Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: STREETWORKS

Report Number: P314642

Luminaire Tested: **MPB-A2-D-U-ASYM**

Issue Date: 3/3/2020

Report Generated By E9812814

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Test Information

Test Method:	LM-79-08
Report Number:	P314642
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MPB-A2-D-U-ASYM
Description:	BRECKENRIDGE POST TOP LUMINAIRE
	(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1926 lumens
Efficiency:	N/A
Efficacy:	108.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification:	Type IV - Short - Non-Cutoff
BUG Rating:	B1 - U3 - G3

Input Watts (W):	17.7
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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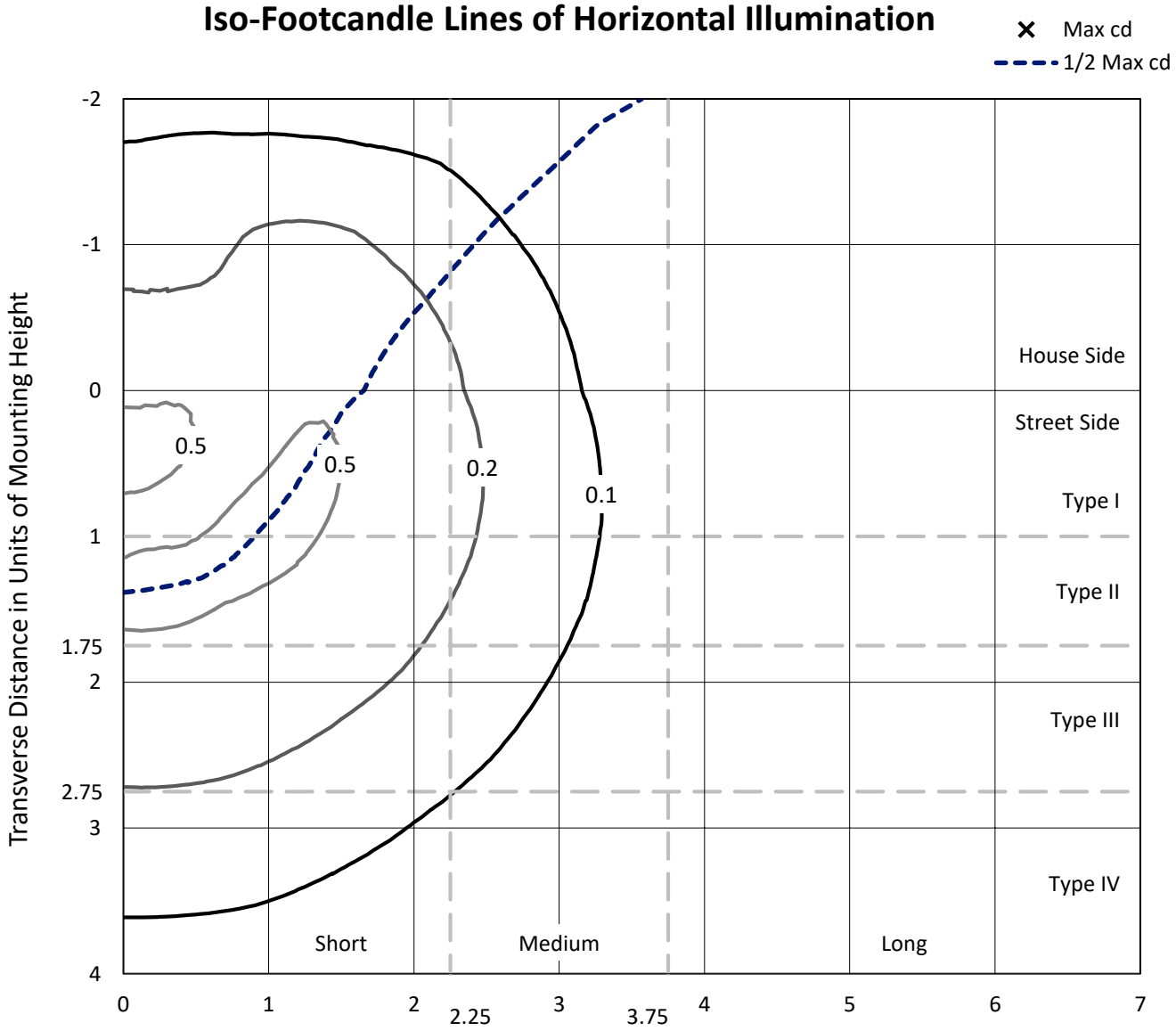
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - Non-Cutoff

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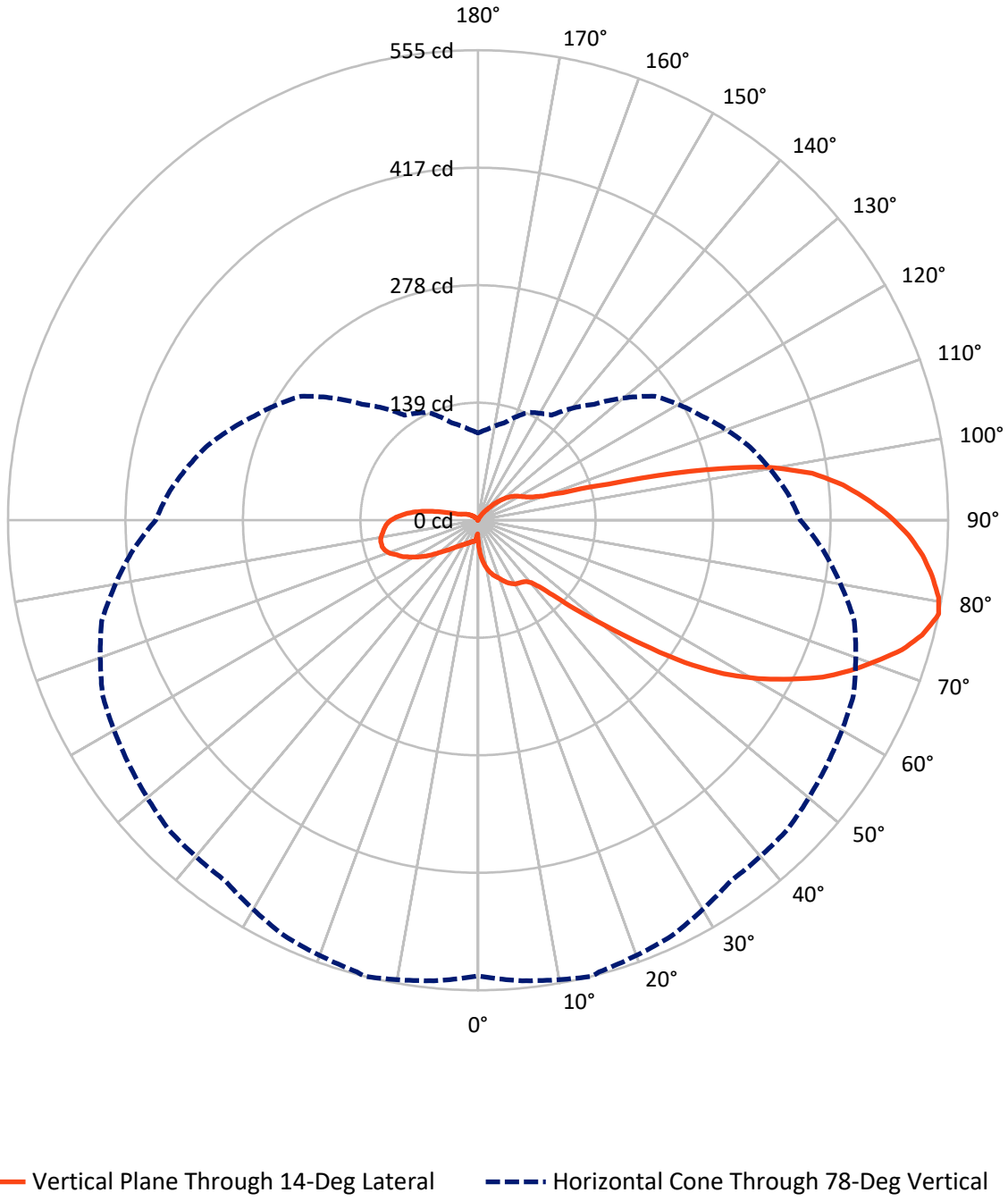
Luminous Intensity Polar Plot



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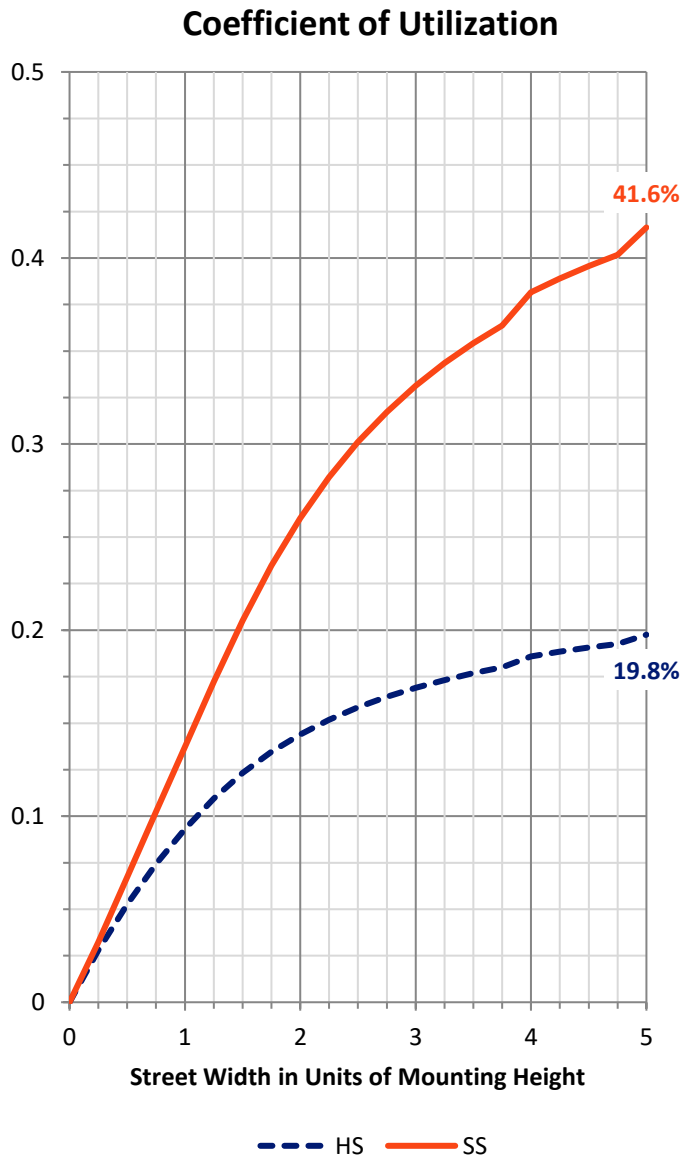
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.1	158.6	590.7
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	962.8	372.5	1335.3
	% Fixture	50.0	19.3	69.3
Total	Lumens	1395.0	531.0	1926.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.2
10°-20°	13.6	0.7
20°-30°	27.0	1.4
