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: INVUE

Report Number:

Luminaire Tested: **ENC-SA1C-740-U-T4W-HSS-ULG**

Issue Date: 3/30/2022

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	
	REPORT IS A COMBINATION OF REPORTS P401338 AND P226775
Test Lab:	INNOVATION CENTER
Issue Date:	3/30/2022
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	ENC-SA1C-740-U-T4W-HSS-ULG
Description:	ENTRI LED LUMINAIRE WITH UPLIGHT
	(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5137.9 lumens
Efficiency:	N/A
Efficacy:	102.8 lumens/watt
Luminous Opening:	Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification:	Type III - Short
BUG Rating:	B0 - U5 - G1

Input Watts (W):	50
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:	24 FT

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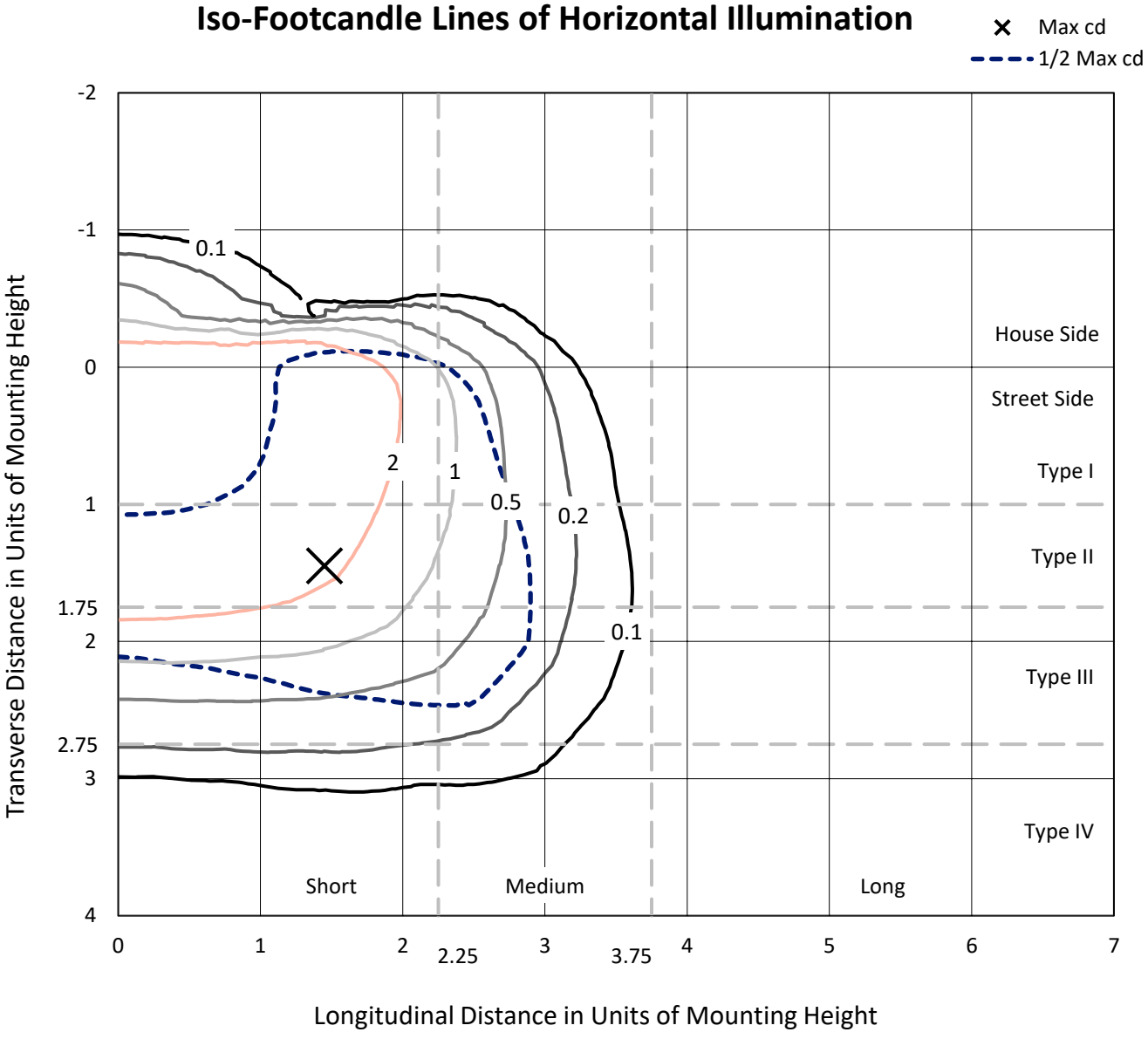
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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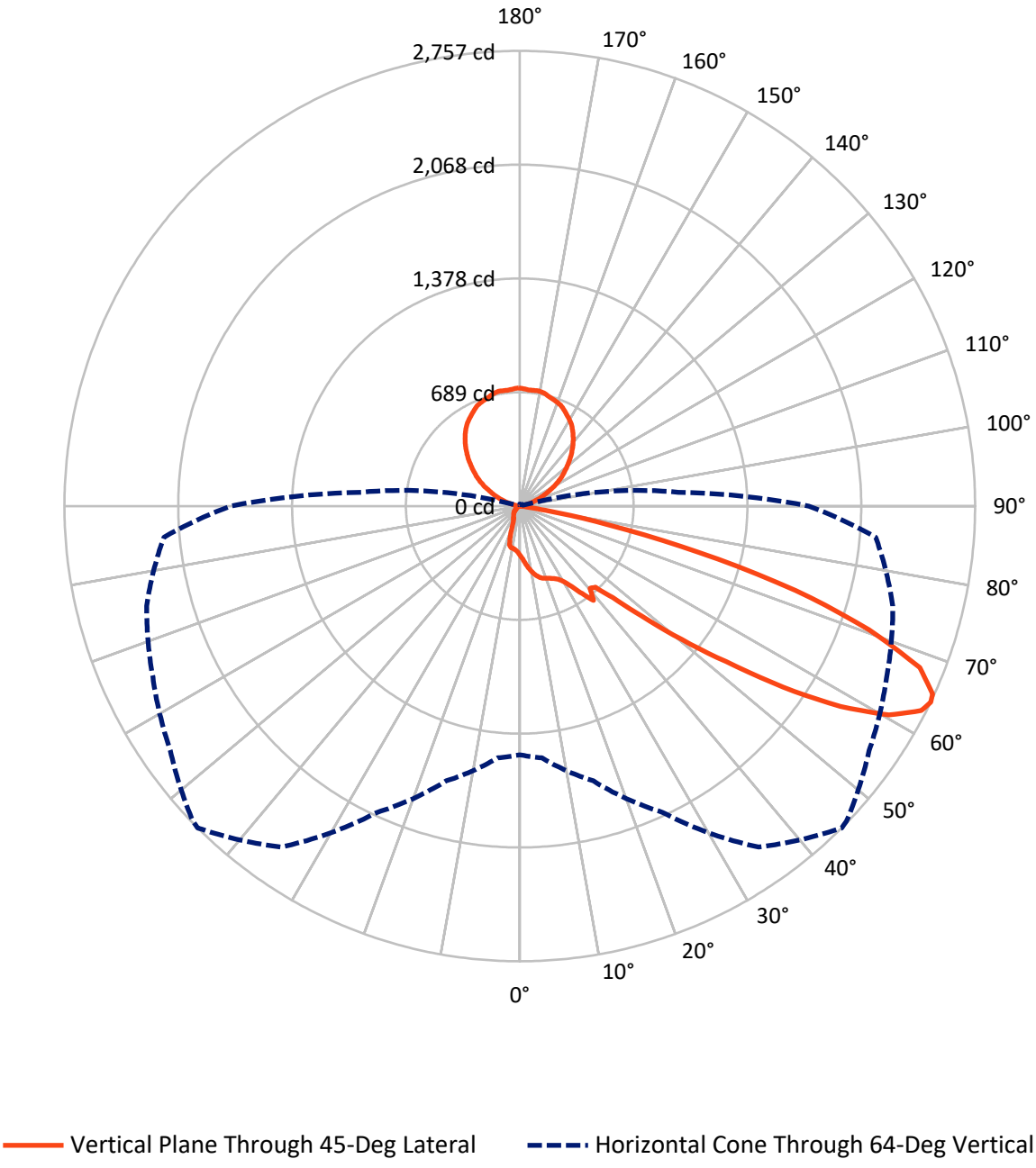
Luminous Intensity Polar Plot



