

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: McGRAW-EDISON

Report Number: P228065

Luminaire Tested: **ISS-AF-350-LED-E1-SL2-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-SL2-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3767.7 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

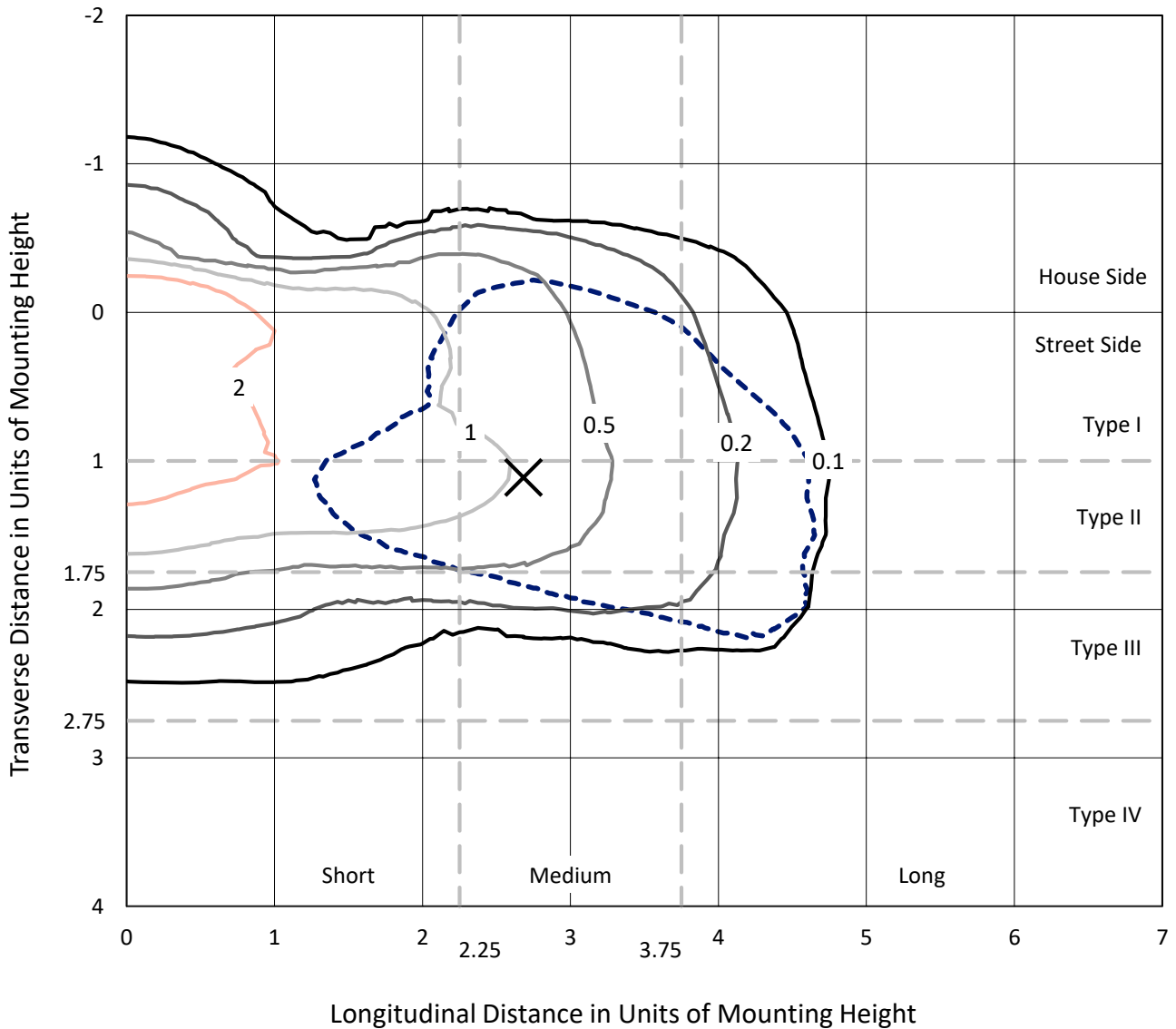
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

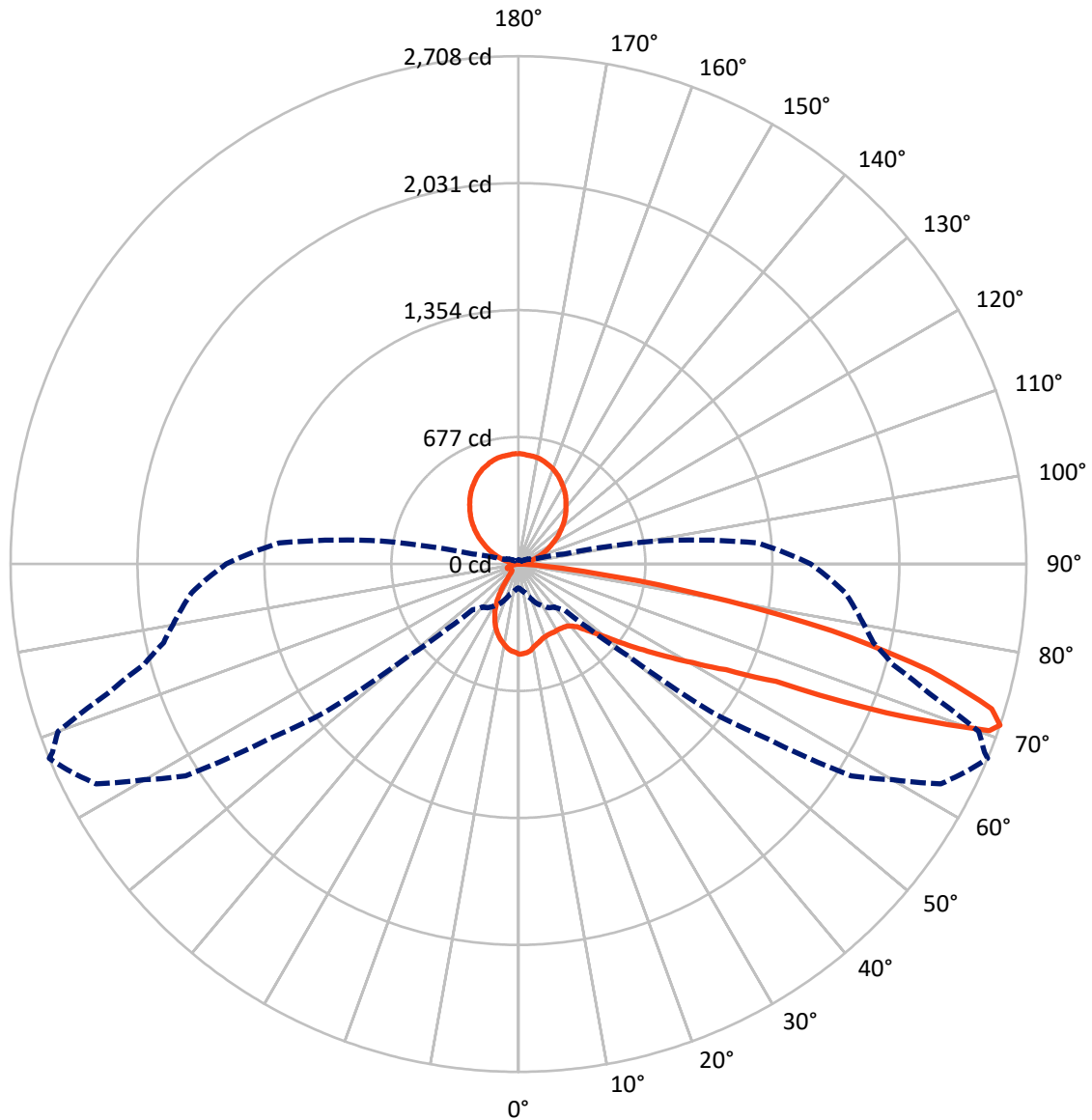
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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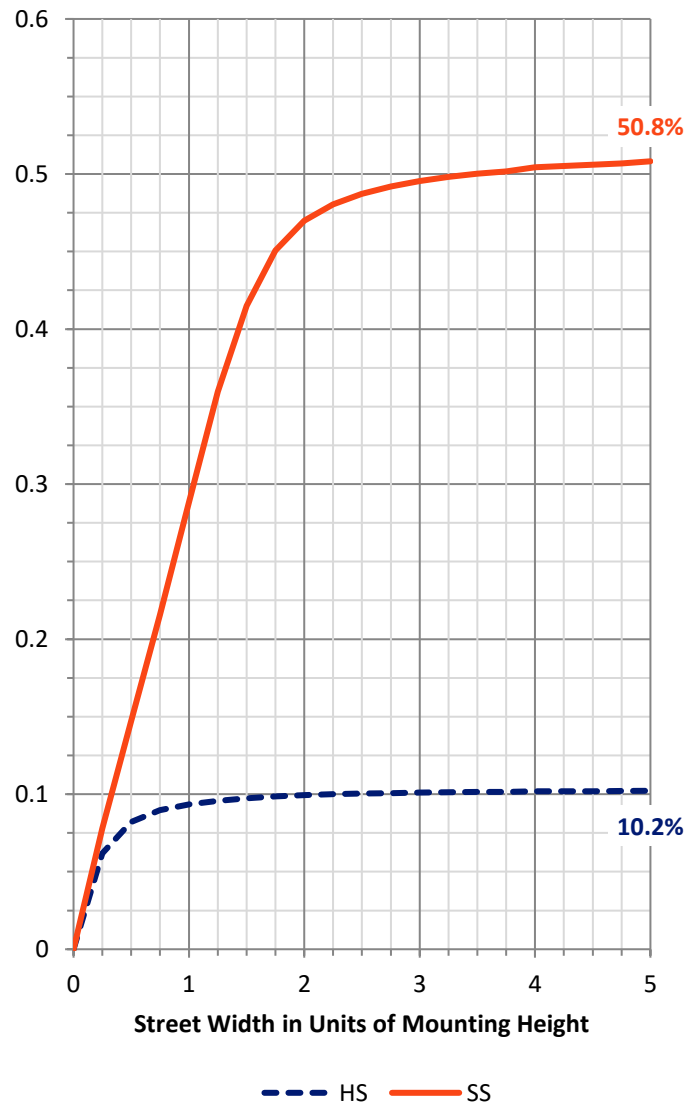
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.1	729.4	1118.5
	% Fixture	10.3	19.4	29.7
Street Side	Lumens	1919.7	729.4	2649.2
	% Fixture	51.0	19.4	70.3
Total	Lumens	2308.8	1458.9	3767.7
	% Fixture	61.3	38.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.1
10°-20°	100.4	2.7
20°-30°	136.6	3.6
30°-40°	186.7	5.0
40°-50°	281.3	7.5
50°-60°	445.8	11.8
60°-70°	590.2	15.7
70°-80°	470.1	12.5
80°-90°	55.7	1.5
90°-100°	4.8	0.1
100°-110°	70.6	1.9
110°-120°	156.6	4.2
120°-130°	229.0	6.1
130°-140°	271.7	7.2
140°-150°	275.5	7.3
150°-160°	236.4	6.3
160°-170°	158.7	4.2
170°-180°	55.6	1.5
0°-90°	2308.8	61.3
0°-180°	3767.7	100.0



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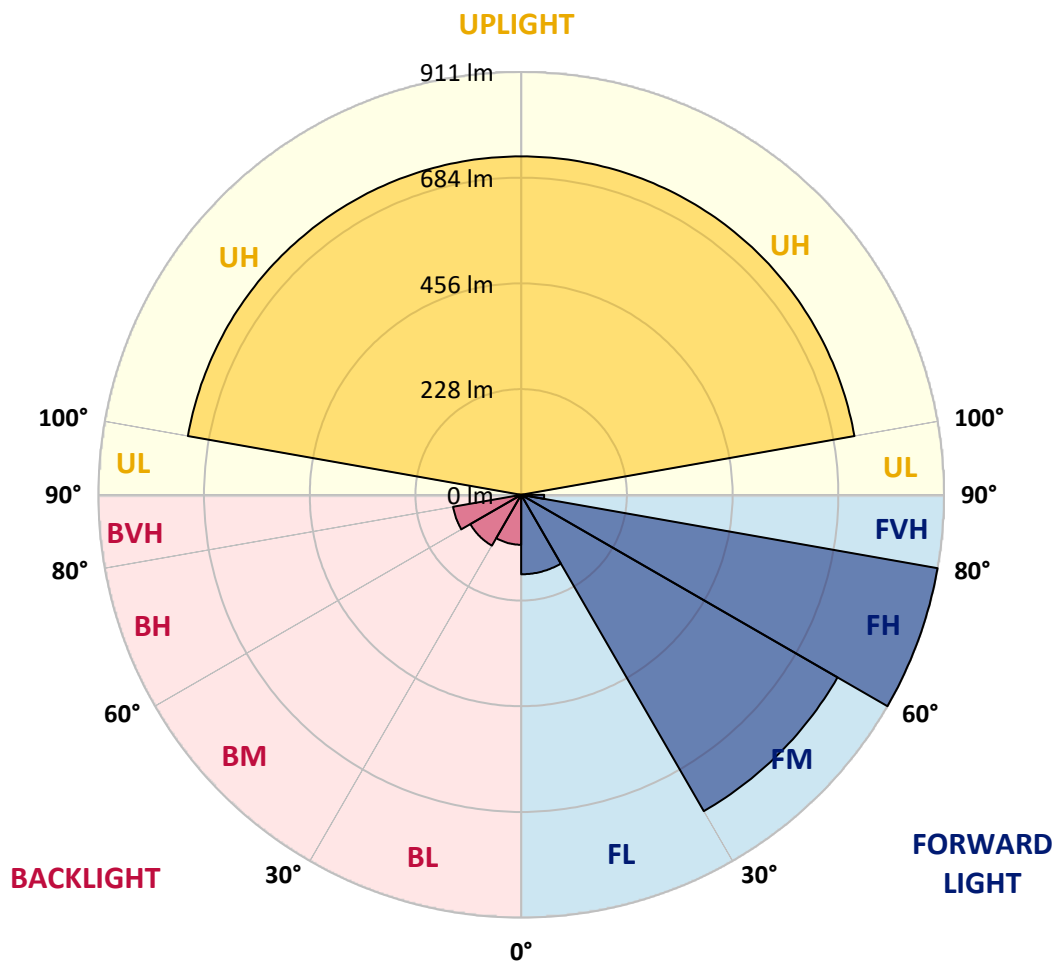
CATALOG NUMBER: ISS-AF-350-LED-E1-SL2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.3	4.5			
FM	(30°-60°)	787.3	20.9			
FH	(60°-80°)	911.4	24.2			G1/1800
FVH	(80°-90°)	49.7	1.3			G1/100
BL	(0°-30°)	107.7	2.9	B0/110		
BM	(30°-60°)	126.4	3.4	B0/220		
BH	(60°-80°)	148.9	4.0	B1/500		G1/500
BVH	(80°-90°)	6.0	0.2			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	19.4		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	472.3	470.7	470.7	473.1	477.1	473.8	476.3	476.3	477.1	479.6	480.3
5°	437.6	434.3	437.6	440.8	449.7	448.1	450.5	453.0	457.8	458.6	465.0
7.5°	406.2	404.6	407.0	413.5	424.7	421.5	424.7	427.9	433.6	436.0	442.4