30°-40°	41.2	2.1
40°-50°	78.0	4.0
50°-60°	188.0	9.8
60°-70°	298.1	15.5
70°-80°	372.7	19.4
80°-90°	373.1	19.4
90°-100°	306.0	15.9
100°-110°	130.4	6.8
110°-120°	45.0	2.3
120°-130°	30.1	1.6
130°-140°	15.0	0.8
140°-150°	4.3	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1395.0	72.4
0°-180°	1926.0	100.0



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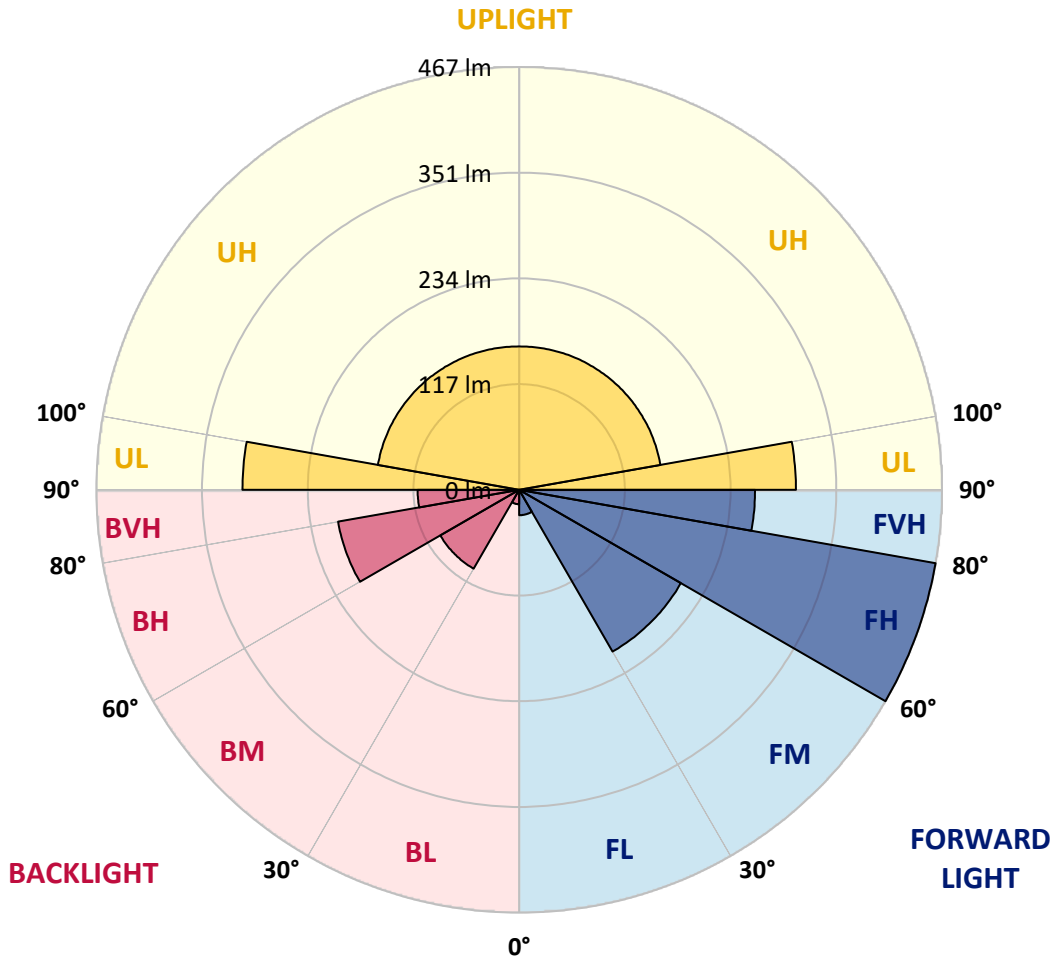
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	28.1	1.5			
FM	(30°-60°)	206.5	10.7			
FH	(60°-80°)	467.5	24.3			G0/660
FVH	(80°-90°)	260.8	13.5			G3/500
BL	(0°-30°)	15.9	0.8	B0/110		
BM	(30°-60°)	100.6	5.2	B0/220		
BH	(60°-80°)	203.3	10.6	B1/500		G1/500
BVH	(80°-90°)	112.3	5.8			G2/225
UL	(90°-100°)	306.0	15.9		U3/500	
UH	(100°-180°)	158.6	8.2		U3/500	

BUG Rating: B1-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	37.5	37.2	36.8	36.5	36.2	34.4	33.7	32.5	31.0	29.1	27.6
5°	46.4	46.1	45.5	45.5	44.6	43.3	42.1	40.6	38.1	35.6	33.4
7.5°	53.6	52.9	52.6	52.3	51.7	50.2	48.6	46.7	44.6	42.1	39.6
10°	58.8	58.8	58.5	58.5	57.6	56.0	53.9	52.0	49.5	46.4	43.7
12.5°	63.8	63.5	63.2	63.2	62.2	60.4	58.2	56.0	53.6	50.5	47.7
15°	67.2	67.2	67.2	66.9	65.6	64.1	61.9	60.1	57.3	53.9	51.1
17.5°	70.6	70.6	70.3	70.3	68.7	67.2	65.0	63.2	60.4	57.0	53.9
20°	74.3	74.3	73.7	73.4	72.1	70.9	68.4	66.3	63.5	60.4	57.0
22.5°	78.9	78.6	78.0	78.0	76.5	74.3	72.1	70.0	67.2	63.8	60.4
