

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: P588535

Luminaire Tested: **GAT-CA6-LED-80-760-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-80-760-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7885 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

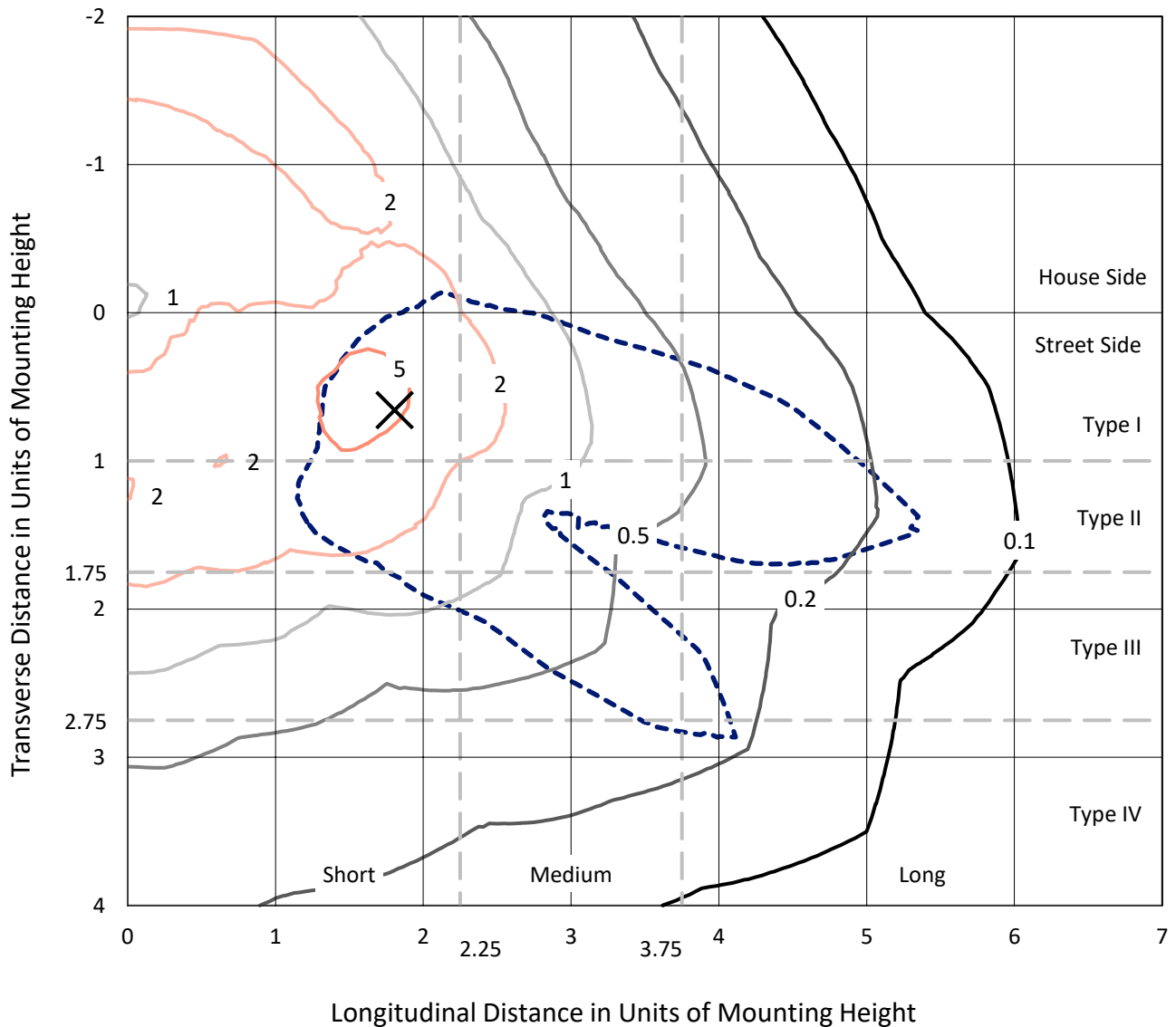
Input Watts (W): 84.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

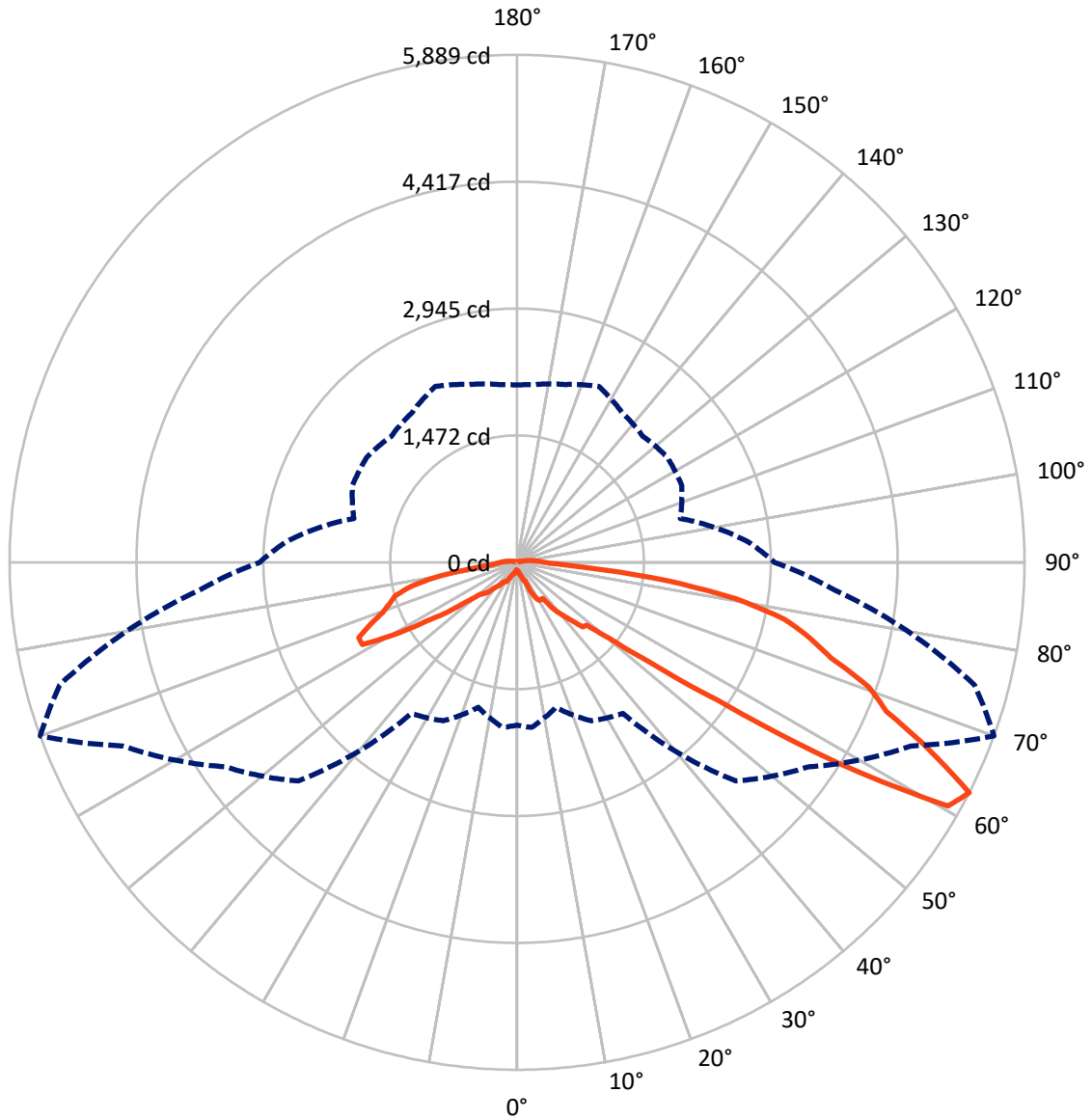
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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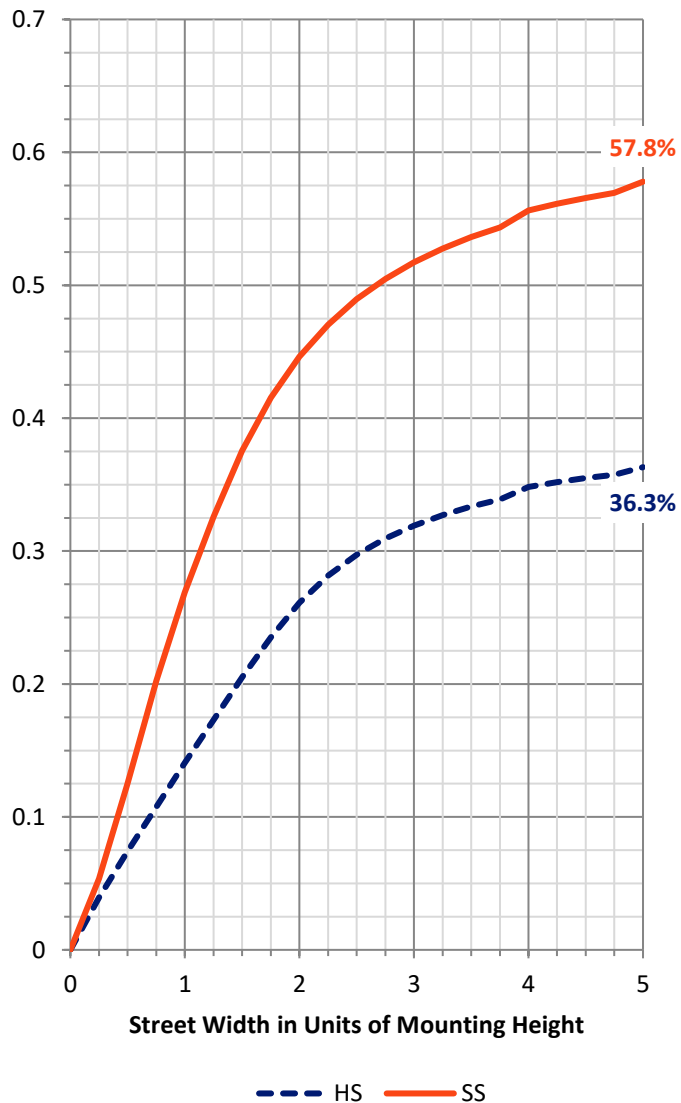
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2922.4	107.1	3029.5
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	4708.3	147.2	4855.5
	% Fixture	59.7	1.9	61.6
Total	Lumens	7630.7	254.4	7885.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	42.9	0.5
20°-30°	133.0	1.7
30°-40°	285.3	3.6
40°-50°	534.4	6.8
50°-60°	1386.9	17.6
60°-70°	2540.5	32.2
70°-80°	2037.8	25.8
80°-90°	659.8	8.4
90°-100°	173.9	2.2
100°-110°	56.6	0.7
110°-120°	22.2	0.3
120°-130°	1.7	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°	7630.7	96.8