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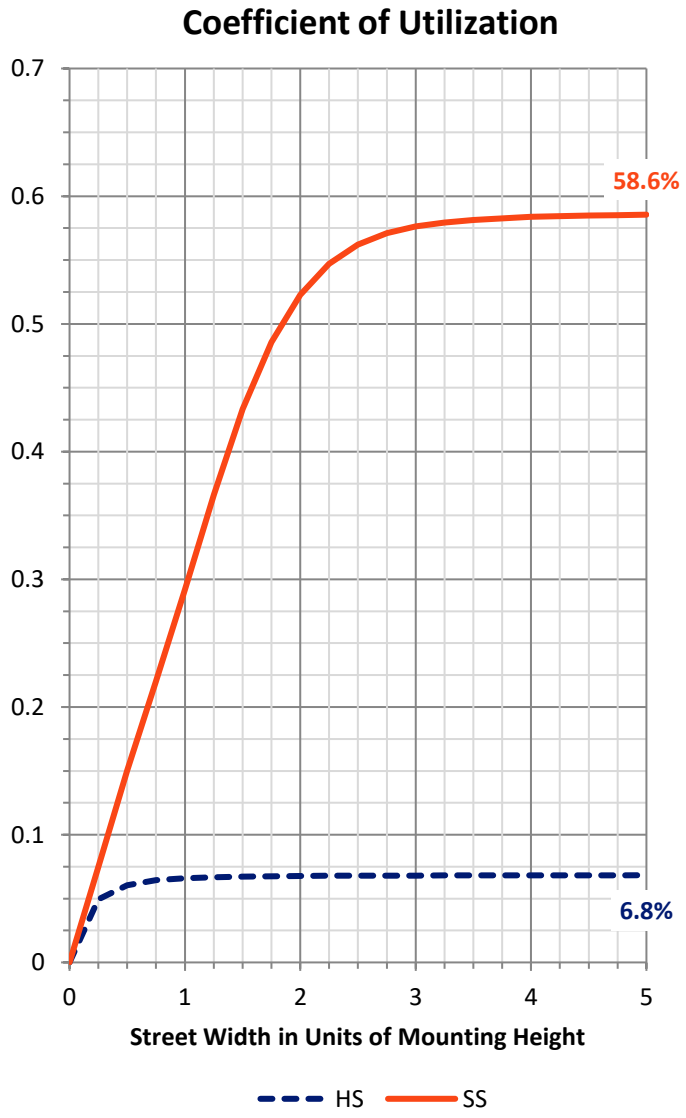
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.0	887.0	1241.9
	% Fixture	6.9	17.3	24.2
Street Side	Lumens	3009.0	887.0	3896.0
	% Fixture	58.6	17.3	75.8
Total	Lumens	3364.0	1773.9	5137.9
	% Fixture	65.5	34.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	0.6
10°-20°	94.3	1.8
20°-30°	153.5	3.0
30°-40°	243.9	4.7
40°-50°	464.5	9.0
50°-60°	957.2	18.6
60°-70°	1069.0	20.8
70°-80°	337.6	6.6
80°-90°	13.7	0.3
90°-100°	8.4	0.2
100°-110°	58.7	1.1
110°-120°	169.9	3.3
120°-130°	279.4	5.4
130°-140°	344.6	6.7
140°-150°	352.5	6.9
150°-160°	297.0	5.8
160°-170°	195.5	3.8
170°-180°	67.8	1.3
0°-90°	3364.0	65.5
0°-180°	5137.9	100.0