25°	82.7	82.7	82.0	81.7	80.5	78.6	76.2	73.1	70.3	66.9	63.8
27.5°	86.1	85.8	84.8	84.5	83.3	81.4	78.9	76.2	72.8	69.3	65.9
30°	88.9	88.2	87.3	87.3	85.8	83.6	81.1	78.3	74.3	71.2	67.8
32.5°	90.1	89.8	88.5	88.2	86.7	84.5	82.0	78.9	75.5	72.1	69.0
35°	91.3	91.0	89.8	89.5	87.6	85.1	82.4	79.6	75.9	73.1	69.7
37.5°	93.5	93.5	91.9	91.6	89.8	87.9	85.1	82.4	79.3	75.5	71.8
40°	98.1	97.8	96.9	96.3	94.7	94.1	91.6	88.9	85.8	83.0	77.4
42.5°	108.4	108.7	108.7	108.0	106.5	107.4	105.9	103.7	100.0	96.3	89.2
45°	126.9	130.3	129.4	128.8	126.9	130.0	129.1	128.2	122.9	117.3	107.4
47.5°	155.4	160.1	161.0	158.5	156.7	159.1	162.8	161.0	153.9	147.1	134.7
50°	192.6	197.5	196.3	195.7	191.9	199.1	204.0	203.1	194.7	186.4	167.2
52.5°	239.0	241.5	244.0	241.2	237.8	247.1	257.9	256.7	248.3	235.6	211.5
55°	291.9	294.4	296.9	293.5	288.5	299.4	313.6	310.8	302.2	281.4	253.6
57.5°	338.4	343.0	342.1	340.9	330.6	341.5	352.9	350.1	339.6	316.1	284.2
60°	373.4	376.2	379.9	378.6	373.1	375.2	387.0	380.2	367.5	341.5	307.1
62.5°	404.9	408.7	413.6	412.4	408.0	404.6	413.9	404.9	391.9	366.2	328.2
65°	436.2	440.5	447.4	445.5	439.9	432.2	441.2	431.9	417.3	389.5	347.4
67.5°	461.6	466.2	474.3	473.4	469.7	460.7	463.2	451.7	436.5	407.4	363.2
70°	487.6	492.9	498.8	500.0	489.8	481.7	483.9	471.2	457.9	429.1	381.4
72.5°	510.2	512.7	523.8	526.3	512.7	498.8	501.2	486.7	472.1	440.2	394.1
75°	530.3	533.1	541.8	542.1	526.6	513.6	514.2	502.2	489.2	457.3	405.9
