

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: P1444943

Luminaire Tested: CWP30 (12W-4000K)

Issue Date: 5/1/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444943
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-4000K)
Description: COMPACT WALL PACK, 30W
SET TO 12W, 4000K CCT
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.3 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Circular (Dia: 1.88m x H: 0m)
IES Classification: Type IV - Short
BUG Rating: B0 - U3 - G2

Input Watts (W): 11.7
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



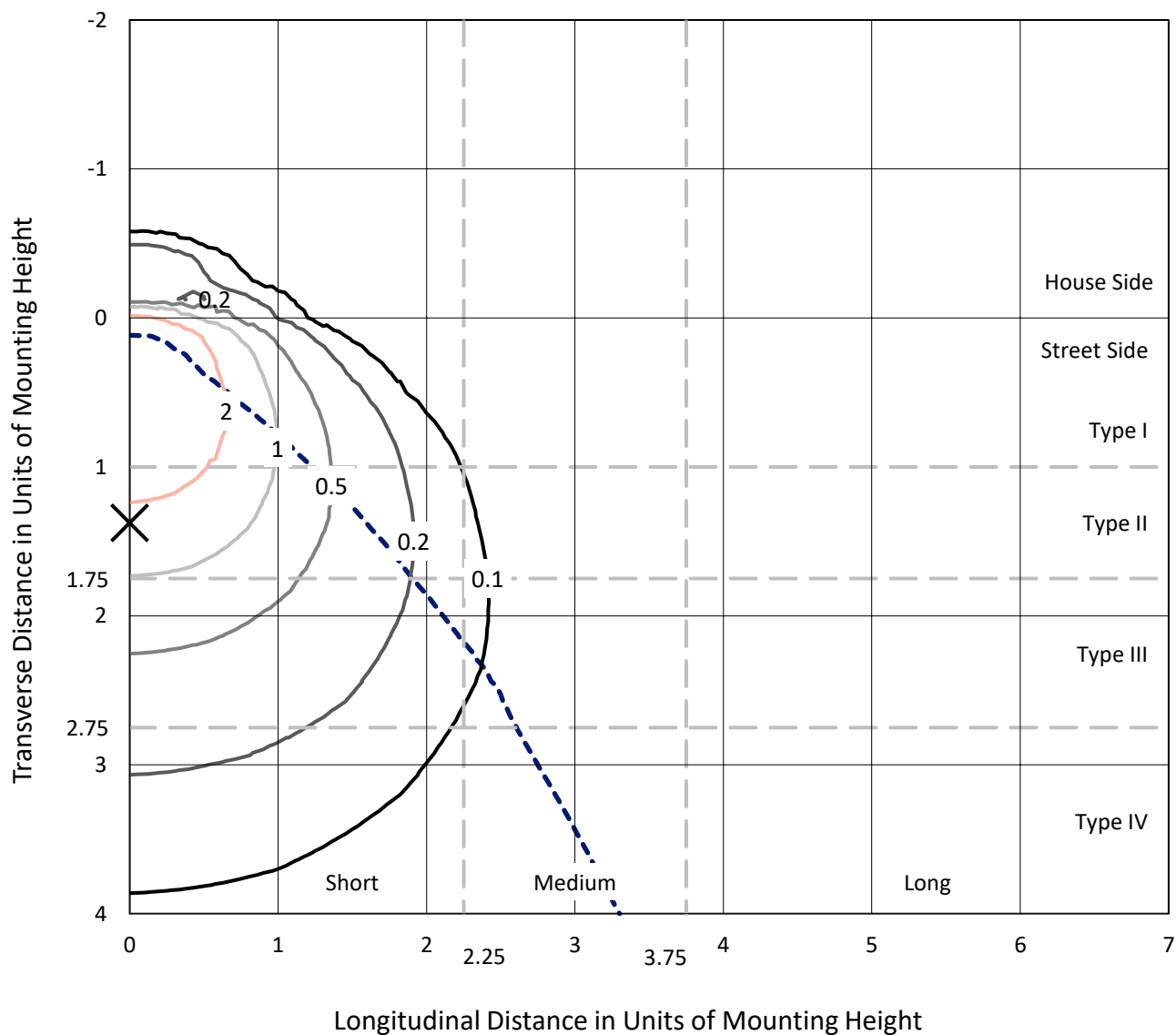
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



