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: P149765

Luminaire Tested: **AVS-F03-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Report Generated By E9812814

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P149765
	REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	AVS-F03-LED-E-U-SL2-HSS
Description:	VISION SITE SMALL LED LUMINAIRE
	(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source:	(21) 4000K CCT, 70 CRI LEDs
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4541 lumens
Efficiency:	N/A
Efficacy:	58.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type II - Short - Non-Cutoff
BUG Rating:	B0 - U0 - G2

Input Watts (W):	78.3
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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REPORT NUMBER: P149765
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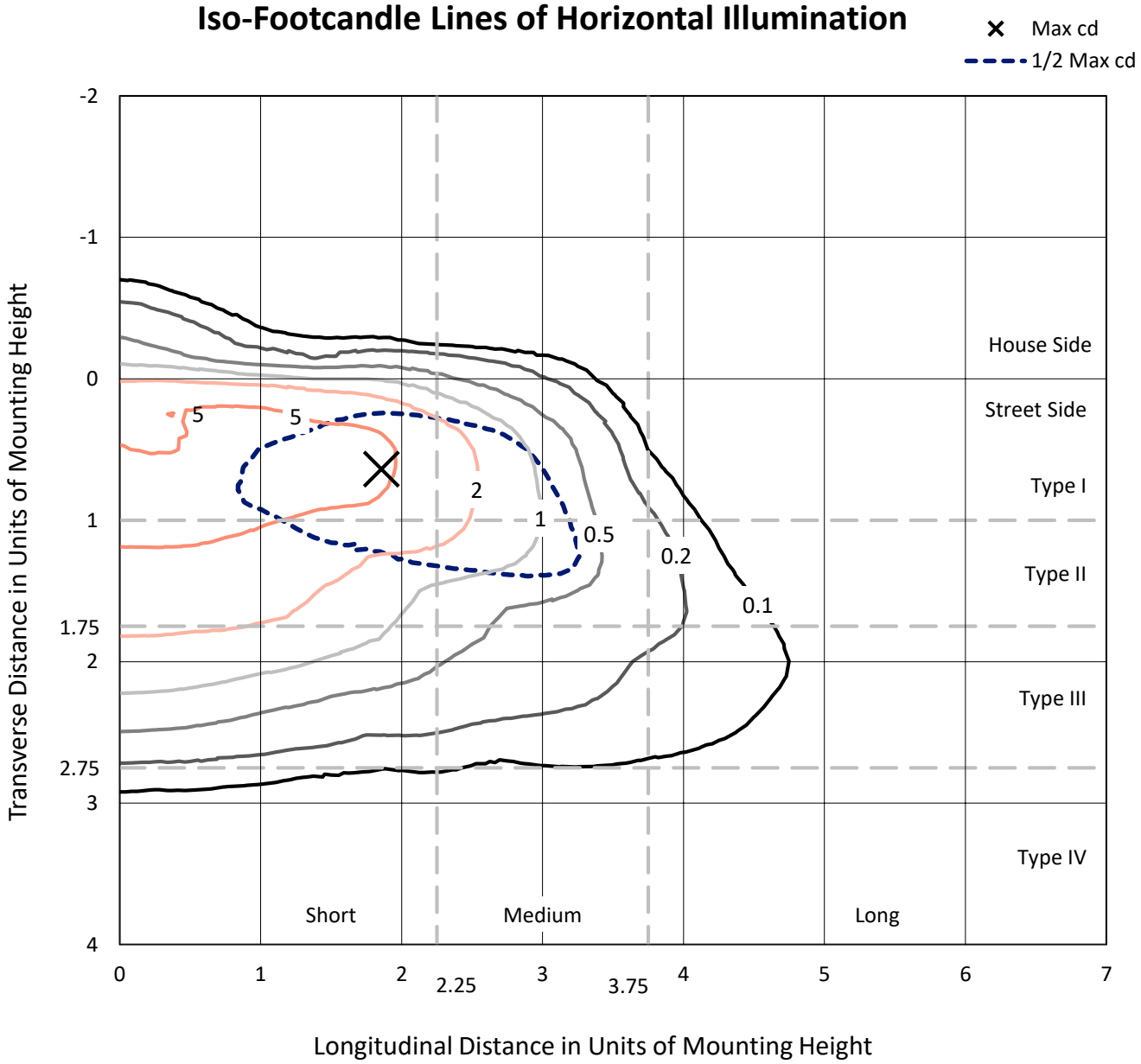
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - Non-Cutoff

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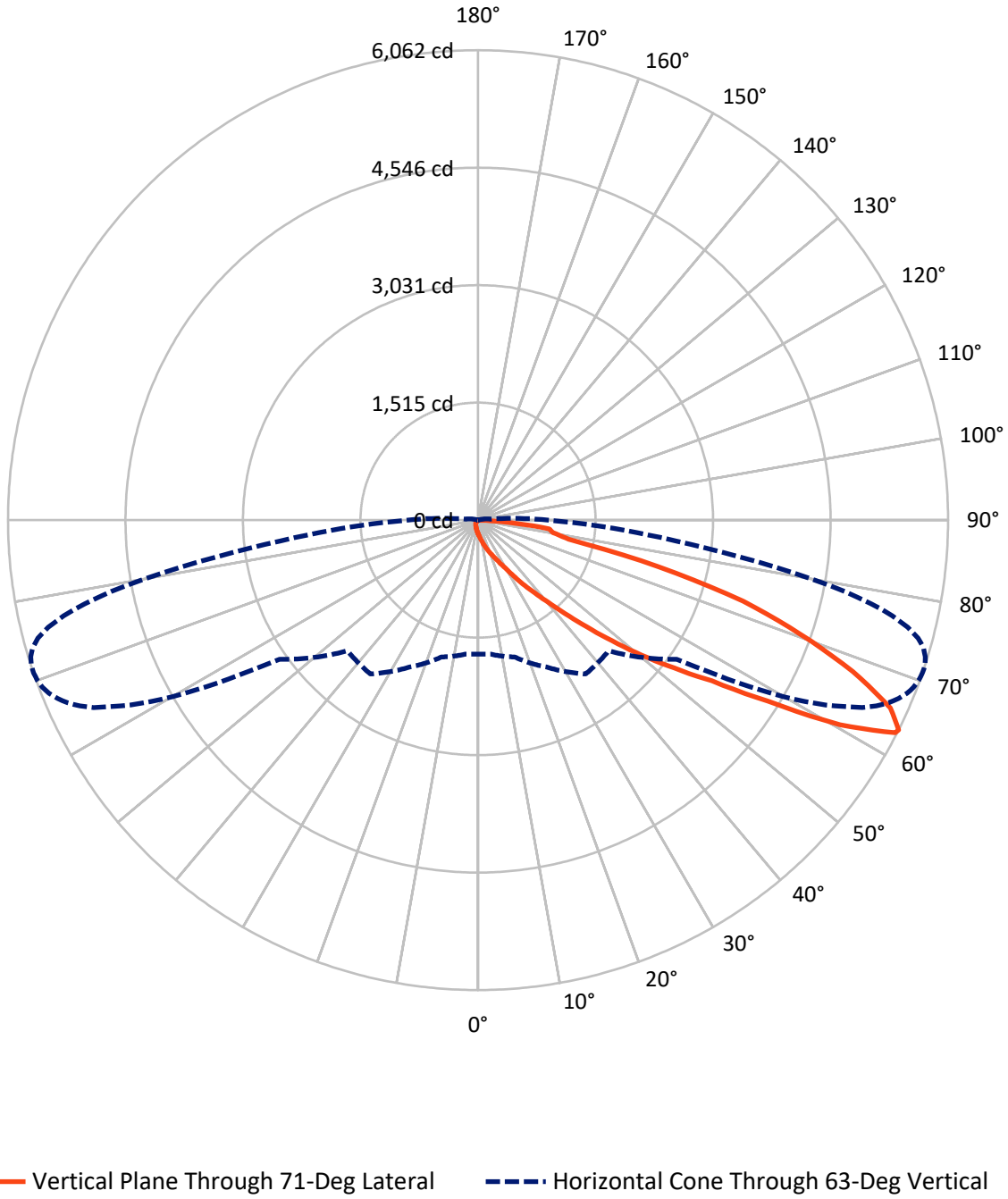
Luminous Intensity Polar Plot



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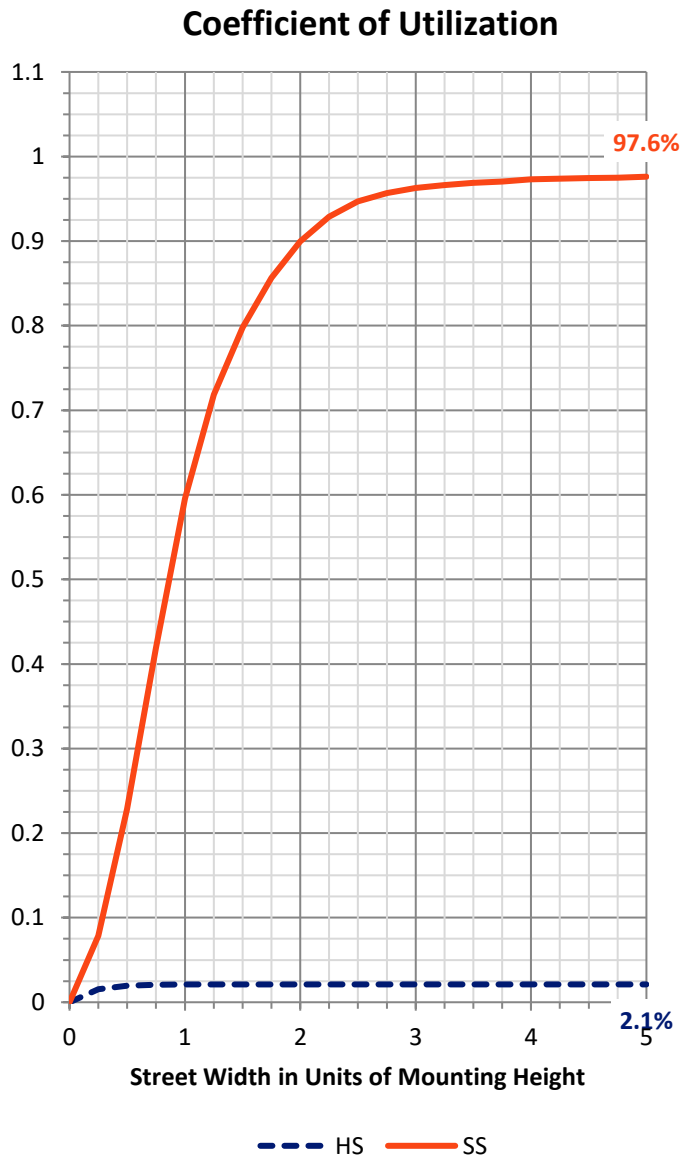
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.4	0.0	96.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4444.6	0.0	4444.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	4541.0	0.0	4541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.4
10°-20°	74.7	1.6
20°-30°	151.7	3.3
30°-40°	370.5	8.2
40°-50°	828.6	18.2
50°-60°	1165.2	25.7
60°-70°	1370.2	30.2
70°-80°	494.8	10.9
80°-90°	66.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4541.0	100.0
0°-180°	4541.0	100.0



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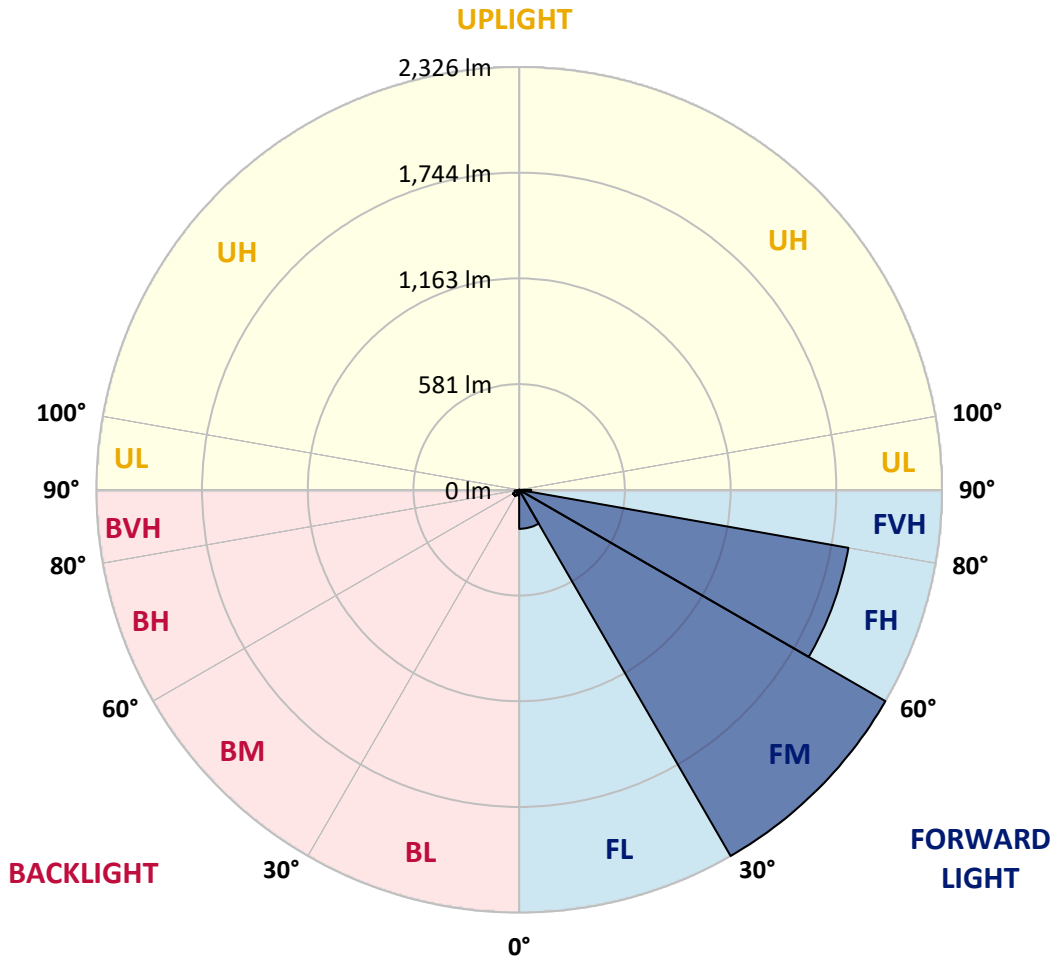