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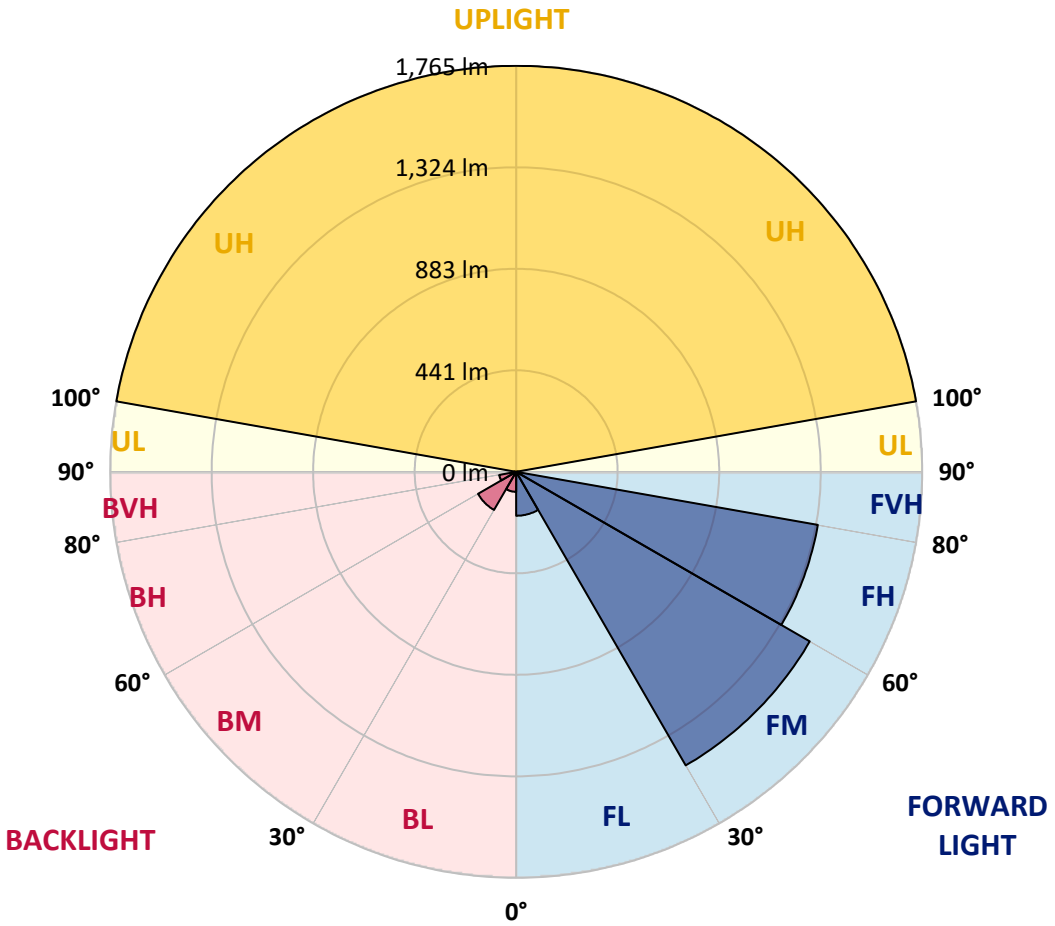
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	191.1	3.7			
FM	(30°-60°)	1474.0	28.7			
FH	(60°-80°)	1331.9	25.9			G1/1800
FVH	(80°-90°)	12.1	0.2			G1/100
BL	(0°-30°)	87.0	1.7	B0/110		
BM	(30°-60°)	191.6	3.7	B0/220		
BH	(60°-80°)	74.8	1.5	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	8.4	0.2		U1/10	
UH	(100°-180°)	1765.5	34.4		U5	