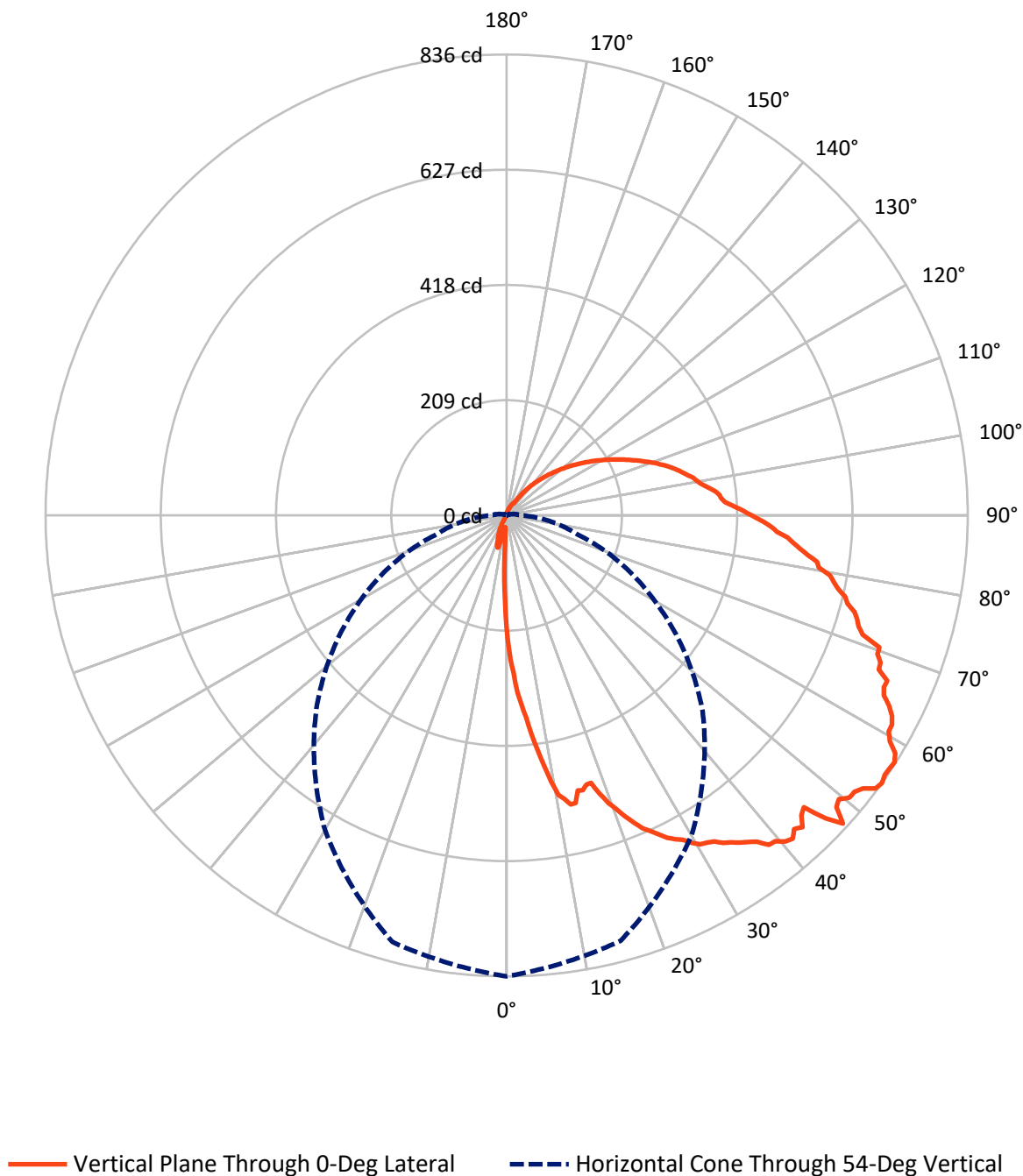
Based on 10 foot mounting height. Maximum calculated value = 4.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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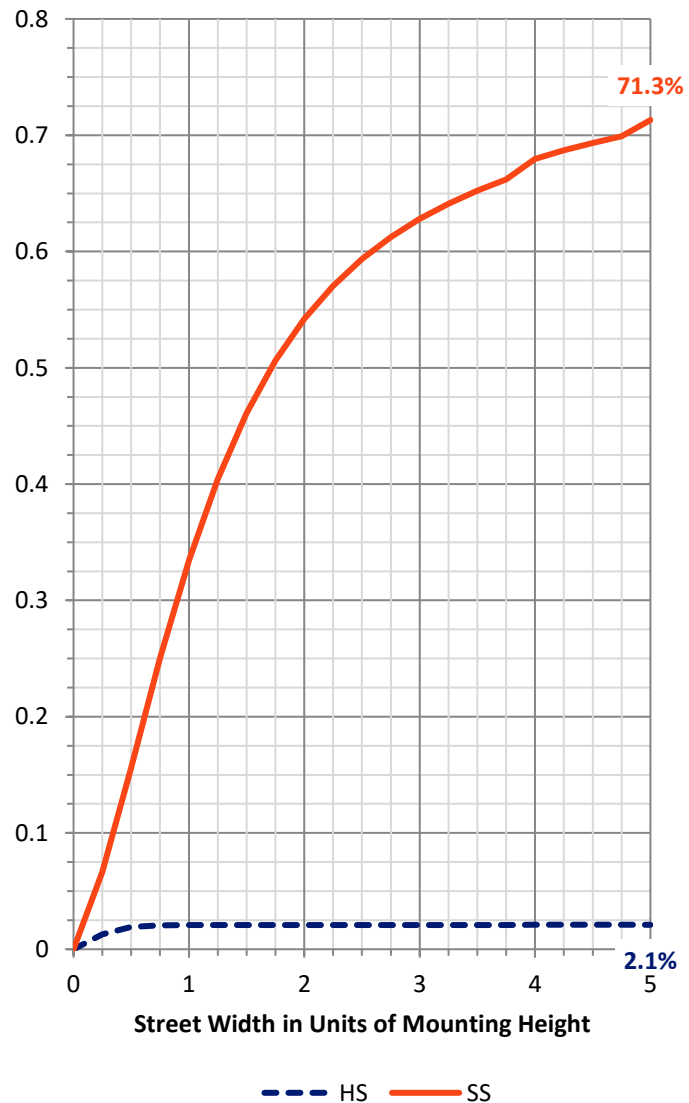
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.8	1.6	36.3
	% Fixture	2.1	0.1	2.2
Street Side	Lumens	1278.7	317.3	1596.0
	% Fixture	78.3	19.4	97.8
Total	Lumens	1313.4	318.9	1632.3
	% Fixture	80.5	19.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	1.2
10°-20°	67.5	4.1
20°-30°	113.6	7.0
30°-40°	155.7	9.5
40°-50°	187.9	11.5
50°-60°	211.6	13.0
60°-70°	214.5	13.1
70°-80°	191.2	11.7
80°-90°	151.1	9.3
90°-100°	113.8	7.0
100°-110°	85.8	5.3
110°-120°	57.4	3.5
120°-130°	34.2	2.1
130°-140°	17.4	1.1
140°-150°	6.9	0.4
150°-160°	2.7	0.2
160°-170°	0.7	0.0
170°-180°	0.1	0.0
0°-90°	1313.4	80.5
0°-180°	1632.3	100.0

Coefficient of Utilization



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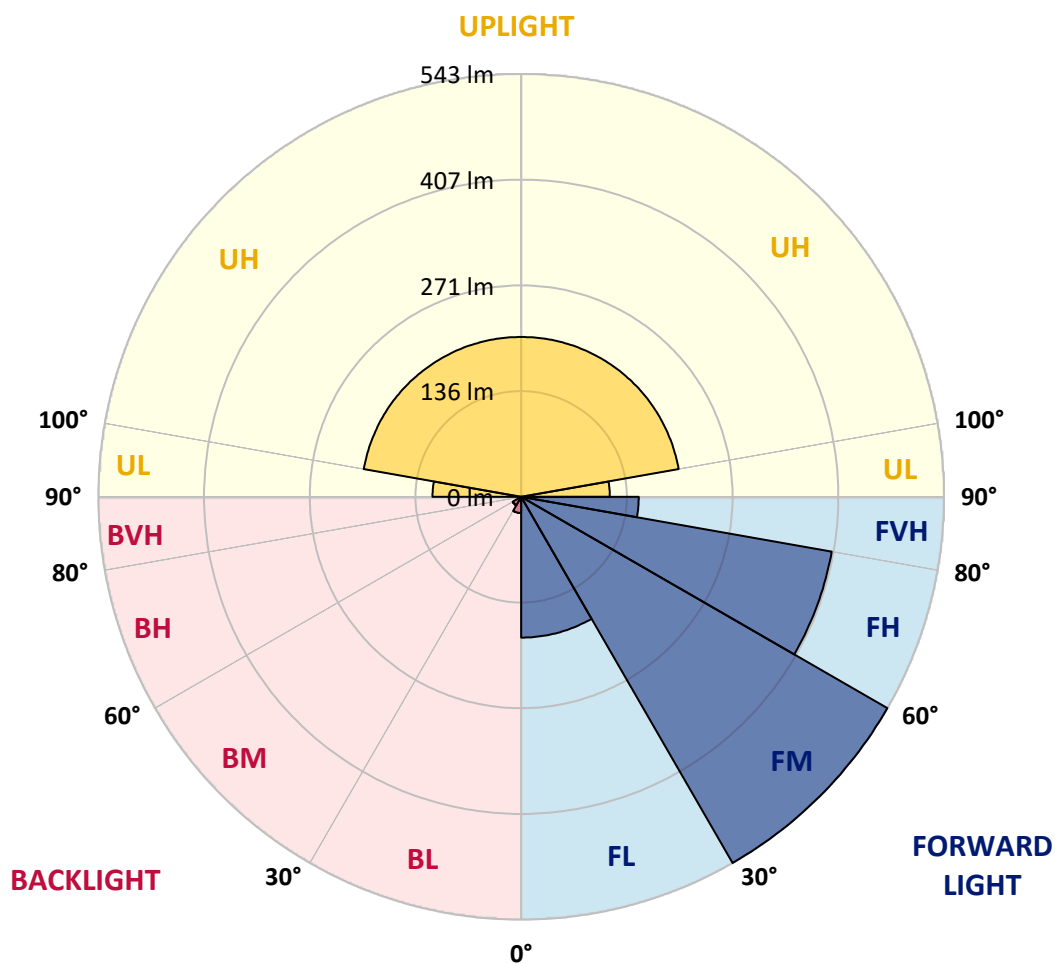
CATALOG NUMBER: CWP30 (12W-4000K)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.7	11.1			
FM	(30°-60°)	542.6	33.2			
FH	(60°-80°)	404.6	24.8			G0/660
FVH	(80°-90°)	150.8	9.2			G2/225
BL	(0°-30°)	20.8	1.3	B0/110		
BM	(30°-60°)	12.6	0.8	B0/220		
BH	(60°-80°)	1.1	0.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	113.8	7.0		U3/500	
UH	(100°-180°)	205.1	12.6		U3/500	