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	214.6	4.7			
FM	(30°-60°)	2325.5	51.2			
FH	(60°-80°)	1838.5	40.5			G2/5000
FVH	(80°-90°)	66.0	1.5			G1/100
BL	(0°-30°)	31.0	0.7	B0/110		
BM	(30°-60°)	38.8	0.9	B0/220		
BH	(60°-80°)	26.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	227.9	230.4	228.7	224.6	219.6	213.0	207.3	207.3	206.4	203.9	204.8
5°	298.9	299.7	296.4	286.4	277.4	263.3	247.7	246.0	244.4	241.9	241.0
7.5°	368.2	371.5	368.2	357.4	339.3	317.8	293.1	290.6	285.6	285.6	282.3
10°	439.2	439.2	435.9	423.5	406.9	376.5	345.1	340.9	335.1	333.5	328.6
12.5°	489.5	489.5	487.9	481.2	468.1	440.8	402.9	398.8	391.3	388.8	383.0
15°	509.3	509.3	510.2	516.0	516.8	504.4	464.8	461.5	454.0	447.5	445.0
17.5°	521.8	520.9	520.9	529.1	544.0	552.2	526.7	523.4	515.1	511.8	503.5
20°	549.0	547.4	542.4	542.4	556.4	585.3	585.3	584.5	575.4	573.0	568.8
22.5°	589.4	587.8	573.0	560.5	567.2	603.4	637.3	635.6	632.3	629.0	626.5
25°	655.4	649.6	624.1	587.8	582.0	620.8	676.9	681.0	683.5	683.5	685.2
27.5°	755.3	747.9	702.5	634.8	609.2	648.9	720.7	728.9	736.4	738.0	745.5
30°	894.1	880.8	815.6	716.6	657.9	690.2	785.1	794.2	804.9	808.2	819.8
32.5°	1121.9	1114.5	1051.7	903.1	777.6	771.1	875.0	886.6	900.6	906.4	920.4
35°	1468.6	1470.3	1419.1	1285.4	1112.0	1021.1	1036.1	1045.9	1050.9	1068.2	1075.6
37.5°	1703.8	1708.0	1719.6	1666.7	1542.9	1450.5	1334.1	1344.8	1319.2	1321.7	1322.5
40°	1832.6	1845.9	1913.6	1964.8	1954.8	1901.1	1807.9	1813.7	1765.8	1755.0	1703.1
42.5°	1918.5	1935.9	2044.0	2202.5	2283.4	2332.1	2310.7	2308.2	2271.0	2257.0	2213.3
45°	1972.2	1987.9	2124.0	2357.7	2544.2	2686.2	2744.9	2751.5	2720.1	2706.1	2669.7
47.5°	1969.7	1987.9	2134.0	2415.4	2690.4	2917.4	3082.5	3090.8	3109.7	3097.4	3099.9
50°	1860.7	1878.0	2025.0	2317.2	2647.5	3023.1	3325.2	3351.6	3382.2	3402.8	3412.7