0°-180°	7885.0	100.0

Coefficient of Utilization



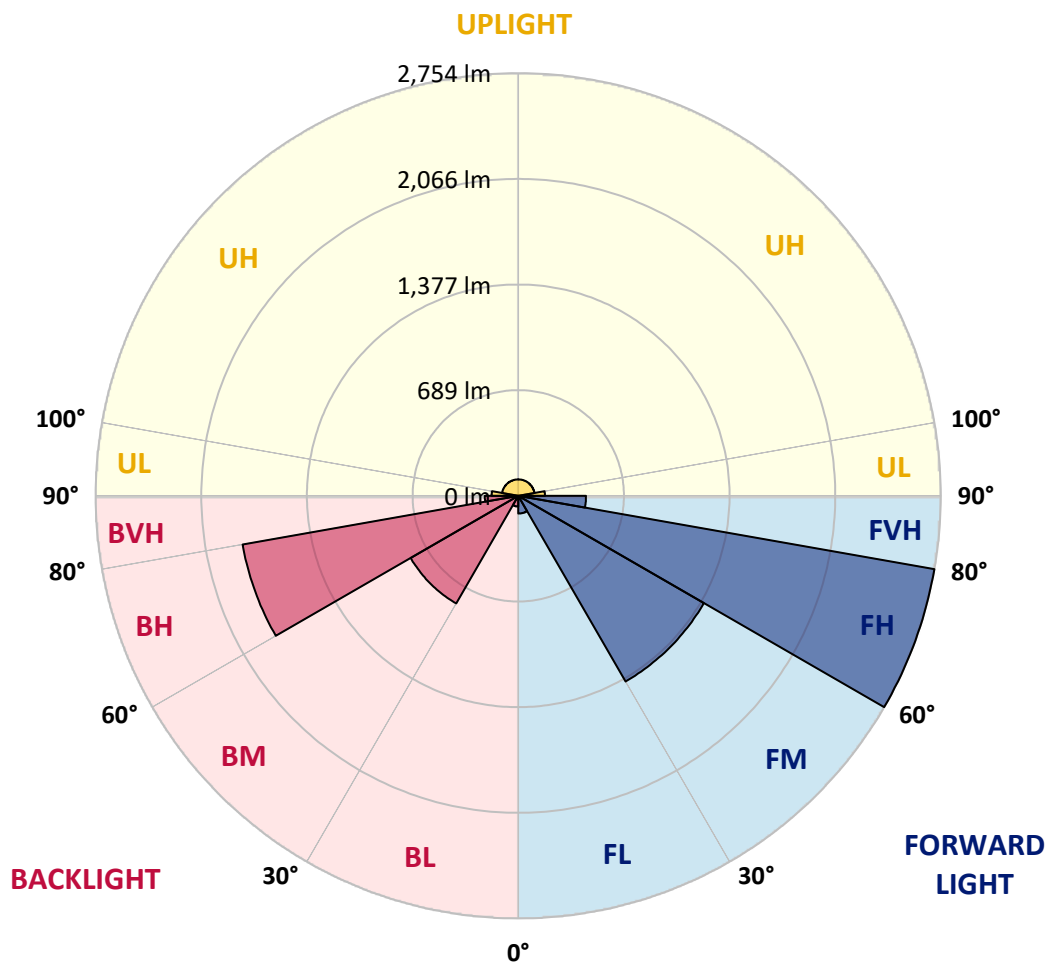
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.7	1.5			
FM (30°-60°)	1397.1	17.7			
FH (60°-80°)	2754.0	34.9			G2/5000
FVH (80°-90°)	441.4	5.6			G3/500
BL (0°-30°)	70.2	0.9	B0/110		
BM (30°-60°)	809.5	10.3	B1/1000		
BH (60°-80°)	1824.3	23.1	B3/2500		G3/2500
BVH (80°-90°)	218.4	2.8			G2/225
UL (90°-100°)	173.9	2.2		U3/500	
UH (100°-180°)	107.1	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	101.0	101.0	101.0	99.5	98.0	96.5	95.0	95.0	93.5	91.9	90.4
5°	110.0	108.5	107.0	104.0	102.5	102.5	101.0	101.0	101.0	99.5	98.0
7.5°	122.1	122.1	120.6	119.1	117.6	116.1	114.6	113.1	113.1	111.5	110.0
10°	138.7	138.7	138.7	137.2	137.2	135.7	132.6	131.1	128.1	126.6	122.1
12.5°	155.3	156.8	153.8	153.8	153.8	152.2	149.2	147.7	144.7	141.7	135.7
15°	171.8	170.3	168.8	167.3	170.3	170.3	168.8	168.8	162.8	158.3	147.7
17.5°	186.9	186.9	188.4	188.4	192.9	191.4	191.4	189.9	186.9	179.4	165.8
20°	211.0	212.5	212.5	212.5	227.6	233.6	235.1	236.7	232.1	217.1	189.9