BUG Rating: B0-U5-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2
2.5°	329.0	330.2	328.3	325.7	323.2	318.7	319.3	313.6	309.1	305.9	300.7
5°	370.6	370.0	366.1	360.4	354.6	346.3	345.0	336.0	326.4	316.1	306.5
7.5°	413.0	411.0	407.2	399.5	388.6	377.7	374.5	361.7	347.6	332.2	315.5
10°	447.6	446.3	441.8	433.5	420.7	404.0	404.0	386.0	367.4	348.8	329.0
12.5°	475.8	474.5	469.4	459.1	443.7	429.0	427.1	411.0	390.5	368.7	344.3
15°	493.1	491.8	486.1	474.5	461.1	447.6	445.7	430.3	411.7	386.7	358.5
17.5°	497.6	496.3	491.8	481.6	471.3	459.8	457.2	443.7	427.7	402.1	373.2
20°	495.7	493.1	490.5	482.2	473.9	466.2	464.9	455.3	441.2	419.4	388.6
22.5°	490.5	488.0	486.1	480.3	475.8	475.2	473.9	468.1	459.1	440.5	411.7
25°	488.6	486.7	484.8	480.9	480.3	486.7	486.1	485.4	481.6	465.5	435.4
27.5°	499.5	498.9	494.4	488.0	491.2	502.1	502.7	505.9	503.4	493.1	470.0
30°	538.0	534.8	524.5	510.4	518.8	532.9	535.4	545.7	546.3	547.6	516.2
32.5°	589.9	584.8	567.5	549.5	554.7	581.0	581.6	597.6	631.6	610.5	541.2
35°	625.8	619.4	593.1	583.5	609.2	650.9	656.6	689.3	691.9	614.9	539.3
37.5°	726.5	716.9	668.8	610.5	635.5	725.2	731.7	725.9	672.0	608.5	566.9
40°	861.2	852.2	809.2	711.1	640.6	654.1	657.3	674.6	684.8	653.4	655.3
42.5°	1036.2	1024.7	980.5	860.5	720.8	671.4	677.8	713.1	780.4	795.1	870.8
45°	1215.1	1208.7	1163.8	1034.3	867.0	789.4	792.6	835.5	956.1	1049.1	1113.2
47.5°	1390.2	1391.5	1353.0	1243.4	1079.8	993.9	990.1	1045.9	1198.5	1264.5	1329.9
50°	1637.1	1635.8	1567.2	1499.2	1371.6	1269.7	1263.2	1294.7	1441.5	1465.9	1567.2
52.5°	1917.9	1916.7	1813.4	1781.4	1727.5	1563.3	1580.7	1553.7	1659.5	1703.1	1846.8
55°	2051.3	2039.8	1996.2	2036.6	2100.7	1935.9	1933.3	1830.7	1913.5	1950.6	2084.7
57.5°	2037.9	2042.3	2084.0	2218.0	2428.4	2290.5	2294.3	2103.9	2152.0	2175.1	2273.2
60°	1961.5	1964.8	2061.6	2284.7	2591.9	2568.2	2554.7	2359.1	2327.7	2318.1	2364.9
62.5°	1743.5	1744.8	1901.9	2188.5	2590.6	2728.5	2715.6	2538.7	2440.6	2379.0	2293.7
64°	1506.3	1530.6	1723.0	2046.8	2520.7	2756.7	2749.6	2582.3	2450.8	2338.0	2162.9
65°	1311.3	1347.9	1580.7	1921.1	2441.8	2747.1	2738.7	2574.6	2436.7	2261.0	2027.6
67.5°	894.5	913.8	1122.8	1512.0	2141.1	2611.8	2609.2	2475.8	2283.4	1953.2	1590.9
70°	527.7	541.8	696.4	1055.5	1645.4	2243.7	2277.7	2229.6	1895.5	1403.0	1013.2
72.5°	164.2	172.5	307.2	586.1	1078.6	1748.0	1792.3	1757.6	1379.9	876.6	561.7
75°	61.6	64.1	101.3	254.6	536.7	1117.7	1131.1	1171.5	840.7	463.0	245.6
77.5°	34.0	34.6	50.0	95.5	236.0	548.9	561.7	556.6	446.9	218.7	78.2
80°	16.7	17.3	24.4	42.3	91.7	155.2	184.0	243.0	157.7	107.7	25.0
82.5°	5.8	5.1	10.9	19.2	30.8	41.7	46.8	67.3	66.0	59.0	9.0
85°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	8.3	16.7	19.2	2.6
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	6.2	7.2	7.2	6.1	6.1
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	9.5	12.3	10.2	9.2	8.2
100°	8.2	8.2	9.2	10.2	12.3	21.5	22.3	29.7	26.6	23.5	19.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	41.9	51.1	48.1	43.0	39.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	65.3	73.7	71.6	66.5	62.4
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	90.7	97.2	96.2	92.1	89.0