52.5°	1728.6	1741.0	1871.5	2148.8	2464.1	2979.3	3468.8	3514.3	3559.7	3598.4	3625.7
55°	1679.9	1694.0	1796.4	2026.6	2317.2	2796.1	3535.8	3602.6	3666.9	3730.6	3782.6
57.5°	1705.5	1718.8	1792.2	1968.9	2229.7	2602.9	3554.7	3658.8	3764.4	3867.6	3969.9
60°	1799.7	1813.7	1876.4	2022.5	2206.6	2491.4	3480.4	3653.0	3828.8	4008.7	4178.0
62.5°	1762.5	1768.3	1860.7	2116.7	2371.7	2396.5	3210.5	3451.5	3719.8	3997.2	4270.5
63°	*1727.0*	*1733.6*	*1827.7*	*2091.1*	*2422.1*	*2382.5*	*3127.0*	*3381.3*	*3664.5*	*3963.3*	*4260.5*
65°	1566.0	1566.8	1638.7	1846.7	2365.9	2407.3	2755.6	2998.3	3323.5	3681.9	4057.4
67.5°	1168.9	1163.2	1232.5	1391.0	1857.4	2408.1	2365.1	2501.3	2727.6	3045.4	3382.2
70°	414.4	405.3	517.6	737.2	1157.4	1969.7	2032.4	2041.6	2104.2	2276.0	2487.4
72.5°	134.6	137.0	165.1	269.9	533.3	1325.8	1840.1	1812.0	1795.5	1794.7	1822.8
75°	53.7	54.5	66.0	119.7	239.4	639.0	1611.4	1627.2	1632.8	1641.1	1650.3
77.5°	25.6	28.1	37.1	66.8	118.9	316.2	1153.3	1286.2	1362.1	1420.7	1456.3
80°	9.1	10.8	20.6	41.2	55.3	145.3	607.6	733.1	844.6	988.2	1112.0
82.5°	0.0	0.0	4.1	28.9	30.6	58.7	249.3	292.2	334.3	433.4	556.4
85°	0.0	0.0	0.0	8.3	9.1	9.9	84.2	101.6	113.9	133.0	153.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.0	12.3	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	*174.2*
2.5°	203.1	202.3	202.3	200.6	199.8	198.1	197.3	194.8	194.0	194.0	*194.0*
5°	240.2	236.9	235.2	231.2	228.7	227.9	223.7	222.1	219.6	220.4	*216.3*
7.5°	281.6	275.8	273.3	267.5	265.8	260.0	258.3	254.3	251.8	246.8	*245.2*
10°	326.9	319.5	315.3	306.3	303.8	299.7	294.7	289.7	285.6	280.7	*278.2*
12.5°	379.0	372.3	369.0	356.6	350.9	345.1	338.4	331.8	325.3	321.1	*315.3*
15°	440.0	429.2	426.0	414.4	404.5	397.1	388.0	379.8	374.8	366.5	*360.7*
17.5°	500.3	489.5	487.0	469.7	459.0	454.0	444.1	433.4	424.4	416.1	*406.9*