22.5°	235.1	236.7	247.2	244.2	244.2	244.2	259.3	251.7	232.1	214.0	199.0
25°	318.1	322.6	325.6	336.1	348.2	381.4	434.1	417.5	387.4	325.6	274.3
27.5°	397.9	404.0	458.2	533.6	544.2	505.0	542.7	492.9	477.8	414.5	372.3
30°	434.1	444.7	538.1	589.4	607.5	556.2	610.5	515.5	511.0	465.8	429.6
32.5°	443.2	450.7	553.2	559.2	563.8	557.7	639.1	523.1	512.5	467.3	414.5
35°	429.6	438.6	508.0	473.3	474.8	581.8	734.1	563.8	515.5	437.1	378.3
37.5°	529.1	529.1	587.9	596.9	636.1	765.7	961.7	744.6	690.4	569.8	497.4
40°	602.9	610.5	703.9	738.6	744.6	854.7	1204.4	872.8	795.9	637.6	581.8
42.5°	702.4	700.9	786.8	811.0	827.5	868.2	1231.5	1003.9	913.5	722.0	679.8
45°	719.0	743.1	821.5	794.4	815.5	919.5	1285.8	1189.3	1068.7	881.8	794.4
47.5°	652.7	685.8	844.1	821.5	737.1	785.3	1031.0	1221.0	1088.3	905.9	844.1
50°	703.9	722.0	800.4	785.3	672.3	835.1	1132.0	1530.0	1382.3	1077.8	919.5
52.5°	910.4	949.6	963.2	1022.0	967.7	1249.6	1584.2	1938.5	1918.9	1560.1	1213.4
55°	1169.7	1227.0	1287.3	1510.4	1542.0	1962.6	2211.3	2589.6	2824.8	2467.6	1861.6
57.5°	1450.1	1531.5	1511.9	1836.0	1885.7	2659.0	2888.1	3774.4	4403.0	3917.6	2726.8