77.5°	539.0	544.3	553.6	550.8	540.2	520.4	522.6	510.5	495.0	460.1	407.4
78°	538.4	546.1	555.4	552.6	541.8	520.4	517.0	503.4	489.5	460.4	409.6
80°	536.2	545.8	551.7	548.9	539.3	514.9	510.5	499.1	486.1	456.6	403.4
82.5°	523.8	534.4	540.5	538.4	531.3	505.6	503.4	498.8	487.0	455.1	399.1
85°	513.0	523.5	526.9	525.4	517.6	493.5	492.3	483.9	468.1	438.4	385.4
87.5°	498.4	507.4	509.0	509.3	500.3	475.8	474.0	467.2	455.7	428.5	376.2
90°	475.8	483.6	487.0	487.0	479.6	457.0	457.3	455.1	444.6	415.5	363.2
92.5°	450.1	457.6	461.0	460.7	454.2	434.4	434.4	430.3	416.7	391.3	342.4
95°	422.9	428.5	433.4	433.1	424.5	405.9	405.3	404.9	391.9	367.2	322.3
97.5°	388.8	391.9	398.8	397.8	389.8	375.8	376.5	377.7	365.9	342.7	299.4
100°	336.5	336.2	344.9	343.0	338.1	329.1	333.1	335.0	325.1	304.9	268.4
102.5°	250.5	250.2	257.6	255.7	256.0	252.6	259.1	262.2	256.0	240.6	210.8
105°	157.0	155.7	160.1	158.8	157.3	152.9	153.9	152.6	149.2	139.9	122.9
107.5°	104.0	103.1	105.3	105.9	103.1	100.0	99.1	97.8	94.1	88.5	78.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	80.5	80.5	*81.7*	81.1	79.9	78.3	77.1	76.5	73.7	70.0	62.8
112.5°	69.0	69.0	*70.3*	70.0	69.0	67.5	67.2	66.6	64.7	61.6	56.0
115°	62.8	62.8	*63.8*	63.8	62.8	61.3	61.0	60.7	59.4	56.7	51.7
117.5°	58.8	58.5	*59.4*	59.4	58.2	57.3	57.3	57.0	56.0	53.2	48.9
120°	55.1	55.1	*55.7*	55.7	54.8	54.2	54.5	54.2	53.2	50.5	46.1