20°	560.5	553.1	546.5	529.9	518.4	510.2	497.0	486.2	478.8	467.3	*455.6*
22.5°	620.8	613.4	608.4	591.1	580.3	568.8	557.2	545.7	534.9	520.9	*507.7*
25°	682.7	677.7	675.2	659.6	649.6	639.0	627.4	614.2	600.9	585.3	*571.3*
27.5°	747.2	748.7	743.8	740.5	729.7	722.4	704.1	695.1	685.2	666.2	*648.9*
30°	828.8	833.8	832.1	834.6	828.0	823.0	809.0	797.4	785.9	767.8	*747.9*
32.5°	932.0	938.7	942.0	951.0	947.7	946.0	942.0	925.4	917.2	885.8	*877.5*
35°	1091.3	1088.1	1102.1	1109.5	1106.2	1104.6	1099.6	1090.6	1080.6	1058.3	*1037.7*
37.5°	1298.5	1301.9	1306.8	1291.9	1282.1	1281.2	1266.3	1257.3	1243.2	1218.4	*1193.7*
40°	1678.3	1657.6	1634.5	1571.8	1544.6	1528.9	1485.1	1472.7	1448.8	1414.9	*1389.3*
42.5°	2171.9	2151.3	2082.0	1977.1	1921.0	1843.4	1807.9	1764.1	1730.3	1675.0	*1645.3*
45°	2662.3	2602.9	2594.6	2472.4	2403.1	2300.7	2237.2	2163.7	2086.9	2014.3	*1961.5*
47.5°	3075.9	3062.7	3022.3	2948.0	2883.5	2797.7	2716.0	2602.9	2523.6	2420.4	*2325.5*
50°	3406.9	3406.1	3391.3	3348.3	3294.7	3225.3	3153.5	3057.7	2967.8	2841.5	*2739.9*
52.5°	3654.6	3667.8	3672.7	3659.6	3639.0	3577.8	3541.5	3461.5	3385.5	3278.1	*3168.4*
55°	3836.2	3884.9	3909.6	3937.7	3932.0	3910.5	3908.9	3856.9	3822.2	3737.2	*3659.6*
57.5°	4060.7	4140.8	4217.6	4353.8	4358.8	4406.6	4431.4	4456.2	4462.8	4428.9	*4403.3*
60°	4346.4	4509.8	4655.1	4939.9	5014.2	5131.5	5207.5	5289.9	5360.1	5365.9	*5364.2*
62.5°	4547.8	4799.6	5034.1	5456.7	5601.1	5736.6	5838.1	5918.2	5966.9	6016.5	*6039.6*
63°	*4553.6*	*4829.3*	*5078.7*	*5514.5*	*5666.4*	*5795.2*	*5891.8*	*5966.1*	*6017.2*	*6046.9*	*6061.9*
65°	4414.1	4748.4	5045.6	5479.8	5622.7	5752.2	5802.6	5851.3	5876.1	5887.7	*5843.9*
67.5°	3741.2	4068.2	4414.9	4900.3	5022.5	5177.7	5219.0	5243.7	5255.3	5252.8	*5215.6*
