1	0.2	0.3	0.5	0.6
116°	213.1	200.2	161.6	100.3	44.9	11.6	0.1	0.2	0.3	0.5	0.6
117°	205.9	193.4	155.2	95.6	42.7	11.0	0.1	0.2	0.3	0.5	0.6
118°	198.6	186.5	149.1	91.2	40.7	10.4	0.1	0.2	0.3	0.5	0.6
119°	191.8	179.8	143.0	86.8	38.7	9.8	0.1	0.2	0.3	0.5	0.6
120°	185.0	172.9	137.4	82.4	36.8	9.1	0.1	0.2	0.3	0.5	0.6
121°	178.0	166.3	131.6	78.1	35.1	8.5	0.1	0.2	0.3	0.5	0.6
122°	171.2	159.8	125.8	74.2	33.3	8.0	0.1	0.2	0.3	0.5	0.6
123°	164.6	153.5	120.1	70.5	31.4	7.7	0.1	0.2	0.3	0.5	0.6
124°	158.1	147.1	114.7	67.0	29.7	7.5	0.1	0.2	0.3	0.5	0.6
125°	151.5	140.9	109.4	63.7	27.9	7.2	0.1	0.2	0.3	0.5	0.6
126°	145.1	134.8	104.1	60.5	26.4	6.9	0.1	0.2	0.3	0.5	0.6
127°	138.8	128.9	99.0	57.5	25.0	6.7	0.1	0.2	0.3	0.5	0.6
128°	132.8	122.8	93.8	54.5	23.8	6.5	0.1	0.2	0.3	0.5	0.6
129°	126.6	117.0	88.7	51.6	22.8	6.4	0.1	0.2	0.3	0.5	0.6
130°	120.6	111.2	83.6	48.8	21.8	6.3	0.1	0.2	0.3	0.5	0.6
131°	114.8	105.5	78.6	46.1	21.0	6.3	0.1	0.2	0.3	0.5	0.6
132°	108.9	99.9	73.8	43.3	20.1	6.2	0.1	0.2	0.3	0.5	0.6
133°	103.3	94.4	69.0	40.6	19.0	6.0	0.1	0.2	0.3	0.5	0.6
134°	97.7	89.0	64.5	38.0	17.9	5.6	0.1	0.2	0.4	0.5	0.6

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	92.2	83.7	60.0	35.4	16.7	5.1	0.1	0.2	0.4	0.5	0.6
136°	86.7	78.3	55.9	32.9	15.7	4.7	0.2	0.2	0.4	0.5	0.6
137°	81.2	73.2	51.9	30.8	14.9	4.5	0.2	0.3	0.4	0.5	0.6
138°	76.0	68.0	48.1	28.9	14.3	4.3	0.2	0.3	0.4	0.5	0.6
139°	70.6	62.9	44.7	27.2	13.6	4.2	0.2	0.3	0.4	0.5	0.6
140°	65.5	57.9	41.5	25.7	13.1	4.0	0.2	0.3	0.4	0.5	0.6
141°	60.3	53.0	38.3	24.2	12.7	3.7	0.2	0.3	0.4	0.5	0.6
142°	55.3	48.1	35.4	22.8	12.3	3.5	0.2	0.3	0.4	0.5	0.6
143°	50.3	43.5	32.5	21.6	12.1	3.3	0.2	0.3	0.4	0.5	0.6
144°	45.3	39.2	29.7	20.7	11.8	3.0	0.2	0.3	0.4	0.5	0.6
145°	40.3	35.2	27.3	19.9	11.5	2.8	0.2	0.3	0.4	0.5	0.6
146°	35.4	31.6	25.1	19.1	11.1	2.6	0.2	0.3	0.4	0.5	0.6
147°	30.8	28.4	23.4	18.3	10.5	2.4	0.3	0.3	0.4	0.5	0.6
148°	26.6	25.6	21.8	17.7	9.9	2.1	0.3	0.3	0.4	0.5	0.6
149°	23.7	23.4	20.6	17.1	9.3	1.9	0.3	0.3	0.4	0.5	0.6
150°	23.1	22.2	19.9	16.4	8.7	1.7	0.3	0.3	0.4	0.5	0.6
151°	23.5	22.2	19.5	15.4	8.2	1.6	0.3	0.3	0.4	0.5	0.5
152°	22.8	21.8	18.7	14.5	7.7	1.5	0.3	0.4	0.4	0.5	0.5
153°	21.6	20.7	17.7	13.5	7.2	1.3	0.3	0.4	0.4	0.5	0.5
154°	20.4	19.5	16.7	12.6	6.7	1.1	0.3	0.4	0.4	0.5	0.5
155°	19.0	18.2	15.5	11.6	6.2	0.8	0.3	0.4	0.4	0.5	0.5
156°	17.7	16.8	14.3	10.7	5.8	0.6	0.3	0.4	0.4	0.5	0.5
157°	16.5	15.6	13.2	9.9	5.3	0.5	0.3	0.4	0.4	0.5	0.5
158°	15.5	14.7	12.3	9.0	4.8	0.3	0.3	0.4	0.4	0.4	0.5
159°	14.5	13.7	11.5	8.2	4.3	0.3	0.4	0.4	0.4	0.4	0.5
160°	13.5	12.8	10.7	7.5	3.9	0.3	0.4	0.4	0.4	0.4	0.5
161°	12.4	11.7	9.7	6.8	3.6	0.3	0.4	0.4	0.4	0.4	0.4
162°	11.2	10.6	8.8	6.1	3.1	0.3	0.4	0.4	0.4	0.4	0.4
163°	10.1	9.6	7.8	5.4	2.6	0.3	0.4	0.4	0.4	0.4	0.4
164°	9.0	8.5	6.9	4.7	2.1	0.3	0.4	0.4	0.4	0.4	0.4
165°	8.0	7.5	6.1	4.1	1.6	0.3	0.4	0.4	0.4	0.4	0.4