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REPORT NUMBER:
CATALOG NUMBER: ENC-SA1C-740-U-T4W-HSS-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
110°	67.5	69.6	75.7	89.0	104.3	*116.6*	117.2	122.8	123.8	121.7	118.7
112.5°	101.3	101.3	108.4	123.8	137.1	*146.3*	146.8	151.4	153.4	152.4	150.4
115°	143.2	142.2	150.4	162.6	171.9	*178.0*	178.5	183.1	186.2	183.1	181.1
117.5°	188.2	188.2	193.3	201.5	206.6	*209.7*	210.3	215.8	219.9	214.8	212.8
120°	230.2	228.1	231.2	238.3	242.4	*248.6*	248.9	251.6	255.7	250.6	248.6
122.5°	269.0	266.0	267.0	273.1	277.2	*283.4*	283.6	285.4	289.5	284.4	282.3
125°	304.8	300.7	302.8	305.9	312.0	*317.1*	317.4	320.2	322.2	317.1	317.1
127.5°	337.6	336.6	336.6	340.6	346.8	*347.8*	348.3	352.9	353.9	353.9	352.9
130°	371.3	369.3	370.3	374.4	378.5	*380.5*	381.0	385.7	389.7	389.7	387.7
132.5°	405.1	403.0	402.0	410.2	413.3	*414.3*	414.9	420.4	425.5	423.5	423.5
135°	438.8	435.8	435.8	441.9	445.0	*447.0*	447.6	453.2	458.3	457.3	460.3
137.5°	470.6	467.5	469.5	470.6	474.6	*478.7*	479.2	483.9	485.9	486.9	492.0
140°	499.2	496.1	498.2	500.2	502.3	*508.4*	508.7	511.5	513.5	515.6	520.7
142.5°	529.9	526.8	528.9	529.9	533.0	*537.0*	537.2	539.1	545.2	545.2	546.3
145°	562.6	558.5	556.5	559.6	562.6	*563.6*	564.1	568.8	574.9	573.9	570.8
147.5°	588.2	585.1	584.1	587.2	587.2	*588.2*	588.7	593.3	598.4	599.4	596.4
150°	608.7	605.6	606.6	606.6	606.6	*606.6*	607.0	610.7	613.8	616.8	619.9
152.5°	625.0	622.0	622.0	623.0	624.0	*624.0*	624.1	625.0	628.1	632.2	637.3
155°	643.4	639.3	639.3	641.4	644.5	*642.4*	642.2	640.4	645.5	650.6	652.6
157.5°	660.8	657.8	657.8	658.8	660.8	*659.8*	659.7	658.8	662.9	664.9	664.9
160°	678.2	675.1	674.1	671.1	670.0	*670.0*	670.3	673.1	679.2	676.2	675.1
162.5°	688.4	684.4	684.4	680.3	676.2	*678.2*	678.6	682.3	686.4	685.4	683.3
165°	696.6	693.6	691.5	691.5	688.4	*688.4*	688.3	687.4	692.5	695.6	693.6
167.5°	705.8	702.8	699.7	701.7	703.8	*700.7*	700.0	693.6	699.7	703.8	703.8
170°	714.0	711.0	707.9	707.9	708.9	*706.9*	706.4	701.7	704.8	709.9	712.0
172.5°	715.0	713.0	711.0	708.9	705.8	*705.8*	705.7	704.8	707.9	709.9	712.0
175°	716.1	714.0	713.0	711.0	706.9	*705.8*	705.8	705.8	711.0	712.0	709.9
177.5°	723.2	721.2	716.1	715.0	713.0	*711.0*	710.9	709.9	715.0	717.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	*716.1*	716.1	716.1	716.1	716.1	716.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2
2.5°	298.2	296.9	292.4	287.9	284.7	280.9	280.2	277.7	277.0	277.0	277.0
5°	301.4	297.5	289.2	282.1	275.7	270.0	267.4	264.8	262.9	262.3	262.3
7.5°	308.4	302.7	289.2	278.9	269.3	262.3	258.4	255.9	253.9	253.9	253.9
10°	318.7	309.7	293.0	278.9	267.4	258.4	252.6	248.8	246.2	245.6	246.2
12.5°	331.5	320.0	299.5	282.1	268.7	257.1	245.0	222.5	207.8	199.4	198.1
15°	343.7	330.2	306.5	286.6	270.6	245.0	200.7	166.1	143.0	135.9	134.7
17.5°	357.2	343.1	316.1	293.0	263.5	197.5	143.0	114.1	109.7	110.9	110.9
20°	373.8	357.2	326.4	299.5	227.0	140.4	104.5	100.7	102.0	104.5	104.5
22.5°	393.1	375.1	340.5	295.6	173.1	102.6	95.5	96.2	97.5	100.0	100.0
25°	418.1	399.5	355.9	266.8	120.6	89.8	90.4	91.1	93.0	95.5	96.2
27.5°	455.3	432.8	374.5	223.8	91.1	83.4	84.0	85.9	87.8	91.1	91.1
30°	495.0	467.5	391.2	172.5	79.5	76.3	76.9	78.9	82.1	84.6	85.9
32.5°	512.3	488.0	394.4	118.0	73.7	70.5	69.3	71.2	73.7	76.3	76.9
35°	522.0	511.7	379.0	85.3	69.3	65.4	62.8	62.2	62.8	64.8	64.8
37.5°	569.4	562.4	348.2	73.1	64.8	60.9	57.1	53.9	52.6	51.9	52.6
40°	660.5	645.1	307.8	67.3	60.9	56.4	51.3	46.2	41.7	39.8	39.8
42.5°	861.2	783.6	250.1	63.5	57.1	51.9	44.2	37.2	32.1	30.8	30.8