70°	2797.7	3071.8	3457.3	4012.0	4173.9	4325.7	4419.9	4460.3	4473.5	4469.4	*4414.1*
72.5°	1953.2	2114.2	2432.0	3049.5	3269.9	3464.8	3581.1	3641.3	3653.8	3629.0	*3577.8*
75°	1640.3	1648.6	1720.4	2058.0	2264.5	2472.4	2603.7	2641.7	2616.9	2541.8	*2411.4*
77.5°	1464.5	1482.7	1482.7	1533.0	1573.5	1631.2	1643.6	1551.2	1443.8	1305.2	*1192.8*
80°	1228.4	1291.9	1336.5	1373.7	1377.8	1366.2	1335.6	1283.7	1201.1	1095.4	*978.2*
82.5°	746.3	871.7	922.9	1114.5	1208.6	1272.1	1267.2	1197.8	1135.1	1025.3	*925.4*
85°	188.2	203.1	220.4	286.4	321.1	392.1	436.7	457.3	464.8	426.8	*386.3*
87.5°	18.1	12.3	20.6	15.6	22.3	16.5	22.3	20.6	25.6	27.3	*29.7*
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*

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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	192.3	191.5	190.7	189.8	189.0	188.2	186.5	186.5	184.9	184.0	183.3
5°	213.8	212.1	211.3	209.6	207.3	205.6	203.1	199.8	197.3	196.5	194.8
7.5°	241.0	236.9	235.2	232.8	229.5	224.6	221.2	218.8	214.6	212.1	207.3
10°	271.6	267.5	262.5	257.5	252.6	246.8	242.7	239.4	232.8	229.5	223.7
12.5°	310.4	303.0	297.2	290.6	283.9	277.4	272.4	262.5	256.8	249.3	244.4
15°	350.1	343.4	336.8	328.6	318.7	307.9	303.0	293.9	286.4	274.9	268.3
17.5°	397.9	385.5	375.6	365.7	356.6	346.7	336.8	322.8	312.0	302.2	288.9
20°	445.0	430.1	419.4	406.1	393.0	377.3	365.7	355.8	340.9	327.8	313.7
22.5°	495.3	480.4	463.1	449.9	431.7	419.4	403.7	387.2	372.3	355.0	337.6
25°	556.4	540.7	520.9	503.5	482.9	465.6	446.6	427.7	409.4	389.6	367.4
27.5°	631.5	615.0	593.6	573.0	545.7	524.2	506.0	480.4	457.3	432.5	406.9
30°	726.4	708.3	681.9	652.1	625.0	600.9	575.4	541.6	516.0	486.2	453.3
32.5°	850.3	828.8	793.4	765.3	731.4	700.0	664.6	630.7	594.4	555.5	517.6
35°	1006.3	986.5	945.2	903.9	866.8	829.6	785.1	746.3	695.1	648.1	599.4