BUG Rating: B0-U3-G2

Type IV Short



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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
1°	261.1	261.4	259.8	256.7	252.5	246.6	225.0	208.9	198.4	189.0	183.5
2°	285.3	284.3	279.2	271.6	263.3	252.3	224.1	195.8	173.4	156.7	144.6
3°	321.7	319.4	308.9	290.6	272.3	258.0	223.8	181.4	150.4	124.2	108.7
4°	343.7	340.4	334.5	317.6	286.0	264.4	223.9	170.1	126.5	96.9	63.7
5°	368.2	362.7	349.9	335.4	306.3	268.7	221.7	158.0	109.1	56.8	34.2
6°	399.5	394.8	375.0	350.9	322.9	272.2	219.5	143.8	83.8	34.4	26.1
7°	427.8	422.2	402.1	367.6	331.5	278.1	217.3	130.4	55.2	26.8	22.8
8°	457.7	446.4	427.9	388.8	340.6	284.5	214.4	120.0	37.8	24.1	22.0
9°	489.3	477.4	451.0	408.4	349.9	288.9	210.2	108.5	29.2	22.3	22.3
10°	515.3	505.6	477.9	425.2	359.7	296.2	208.5	96.9	25.9	22.3	23.3
11°	524.6	516.7	501.5	443.1	373.9	303.0	203.9	81.9	24.0	22.9	25.3
12°	536.8	533.9	512.5	462.7	386.6	305.0	197.2	65.9	22.7	23.7	27.9
13°	536.1	541.0	524.0	478.9	395.4	306.5	193.2	53.2	22.1	25.3	32.0
14°	515.1	525.1	531.8	494.0	398.8	307.0	187.6	43.4	22.1	27.7	38.3
15°	517.0	512.1	526.2	497.6	408.4	302.4	178.3	35.5	22.6	30.7	46.0
16°	509.1	506.9	506.0	501.6	419.1	296.0	172.6	30.0	23.2	34.5	52.1
17°	508.5	511.8	504.1	502.7	421.9	295.3	166.1	26.9	24.4	38.3	57.1
18°	532.1	514.9	493.5	497.3	426.3	292.0	157.3	24.4	26.1	42.7	59.3
19°	553.0	530.5	494.8	481.3	433.7	288.2	152.2	22.6	27.8	46.1	58.5
20°	568.9	552.2	498.8	467.3	429.1	289.9	148.6	21.4	29.8	48.8	55.3
21°	586.9	573.6	512.3	464.9	422.7	290.9	143.2	20.5	31.6	49.8	52.4
22°	603.0	587.6	532.0	451.4	418.8	288.4	139.6	19.9	33.5	49.9	49.2
23°	618.4	602.2	547.5	448.6	417.5	289.0	135.6	19.6	35.3	48.9	46.1
24°	628.8	614.1	559.4	449.4	412.8	289.7	132.2	19.5	36.6	47.8	41.9
25°	640.8	624.2	571.0	457.0	402.5	285.6	129.3	19.8	37.5	45.4	38.4
26°	653.0	636.0	582.7	467.4	387.6	284.9	125.7	20.5	38.0	42.5	35.0
27°	661.6	644.9	591.5	476.0	372.7	282.0	123.1	21.2	38.1	39.4	31.9
28°	668.9	652.7	597.4	486.2	367.8	280.2	120.5	22.3	37.5	36.7	28.3
29°	682.0	664.2	603.1	494.2	360.6	278.9	117.4	23.3	36.3	33.8	25.3
30°	692.0	674.8	610.9	500.0	350.3	279.0	114.0	24.2	35.2	31.0	22.1
31°	695.5	681.4	618.1	503.4	345.8	276.4	110.3	25.3	33.8	28.0	19.0
32°	701.1	686.1	625.2	504.1	341.2	272.9	105.0	26.1	32.3	24.9	15.9
33°	712.1	693.1	630.7	503.6	342.8	269.9	100.6	26.6	30.5	22.5	13.2
34°	719.4	699.9	636.4	502.3	343.7	263.2	96.3	26.9	28.8	20.0	11.1
35°	728.8	705.6	640.7	501.1	346.4	258.4	91.9	27.2	26.9	17.6	9.2
36°	736.5	714.3	645.6	499.6	347.2	251.3	87.3	27.2	25.0	15.4	7.5
37°	745.6	722.8	651.8	500.6	347.6	245.3	82.7	27.0	23.1	13.3	6.2
38°	763.1	733.0	656.8	500.6	346.2	240.7	78.4	26.5	21.3	11.3	5.2
39°	765.5	741.4	660.8	499.3	345.5	233.2	73.8	25.8	19.4	9.6	4.5
40°	777.6	746.7	666.2	498.4	342.9	228.0	70.3	24.9	17.8	8.2	3.7
41°	782.6	755.8	667.6	498.9	340.4	221.9	67.1	23.8	16.1	6.8	2.8
42°	771.3	756.1	671.9	499.5	338.0	214.6	63.7	22.4	14.6	5.5	2.2
43°	778.8	754.6	676.4	501.3	335.8	205.9	60.5	21.0	13.1	4.5	1.8
44°	762.2	754.0	674.2	500.4	334.0	197.6	57.4	19.6	11.7	3.7	1.4

