

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: P14208

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-3-6-X-BK-5700**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14208  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN/CLB/ARC-080-LED-E-U-33-3-6-X-BK-5700  
Description: STREETWORKS POST TOP WITH A TYPE III SOLID TOP  
PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE  
Light Source: [6] 5700K LEDs  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9165.9 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 101.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

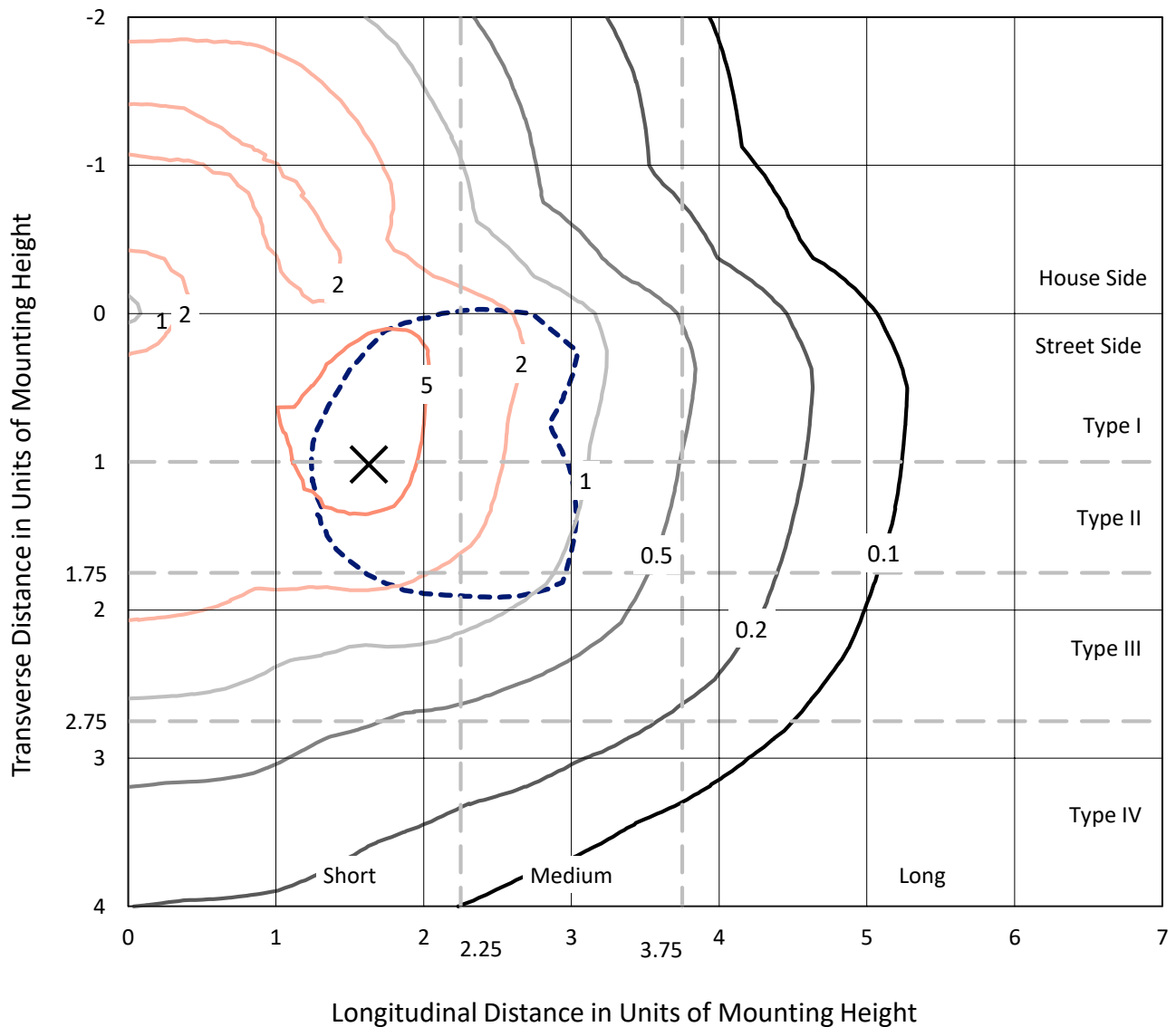


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

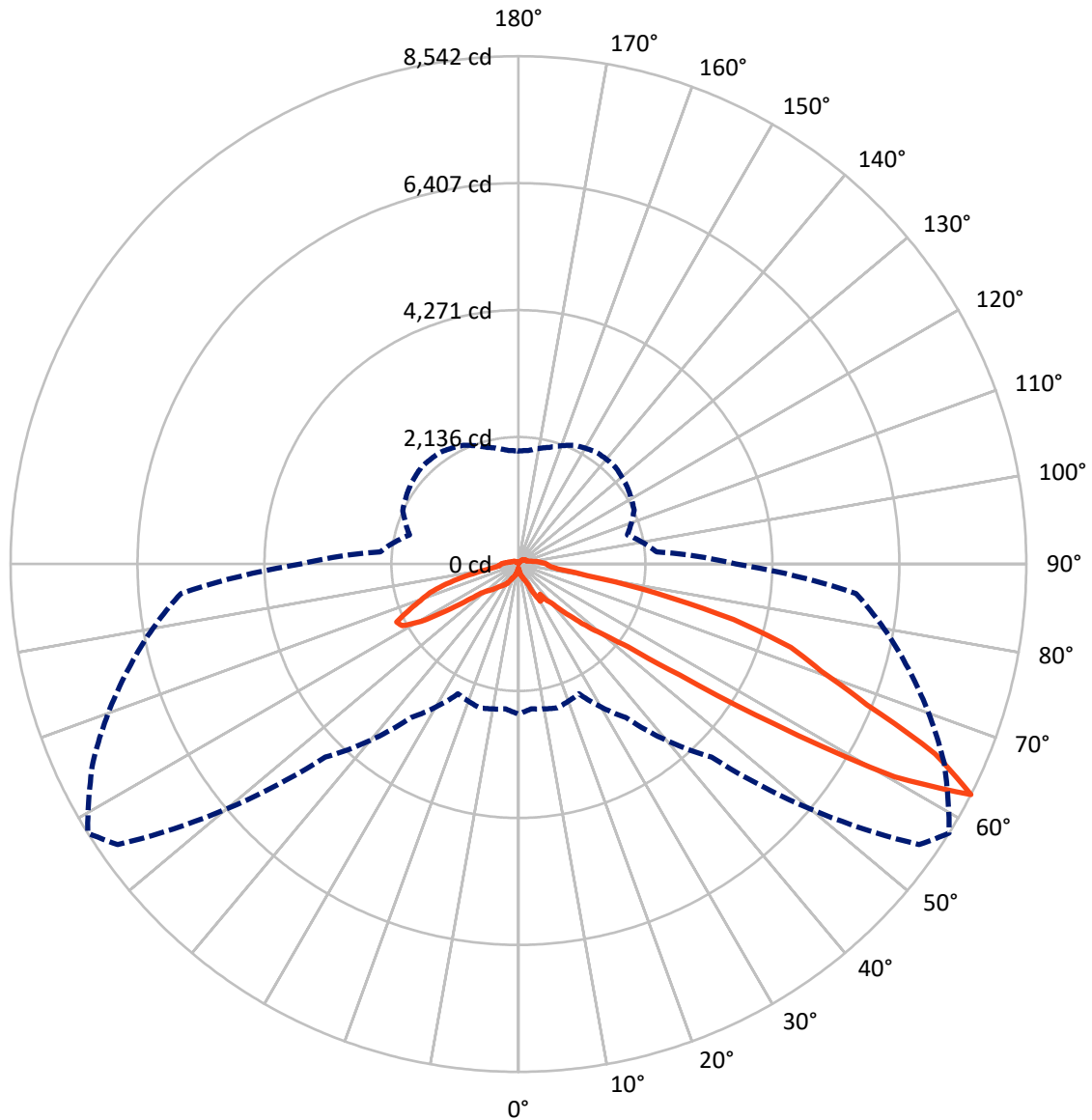


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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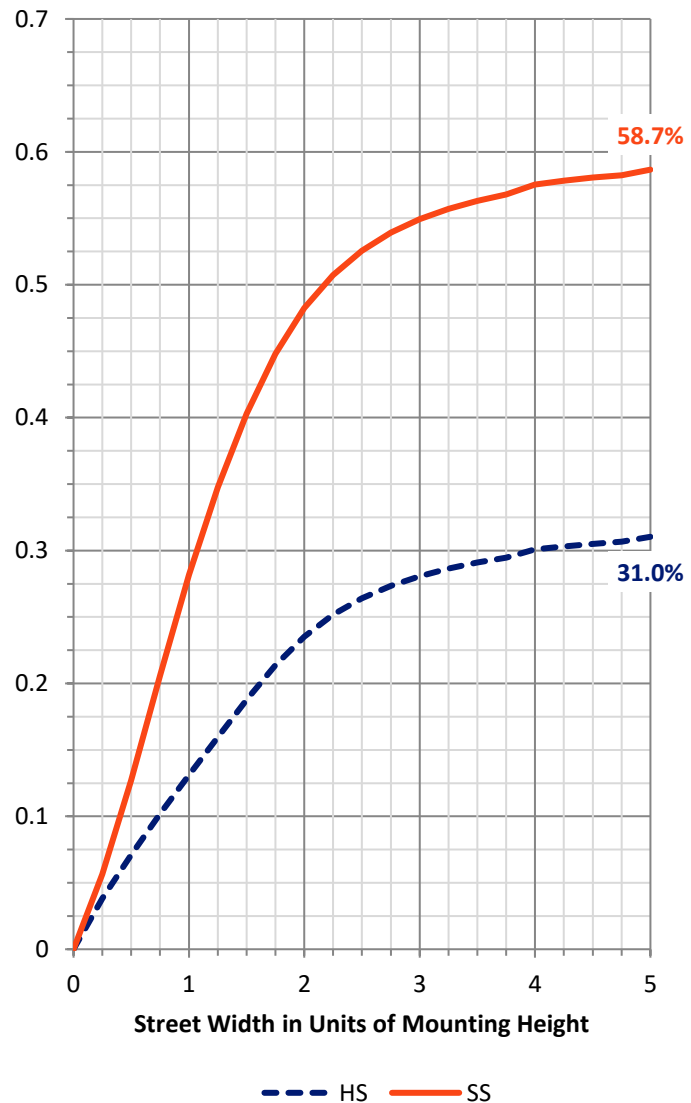
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2925.0	316.5	3241.5
	% Fixture	31.9	3.5	35.4
<b>Street Side</b>	Lumens	5502.4	421.9	5924.3
	% Fixture	60.0	4.6	64.6
<b>Total</b>	Lumens	8427.4	738.4	9165.9
	% Fixture	91.9	8.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.1	0.1
10°-20°	58.1	0.6
20°-30°	160.2	1.7
30°-40°	350.4	3.8
40°-50°	642.2	7.0
50°-60°	1588.6	17.3
60°-70°	3200.7	34.9
70°-80°	1937.4	21.1
80°-90°	478.9	5.2
90°-100°	285.0	3.1
100°-110°	161.9	1.8
110°-120°	110.5	1.2
120°-130°	81.4	0.9
130°-140°	52.6	0.6
140°-150°	27.8	0.3
150°-160°	12.6	0.1
160°-170°	5.4	0.1
170°-180°	1.1	0.0
0°-90°	8427.4	91.9
0°-180°	9165.9	100.0