37.5°	1168.1	1132.6	1094.6	1050.1	1003.8	959.3	904.8	851.1	792.5	741.3	680.2
40°	1353.1	1310.2	1278.8	1230.9	1165.6	1102.1	1051.7	984.9	911.4	842.9	771.1
42.5°	1606.4	1558.5	1502.5	1429.8	1382.8	1308.5	1243.2	1164.0	1067.4	990.7	903.9
45°	1899.5	1834.3	1779.8	1709.6	1652.7	1560.2	1484.2	1378.7	1282.1	1181.3	1075.6
47.5°	2233.9	2153.0	2073.7	2004.4	1913.6	1822.8	1726.2	1613.9	1490.1	1379.5	1254.0
50°	2617.7	2503.0	2393.2	2304.0	2179.4	2074.5	1969.7	1843.4	1706.3	1579.3	1436.4
52.5°	3044.6	2911.6	2766.3	2629.3	2484.9	2350.3	2223.9	2078.7	1925.9	1770.8	1611.4
55°	3559.7	3459.8	3288.9	3114.7	2921.6	2741.6	2579.0	2399.0	2213.3	2009.3	1841.8
57.5°	4366.2	4317.5	4174.7	4000.5	3748.7	3529.9	3254.2	3033.8	2764.7	2484.0	2267.7
60°	5459.2	5399.0	5318.9	5177.7	4977.9	4680.7	4376.9	4034.3	3624.9	3236.1	2867.0
62.5°	6042.0	6020.5	5955.3	5857.9	5671.4	5436.9	5130.7	4754.2	4291.9	3819.7	3349.1
63°	*6059.4*	*6032.1*	*5976.0*	*5876.9*	*5712.6*	*5485.6*	*5185.1*	*4819.4*	*4367.0*	*3885.7*	*3405.3*
65°	5824.9	5814.2	5757.2	5649.0	5536.8	5363.4	5130.7	4816.1	4436.4	3981.6	3503.5
67.5°	5166.1	5134.0	5046.4	5013.4	4935.0	4814.5	4637.0	4420.7	4149.1	3791.6	3378.9
70°	4369.5	4321.7	4211.8	4153.3	4057.4	3981.6	3873.4	3719.0	3551.4	3302.1	2994.2
72.5°	3525.0	3425.9	3325.2	3172.5	3038.8	2903.4	2783.6	2674.7	2490.6	2389.8	2156.3
75°	2289.2	2109.2	1936.7	1705.5	1497.5	1313.4	1134.3	1043.4	854.4	777.6	667.9
77.5°	1086.4	985.7	850.3	745.5	611.7	499.5	407.8	306.3	240.2	188.2	143.6
80°	876.7	791.7	709.9	615.0	514.3	410.3	314.5	235.2	166.7	115.5	81.8
82.5°	781.8	689.3	588.6	523.4	454.8	372.3	305.5	249.3	184.0	134.6	91.6
85°	303.8	256.0	197.3	160.9	125.5	103.2	93.3	64.4	50.4	39.6	30.6
87.5°	26.4	21.5	17.3	11.6	12.3	6.6	7.5	5.0	4.1	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	182.5	181.7	180.8	179.2	179.2	177.5	176.7	175.9	171.7	162.6	155.2