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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	755.2	742.1	672.6	501.5	332.4	189.1	54.4	18.2	10.4	3.0	0.2
46°	798.4	743.6	669.4	504.6	331.0	180.8	51.6	16.9	9.2	2.3	0.1
47°	826.6	779.6	659.2	503.4	329.7	172.7	48.3	15.6	8.0	1.6	0.1
48°	798.2	793.5	659.6	501.9	328.1	164.6	44.8	14.4	6.8	1.1	0.2
49°	791.8	776.7	676.9	502.0	326.8	158.1	41.3	13.3	5.7	0.8	0.2
50°	804.6	769.8	679.2	497.3	324.7	151.4	37.7	12.2	4.8	0.4	0.2
51°	805.2	776.6	674.3	496.2	321.8	145.8	34.3	11.1	4.0	0.1	0.2
52°	813.5	777.7	677.4	502.6	318.2	140.8	30.8	10.2	3.3	0.1	0.2
53°	831.8	785.4	675.7	506.0	314.3	136.0	27.4	9.3	2.7	0.1	0.2
54°	835.6	798.2	670.0	502.2	310.0	132.0	24.7	8.5	2.1	0.2	0.2
55°	831.3	800.3	672.1	499.3	304.9	127.9	22.2	7.6	1.6	0.2	0.2
56°	831.9	799.9	676.4	497.7	302.6	123.7	19.8	6.8	1.1	0.2	0.2
57°	833.5	801.5	681.4	495.3	300.2	119.6	17.3	6.1	0.6	0.2	0.2
58°	826.1	801.4	683.9	495.5	294.6	115.5	15.7	5.4	0.4	0.2	0.2
59°	806.1	794.0	683.3	495.7	288.7	111.8	14.1	4.8	0.2	0.2	0.3
60°	795.7	778.0	682.1	494.4	283.8	108.9	13.0	4.2	0.1	0.2	0.3
61°	794.7	772.2	677.0	492.8	279.3	106.2	11.9	3.7	0.1	0.2	0.3
62°	787.4	767.7	668.1	491.1	274.4	103.0	10.9	3.2	0.1	0.2	0.3
63°	774.9	764.8	663.1	488.3	270.3	99.9	10.0	2.8	0.1	0.2	0.3
64°	757.3	749.1	657.9	480.8	265.6	97.0	9.2	2.3	0.1	0.2	0.3
65°	751.4	734.6	654.4	475.4	261.6	94.3	8.5	1.9	0.1	0.2	0.3
66°	752.0	731.6	643.1	470.3	257.3	91.6	7.8	1.6	0.2	0.3	0.3
67°	730.0	725.1	634.1	466.7	252.1	88.9	7.2	1.3	0.2	0.3	0.4
68°	728.4	707.4	630.4	458.5	245.2	86.3	6.6	1.0	0.2	0.3	0.4
69°	717.2	702.4	620.1	450.6	240.2	83.8	6.0	0.7	0.2	0.3	0.4
70°	716.8	697.8	611.5	447.2	235.4	81.2	5.3	0.5	0.2	0.3	0.4
71°	680.1	681.4	605.0	439.8	229.3	78.3	4.7	0.4	0.2	0.3	0.4
72°	668.6	648.8	597.8	432.8	223.3	75.6	4.1	0.2	0.2	0.3	0.4
73°	662.8	647.4	569.8	427.5	218.6	73.0	3.6	0.2	0.2	0.3	0.4
74°	653.9	635.1	559.9	418.6	212.3	70.2	3.0	0.2	0.2	0.3	0.4
75°	637.7	626.3	550.8	404.7	207.2	67.7	2.6	0.1	0.2	0.3	0.5
76°	630.7	611.8	542.1	395.0	200.7	65.1	2.2	0.1	0.2	0.3	0.5
77°	615.3	603.0	527.8	387.5	192.3	62.7	1.8	0.1	0.2	0.4	0.5
78°	604.6	590.2	516.9	378.6	185.8	59.6	1.5	0.1	0.2	0.4	0.5
79°	596.2	578.2	505.3	368.6	179.8	56.9	1.2	0.1	0.2	0.4	0.5
80°	573.4	559.1	495.4	359.7	173.7	54.3	1.0	0.1	0.2	0.4	0.5
81°	568.7	554.5	476.1	350.9	167.3	51.9	0.8	0.1	0.2	0.4	0.5
82°	550.4	535.9	469.6	337.4	161.0	49.7	0.6	0.1	0.2	0.4	0.5
83°	535.3	520.3	452.1	327.8	155.5	47.2	0.5	0.1	0.3	0.4	0.5
84°	522.4	505.3	438.7	316.6	148.3	45.1	0.3	0.1	0.3	0.4	0.6
85°	510.7	493.5	426.0	304.4	143.1	43.0	0.2	0.1	0.3	0.4	0.6
86°	491.1	473.1	408.4	292.9	137.6	41.3	0.1	0.1	0.3	0.4	0.6
87°	480.9	463.9	397.7	283.7	133.4	39.8	0.1	0.1	0.3	0.4	0.6
88°	467.0	450.3	383.9	273.7	129.5	38.5	0.1	0.1	0.3	0.4	0.6
89°	451.5	435.9	370.2	265.0	126.8	37.6	0.1	0.1	0.3	0.5	0.6