122.5°	51.7	51.7	*52.3*	52.0	51.4	51.4	51.4	51.4	50.5	48.0	43.7
125°	47.4	47.4	*48.0*	48.0	47.4	47.7	48.0	48.0	47.4	44.9	40.9
127.5°	42.7	42.7	*43.3*	43.3	43.0	43.7	44.6	44.3	43.7	41.5	37.8
130°	37.5	37.5	*38.1*	38.4	38.4	39.3	39.9	39.9	39.3	37.5	33.7
132.5°	31.9	31.6	*32.2*	32.5	33.1	34.1	34.4	34.4	34.1	32.2	29.1
135°	25.7	25.7	*26.6*	26.9	27.6	28.2	28.5	28.8	28.5	26.9	24.1
137.5°	19.8	19.8	*20.7*	21.1	21.7	22.0	22.0	22.6	22.0	21.1	18.9
140°	15.5	15.5	*16.1*	16.4	17.0	17.0	16.7	16.7	16.4	15.8	13.9
142.5°	12.4	12.1	*13.0*	13.0	13.3	13.6	13.3	13.3	13.0	12.4	11.1
145°	9.3	9.3	*9.6*	9.9	9.9	10.2	10.2	10.2	9.9	9.6	8.4
147.5°	6.2	6.2	*6.8*	6.8	7.1	7.4	7.4	7.4	7.1	6.8	5.9
150°	3.1	3.1	*3.4*	3.7	4.0	4.0	4.3	4.6	4.3	4.0	3.4
152.5°	0.0	0.0	*0.3*	0.3	0.6	0.9	1.2	1.2	1.2	1.2	1.2
155°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.0	0.0	*0.0*	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	*0.0*	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	*0.0*	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.0	0.0	*0.0*	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.0	0.0	*0.0*	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.0	0.0	*0.0*	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.0	0.0	*0.0*	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.0	0.0	*0.0*	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.0	0.0	*0.0*	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180°	0.3	0.3	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	26.6	25.4	23.8	22.3	20.7	19.2	18.0	16.7	16.1	15.5	15.5