5°	191.5	189.8	188.2	185.7	184.0	181.7	180.0	177.5	168.4	151.1	136.2
7.5°	204.8	201.5	199.0	194.0	191.5	188.2	185.7	181.7	166.7	140.3	119.7
10°	220.4	214.6	210.5	204.8	199.8	195.6	191.5	185.7	165.1	128.8	104.9
12.5°	239.4	232.8	224.6	217.9	211.3	205.6	199.8	192.3	162.6	118.9	93.3
15°	258.3	248.5	242.7	233.6	224.6	216.3	208.1	201.5	163.4	108.2	83.4
17.5°	279.9	269.9	257.5	247.7	237.7	227.0	217.1	203.9	159.3	99.9	76.0
20°	300.5	286.4	274.9	262.5	248.5	235.2	222.9	211.3	156.1	91.6	69.3
22.5°	322.8	306.3	291.4	275.8	258.3	243.5	228.7	213.8	150.3	84.2	63.5
25°	350.1	331.0	309.5	290.6	272.4	254.3	235.2	217.1	144.5	77.6	59.5
27.5°	383.0	358.2	336.8	312.8	287.3	264.1	243.5	223.7	138.7	72.6	55.3
30°	425.2	396.3	365.7	335.1	307.9	281.6	252.6	227.9	133.0	67.7	51.2
32.5°	481.2	445.0	407.8	372.3	336.0	302.2	271.6	239.4	129.6	63.5	47.0
35°	555.5	508.5	463.1	418.5	374.8	333.5	293.9	257.5	129.6	58.7	42.1
37.5°	625.7	571.3	513.5	458.1	406.1	358.2	311.2	267.5	123.0	54.5	37.9
40°	701.7	636.5	568.8	503.5	440.8	381.3	327.8	277.4	117.2	49.5	33.9
42.5°	818.1	735.5	647.3	571.3	496.2	422.7	355.8	296.4	109.8	44.6	29.7
45°	970.8	866.0	762.0	669.5	573.8	483.7	404.5	331.0	108.2	40.4	25.6
47.5°	1134.3	1010.5	888.3	770.3	657.9	553.1	458.1	369.8	108.2	36.4	22.3
50°	1296.9	1141.7	1011.3	874.2	747.9	624.1	511.0	410.3	109.0	33.1	18.1
52.5°	1443.8	1277.9	1131.8	973.3	833.8	690.2	567.2	449.9	107.4	28.9	14.8
55°	1647.8	1453.0	1283.7	1108.7	945.2	783.4	643.9	509.3	108.2	25.6	12.3
57.5°	2023.3	1794.7	1590.8	1361.2	1173.1	964.2	795.0	631.5	118.0	21.5	9.1
60°	2562.4	2265.3	1978.8	1699.0	1459.5	1211.1	991.5	799.1	138.7	17.3	6.6
62.5°	2924.9	2536.1	2194.2	1885.5	1607.3	1347.3	1107.9	889.1	152.7	14.0	4.1