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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	436.7	421.0	358.7	258.9	124.2	36.6	0.1	0.1	0.3	0.5	0.6
91°	423.6	407.3	347.0	252.3	122.3	35.7	0.1	0.2	0.3	0.5	0.6
92°	409.7	393.1	335.4	246.7	120.1	34.6	0.1	0.2	0.3	0.5	0.6
93°	396.6	380.1	328.7	242.4	116.6	33.0	0.1	0.2	0.3	0.5	0.6
94°	390.3	374.4	323.8	237.3	113.5	31.6	0.1	0.2	0.3	0.5	0.6
95°	387.4	371.2	317.6	231.4	109.8	30.2	0.1	0.2	0.3	0.5	0.6
96°	381.2	363.4	310.1	225.2	105.5	28.8	0.1	0.2	0.3	0.5	0.7
97°	372.8	355.4	302.7	217.8	101.9	27.6	0.1	0.2	0.3	0.5	0.7
98°	363.1	345.9	294.6	211.8	98.8	26.5	0.1	0.2	0.3	0.5	0.7
99°	355.3	338.4	288.4	206.1	95.7	25.5	0.1	0.2	0.3	0.5	0.7
100°	349.5	333.1	282.3	200.4	92.6	24.6	0.1	0.2	0.3	0.5	0.7
101°	344.3	326.7	275.7	194.3	89.5	23.7	0.1	0.2	0.3	0.5	0.7
102°	336.3	320.1	269.1	188.4	86.4	22.8	0.1	0.2	0.3	0.5	0.7
103°	329.9	313.1	262.4	181.7	82.9	21.8	0.1	0.2	0.4	0.5	0.7
104°	323.2	306.3	255.6	175.3	79.5	20.8	0.1	0.2	0.4	0.5	0.7
105°	316.1	298.8	248.5	168.8	76.3	19.9	0.1	0.2	0.4	0.5	0.7
106°	308.8	291.6	241.1	162.3	73.1	19.0	0.1	0.2	0.4	0.5	0.7
107°	301.0	283.6	233.4	155.9	70.1	18.1	0.1	0.2	0.4	0.5	0.7
108°	292.6	275.8	226.2	149.8	67.2	17.3	0.1	0.2	0.4	0.5	0.7
109°	284.5	267.5	218.5	143.6	64.5	16.6	0.1	0.2	0.4	0.5	0.7
110°	276.1	259.2	211.1	137.5	61.8	15.9	0.1	0.2	0.4	0.5	0.7
111°	267.3	251.0	204.1	131.8	59.2	15.3	0.1	0.2	0.4	0.5	0.7
112°	258.9	243.0	197.1	126.0	56.5	14.6	0.1	0.2	0.4	0.5	0.7
113°	250.8	235.2	190.2	120.5	53.9	13.9	0.1	0.2	0.4	0.5	0.7
114°	243.0	227.4	183.3	115.0	51.3	13.3	0.1	0.2	0.4	0.5	0.7
115°	235.1	219.7	176.5	109.8	49.0	12.6	0.1	0.2	0.3	0.5	0.7
116°	227.0	212.2	169.9	104.8	46.7	12.0	0.1	0.2	0.3	0.5	0.6
117°	219.3	205.0	163.4	100.0	44.4	11.4	0.1	0.2	0.3	0.5	0.6
118°	211.8	197.7	157.0	95.5	42.2	10.8	0.1	0.2	0.3	0.5	0.6
119°	204.3	190.4	150.8	90.9	40.2	10.1	0.1	0.2	0.3	0.5	0.6
120°	197.0	183.2	144.6	86.3	38.2	9.5	0.1	0.2	0.3	0.5	0.6
121°	189.6	176.3	138.6	81.7	36.4	8.8	0.1	0.2	0.3	0.5	0.6
122°	182.4	169.4	132.4	77.5	34.6	8.3	0.1	0.2	0.3	0.5	0.6
123°	175.3	162.7	126.4	73.8	32.8	8.0	0.1	0.2	0.3	0.5	0.6
124°	168.2	155.9	120.8	70.1	30.9	7.8	0.1	0.2	0.4	0.5	0.6
125°	161.4	149.4	115.3	66.7	29.1	7.5	0.1	0.2	0.4	0.5	0.6
126°	154.4	142.9	109.7	63.3	27.5	7.2	0.1	0.2	0.4	0.5	0.6
127°	147.7	136.6	104.2	60.2	26.1	7.0	0.1	0.2	0.4	0.5	0.6
128°	141.4	130.3	98.9	57.0	24.8	6.8	0.1	0.2	0.4	0.5	0.6
129°	134.7	124.0	93.5	54.0	23.8	6.7	0.1	0.2	0.4	0.5	0.6
130°	128.3	117.9	88.2	51.1	22.8	6.6	0.1	0.2	0.4	0.5	0.6
131°	122.1	111.9	82.8	48.2	21.9	6.6	0.1	0.2	0.4	0.5	0.6
132°	115.9	106.0	77.7	45.4	20.9	6.5	0.1	0.3	0.4	0.5	0.6
133°	109.8	100.2	72.8	42.5	19.8	6.2	0.2	0.3	0.4	0.5	0.6
134°	103.9	94.0	68.0	39.7	18.6	5.8	0.2	0.3	0.4	0.5	0.6

REPORT NUMBER: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	97.9	88.5	63.4	37.1	17.4	5.3	0.2	0.3	0.4	0.5	0.6
136°	92.2	83.0	58.9	34.5	16.4	4.9	0.2	0.3	0.4	0.5	0.6
137°	86.6	77.6	54.7	32.2	15.6	4.6	0.2	0.3	0.4	0.5	0.6
138°	80.9	72.2	50.8	30.2	14.9	4.5	0.2	0.3	0.4	0.5	0.6
139°	75.3	66.6	47.2	28.4	14.2	4.3	0.2	0.3	0.4	0.5	0.6
140°	69.7	61.4	43.7	26.8	13.6	4.1	0.2	0.3	0.4	0.5	0.6
141°	64.2	56.2	40.4	25.2	13.2	3.9	0.2	0.3	0.4	0.5	0.6
142°	58.9	51.0	37.2	23.8	12.9	3.7	0.2	0.3	0.4	0.5	0.6
143°	53.5	46.1	34.2	22.7	12.6	3.4	0.2	0.3	0.4	0.5	0.6
144°	48.2	41.5	31.3	21.7	12.3	3.2	0.2	0.3	0.4	0.5	0.6
145°	42.9	37.4	28.8	20.8	12.0	2.9	0.3	0.3	0.4	0.5	0.6
146°	37.7	33.6	26.5	20.0	11.6	2.7	0.3	0.3	0.4	0.5	0.6
147°	32.8	30.2	24.7	19.2	11.0	2.5	0.3	0.4	0.4	0.5	0.6
148°	28.4	27.2	23.1	18.6	10.4	2.2	0.3	0.4	0.4	0.5	0.6
149°	25.3	24.9	21.8	18.0	9.8	2.0	0.3	0.4	0.5	0.5	0.6
150°	24.7	23.7	21.2	17.2	9.1	1.8	0.3	0.4	0.5	0.5	0.6
151°	25.2	23.7	20.7	16.3	8.6	1.7	0.3	0.4	0.5	0.5	0.6
152°	24.3	23.2	19.9	15.3	8.1	1.5	0.3	0.4	0.5	0.5	0.6
153°	23.1	22.1	18.9	14.3	7.6	1.3	0.3	0.4	0.5	0.5	0.6
154°	21.8	20.8	17.8	13.3	7.1	1.1	0.3	0.4	0.4	0.5	0.6
155°	20.4	19.4	16.6	12.3	6.6	0.9	0.3	0.4	0.4	0.5	0.5
156°	18.9	17.9	15.3	11.4	6.1	0.7	0.4	0.4	0.4	0.5	0.5
157°	17.7	16.7	14.1	10.4	5.6	0.5	0.4	0.4	0.4	0.5	0.5
158°	16.6	15.6	13.1	9.6	5.1	0.4	0.4	0.4	0.4	0.5	0.5
159°	15.5	14.7	12.2	8.7	4.6	0.3	0.4	0.4	0.4	0.5	0.5
160°	14.4	13.6	11.4	8.0	4.2	0.3	0.4	0.4	0.4	0.5	0.5
161°	13.2	12.5	10.4	7.2	3.8	0.3	0.4	0.4	0.4	0.5	0.5
162°	12.0	11.4	9.4	6.5	3.3	0.3	0.4	0.4	0.4	0.5	0.5
163°	10.8	10.2	8.4	5.7	2.8	0.4	0.4	0.4	0.4	0.5	0.4
164°	9.6	9.1	7.4	5.0	2.2	0.4	0.4	0.4	0.4	0.4	0.4
165°	8.5	8.0	6.5	4.4	1.7	0.4	0.4	0.4	0.4	0.4	0.4
166°	7.5	7.0	5.7	3.9	1.2	0.4	0.4	0.4	0.4	0.4	0.4
167°	6.5	6.1	4.9	3.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
168°	5.5	5.2	4.3	2.7	0.5	0.4	0.4	0.4	0.4	0.4	0.4
169°	4.7	4.5	3.7	2.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	4.0	3.7	2.8	1.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	3.1	2.8	1.9	0.6	0.3	0.4	0.4	0.4	0.4	0.4	0.4
172°	2.0	1.8	1.0	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.9	0.8	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4



REPORT NUMBER: P1444943
CATALOG NUMBER: CWP30 (12W-4000K)