**Coefficient of Utilization**



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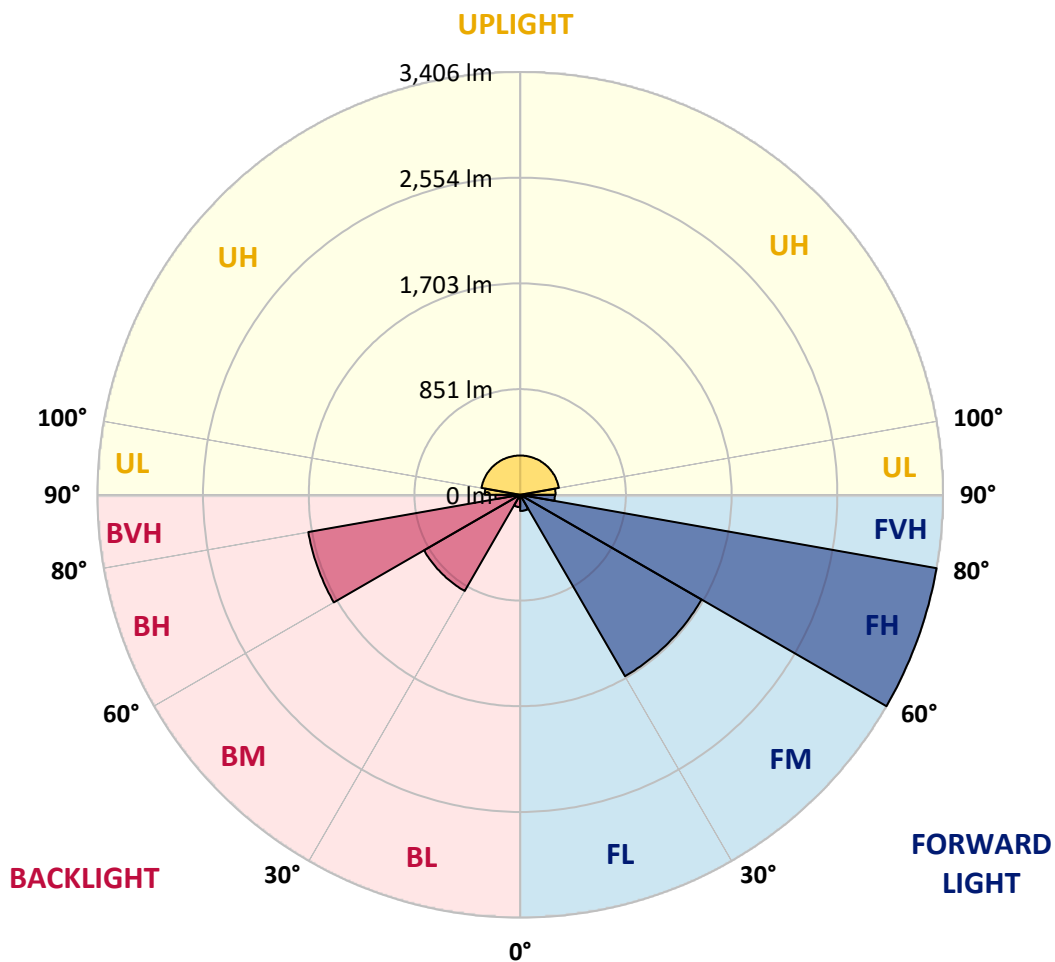
CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-6-X-BK-5700

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.6	1.4			
FM (30°-60°)	1687.0	18.4			
FH (60°-80°)	3405.6	37.2			G2/5000
FVH (80°-90°)	279.3	3.0			G3/500
BL (0°-30°)	98.8	1.1	B0/110		
BM (30°-60°)	894.1	9.8	B1/1000		
BH (60°-80°)	1732.5	18.9	B3/2500		G3/2500
BVH (80°-90°)	199.5	2.2			G2/225
UL (90°-100°)	285.0	3.1		U3/500	
UH (100°-180°)	316.5	3.5		U3/500	

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	87.3	88.8	88.8	87.3	85.7	84.0	80.9	80.9	79.3	79.3	79.3
5°	111.1	111.1	111.1	109.4	107.9	104.7	101.6	101.6	103.1	98.4	95.3
7.5°	142.8	141.1	142.8	141.1	139.6	136.5	138.1	134.8	131.7	130.1	128.5
10°	174.5	173.0	174.5	174.5	173.0	171.3	165.0	166.5	163.4	157.1	153.9
12.5°	201.5	199.9	203.0	203.0	201.5	198.4	196.7	193.6	188.8	187.2	179.3
15°	219.0	215.8	219.0	219.0	220.5	223.8	219.0	215.8	211.0	206.2	199.9
17.5°	236.4	237.9	241.2	239.6	242.7	250.7	247.5	244.4	234.9	231.6	223.8
20°	257.0	260.2	261.8	260.2	260.2	269.7	274.4	271.3	260.2	257.0	241.2
22.5°	301.5	303.0	306.3	307.8	293.5	306.3	318.9	315.7	299.8	303.0	272.9
25°	355.4	350.6	350.6	345.8	347.5	368.1	390.3	390.3	368.1	333.2	299.8
27.5°	431.6	436.3	449.0	442.6	463.3	503.0	558.5	580.7	572.7	498.2	388.8
30°	553.8	553.8	588.6	598.1	604.5	661.6	701.2	729.8	756.8	637.8	490.2
32.5°	585.5	588.6	642.6	641.0	648.9	725.1	721.8	717.1	772.6	675.8	533.1