10°	382.0	379.6	382.8	387.6	399.0	398.1	399.8	403.8	410.2	411.8	419.9
12.5°	364.3	364.3	365.9	372.4	382.0	381.2	386.1	388.4	394.0	395.7	404.6
15°	355.4	353.0	356.2	361.8	371.5	371.5	374.7	377.2	385.2	386.1	394.0
17.5°	347.4	348.1	348.9	355.4	364.3	362.6	366.7	368.3	377.2	375.5	385.2
20°	347.4	348.9	348.1	352.2	358.6	355.4	360.3	361.0	370.7	368.3	378.8
22.5°	357.0	358.6	356.2	355.4	357.8	355.4	357.8	359.5	366.7	365.1	374.7
25°	374.0	377.2	374.0	368.3	365.9	359.5	361.0	363.5	369.1	365.1	374.0
27.5°	400.5	402.9	397.3	391.7	380.4	373.2	370.7	369.9	376.3	369.9	377.2
30°	431.2	434.3	429.5	419.1	402.9	390.9	386.1	383.6	387.6	378.0	385.2
32.5°	464.2	467.4	464.2	456.1	434.3	416.6	410.2	404.6	407.7	394.9	398.1
35°	498.1	501.2	504.5	499.7	471.5	451.3	440.8	436.0	435.2	419.1	419.9
37.5°	527.8	531.1	541.6	546.4	520.6	493.2	483.5	473.1	473.8	451.3	451.3
40°	564.2	568.1	581.9	593.1	576.2	543.2	531.9	520.6	520.6	490.8	491.6
42.5°	613.3	618.2	627.0	642.3	636.7	602.8	590.8	575.4	577.0	541.6	540.7
45°	682.6	685.8	685.8	695.5	696.3	664.1	656.0	640.7	643.9	598.8	601.2
47.5°	772.8	768.8	752.7	758.3	764.8	731.0	723.7	714.0	718.1	669.7	674.5
50°	856.7	853.4	820.4	822.0	845.4	810.8	808.3	796.3	801.9	753.5	760.8
52.5°	888.1	882.5	849.5	867.2	932.4	913.1	917.1	911.4	914.7	863.2	861.5
55°	852.6	852.6	832.5	864.7	997.7	1008.2	1041.3	1054.2	1067.9	1016.2	1004.9
57.5°	754.3	760.8	764.0	821.2	987.2	1032.4	1095.3	1150.0	1220.2	1216.9	1233.9
60°	591.6	602.8	621.3	714.8	942.1	1016.2	1097.6	1179.9	1276.5	1338.6	1430.5
62.5°	415.0	424.7	440.1	504.5	810.8	938.0	1055.8	1182.2	1305.6	1403.1	1524.0
65°	282.0	291.7	324.0	359.5	489.2	674.5	854.3	1063.8	1251.6	1432.9	1595.7
67.5°	203.1	208.7	233.7	293.4	325.6	359.5	426.4	672.9	904.2	1269.3	1507.0
70°	152.3	157.9	180.6	246.6	286.1	294.9	311.1	354.6	413.5	713.2	1025.1
71°	127.4	135.4	162.8	232.1	284.5	291.7	299.0	324.8	344.1	504.5	760.8
72.5°	89.4	95.1	120.9	214.4	273.2	290.1	307.1	306.3	304.6	344.1	460.1
75°	57.2	57.2	57.2	120.9	291.7	281.3	287.8	322.3	304.6	289.3	303.0