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: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
1°	181.1	181.6	180.3	190.5	197.0	209.4	226.0	223.6	235.2	244.6	251.1
2°	135.6	135.1	139.8	150.2	167.2	187.8	213.2	225.4	245.9	257.9	267.0
3°	98.5	96.4	102.7	115.1	135.5	164.7	200.4	224.8	253.0	267.0	285.5
4°	48.2	45.4	52.3	75.5	108.5	142.5	186.7	223.4	256.1	280.7	312.1
5°	28.9	28.1	29.8	38.9	73.9	120.4	173.3	222.3	259.0	295.9	332.3
6°	23.8	23.6	24.2	27.4	42.2	102.2	161.4	220.9	264.1	313.6	342.7
7°	22.0	22.0	22.1	23.5	29.2	77.4	149.1	220.3	270.7	326.8	359.7
8°	22.2	22.4	22.1	22.0	24.9	52.4	135.8	215.8	274.6	334.5	381.3
9°	23.2	23.6	23.0	22.2	22.9	36.9	123.3	212.8	279.7	339.1	402.5
10°	24.9	25.6	24.8	22.9	21.9	29.2	112.5	209.3	285.0	351.3	417.8
11°	27.6	28.3	27.4	24.6	22.2	25.7	102.7	206.1	290.8	361.4	432.7
12°	31.6	32.6	31.2	26.9	22.7	23.5	90.6	200.1	291.5	372.3	451.7
13°	39.1	42.6	38.3	30.4	23.7	22.0	78.2	194.0	292.5	381.0	467.2
14°	49.6	52.4	48.4	35.4	25.5	21.0	66.0	190.7	291.6	383.4	478.3
15°	57.9	60.5	55.8	41.7	28.0	20.9	54.1	184.1	286.2	388.6	480.0
16°	61.0	60.3	60.6	47.8	30.9	21.2	43.8	176.9	280.7	401.0	487.8
17°	59.4	58.8	59.2	52.5	34.4	22.0	36.1	172.3	278.5	403.6	482.2
18°	58.8	57.2	57.7	55.8	37.8	22.8	29.9	166.0	281.0	410.2	477.0
19°	56.7	53.6	56.4	56.1	40.7	23.9	25.8	160.3	278.5	410.1	456.7
20°	52.0	49.3	52.3	53.6	43.1	25.7	23.4	156.4	277.1	405.8	450.3
21°	47.7	44.6	47.0	51.3	44.5	27.6	21.7	153.4	278.9	403.4	442.4
22°	44.3	40.5	44.8	47.8	45.3	29.5	20.2	149.4	279.6	399.5	437.0
23°	40.0	37.4	39.6	44.9	44.4	31.0	19.1	145.6	278.2	393.9	430.6
24°	36.7	34.3	36.4	41.4	43.7	32.6	18.4	142.3	276.6	389.6	438.5
25°	34.0	30.8	33.8	37.7	42.2	33.3	18.0	139.0	276.9	376.3	444.9
26°	30.8	28.0	30.1	34.3	40.5	34.1	17.9	136.6	272.6	361.0	454.7
27°	27.5	24.7	27.1	31.1	38.1	34.2	18.0	133.0	273.2	353.2	464.0
28°	24.2	21.4	23.6	27.9	35.2	34.1	18.2	129.3	273.8	348.5	472.7
29°	20.8	18.0	20.2	24.6	32.4	33.5	18.6	125.8	272.0	339.4	478.6
30°	17.5	13.6	16.7	21.7	29.9	32.6	19.1	122.0	270.1	335.8	484.2
31°	13.3	10.2	13.5	18.8	27.2	31.5	19.8	117.3	267.4	331.0	486.5
32°	10.9	8.2	10.5	15.9	24.7	30.3	20.4	113.1	264.3	332.7	486.3
33°	8.6	7.7	8.5	13.3	22.2	28.8	20.9	108.5	258.2	332.9	485.1
34°	7.2	6.8	7.2	11.0	19.8	27.1	21.3	104.6	250.2	336.5	483.8
35°	6.0	6.1	6.1	9.3	17.4	25.5	21.6	99.5	244.8	337.6	483.5
36°	5.3	5.5	5.2	7.9	15.3	23.7	21.8	94.9	238.9	337.7	484.4
37°	4.8	4.1	4.7	6.5	13.4	21.9	21.6	90.2	231.4	337.3	484.7
38°	3.7	3.6	3.7	5.3	11.6	20.1	21.1	85.5	224.5	336.0	483.4
39°	3.2	3.2	3.2	4.3	9.8	18.3	20.5	81.1	217.6	333.5	482.6
40°	2.8	2.7	2.7	3.6	8.2	16.7	20.0	77.6	210.0	331.2	482.6
41°	2.3	0.3	2.4	2.9	6.9	15.3	19.2	73.9	201.6	329.1	484.2
42°	0.2	0.1	0.4	2.2	5.9	13.8	18.3	71.3	192.8	326.6	486.0
43°	0.1	0.2	0.2	1.7	4.8	12.4	17.5	67.6	187.3	324.8	486.9
44°	0.2	0.2	0.2	1.4	3.9	11.1	16.6	65.0	182.6	323.6	487.6