5°	32.2	31.0	28.8	26.6	24.5	22.9	21.7	20.7	20.1	20.1	20.4
7.5°	38.4	37.2	34.1	31.0	28.8	26.9	25.4	24.5	23.5	22.9	22.9
10°	42.4	40.6	37.8	35.0	32.5	30.0	28.2	26.6	25.1	24.1	23.8
12.5°	45.8	44.3	40.9	37.8	35.0	31.9	29.7	27.6	25.7	24.5	24.1
15°	48.9	47.1	43.7	40.2	36.8	33.4	30.6	28.2	26.3	24.8	24.8
17.5°	52.0	50.2	46.4	42.7	38.7	35.0	31.6	29.1	26.9	25.7	25.4
20°	55.1	52.9	49.2	45.2	40.6	36.5	32.8	30.0	27.9	26.9	26.6
22.5°	58.2	56.0	52.0	47.7	42.7	38.1	34.1	31.0	28.8	28.2	28.2
25°	61.3	58.8	54.5	49.8	44.6	39.9	35.6	32.2	30.0	29.4	29.7
27.5°	63.5	61.3	56.7	51.7	46.4	41.5	36.8	33.4	31.3	31.0	31.0
30°	65.6	63.2	58.2	53.2	48.0	43.0	38.4	34.7	32.8	32.5	32.8
32.5°	66.9	64.4	59.1	54.5	49.2	44.0	39.6	35.9	34.1	34.4	34.4
35°	67.5	65.0	60.4	55.4	50.2	45.2	40.9	37.5	36.2	36.2	36.2
37.5°	69.3	66.9	61.9	57.0	52.0	47.1	42.7	39.3	38.4	38.7	38.4
40°	74.0	71.5	65.9	60.4	55.1	49.8	45.2	41.8	41.2	41.5	41.2
42.5°	85.1	82.4	74.3	66.9	60.4	54.2	48.6	45.2	44.6	44.6	44.9
45°	101.5	97.8	88.9	77.7	69.3	61.0	53.9	49.5	48.6	48.3	48.0
47.5°	125.7	120.1	109.0	94.7	82.0	71.2	60.7	54.8	52.9	52.3	51.7
50°	157.3	151.1	134.7	116.1	101.9	84.5	70.0	61.6	58.2	56.3	55.7
52.5°	196.3	190.1	168.1	145.2	124.8	101.9	82.7	70.0	65.0	61.3	60.4