166°	7.0	6.6	5.3	3.7	1.1	0.4	0.4	0.4	0.4	0.4	0.4
167°	6.1	5.7	4.6	3.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4
168°	5.2	4.9	4.1	2.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	4.5	4.2	3.4	1.8	0.3	0.4	0.4	0.4	0.4	0.4	0.4
170°	3.7	3.5	2.7	1.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4
171°	2.9	2.6	1.8	0.6	0.3	0.3	0.4	0.4	0.4	0.4	0.4
172°	1.9	1.6	0.9	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
173°	0.9	0.7	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
174°	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3
176°	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
177°	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
178°	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
179°	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3



REPORT NUMBER: P1444942
CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
1°	174.2	174.3	177.4	183.0	192.1	199.2	216.7	214.0	222.1	225.4	241.0
2°	127.8	127.4	133.1	143.0	158.4	178.3	204.3	213.9	232.8	243.4	252.5
3°	92.7	90.1	96.2	108.8	128.1	155.2	190.2	212.4	238.0	251.1	270.0
4°	45.2	42.6	49.2	70.8	101.2	133.3	175.1	210.7	238.7	263.4	291.8
5°	27.2	26.5	28.1	36.9	68.8	111.6	163.8	210.2	243.0	276.1	308.1
6°	22.4	22.2	22.7	25.6	39.1	95.4	152.3	209.1	248.5	292.9	318.8
7°	20.7	20.7	20.6	21.9	27.2	71.2	140.3	209.6	257.6	306.2	334.6
8°	20.8	21.1	20.6	20.6	23.1	48.7	126.8	202.7	260.2	314.9	354.2
9°	21.8	22.2	21.3	20.6	21.4	34.4	113.7	197.4	259.8	315.4	376.0
10°	23.5	24.1	23.1	21.3	20.3	27.1	101.9	191.6	260.6	324.2	392.4
11°	26.0	26.5	25.5	22.8	20.5	23.6	92.3	188.2	263.1	329.3	400.7
12°	29.8	30.6	28.9	24.9	21.0	21.5	82.6	184.0	265.2	336.5	416.0
13°	36.4	39.9	35.4	28.0	21.8	20.1	71.4	181.2	266.3	345.4	428.1
14°	46.8	49.4	44.8	32.7	23.3	19.3	60.4	178.5	270.2	349.4	436.6
15°	54.7	57.7	52.0	38.4	25.4	19.0	49.0	171.1	263.6	351.1	435.4
16°	58.4	58.0	57.2	44.4	27.8	19.2	39.5	163.2	255.0	366.3	439.6
17°	57.2	56.5	56.4	48.5	30.9	19.8	32.3	156.4	250.6	369.7	443.5
18°	56.3	54.3	54.8	51.4	34.2	20.6	26.9	150.9	249.4	372.8	438.9
19°	53.6	50.1	53.1	51.8	36.9	21.6	23.3	147.6	247.8	372.2	420.1
20°	49.1	46.3	48.7	49.6	39.5	23.2	21.6	144.8	249.6	364.2	417.5
21°	45.2	42.3	43.8	47.1	40.7	24.8	19.9	142.1	253.8	361.3	409.7
22°	42.1	38.0	40.9	43.8	41.4	26.6	18.2	138.1	254.2	360.8	401.9
23°	38.1	35.1	36.9	41.2	40.6	28.1	17.2	135.2	252.3	359.1	395.2
24°	34.6	32.3	33.1	37.8	39.9	29.7	16.6	132.0	249.6	358.4	402.2
25°	32.1	28.7	30.6	34.3	38.2	30.4	16.3	128.4	248.8	343.6	407.3
26°	29.2	26.3	27.9	31.1	36.8	31.0	16.2	127.0	244.7	327.2	415.3
27°	26.1	23.3	24.6	28.1	34.7	31.1	16.3	123.5	244.7	321.8	422.9
28°	23.0	20.2	21.6	25.5	32.0	30.9	16.4	119.5	245.4	317.8	429.6
29°	19.9	17.2	18.6	22.7	29.4	30.4	16.8	115.6	242.8	309.6	436.4
30°	16.7	13.0	15.6	19.8	26.9	29.6	17.2	112.6	240.4	304.4	441.1