35°	569.6	582.2	629.9	623.5	645.8	837.7	658.4	625.2	671.2	628.3	509.3
37.5°	602.9	615.6	637.8	641.0	693.4	982.1	791.7	774.3	767.9	680.6	539.4
40°	687.0	704.4	744.1	767.9	806.0	1126.5	896.4	863.1	799.7	836.2	621.9
42.5°	810.8	818.6	836.2	879.0	953.5	1215.3	1128.0	1077.3	912.2	978.9	714.0
45°	896.4	910.7	934.5	956.7	1009.0	1277.1	1347.0	1285.1	1040.7	1177.2	828.2
47.5°	980.5	977.3	990.1	1010.7	1070.9	1454.9	1637.3	1585.0	1210.5	1343.8	934.5
50°	877.4	875.7	961.5	991.6	934.5	1369.2	1835.7	1867.4	1499.4	1347.0	1028.1
52.5°	988.4	956.7	1080.4	1091.5	1110.6	1645.3	2272.0	2308.5	2102.2	1727.8	1201.1
55°	1381.9	1289.9	1420.0	1432.7	1562.8	2091.1	3120.8	3292.1	3303.2	2947.8	1794.4
57.5°	1922.9	1769.0	1943.6	1953.1	2265.7	2841.6	4678.8	5091.3	5262.7	4593.1	2997.1
60°	2292.6	2149.8	2300.5	2264.0	2832.1	3666.6	6749.3	7269.7	7215.7	6090.9	4548.8
62.5°	2522.7	2445.0	2505.2	2408.4	3149.4	4593.1	8227.9	8542.1	7898.0	6787.4	5698.9
65°	2367.1	2370.3	2371.9	2308.5	3038.3	4858.1	7698.0	7702.8	7039.6	5922.7	5827.4
67.5°	2278.3	2276.8	2308.5	2195.8	2752.7	4651.9	6373.3	6320.9	5924.2	5043.7	5289.7
70°	2056.2	2043.5	2125.9	2021.3	2397.3	4025.2	5232.6	5403.9	5053.3	4418.6	4621.7
72.5°	1888.0	1850.0	1942.0	1808.7	2099.0	3238.2	4490.0	4789.9	4504.3	3991.8	4099.7
75°	1586.6	1538.9	1635.7	1478.7	1648.5	2375.1	3444.5	3738.0	3663.5	3362.0	3357.2
77.5°	1123.2	1070.9	1134.4	1013.8	1128.0	1456.4	2151.3	2379.9	2556.0	2414.8	2314.8
80°	693.4	650.6	696.4	628.3	696.4	766.3	1048.7	1175.7	1378.7	1385.0	1270.8
82.5°	436.3	415.7	434.8	401.4	430.0	501.4	614.0	664.7	737.7	740.9	668.0