77.5°	45.1	44.3	41.9	60.5	228.1	285.3	302.2	311.1	328.0	302.2	288.5
80°	33.9	33.0	33.0	37.8	105.6	184.5	255.4	283.7	295.7	321.5	293.4
82.5°	17.7	17.7	19.3	22.6	39.5	64.4	132.2	217.6	243.4	245.0	247.5
85°	5.6	4.8	6.4	10.4	16.9	21.0	37.0	87.9	130.5	157.9	166.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.3	5.6	7.3
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	477.9	481.1	478.7	481.9	477.9	482.7	478.7	481.1	481.9	478.7	482.7
5°	460.9	470.7	467.4	474.6	471.5	477.9	474.6	481.1	481.1	478.7	484.4
7.5°	440.1	449.7	450.5	457.8	457.8	465.9	465.9	472.3	475.5	475.5	483.5
10°	419.1	427.9	429.5	437.6	439.3	448.9	448.9	457.8	464.2	466.7	476.3
12.5°	402.9	414.2	414.2	423.1	421.5	436.0	437.6	445.7	452.1	457.8	470.7
15°	393.3	403.8	403.8	412.7	411.0	425.5	427.9	436.0	445.7	448.9	466.7
17.5°	383.6	394.0	391.7	403.8	402.9	419.1	417.5	429.5	437.6	442.4	462.6
20°	375.5	387.6	386.1	398.1	394.9	412.7	412.7	424.7	432.8	436.8	460.1
22.5°	371.5	384.4	381.2	393.3	390.9	408.6	408.6	420.6	429.5	436.0	459.4
25°	371.5	382.8	379.6	393.3	389.2	408.6	407.7	419.9	428.7	434.3	460.1
27.5°	373.2	384.4	382.0	394.9	391.7	408.6	410.2	420.6	429.5	436.0	461.8
30°	378.8	389.2	383.6	395.7	393.3	409.4	408.6	419.9	428.7	436.8	461.8
32.5°	390.9	396.5	389.2	399.8	394.9	411.0	411.0	419.1	429.5	439.3	461.8
35°	407.7	411.8	400.5	407.7	399.0	415.0	414.2	423.1	431.2	439.3	463.4
37.5°	432.0	436.8	419.1	425.5	411.0	423.9	420.6	431.2	439.3	444.1	471.5
40°	468.2	469.8	446.5	451.3	431.2	442.4	434.3	448.9	453.0	456.1	483.5
42.5°	512.6	514.1	484.4	487.5	461.8	471.5	457.8	473.1	478.7	477.9	507.7
45°	567.3	568.1	534.3	536.7	506.9	515.0	498.1	511.0	515.0	512.6	543.2
47.5°	627.0	633.4	595.6	598.8	567.3	571.4	550.4	565.0	565.0	562.5	593.9
50°	705.9	715.7	671.4	676.2	639.9	643.1	619.0	634.2	632.6	626.1	661.6
52.5°	804.3	813.1	766.4	772.8	734.2	735.8	705.9	723.7	718.8	708.4	749.5
55°	924.3	925.2	881.7	887.3	848.6	846.2	809.2	830.8	823.7	809.2	847.0