31°	12.7	9.6	12.8	17.0	24.7	28.6	17.8	108.7	237.0	299.8	443.3
32°	10.5	7.7	9.8	14.6	22.3	27.4	18.4	104.7	236.0	301.4	442.8
33°	8.2	7.2	7.9	12.2	20.0	26.0	19.0	98.9	231.8	301.5	441.2
34°	6.7	6.4	6.7	10.1	17.7	24.3	19.2	94.7	222.6	304.2	439.6
35°	5.7	5.8	5.7	8.5	15.6	23.0	19.3	90.1	215.0	303.8	440.5
36°	5.1	5.2	4.9	7.3	13.7	21.3	19.4	85.4	211.1	304.2	441.9
37°	4.6	3.8	4.4	5.9	12.1	19.7	19.3	80.8	206.4	304.3	442.6
38°	3.5	3.4	3.5	4.9	10.5	18.0	19.0	75.2	201.3	304.0	440.5
39°	3.0	3.0	3.0	3.9	8.9	16.5	18.4	71.7	194.8	301.5	439.5
40°	2.7	2.5	2.5	3.3	7.3	15.0	17.7	69.2	185.7	298.8	440.6
41°	2.2	0.3	2.2	2.7	6.2	13.6	16.9	66.2	178.1	295.8	441.2
42°	0.2	0.1	0.4	2.0	5.2	12.2	16.2	63.4	171.4	293.9	443.1
43°	0.1	0.1	0.1	1.5	4.3	10.9	15.5	60.3	167.1	292.5	443.2
44°	0.1	0.2	0.1	1.3	3.5	9.8	14.6	57.5	162.6	291.4	442.8

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	0.1	0.2	0.2	0.5	2.8	8.8	13.8	53.6	156.5	289.9	443.8
46°	0.2	0.2	0.2	0.1	2.2	7.8	12.9	49.6	152.0	288.7	443.7
47°	0.2	0.2	0.2	0.2	1.7	6.9	12.1	46.0	145.9	288.0	442.1
48°	0.2	0.2	0.2	0.2	1.1	6.0	11.3	41.6	140.2	286.1	441.7
49°	0.2	0.2	0.2	0.2	0.7	5.2	10.4	38.3	135.9	285.3	437.4
50°	0.2	0.2	0.2	0.2	0.5	4.4	9.5	35.0	131.5	283.8	435.1
51°	0.2	0.2	0.2	0.2	0.2	3.7	8.7	31.4	127.4	281.5	439.9
52°	0.2	0.2	0.2	0.2	0.2	3.1	7.9	28.9	123.7	280.0	441.6
53°	0.2	0.2	0.2	0.2	0.2	2.6	7.2	25.5	119.8	275.4	441.6
54°	0.2	0.2	0.2	0.2	0.2	2.1	6.4	22.7	115.9	272.3	438.4
55°	0.2	0.3	0.3	0.2	0.2	1.6	5.7	20.6	112.0	271.0	437.8
56°	0.2	0.3	0.3	0.2	0.2	1.2	5.0	19.2	108.7	270.5	435.8
57°	0.3	0.3	0.3	0.2	0.2	0.9	4.4	17.6	105.7	266.6	434.1
58°	0.3	0.3	0.3	0.2	0.2	0.5	3.9	16.2	102.2	261.5	435.7
59°	0.3	0.3	0.3	0.3	0.2	0.3	3.4	15.3	99.8	257.9	436.8
60°	0.3	0.3	0.3	0.3	0.2	0.2	3.0	14.6	97.7	253.0	432.2
61°	0.3	0.3	0.3	0.3	0.2	0.2	2.7	14.0	94.9	248.6	430.8
62°	0.3	0.3	0.3	0.3	0.2	0.2	2.3	13.4	92.3	245.4	430.9
63°	0.3	0.4	0.4	0.3	0.2	0.2	2.1	12.8	89.6	240.7	428.0
64°	0.4	0.4	0.4	0.3	0.2	0.2	1.8	12.2	87.0	236.7	421.7
65°	0.4	0.4	0.4	0.3	0.2	0.2	1.6	11.6	84.9	232.5	417.0
66°	0.4	0.4	0.4	0.3	0.3	0.2	1.4	11.0	82.5	228.4	413.6
67°	0.4	0.4	0.4	0.3	0.3	0.2	1.2	10.3	80.3	223.5	407.6
68°	0.4	0.4	0.4	0.4	0.3	0.2	1.0	9.7	78.2	218.8	400.3
69°	0.4	0.4	0.4	0.4	0.3	0.2	0.8	9.1	75.7	214.4	398.8
70°	0.4	0.5	0.4	0.4	0.3	0.2	0.6	8.5	73.2	209.4	394.8
71°	0.4	0.5	0.5	0.4	0.3	0.2	0.4	7.8	70.8	204.0	388.2
72°	0.5	0.5	0.5	0.4	0.3	0.2	0.3	7.3	68.3	200.0	384.3
73°	0.5	0.5	0.5	0.4	0.3	0.2	0.2	6.7	65.6	194.7	379.4
74°	0.5	0.5	0.5	0.4	0.3	0.2	0.2	6.1	63.5	190.5	366.0
75°	0.5	0.5	0.5	0.4	0.3	0.2	0.1	5.6	60.9	185.1	356.8
76°	0.5	0.5	0.5	0.5	0.3	0.2	0.1	5.0	58.8	177.4	349.9
77°	0.5	0.6	0.5	0.5	0.3	0.2	0.1	4.5	56.0	171.1	344.0
78°	0.5	0.6	0.6	0.5	0.4	0.2	0.1	4.0	53.2	166.8	336.2
79°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	3.5	51.1	160.5	327.5