REPORT NUMBER: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	0.2	0.2	0.2	0.5	3.1	9.9	15.7	61.3	176.2	322.0	489.4
46°	0.2	0.2	0.2	0.2	2.5	8.8	14.7	56.5	170.6	320.8	489.3
47°	0.2	0.2	0.2	0.2	1.9	7.8	13.8	53.0	164.2	320.4	487.9
48°	0.2	0.2	0.2	0.2	1.2	6.8	12.9	48.4	158.0	319.2	487.4
49°	0.2	0.2	0.2	0.2	0.8	5.9	12.0	44.6	152.7	318.5	483.5
50°	0.2	0.2	0.2	0.2	0.6	5.0	11.0	40.8	148.0	316.2	481.2
51°	0.2	0.2	0.2	0.2	0.2	4.2	10.1	36.7	143.2	314.1	485.9
52°	0.2	0.2	0.2	0.2	0.2	3.6	9.2	33.6	138.5	311.6	489.4
53°	0.2	0.3	0.2	0.2	0.2	3.0	8.3	29.9	134.4	307.7	488.4
54°	0.2	0.3	0.3	0.2	0.2	2.4	7.5	27.1	130.1	304.2	485.8
55°	0.3	0.3	0.3	0.2	0.2	1.8	6.7	24.4	126.0	302.6	483.6
56°	0.3	0.3	0.3	0.2	0.2	1.3	5.9	22.3	121.8	299.7	482.0
57°	0.3	0.3	0.3	0.2	0.2	1.0	5.3	20.4	118.4	295.2	480.7
58°	0.3	0.3	0.3	0.3	0.2	0.6	4.6	19.1	114.7	290.2	482.4
59°	0.3	0.3	0.3	0.3	0.2	0.4	4.1	18.0	112.0	286.6	483.7
60°	0.3	0.3	0.3	0.3	0.2	0.2	3.6	16.8	109.4	281.6	480.5
61°	0.3	0.4	0.3	0.3	0.2	0.2	3.1	15.9	106.1	276.5	479.2
62°	0.3	0.4	0.4	0.3	0.2	0.2	2.8	15.2	103.1	273.1	477.7
63°	0.4	0.4	0.4	0.3	0.2	0.2	2.4	14.4	100.4	268.5	473.4
64°	0.4	0.4	0.4	0.3	0.2	0.2	2.1	13.8	97.8	264.3	467.0
65°	0.4	0.4	0.4	0.3	0.3	0.2	1.9	13.1	95.1	259.7	461.7
66°	0.4	0.4	0.4	0.4	0.3	0.2	1.6	12.3	92.6	255.2	458.2
67°	0.4	0.4	0.4	0.4	0.3	0.2	1.3	11.6	90.0	249.4	453.2
68°	0.4	0.5	0.4	0.4	0.3	0.2	1.1	10.9	87.7	243.8	443.8
69°	0.5	0.5	0.5	0.4	0.3	0.2	0.9	10.2	84.9	239.3	440.6
70°	0.5	0.5	0.5	0.4	0.3	0.2	0.7	9.5	82.2	233.4	436.3
71°	0.5	0.5	0.5	0.4	0.3	0.2	0.5	8.8	79.5	227.8	429.7
72°	0.5	0.5	0.5	0.4	0.3	0.2	0.3	8.1	76.8	222.8	424.5
73°	0.5	0.5	0.5	0.4	0.3	0.2	0.2	7.5	73.9	217.3	418.4
74°	0.5	0.6	0.5	0.5	0.3	0.2	0.2	6.8	71.2	212.4	405.1
75°	0.5	0.6	0.5	0.5	0.3	0.2	0.2	6.2	68.6	206.3	395.2
76°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	5.6	66.2	197.9	386.8
77°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	5.0	63.2	191.3	380.3
78°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	4.4	60.1	185.5	371.4
79°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	3.9	57.6	179.0	362.2
80°	0.6	0.6	0.6	0.5	0.4	0.2	0.1	3.4	55.0	172.9	354.6
81°	0.6	0.7	0.6	0.5	0.4	0.2	0.1	2.8	52.6	166.7	341.7
82°	0.6	0.7	0.6	0.5	0.4	0.2	0.1	2.4	50.2	160.8	334.0
83°	0.6	0.7	0.6	0.6	0.4	0.3	0.1	1.9	47.9	154.1	321.2
84°	0.6	0.7	0.7	0.6	0.4	0.3	0.1	1.4	45.7	148.2	310.4
85°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	1.0	43.8	142.7	300.2
86°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.7	42.3	137.8	289.7
87°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.4	40.9	133.7	279.5
88°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.2	40.1	130.5	269.9
89°	0.7	0.7	0.7	0.6	0.4	0.3	0.1	0.1	39.2	128.0	262.8

REPORT NUMBER: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.7	0.7	0.7	0.6	0.5	0.3	0.1	0.1	38.3	126.0	256.2
91°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	37.3	123.9	249.9
92°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	35.8	121.0	245.6
93°	0.7	0.8	0.7	0.6	0.5	0.3	0.2	0.1	34.3	117.8	240.8
94°	0.7	0.8	0.8	0.6	0.5	0.3	0.2	0.0	32.8	114.4	235.5
95°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.0	31.4	110.2	229.7
96°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.0	30.1	106.4	222.9
97°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.0	29.0	103.2	216.4
98°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.0	27.9	100.3	210.9
99°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.0	27.0	97.1	205.4
100°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	26.0	94.0	199.7
101°	0.8	0.8	0.8	0.7	0.5	0.3	0.2	0.1	25.1	90.9	193.9
102°	0.8	0.9	0.8	0.7	0.5	0.3	0.2	0.1	24.0	87.8	187.9
103°	0.8	0.9	0.8	0.7	0.5	0.3	0.2	0.1	22.9	84.3	181.4
104°	0.8	0.9	0.8	0.7	0.5	0.3	0.2	0.1	21.9	81.0	174.9
105°	0.8	0.9	0.8	0.7	0.5	0.3	0.2	0.1	21.0	77.8	168.7
106°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	20.0	74.7	162.6
107°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	19.2	71.8	156.4
108°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	18.4	68.9	150.2
109°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	17.6	66.2	144.2
110°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	16.9	63.5	138.4
111°	0.8	0.9	0.8	0.7	0.5	0.4	0.2	0.1	16.1	60.7	132.7
112°	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	15.4	58.0	126.8
113°	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	14.7	55.3	121.2
114°	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	14.0	52.8	115.9
115°	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	13.3	50.3	110.7
116°	0.8	0.8	0.8	0.7	0.5	0.4	0.2	0.1	12.7	47.8	105.8
117°	0.7	0.8	0.8	0.7	0.5	0.4	0.2	0.1	12.0	45.6	101.0
118°	0.7	0.8	0.8	0.7	0.5	0.4	0.2	0.1	11.4	43.4	96.4
119°	0.7	0.8	0.8	0.7	0.5	0.4	0.2	0.1	10.7	41.2	91.8
120°	0.7	0.8	0.8	0.7	0.5	0.4	0.2	0.1	10.0	39.2	87.2
121°	0.7	0.8	0.8	0.7	0.5	0.4	0.2	0.1	9.4	37.1	82.6
122°	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.1	8.9	35.1	78.5
123°	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.1	8.6	33.1	74.6
124°	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.1	8.3	31.2	70.9
125°	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.1	8.0	29.5	67.5
126°	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.1	7.7	28.0	64.2
127°	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.1	7.4	26.6	60.9
128°	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.1	7.3	25.3	57.8
129°	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.1	7.2	24.2	54.7
130°	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.1	7.1	23.1	51.8
131°	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.1	7.0	22.0	48.8
132°	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.1	6.7	20.9	45.8
133°	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.1	6.3	19.6	42.8
134°	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.1	5.8	18.3	39.8

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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.1	5.3	17.3	37.0
136°	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.1	5.0	16.4	34.4
137°	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.1	4.9	15.6	32.1
138°	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.1	4.7	14.8	30.2
139°	0.7	0.8	0.8	0.7	0.6	0.5	0.4	0.1	4.5	14.2	28.5
140°	0.7	0.8	0.7	0.7	0.6	0.5	0.4	0.1	4.3	13.6	26.8
141°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	4.0	13.2	25.2
142°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.8	13.0	23.8
143°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.5	12.7	22.6
144°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.2	12.4	21.6
145°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	3.0	12.0	20.7
146°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	2.7	11.5	19.9
147°	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	2.5	10.8	19.1
148°	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.2	2.2	10.2	18.5
149°	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.2	2.0	9.7	17.9
150°	0.6	0.7	0.7	0.7	0.6	0.5	0.5	0.2	1.8	9.1	17.0
151°	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.2	1.6	8.6	16.0
152°	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.2	1.4	8.0	15.0
153°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.2	1.2	7.5	14.0
154°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	1.0	6.9	12.9
155°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.7	6.4	12.0
156°	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.5	5.9	11.0
157°	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.3	0.3	5.4	10.2
158°	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.3	0.3	4.9	9.4
159°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	4.4	8.6
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	4.0	7.8
161°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	3.5	7.0
162°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	3.0	6.3
163°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.3	2.5	5.5
164°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.3	0.3	1.9	4.8
165°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.3	0.3	1.4	4.3
166°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.9	3.7
167°	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.3	0.3	0.5	3.1
168°	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.3	0.3	2.4
169°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	1.7
170°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.9
171°	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4
172°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3
173°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3
174°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3
176°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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	0.4	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3