60°	1721.4	1775.7	1665.6	1950.5	2045.5	3347.8	3684.0	4915.5	5743.0	5226.0	3358.4
62.5°	1888.7	1923.4	1742.5	2028.9	2140.5	3587.5	4134.7	5043.6	5889.3	5495.8	3700.6
65°	1887.2	1878.2	1671.7	1920.4	1905.3	3311.7	3996.0	4238.7	5260.7	5194.4	3744.3
67.5°	1813.4	1816.4	1599.3	1796.8	1735.0	2919.8	3702.1	3586.0	4624.6	4713.5	3641.8
70°	1742.5	1778.7	1572.2	1744.0	1715.4	2808.2	3574.0	3227.3	4326.1	4495.0	3533.3
72.5°	1643.0	1677.7	1483.2	1634.0	1644.5	2585.1	3355.4	2817.3	3815.1	4018.6	3167.0
75°	1641.5	1685.2	1502.8	1635.5	1652.1	2458.5	3382.5	2675.6	3509.1	3782.0	2955.9
77.5°	1548.1	1587.3	1418.4	1542.0	1588.8	2224.9	3227.3	2499.2	3170.0	3476.0	2680.1
80°	1243.6	1296.3	1157.7	1239.1	1264.7	1668.6	2588.1	2047.0	2579.1	2885.1	2190.2
82.5°	850.2	898.4	806.4	866.7	899.9	1094.3	1789.2	1474.2	1753.1	1940.0	1371.7
85°	491.4	548.7	494.4	486.9	503.5	577.3	963.2	783.8	815.5	857.7	609.0
87.5°	309.0	318.1	290.9	292.4	295.4	316.5	438.6	349.7	385.9	437.1	369.3
90°	245.7	254.7	235.1	236.7	232.1	251.7	328.6	266.8	297.0	342.2	292.4
92.5°	212.5	218.6	205.0	208.0	205.0	220.1	274.3	220.1	244.2	280.4	239.7