80°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	3.0	48.8	155.0	320.9
81°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	2.6	46.7	149.3	308.8
82°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	2.1	44.5	144.3	302.4
83°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	1.7	42.4	138.1	290.5
84°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	1.3	40.4	132.9	281.2
85°	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.9	38.7	127.7	271.5
86°	0.6	0.7	0.6	0.5	0.4	0.3	0.1	0.6	37.4	123.4	261.7
87°	0.6	0.7	0.6	0.6	0.4	0.3	0.1	0.4	36.1	119.5	253.1
88°	0.6	0.7	0.7	0.6	0.4	0.3	0.1	0.2	35.4	116.7	244.4
89°	0.6	0.7	0.7	0.6	0.4	0.3	0.1	0.1	34.5	114.6	238.4

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.1	33.8	112.5	232.2
91°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.1	33.0	110.7	226.3
92°	0.7	0.7	0.7	0.6	0.4	0.3	0.2	0.1	31.6	108.1	222.4
93°	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.1	30.3	105.5	218.1
94°	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.0	29.1	102.4	213.4
95°	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.0	27.8	98.9	208.2
96°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.0	26.7	95.4	202.2
97°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.0	25.8	94.4	196.5
98°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.0	24.9	90.7	191.5
99°	0.7	0.8	0.8	0.6	0.5	0.3	0.2	0.0	24.0	87.1	186.6
100°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.0	23.2	84.5	181.6
101°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	22.4	82.0	176.5
102°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	21.5	79.2	171.2
103°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	20.5	76.1	165.5
104°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	19.6	73.2	159.5
105°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	18.8	70.4	154.0
106°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	18.0	67.6	148.4
107°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	17.2	65.0	142.8
108°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	16.5	62.6	137.6
109°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	15.9	60.0	132.2
110°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	15.2	57.7	126.9
111°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	14.5	55.2	121.6
112°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	13.9	52.7	116.5
113°	0.7	0.8	0.8	0.7	0.5	0.3	0.2	0.1	13.2	50.3	111.4
114°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	12.6	48.1	106.6
115°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	12.0	45.8	101.8
116°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	11.4	43.6	97.2
117°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	10.9	41.5	92.5
118°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	10.2	39.5	88.4