57.5°	1117.0	1093.6	1021.9	1020.3	978.4	975.2	927.6	954.2	942.1	911.4	961.5
60°	1427.2	1434.5	1251.6	1223.3	1145.2	1130.7	1067.9	1098.4	1083.9	1034.0	1083.1
62.5°	1602.1	1717.4	1706.1	1604.6	1403.1	1348.2	1241.9	1278.2	1240.3	1167.0	1212.9
65°	1731.9	1888.3	1978.5	2076.0	1985.8	1761.7	1510.3	1561.0	1468.3	1328.9	1373.3
67.5°	1780.2	1968.9	2159.0	2297.6	2392.0	2408.8	2117.9	2131.6	1903.5	1624.8	1630.4
70°	1527.2	1805.2	2177.6	2353.3	2540.2	2632.1	2662.7	2648.2	2500.7	2105.8	1955.2
71°	1294.2	1631.2	2103.4	2299.3	2538.7	2627.2	2707.9	2680.4	2611.9	2296.8	2065.5
72.5°	876.9	1300.0	1886.6	2134.9	2454.0	2518.5	2639.3	2591.0	2576.5	2439.5	2168.7
75°	412.7	647.9	1227.4	1603.0	2076.8	2138.9	2265.4	2205.8	2167.9	2214.6	2063.1
77.5°	303.8	353.8	673.7	996.1	1510.3	1598.2	1706.9	1633.6	1585.3	1631.9	1526.3
80°	276.4	278.0	348.9	525.5	901.0	953.4	994.5	934.9	861.5	858.3	760.8
82.5°	254.7	241.0	226.5	278.0	461.8	439.3	406.2	376.3	292.6	234.6	169.2
85°	162.0	177.3	161.2	152.3	183.7	151.5	120.1	115.3	81.4	54.8	50.7
87.5°	11.3	12.9	15.3	17.7	21.8	17.7	11.3	13.7	8.1	0.0	4.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.5	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.8	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.5	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.1	72.0	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.8	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.3	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.8	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.8	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.5	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.7	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.2	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.7	332.8	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.3	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.7	377.8	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.5	399.6	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.7	421.8	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.2	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.7	462.9	463.2	463.4