85°	349.1	339.5	350.6	344.3	366.5	441.1	514.1	536.2	536.2	485.4	466.5
87.5°	342.7	334.8	345.8	345.8	374.5	453.7	490.2	495.0	485.4	430.0	442.6
90°	331.5	323.7	333.2	338.0	372.9	455.4	464.8	463.3	445.9	396.6	402.9
92.5°	292.0	285.6	298.3	304.6	330.0	387.1	399.8	404.6	393.5	353.8	331.5
95°	268.1	265.0	276.1	280.9	298.3	333.2	352.3	355.4	344.3	304.6	295.1
97.5°	234.9	231.6	237.9	244.4	258.6	293.5	298.3	301.5	280.9	250.7	244.4
100°	204.7	203.0	211.0	214.2	222.1	250.7	244.4	244.4	231.6	209.5	206.2
102.5°	184.1	180.8	185.6	185.6	198.4	215.8	206.2	204.7	191.9	169.8	165.0
105°	166.5	165.0	171.3	169.8	176.1	187.2	179.3	179.3	163.4	147.6	144.4
107.5°	149.1	152.4	157.1	158.7	166.5	179.3	166.5	161.8	144.4	133.3	131.7
110°	139.6	136.5	139.6	142.8	150.7	163.4	152.4	152.4	139.6	127.0	130.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
112.5°	122.2	122.2	127.0	128.5	134.8	142.8	142.8	145.9	136.5	125.3	125.3
115°	119.0	112.7	117.4	119.0	127.0	130.1	133.3	133.3	128.5	122.2	119.0
117.5°	106.3	106.3	107.9	111.1	120.5	131.7	141.1	142.8	131.7	133.3	123.7
120°	98.4	103.1	101.6	103.1	107.9	117.4	127.0	128.5	114.2	123.7	115.9
122.5°	96.8	96.8	99.9	99.9	107.9	119.0	123.7	120.5	114.2	115.9	117.4
125°	90.5	88.8	90.5	92.0	104.7	107.9	112.7	112.7	114.2	111.1	115.9
127.5°	84.0	82.5	87.3	87.3	98.4	101.6	112.7	112.7	119.0	112.7	104.7
130°	76.2	77.7	79.3	80.9	90.5	93.6	107.9	109.4	109.4	101.6	99.9
132.5°	77.7	74.6	76.2	80.9	84.0	92.0	104.7	107.9	106.3	99.9	92.0
135°	69.9	69.9	71.4	73.0	77.7	82.5	95.3	95.3	95.3	90.5	82.5