119°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	9.6	37.6	84.3
120°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	9.0	35.7	80.0
121°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	8.5	33.9	76.1
122°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	8.1	32.0	72.3
123°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	7.8	30.2	68.8
124°	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	7.5	28.5	65.3
125°	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	7.2	26.9	62.1
126°	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	6.9	25.5	59.1
127°	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	6.7	24.3	56.1
128°	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.1	6.6	23.1	53.2
129°	0.7	0.7	0.7	0.7	0.5	0.4	0.3	0.1	6.5	22.1	50.4
130°	0.7	0.7	0.7	0.7	0.5	0.4	0.3	0.1	6.5	21.1	47.6
131°	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.1	6.4	20.1	44.9
132°	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.1	6.1	19.0	42.1
133°	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.1	5.7	17.9	39.3
134°	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.1	5.2	16.7	36.6

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CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.1	4.8	15.7	33.9
136°	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.1	4.6	14.9	31.5
137°	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.1	4.4	14.2	29.5
138°	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.1	4.3	13.5	27.7
139°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.1	4.1	12.9	26.1
140°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.1	3.9	12.4	24.6
141°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.1	3.6	12.0	23.1
142°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.4	11.8	21.8
143°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.2	11.6	20.7
144°	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.2	2.9	11.3	19.8
145°	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.2	2.7	11.0	19.0
146°	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.2	2.5	10.5	18.2
147°	0.6	0.7	0.7	0.6	0.6	0.5	0.4	0.2	2.3	9.9	17.5
148°	0.6	0.7	0.7	0.6	0.6	0.5	0.4	0.2	2.0	9.3	17.0
149°	0.6	0.6	0.7	0.6	0.6	0.5	0.4	0.2	1.8	8.8	16.4
150°	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	1.6	8.3	15.7
151°	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	1.5	7.9	14.8
152°	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	1.3	7.4	13.8
153°	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	1.1	6.9	13.0
154°	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.9	6.4	12.0
155°	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.3	0.7	6.0	11.1
156°	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.3	0.5	5.5	10.2
157°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	5.0	9.5