150°	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.1	514.7	514.5	514.7	514.9	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.2	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.8	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.2	563.4	562.6	562.1	562.0	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.1	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.5	577.1	576.9	577.5	577.6	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.3	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.5	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	477.1	481.1	482.7	481.9	480.3	478.7	473.1	477.1	471.5	475.5	470.7
5°	479.6	485.2	486.0	484.4	482.7	479.6	469.8	475.5	469.0	472.3	465.0
7.5°	478.7	487.5	488.4	486.7	483.5	477.9	468.2	472.3	461.8	464.2	454.5
10°	474.6	487.5	488.4	484.4	479.6	470.7	459.4	460.9	450.5	450.5	437.6
12.5°	470.7	486.0	490.0	484.4	476.3	464.2	451.3	449.7	437.6	436.8	422.3
15°	470.7	487.5	493.2	486.0	473.8	457.0	441.6	438.4	424.7	420.6	404.6
17.5°	469.8	487.5	495.6	486.0	471.5	449.7	430.4	427.1	409.4	402.9	384.4
20°	469.0	489.2	497.3	484.4	464.2	440.8	419.1	412.7	393.3	382.8	361.0
22.5°	468.2	492.4	498.9	482.7	459.4	429.5	407.0	395.7	373.2	359.5	333.7
25°	472.3	496.4	499.7	481.1	452.1	417.5	393.3	378.0	353.0	335.2	304.6
27.5°	473.8	500.4	501.2	477.9	443.2	404.6	378.8	357.8	329.6	307.8	273.2
30°	478.7	501.2	498.9	471.5	432.8	388.4	361.8	336.0	304.6	276.4	235.3
32.5°	480.3	503.7	497.3	464.2	422.3	372.4	342.5	312.7	274.8	241.7	191.8
35°	483.5	505.3	495.6	460.1	411.0	355.4	322.3	288.5	245.0	203.1	145.9
37.5°	488.4	512.6	499.7	458.6	405.4	340.9	299.8	263.5	209.5	160.4	96.7
40°	500.4	527.0	506.9	460.9	401.3	328.8	278.0	237.7	169.2	118.5	66.9
42.5°	524.7	552.1	525.5	473.1	403.8	318.3	255.4	210.3	128.2	84.6	55.6
45°	560.9	584.3	556.1	493.2	413.5	312.7	234.6	182.1	91.9	67.7	50.7