137.5°	53.9	52.3	58.6	58.6	65.1	68.2	76.2	74.6	73.0	73.0	63.4
140°	58.6	58.6	63.4	63.4	65.1	66.6	69.9	68.2	68.2	69.9	63.4
142.5°	49.2	49.2	49.2	50.8	50.8	55.6	55.6	53.9	53.9	57.1	50.8
145°	49.2	49.2	49.2	47.6	49.2	52.3	52.3	52.3	53.9	58.6	49.2
147.5°	42.8	41.2	41.2	41.2	39.7	44.5	42.8	42.8	47.6	47.6	42.8
150°	36.5	36.5	36.5	34.9	33.3	34.9	39.7	38.0	39.7	38.0	38.0
152.5°	33.3	31.7	31.7	28.6	30.2	30.2	33.3	31.7	34.9	34.9	33.3
155°	26.9	25.4	23.8	22.2	20.6	20.6	23.8	25.4	25.4	26.9	26.9
157.5°	22.2	23.8	20.6	20.6	20.6	17.4	20.6	20.6	22.2	22.2	23.8
160°	14.3	17.4	15.9	15.9	15.9	15.9	15.9	17.4	15.9	19.1	20.6
162.5°	15.9	15.9	14.3	12.6	14.3	15.9	14.3	17.4	14.3	19.1	17.4
165°	12.6	12.6	14.3	12.6	12.6	14.3	12.6	14.3	14.3	15.9	17.4
167.5°	15.9	14.3	14.3	14.3	15.9	14.3	15.9	15.9	17.4	17.4	19.1
170°	11.1	11.1	9.5	9.5	12.6	12.6	11.1	12.6	12.6	12.6	12.6
172.5°	12.6	11.1	12.6	11.1	12.6	12.6	9.5	12.6	11.1	12.6	12.6
175°	11.1	9.5	9.5	9.5	9.5	11.1	8.0	8.0	9.5	9.5	11.1
177.5°	12.6	9.5	9.5	12.6	11.1	9.5	11.1	9.5	9.5	9.5	9.5
180°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	77.7	79.3	79.3	76.2	76.2	73.0	69.9	68.2	69.9	69.9	66.6
5°	98.4	95.3	93.6	92.0	90.5	88.8	85.7	84.0	80.9	82.5	80.9
7.5°	123.7	123.7	119.0	115.9	112.7	111.1	109.4	107.9	107.9	107.9	106.3
10°	150.7	149.1	145.9	142.8	138.1	138.1	134.8	133.3	133.3	133.3	131.7
12.5°	176.1	174.5	169.8	166.5	165.0	161.8	161.8	161.8	160.2	160.2	158.7
15°	195.2	193.6	190.4	185.6	185.6	185.6	182.4	180.8	180.8	182.4	180.8
17.5°	217.3	215.8	211.0	206.2	206.2	211.0	207.8	203.0	203.0	206.2	207.8