55°	235.6	229.1	204.6	173.4	150.8	119.8	96.6	79.9	72.8	66.9	66.3
57.5°	263.8	255.4	229.1	197.2	172.4	135.9	107.1	88.5	79.6	72.8	71.2
60°	283.0	274.3	248.6	213.6	189.2	148.3	115.8	96.0	86.7	79.3	78.0
62.5°	301.9	293.2	264.1	228.2	202.5	156.0	123.2	102.5	93.2	85.4	85.4
65°	319.5	310.2	278.6	243.0	215.5	163.5	130.0	109.0	100.3	92.9	94.4
67.5°	334.1	324.8	291.9	257.6	226.0	171.5	135.0	118.0	105.0	99.4	99.1
70°	351.1	340.2	305.9	270.0	239.0	181.7	139.9	125.1	111.8	105.9	100.9
72.5°	362.5	348.9	317.6	279.6	244.9	187.6	145.2	133.7	116.4	106.5	103.1
75°	374.9	362.5	328.8	287.6	255.4	192.9	148.3	137.5	118.6	106.8	102.8
77.5°	377.1	364.1	331.3	289.2	254.5	195.7	152.3	139.3	118.6	107.1	103.4
78°	*380.8*	*367.2*	*333.1*	*291.6*	*255.4*	*193.8*	*151.4*	*140.6*	*118.9*	*107.1*	*103.1*
80°	375.2	363.2	329.7	287.6	252.3	191.9	151.1	140.9	118.3	105.9	101.5
82.5°	369.0	358.2	323.2	283.0	248.3	189.2	148.9	135.9	115.5	102.2	98.1
85°	356.3	348.3	316.4	275.8	240.6	182.7	146.7	134.7	113.0	98.8	95.0
87.5°	346.7	339.3	307.1	271.2	236.2	177.4	142.4	131.3	110.2	95.7	91.9
90°	333.1	324.5	292.3	256.3	223.5	170.0	137.5	124.5	105.6	91.9	88.2
92.5°	314.9	307.7	277.1	242.1	211.5	159.1	128.8	117.3	98.1	86.7	82.7
95°	296.0	289.5	260.1	228.8	199.7	149.5	120.1	109.0	88.9	79.9	75.5
97.5°	274.3	268.4	240.6	209.9	182.0	137.1	108.4	98.1	78.3	70.0	67.2
100°	243.3	237.8	210.8	183.0	157.6	118.3	90.4	81.7	65.0	57.9	55.4