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CATALOG NUMBER: CWP30 (12W-4000K)

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: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	224.5	224.5	224.5
1°	256.4	258.8	261.1
2°	274.4	280.9	285.3
3°	304.6	315.0	321.7
4°	332.2	339.6	343.7
5°	348.0	360.9	368.2
6°	373.0	393.2	399.5
7°	397.7	421.6	427.8
8°	421.4	445.4	457.7
9°	442.6	477.0	489.3
10°	471.0	504.8	515.3
11°	494.6	516.5	524.6
12°	505.8	532.9	536.8
13°	518.3	536.6	536.1
14°	521.5	518.8	515.1
15°	517.2	506.8	517.0
16°	493.4	502.6	509.1
17°	493.4	509.9	508.5
18°	482.4	514.0	532.1
19°	485.4	530.6	553.0
20°	493.1	552.6	568.9
21°	507.0	573.6	586.9
22°	525.0	584.0	603.0
23°	540.8	598.7	618.4
24°	551.2	609.0	628.8
25°	562.4	619.4	640.8
26°	572.3	630.8	653.0
27°	579.4	640.8	661.6
28°	585.0	650.1	668.9
29°	592.4	660.4	682.0
30°	599.1	671.4	692.0
31°	606.5	678.3	695.5
32°	612.6	683.3	701.1
33°	618.6	689.9	712.1
34°	623.4	696.9	719.4
35°	629.0	704.4	728.8
36°	633.6	711.6	736.5
37°	637.8	719.5	745.6
38°	640.6	731.7	763.1
39°	647.6	739.0	765.5
40°	652.6	746.7	777.6
41°	655.0	756.2	782.6
42°	660.9	754.0	771.3
43°	661.7	752.1	778.8
44°	659.5	751.9	762.2

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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	658.5	738.9	755.2
46°	651.7	747.9	798.4
47°	645.0	786.5	826.6
48°	654.3	793.4	798.2
49°	666.7	772.6	791.8
50°	666.5	770.6	804.6
51°	666.6	776.7	805.2
52°	666.2	777.7	813.5
53°	658.5	788.3	831.8
54°	658.5	800.6	835.6
55°	664.1	801.6	831.3
56°	668.6	800.6	831.9
57°	670.5	803.9	833.5
58°	672.4	803.4	826.1
59°	671.7	792.5	806.1
60°	670.5	776.4	795.7
61°	662.4	771.4	794.7
62°	653.8	765.7	787.4
63°	649.1	760.3	774.9
64°	647.5	744.0	757.3
65°	639.8	731.4	751.4
66°	629.2	730.3	752.0
67°	623.7	719.3	730.0
68°	617.7	705.3	728.4
69°	608.6	699.7	717.2
70°	601.6	695.0	716.8
71°	594.4	672.9	680.1
72°	578.2	644.6	668.6
73°	555.1	644.6	662.8
74°	550.0	633.9	653.9
75°	541.8	622.8	637.7
76°	528.7	610.2	630.7
77°	519.1	597.9	615.3
78°	506.5	587.4	604.6
79°	495.1	577.5	596.2
80°	482.4	557.4	573.4
81°	470.3	550.6	568.7
82°	457.7	532.8	550.4
83°	442.4	515.6	535.3
84°	428.5	501.5	522.4
85°	417.1	489.0	510.7
86°	401.8	471.3	491.1
87°	390.1	461.7	480.9
88°	376.1	447.7	467.0
89°	363.8	431.3	451.5

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CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	352.8	417.8	436.7
91°	340.6	404.3	423.6
92°	330.5	389.8	409.7
93°	325.0	378.1	396.6
94°	320.2	372.8	390.3
95°	313.6	369.3	387.4
96°	306.6	361.7	381.2
97°	298.6	353.7	372.8
98°	291.0	344.3	363.1
99°	285.2	337.2	355.3
100°	278.9	331.7	349.5
101°	272.6	325.4	344.3
102°	266.6	318.6	336.3
103°	260.0	311.7	329.9
104°	253.2	305.3	323.2
105°	246.2	298.1	316.1
106°	239.1	290.5	308.8
107°	231.8	282.7	301.0
108°	224.6	275.0	292.6
109°	217.2	266.7	284.5
110°	210.1	258.6	276.1
111°	203.1	250.3	267.3
112°	196.2	242.4	258.9
113°	189.7	234.8	250.8
114°	183.0	227.1	243.0
115°	176.4	219.4	235.1
116°	169.8	212.1	227.0
117°	163.2	204.7	219.3
118°	157.0	197.6	211.8
119°	151.0	190.2	204.3
120°	145.0	183.4	197.0
121°	139.0	176.4	189.6
122°	133.0	169.6	182.4
123°	127.0	162.9	175.3
124°	121.4	156.2	168.2
125°	115.8	149.6	161.4
126°	110.2	143.2	154.4
127°	104.8	136.9	147.7
128°	99.5	130.6	141.4
129°	94.1	124.4	134.7
130°	88.8	118.3	128.3
131°	83.5	112.3	122.1
132°	78.3	106.3	115.9
133°	73.3	100.6	109.8
134°	68.3	94.5	103.9

REPORT NUMBER: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	63.4	89.0	97.9
136°	58.9	83.5	92.2
137°	54.5	78.1	86.6
138°	50.6	72.6	80.9
139°	46.8	67.1	75.3
140°	43.3	61.7	69.7
141°	39.8	56.5	64.2
142°	36.6	51.4	58.9
143°	33.5	46.3	53.5
144°	30.6	41.6	48.2
145°	28.0	37.2	42.9
146°	25.9	33.2	37.7
147°	24.1	29.8	32.8
148°	22.6	26.9	28.4
149°	21.6	24.7	25.3
150°	21.2	23.9	24.7
151°	20.7	24.0	25.2
152°	19.9	23.3	24.3
153°	18.8	22.1	23.1
154°	17.7	20.8	21.8
155°	16.4	19.3	20.4
156°	15.1	17.9	18.9
157°	14.0	16.7	17.7
158°	13.1	15.7	16.6
159°	12.2	14.7	15.5
160°	11.3	13.6	14.4
161°	10.3	12.4	13.2
162°	9.2	11.3	12.0
163°	8.2	10.2	10.8
164°	7.3	9.1	9.6
165°	6.4	7.9	8.5
166°	5.5	7.0	7.5
167°	4.8	6.0	6.5
168°	4.2	5.1	5.5
169°	3.5	4.4	4.7
170°	2.6	3.6	4.0
171°	1.7	2.7	3.1
172°	0.8	1.6	2.0
173°	0.3	0.7	0.9
174°	0.3	0.3	0.3
175°	0.3	0.3	0.2
176°	0.3	0.3	0.3
177°	0.3	0.3	0.3
178°	0.3	0.3	0.3
179°	0.3	0.3	0.3

REPORT NUMBER: P1444943

CATALOG NUMBER: CWP30 (12W-4000K)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.3	0.3	0.3

(END OF REPORT)