20°	233.2	228.4	223.8	228.4	226.9	226.9	225.3	223.8	222.1	226.9	225.3
22.5°	263.3	253.8	247.5	252.3	247.5	252.3	253.8	250.7	247.5	249.0	250.7
25°	285.6	280.9	276.1	272.9	274.4	272.9	271.3	271.3	272.9	272.9	269.7
27.5°	349.1	330.0	317.4	317.4	314.1	317.4	312.6	312.6	314.1	315.7	317.4
30°	426.8	399.8	369.7	368.1	364.9	363.4	366.5	363.4	361.7	369.7	366.5
32.5°	476.0	437.9	401.4	402.9	404.6	407.7	407.7	406.2	398.2	402.9	402.9
35°	464.8	439.4	420.5	417.2	425.2	430.0	430.0	422.0	412.5	407.7	406.2
37.5°	487.1	471.3	461.7	461.7	457.0	458.5	460.0	453.7	445.9	442.6	442.6
40°	560.1	529.9	506.1	490.2	487.1	496.7	509.3	506.1	493.4	491.9	496.7
42.5°	629.9	585.5	547.3	526.7	531.5	552.1	566.4	555.3	542.7	537.9	536.2
45°	710.8	641.0	585.5	577.5	590.2	612.4	615.6	598.1	590.2	595.0	598.1
47.5°	794.9	715.5	656.9	637.8	650.6	675.8	687.0	671.2	658.4	639.3	648.9
50°	855.1	750.5	664.7	674.3	704.4	723.5	715.5	690.1	661.6	666.4	668.0
52.5°	925.0	812.3	763.1	782.2	799.7	813.9	806.0	783.7	780.6	753.7	747.2
55°	1224.8	1031.3	1007.5	1039.2	1036.1	1045.5	1088.4	1074.1	1050.3	1074.1	1086.8
57.5°	1919.7	1442.1	1364.4	1407.3	1466.0	1518.3	1575.4	1507.2	1431.0	1432.7	1448.6
60°	2811.4	1913.4	1656.4	1832.4	1929.2	1999.1	2008.6	1880.1	1759.5	1727.8	1729.3
62.5°	3657.0	2333.9	1896.0	2146.7	2240.3	2306.9	2294.2	2203.8	2030.8	1916.6	1899.1
65°	4269.4	2673.4	1983.3	2252.9	2276.8	2311.7	2395.7	2311.7	2021.3	1851.5	1843.7
67.5°	4474.1	2789.1	1837.2	1991.1	2022.8	2189.5	2240.3	2141.9	1900.8	1726.2	1729.3
70°	4193.4	2560.7	1540.6	1667.5	1799.2	1961.0	1918.2	1827.7	1697.6	1575.4	1591.4