47.5°	614.1	636.7	601.2	525.5	430.4	310.3	212.8	152.3	70.9	61.3	49.2
50°	684.3	710.8	666.5	576.2	461.8	312.7	189.3	124.1	62.1	59.6	48.4
52.5°	770.5	796.3	751.9	651.2	513.3	326.4	164.4	108.0	58.8	58.8	47.6
55°	868.0	904.2	860.7	755.1	593.1	356.2	149.0	102.4	58.8	59.6	46.7
57.5°	983.2	1013.8	975.2	855.1	689.1	405.4	150.7	108.0	58.8	59.6	45.9
60°	1096.0	1133.9	1089.5	982.4	798.6	479.6	183.7	137.0	61.3	62.1	45.9
62.5°	1213.7	1242.7	1206.5	1093.6	922.8	571.4	249.8	198.2	70.9	73.3	49.2
65°	1342.6	1390.2	1352.3	1259.7	1098.4	718.1	375.5	297.4	104.8	85.4	54.0
67.5°	1565.8	1585.3	1566.6	1482.1	1304.0	838.9	447.2	302.2	104.8	83.0	60.5
70°	1868.1	1824.5	1741.6	1583.6	1325.7	752.7	320.8	184.5	89.4	79.0	63.6
71°	1938.2	1871.3	1748.8	1558.7	1280.6	679.3	249.0	145.9	83.8	77.3	63.6
72.5°	1980.9	1881.0	1695.6	1485.3	1191.9	535.1	164.4	114.5	76.5	73.3	61.3
75°	1925.3	1740.8	1497.4	1285.4	976.0	278.0	103.1	87.1	65.3	63.6	53.2
77.5°	1528.8	1366.9	1104.9	934.1	627.8	123.3	74.2	66.1	51.6	49.9	41.1
80°	713.2	572.2	335.2	287.8	197.4	72.5	50.7	45.1	37.0	35.5	29.1
82.5°	129.7	97.5	75.8	73.3	66.1	42.8	29.8	27.4	23.3	22.6	18.5
85°	44.3	42.8	32.2	32.2	33.0	22.6	16.9	16.2	12.1	12.1	8.1
87.5°	0.8	4.0	4.0	5.6	4.8	4.0	1.6	2.5	0.8	2.5	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	110°	116.6
474.6	468.2	473.8	468.2	471.5	465.0	469.0	466.7	466.7	464.2	462.6	112.5°	139.1
467.4	459.4	463.4	457.0	460.1	450.5	453.0	448.9	440.8	436.0	429.5	115°	161.6
457.0	444.9	448.1	438.4	440.8	427.9	430.4	423.1	407.7	398.1	388.4	117.5°	185.2
438.4	427.1	427.9	415.8	415.0	402.1	399.8	390.1	367.4	351.4	338.5	120°	208.7
419.9	407.0	405.4	390.9	388.4	373.2	369.9	354.6	321.5	290.1	270.0	122.5°	233.2
400.5	384.4	379.6	364.3	355.4	342.5	333.7	311.1	263.5	222.4	195.8	125°	259.8
378.8	357.8	350.6	332.9	320.0	300.6	287.8	257.1	195.8	151.5	133.0	127.5°	283.4
350.6	328.0	315.1	292.6	275.6	252.3	236.1	196.6	130.5	108.0	105.6	130°	307.9
319.2	292.6	276.4	248.3	227.3	202.2	176.5	133.0	92.7	87.9	91.0	132.5°	332.5