45°	1077.3	955.4	187.9	60.3	53.2	46.8	37.2	29.5	25.0	23.7	23.7
47.5°	1285.0	1082.4	131.5	56.4	48.7	41.0	30.8	23.7	20.5	19.9	19.9
50°	1503.1	1192.7	91.7	51.9	44.2	35.3	25.0	19.2	17.3	17.3	17.3
52.5°	1715.3	1274.1	67.3	47.5	38.5	29.5	21.2	17.3	16.0	16.0	16.0
55°	1875.6	1305.6	51.3	41.7	32.7	25.0	19.2	16.7	15.4	14.7	14.7
57.5°	1982.7	1279.3	41.7	34.6	27.6	21.8	17.3	15.4	14.1	13.5	13.5
60°	1980.1	1192.1	33.3	28.2	22.4	18.6	16.0	14.1	12.8	12.2	12.2
62.5°	1864.1	1050.3	26.3	22.4	18.6	16.0	14.1	12.8	11.5	10.9	10.3
64°	*1750.6*	*962.5*	*22.4*	*19.2*	*16.7*	*14.7*	*12.8*	*11.5*	*10.3*	*9.0*	*9.0*
65°	1627.5	879.1	20.5	17.3	14.7	13.5	12.2	10.9	9.0	7.7	7.7
67.5°	1237.6	650.9	16.7	13.5	11.5	10.9	9.6	8.3	6.4	5.1	5.1
70°	803.5	421.3	14.1	10.9	9.6	9.6	9.0	7.1	5.1	4.5	3.8
72.5°	411.7	209.7	11.5	9.0	8.3	8.3	7.7	5.8	4.5	3.8	3.2
75°	174.4	85.3	9.6	7.7	7.1	6.4	5.8	5.1	3.8	3.2	3.2
77.5°	60.9	32.1	9.0	7.7	5.8	5.1	5.1	5.1	5.1	4.5	3.8
80°	20.5	12.2	5.8	5.8	6.4	7.1	7.1	6.4	7.1	5.8	4.5
82.5°	8.3	4.5	1.9	2.6	4.5	5.1	5.8	5.8	5.8	4.5	3.8
85°	1.9	1.3	1.3	1.9	1.9	2.6	2.6	3.2	3.2	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.3	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1
95°	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1
97.5°	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2
100°	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2
102.5°	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3
105°	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.5
107.5°	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	41.9

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

Scaled Data Report

REPORT NUMBER:
CATALOG NUMBER: ENC-SA1C-740-U-T4W-HSS-ULG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5
112.5°	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3
115°	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.2
117.5°	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2
120°	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	230.2
122.5°	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	269.0
125°	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.8
127.5°	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.6
130°	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	371.3
132.5°	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	405.1
135°	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.8
137.5°	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.6
140°	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	499.2
142.5°	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.9
145°	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	562.6
147.5°	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	588.2
150°	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.7
152.5°	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	625.0
155°	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	643.4
157.5°	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.8
160°	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	678.2
162.5°	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	688.4
165°	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.6
167.5°	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.8
170°	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	714.0
172.5°	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	715.0
175°	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	716.1
177.5°	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1

(END OF REPORT)