158°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	4.5	8.7
159°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	4.1	8.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	3.7	7.3
161°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	3.3	6.6
162°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.3	0.3	2.8	5.8
163°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.3	0.3	2.3	5.1
164°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	1.8	4.5
165°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	1.3	4.0
166°	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.9	3.5
167°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.5	2.9
168°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	2.3
169°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	1.6
170°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.9
171°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4
172°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3
173°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3
174°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3
176°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3
177°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3
178°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3
179°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3



REPORT NUMBER: P1444942
CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	214.1	214.1	214.1
1°	245.0	237.4	248.2
2°	261.2	269.0	273.3
3°	286.5	297.4	304.6
4°	310.3	320.2	325.2
5°	325.2	338.1	348.8
6°	347.2	367.0	375.9
7°	367.4	397.3	406.0
8°	392.4	413.4	430.3
9°	410.1	444.1	460.8
10°	435.0	472.7	487.3
11°	461.2	485.0	495.5
12°	470.6	498.0	508.1
13°	480.1	505.3	510.1
14°	488.6	485.1	485.8
15°	488.0	476.5	488.8
16°	461.6	471.2	479.4
17°	463.1	477.7	479.2
18°	448.9	480.6	500.3
19°	449.8	497.1	519.6
20°	456.8	516.6	535.9
21°	469.9	537.3	553.3
22°	485.4	544.7	568.9
23°	499.5	557.2	581.7
24°	508.9	566.4	591.9
25°	520.8	576.7	602.7
26°	529.9	589.1	615.5
27°	535.9	599.7	623.3
28°	540.9	610.9	629.9
29°	547.0	622.9	644.3
30°	552.5	633.5	651.2
31°	560.1	641.1	657.6
32°	566.8	645.9	662.8
33°	573.4	652.1	671.8
34°	576.7	658.0	680.1
35°	581.9	663.4	688.4
36°	584.8	667.8	692.8
37°	587.2	676.5	706.0
38°	590.8	687.6	724.2
39°	597.0	694.2	724.4
40°	601.1	701.8	737.8
41°	603.6	708.6	740.1
42°	608.5	703.1	728.3
43°	607.3	703.7	740.1
44°	604.9	703.8	722.5

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	605.0	690.0	715.6
46°	597.2	697.4	757.4
47°	589.8	735.9	788.0
48°	598.1	742.4	759.8
49°	609.3	722.1	751.8
50°	608.7	718.2	761.6
51°	608.4	721.9	761.5
52°	606.7	723.6	774.6
53°	600.6	734.7	794.5
54°	601.1	745.4	796.1
55°	605.7	745.4	791.8
56°	609.7	745.4	795.5
57°	611.0	749.3	796.7
58°	611.9	747.0	786.4
59°	610.7	734.2	768.3
60°	608.5	720.9	763.7