72.5°	3625.3	2122.9	1277.1	1472.3	1599.3	1678.5	1613.6	1559.6	1524.8	1445.4	1470.7
75°	2830.5	1640.5	1059.8	1224.8	1278.8	1348.6	1285.1	1274.0	1288.4	1253.4	1270.8
77.5°	1840.4	1091.5	798.0	882.2	917.0	950.4	910.7	926.5	944.1	942.4	951.9
80°	972.6	631.5	545.8	583.9	599.8	599.8	591.8	614.0	631.5	634.6	645.8
82.5°	536.2	402.9	382.3	407.7	404.6	396.6	399.8	407.7	407.7	395.1	396.6
85°	404.6	314.1	312.6	330.0	330.0	330.0	322.1	315.7	303.0	280.9	280.9
87.5°	387.1	301.5	293.5	309.4	309.4	307.8	304.6	293.5	277.7	252.3	252.3
90°	342.7	265.0	269.7	295.1	295.1	288.7	288.7	277.7	261.8	237.9	247.5
92.5°	279.2	217.3	239.6	261.8	261.8	258.6	257.0	252.3	234.9	215.8	207.8
95°	253.8	198.4	211.0	233.2	234.9	234.9	233.2	225.3	214.2	193.6	191.9
97.5°	206.2	166.5	179.3	191.9	195.2	201.5	198.4	193.6	179.3	166.5	160.2
100°	179.3	149.1	157.1	173.0	176.1	179.3	177.8	174.5	161.8	145.9	152.4
102.5°	147.6	125.3	136.5	149.1	158.7	153.9	153.9	149.1	138.1	125.3	125.3
105°	131.7	115.9	123.7	136.5	136.5	139.6	138.1	133.3	127.0	114.2	115.9
107.5°	127.0	104.7	114.2	122.2	127.0	127.0	127.0	120.5	115.9	106.3	104.7
110°	115.9	99.9	106.3	115.9	115.9	114.2	112.7	111.1	106.3	96.8	96.8



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CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-6-X-BK-5700

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	112.7	96.8	103.1	109.4	107.9	106.3	103.1	99.9	96.8	87.3	87.3
115°	106.3	90.5	95.3	101.6	103.1	99.9	93.6	96.8	88.8	84.0	77.7
117.5°	104.7	88.8	90.5	98.4	96.8	99.9	95.3	90.5	85.7	79.3	80.9