102.5°	187.6	183.0	159.7	137.5	115.8	86.1	64.1	58.8	49.2	43.0	41.2
105°	110.2	107.4	95.0	82.0	68.7	52.9	40.2	39.3	33.7	31.0	29.4
107.5°	71.5	69.3	62.2	54.8	46.7	37.2	29.7	28.2	25.1	23.8	23.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P314642
CATALOG NUMBER: MPB-A2-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	58.5	56.7	51.1	44.9	38.7	30.6	25.4	23.5	21.1	20.1	19.8
112.5°	52.0	50.5	45.5	39.9	34.7	27.6	22.9	21.1	18.9	18.0	17.6
115°	48.3	46.4	41.8	36.8	32.2	25.7	21.4	19.5	17.3	16.1	16.1
117.5°	45.2	43.3	39.3	34.7	30.0	23.8	19.8	17.6	15.8	14.6	14.2
120°	43.0	41.2	37.2	32.5	28.2	22.3	18.6	16.1	13.9	12.7	12.4
122.5°	40.6	38.7	34.7	30.3	25.7	20.4	16.7	14.2	12.4	11.1	10.8
125°	38.1	36.2	32.2	27.9	23.2	18.3	14.9	12.4	10.5	9.6	9.3
127.5°	35.3	33.4	29.4	25.1	20.7	16.1	13.0	10.8	9.0	8.0	7.7
130°	31.6	29.7	26.0	22.0	18.0	13.9	11.1	9.0	7.7	6.8	6.5
132.5°	27.2	25.4	22.0	18.6	15.2	11.8	9.0	7.4	6.2	5.6	5.3
135°	22.6	21.1	18.3	15.2	12.4	9.6	7.4	6.2	5.0	4.3	4.3
137.5°	17.6	16.4	13.9	11.8	9.6	7.4	5.6	4.6	4.0	3.4	3.4
140°	13.3	12.4	10.5	9.0	7.1	5.6	4.3	3.7	3.1	2.5	2.5
142.5°	10.2	9.6	8.0	6.8	5.6	4.0	3.1	2.5	2.2	1.9	1.9
145°	7.7	7.1	5.9	5.0	4.0	2.8	2.2	1.5	1.2	1.2	0.9
147.5°	5.3	5.0	4.0	3.1	2.5	1.5	1.2	0.9	0.6	0.6	0.3
150°	2.8	2.5	1.9	1.5	0.9	0.6	0.6	0.3	0.0	0.0	0.0
152.5°	0.9	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)