63°	*2962.0*	*2560.0*	*2216.6*	*1897.9*	*1613.9*	*1353.9*	*1112.8*	*895.6*	*153.6*	*13.2*	*4.1*
65°	3032.1	2601.2	2228.9	1900.3	1607.3	1344.8	1109.5	894.8	155.2	10.8	3.3
67.5°	2952.1	2537.6	2157.1	1829.3	1549.5	1291.1	1068.2	861.9	154.4	7.5	2.5
70°	2640.0	2296.6	1962.3	1656.8	1402.6	1168.9	972.4	785.9	142.0	5.0	1.7
72.5°	1938.3	1704.7	1445.5	1225.1	1056.7	877.5	748.7	590.3	109.8	3.3	0.8
75°	574.6	523.4	440.0	388.0	342.6	283.1	251.8	196.5	56.2	1.7	0.0
77.5°	114.7	104.0	93.3	85.1	80.1	68.5	65.2	53.7	23.1	0.8	0.0
80°	60.3	49.5	42.1	37.1	32.2	26.4	22.3	18.1	4.1	0.0	0.0
82.5°	57.8	38.8	28.1	23.1	19.8	15.6	12.3	9.1	2.5	0.0	0.0
85°	21.5	16.5	12.3	9.9	8.3	7.5	5.8	5.0	0.0	0.0	0.0
87.5°	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	174.2	174.2	174.2	174.2	174.2	174.2	174.2
2.5°	147.8	141.1	137.8	133.8	133.8	133.0	134.6
5°	123.0	113.9	107.4	102.4	103.2	100.7	101.6
7.5°	104.0	94.9	89.1	85.8	85.1	84.2	84.2
10°	89.9	81.8	76.8	74.3	73.5	73.5	73.5
12.5°	80.1	71.8	67.7	66.0	66.0	65.2	65.2
15°	71.8	65.2	61.1	59.5	59.5	58.7	59.5
17.5°	65.2	58.7	55.3	53.7	53.7	52.8	52.8
20°	59.5	53.7	50.4	47.9	47.9	47.0	47.9
22.5°	54.5	48.7	44.6	42.9	42.1	41.2	42.1
25°	49.5	43.7	39.6	37.1	36.4	36.4	35.5
27.5°	45.4	39.6	34.7	32.2	31.4	31.4	30.6
30°	41.2	34.7	29.7	27.3	26.4	26.4	26.4
32.5°	37.1	29.7	25.6	23.1	22.3	22.3	22.3
35°	33.1	25.6	21.5	19.0	18.1	18.1	18.1
37.5°	28.1	21.5	16.5	14.8	14.0	13.2	13.2
40°	23.9	16.5	12.3	10.8	9.1	9.1	9.1
42.5°	19.8	13.2	9.1	6.6	5.8	5.0	5.8
45°	16.5	9.9	5.8	3.3	2.5	2.5	2.5
47.5°	13.2	6.6	2.5	0.8	0.8	0.8	0.8
50°	9.9	4.1	0.8	0.0	0.0	0.8	0.8
52.5°	7.5	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.1	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	*0.8*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
65°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)