120°	103.1	84.0	82.5	84.0	85.7	84.0	84.0	82.5	71.4	69.9	66.6
122.5°	107.9	90.5	85.7	87.3	88.8	85.7	84.0	79.3	74.6	69.9	69.9
125°	98.4	84.0	77.7	80.9	79.3	79.3	74.6	74.6	69.9	66.6	66.6
127.5°	93.6	82.5	76.2	76.2	74.6	74.6	71.4	73.0	68.2	63.4	65.1
130°	85.7	73.0	68.2	68.2	69.9	68.2	63.4	61.9	61.9	58.6	61.9
132.5°	79.3	68.2	66.6	66.6	63.4	63.4	61.9	60.3	58.6	55.6	52.3
135°	71.4	63.4	58.6	60.3	58.6	58.6	57.1	57.1	55.6	53.9	53.9
137.5°	55.6	49.2	46.0	44.5	47.6	44.5	42.8	41.2	44.5	44.5	44.5
140°	58.6	55.6	50.8	49.2	46.0	46.0	46.0	47.6	49.2	49.2	47.6
142.5°	44.5	47.6	39.7	38.0	36.5	36.5	36.5	34.9	39.7	39.7	39.7
145°	46.0	44.5	41.2	39.7	38.0	36.5	36.5	36.5	39.7	42.8	42.8
147.5°	39.7	39.7	38.0	34.9	33.3	31.7	30.2	33.3	34.9	36.5	36.5
150°	38.0	38.0	33.3	31.7	30.2	31.7	28.6	30.2	33.3	33.3	33.3
152.5°	33.3	31.7	31.7	28.6	26.9	28.6	28.6	30.2	30.2	31.7	34.9
155°	25.4	25.4	26.9	25.4	25.4	23.8	25.4	26.9	26.9	26.9	26.9
157.5°	22.2	25.4	26.9	25.4	26.9	26.9	25.4	26.9	26.9	26.9	30.2
160°	20.6	20.6	25.4	26.9	25.4	26.9	25.4	23.8	28.6	25.4	25.4
162.5°	19.1	20.6	22.2	23.8	25.4	26.9	25.4	25.4	25.4	25.4	26.9
165°	17.4	20.6	22.2	23.8	23.8	23.8	23.8	23.8	22.2	23.8	22.2
167.5°	17.4	19.1	20.6	22.2	23.8	23.8	23.8	23.8	23.8	23.8	25.4
170°	12.6	14.3	15.9	17.4	17.4	15.9	12.6	15.9	15.9	15.9	14.3
172.5°	12.6	12.6	14.3	12.6	15.9	12.6	12.6	11.1	14.3	12.6	14.3
175°	9.5	11.1	11.1	11.1	11.1	9.5	9.5	9.5	9.5	11.1	8.0
177.5°	9.5	11.1	11.1	9.5	11.1	12.6	9.5	11.1	11.1	9.5	9.5
180°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6

(END OF REPORT)