61°	600.2	720.2	764.1
62°	595.1	714.9	749.2
63°	593.9	702.2	734.5
64°	590.9	686.0	721.9
65°	580.7	677.9	719.9
66°	571.3	681.0	724.4
67°	568.1	669.8	697.0
68°	563.3	653.8	697.1
69°	552.5	649.1	688.4
70°	544.7	646.3	689.6
71°	541.3	626.7	650.9
72°	527.4	597.0	637.6
73°	505.9	597.7	634.1
74°	501.5	587.8	625.6
75°	493.4	578.6	612.9
76°	481.4	567.9	604.4
77°	472.5	555.6	588.1
78°	461.0	546.1	578.2
79°	451.6	536.5	570.2
80°	439.1	516.2	547.5
81°	429.8	512.1	545.5
82°	417.8	494.1	525.4
83°	404.0	479.6	511.4
84°	392.0	466.6	496.8
85°	380.5	453.6	485.7
86°	366.4	437.4	464.6
87°	355.9	427.9	454.6
88°	342.8	415.2	442.1
89°	331.6	399.6	425.9

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CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	322.1	387.0	411.9
91°	311.6	374.7	399.4
92°	302.3	361.9	387.7
93°	297.2	351.3	373.7
94°	292.8	345.5	366.5
95°	286.9	341.8	363.1
96°	280.8	334.8	357.1
97°	273.4	327.6	348.9
98°	266.7	319.2	340.3
99°	261.5	312.8	333.3
100°	256.0	308.0	327.8
101°	250.5	301.8	322.9
102°	244.8	295.6	315.9
103°	239.0	289.6	309.6
104°	232.8	283.6	303.2
105°	226.5	276.9	296.5
106°	220.0	270.0	289.8
107°	213.4	262.7	282.4
108°	206.8	255.3	274.5
109°	200.2	248.0	266.8
110°	193.9	240.5	258.9
111°	187.5	232.9	250.6
112°	181.3	225.6	242.9
113°	175.1	218.4	235.3
114°	169.2	211.6	227.9
115°	163.1	204.6	220.5
116°	157.2	197.7	213.1
117°	151.2	190.8	205.9
118°	145.6	184.3	198.6
119°	139.9	177.7	191.8
120°	134.4	171.1	185.0
121°	128.9	164.8	178.0
122°	123.4	158.4	171.2
123°	118.1	152.1	164.6
124°	112.7	145.9	158.1
125°	107.6	139.9	151.5
126°	102.5	133.9	145.1
127°	97.4	128.1	138.8
128°	93.7	122.2	132.8
129°	88.0	116.4	126.6
130°	82.4	110.8	120.6
131°	77.6	105.2	114.8
132°	72.8	99.6	108.9
133°	68.2	94.1	103.3
134°	63.5	88.8	97.7

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	59.1	83.5	92.2
136°	54.8	78.2	86.7
137°	50.8	73.1	81.2
138°	46.9	68.0	76.0
139°	43.5	62.9	70.6
140°	40.1	57.9	65.5
141°	37.0	52.9	60.3
142°	33.9	48.1	55.3
143°	31.0	43.4	50.3
144°	28.4	38.9	45.3
145°	26.0	34.8	40.3
146°	24.0	31.0	35.4
147°	22.3	27.8	30.8
148°	21.0	25.1	26.6
149°	20.1	23.0	23.7
150°	19.7	22.2	23.1
151°	19.3	22.4	23.5
152°	18.5	21.7	22.8
153°	17.5	20.6	21.6
154°	16.4	19.4	20.4
155°	15.2	18.0	19.0
156°	14.0	16.7	17.7
157°	13.0	15.6	16.5
158°	12.2	14.7	15.5
159°	11.4	13.7	14.5
160°	10.6	12.7	13.5
161°	9.6	11.6	12.4
162°	8.6	10.5	11.2
163°	7.7	9.5	10.1
164°	6.8	8.5	9.0
165°	6.0	7.4	8.0
166°	5.2	6.5	7.0
167°	4.5	5.6	6.1
168°	3.9	4.8	5.2
169°	3.3	4.2	4.5
170°	2.5	3.4	3.7
171°	1.6	2.5	2.9
172°	0.8	1.5	1.9
173°	0.3	0.6	0.9
174°	0.3	0.2	0.3
175°	0.3	0.2	0.2
176°	0.3	0.3	0.2
177°	0.3	0.3	0.2
178°	0.3	0.3	0.3
179°	0.3	0.3	0.3

REPORT NUMBER: P1444942

CATALOG NUMBER: CWP30 (12W-3000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.3	0.3	0.3

(END OF REPORT)