286.1	253.1	232.1	197.4	169.2	140.2	116.0	88.7	75.8	75.0	79.8	135°	356.0
246.6	208.7	178.9	137.8	112.0	89.4	79.0	70.1	64.4	65.3	70.1	137.5°	377.5
203.1	154.0	122.4	86.2	75.0	65.3	63.6	60.5	58.0	59.6	62.9	140°	399.0
151.5	98.3	79.0	62.1	61.3	55.6	57.2	55.6	54.8	55.6	58.0	142.5°	421.5
102.4	65.3	62.1	53.2	54.8	50.7	53.2	52.4	51.6	51.6	53.2	145°	442.9
70.9	54.0	55.6	49.2	51.6	48.4	50.7	49.9	49.2	48.4	49.2	147.5°	462.4
58.8	49.2	51.6	46.7	49.2	45.9	48.4	47.6	46.7	45.1	45.1	150°	479.8
54.0	46.7	49.2	44.3	47.6	43.5	46.7	45.1	43.5	41.9	42.8	152.5°	497.2
52.4	45.1	47.6	42.8	45.9	41.9	44.3	43.5	40.3	39.5	40.3	155°	514.5
50.7	44.3	46.7	41.9	44.3	40.3	42.8	41.1	37.8	37.0	37.8	157.5°	528.9
49.9	42.8	45.1	40.3	42.8	39.5	41.1	39.5	36.3	35.5	35.5	160°	542.2
49.2	41.9	44.3	38.7	41.1	36.3	38.7	37.0	33.9	33.0	33.0	162.5°	552.4
49.2	41.1	42.8	37.0	39.5	34.7	36.3	34.7	33.0	31.4	31.4	165°	562.6
48.4	39.5	41.9	35.5	37.0	33.0	34.7	33.0	30.6	29.8	29.8	167.5°	570.8
48.4	38.7	41.1	34.7	36.3	31.4	33.0	31.4	29.1	28.2	28.2	170°	576.9
50.7	40.3	41.9	35.5	36.3	31.4	32.2	29.8	27.4	27.4	26.6	172.5°	580.0
55.6	45.1	45.1	37.0	37.0	31.4	32.2	29.1	25.8	25.8	25.8	175°	583.1
60.5	49.9	49.2	39.5	38.7	31.4	31.4	27.4	24.1	24.1	24.1	177.5°	587.2
63.6	52.4	50.7	40.3	38.7	30.6	29.8	25.8	22.6	22.6	22.6	180°	589.2
62.9	52.4	49.9	39.5	37.0	29.1	29.1	25.0	21.8	21.8	21.0		
59.6	49.2	46.7	37.0	35.5	27.4	27.4	23.3	20.2	20.2	19.3		
50.7	41.9	39.5	31.4	29.8	24.1	23.3	19.3	17.7	16.9	16.9		
39.5	33.0	30.6	25.0	24.1	19.3	18.5	16.2	14.5	14.5	13.7		
28.2	23.3	21.8	16.9	15.3	12.9	13.7	12.1	11.3	11.3	10.4		
16.9	12.1	12.1	9.7	10.4	8.1	8.9	8.9	8.1	6.4	6.4		
8.9	5.6	7.3	4.0	5.6	2.5	4.0	3.3	3.3	2.5	2.5		
1.6	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	481.1	481.1
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	457.8	458.6
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	426.4	427.9
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	381.2	383.6
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	327.2	328.8
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	257.9	257.9
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	180.6	182.1
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	126.5	127.4
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	106.4	107.2
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	95.1	96.0
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	84.6	85.4
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	73.3	74.2
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	66.1	66.9
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	59.6	60.5
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	54.0	54.0
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	49.9	49.9
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	45.9	45.9
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	43.5	43.5
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	41.1	41.1
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	38.7	38.7
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	36.3	37.0
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	33.9	33.9
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	31.4	31.4
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	29.1	29.8
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	27.4	27.4
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	25.8	25.8
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	25.0	25.0
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	23.3	23.3
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	21.8	21.8
										71°	21.0	21.0
										72.5°	19.3	19.3
										75°	16.9	16.2
										77.5°	13.7	13.7
										80°	10.4	9.7
										82.5°	6.4	5.6
										85°	2.5	1.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	104.3	103.3
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

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

Scaled Data Report