95°	180.9	185.4	177.9	179.4	170.3	179.4	214.0	167.3	185.4	211.0	179.4
97.5°	144.7	149.2	144.7	144.7	135.7	140.2	164.3	129.6	141.7	158.3	135.7
100°	114.6	116.1	114.6	113.1	105.5	105.5	114.6	93.5	98.0	108.5	93.5
102.5°	87.4	88.9	87.4	85.9	76.9	72.4	72.4	60.3	63.3	66.3	58.8
105°	69.3	70.8	69.3	66.3	58.8	54.3	52.8	43.7	43.7	45.2	40.7
107.5°	57.3	57.3	57.3	54.3	49.7	43.7	39.2	31.7	31.7	33.2	31.7
110°	46.7	46.7	45.2	43.7	39.2	34.7	30.1	25.6	25.6	25.6	24.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	39.2	39.2	37.7	36.2	31.7	27.1	24.1	21.1	21.1	21.1	19.6
115°	33.2	33.2	31.7	30.1	27.1	22.6	19.6	16.6	16.6	16.6	16.6
117.5°	28.6	28.6	27.1	25.6	22.6	19.6	16.6	13.6	13.6	13.6	13.6
120°	25.6	24.1	22.6	21.1	18.1	16.6	13.6	12.1	12.1	12.1	10.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2.5°	90.4	90.4	88.9	88.9	88.9	87.4	87.4	88.9	88.9	88.9	88.9
5°	96.5	95.0	91.9	88.9	87.4	85.9	84.4	84.4	87.4	87.4	87.4
7.5°	108.5	107.0	102.5	99.5	96.5	93.5	91.9	90.4	91.9	93.5	93.5
10°	120.6	119.1	113.1	108.5	107.0	104.0	102.5	101.0	102.5	102.5	102.5
12.5°	132.6	129.6	125.1	119.1	116.1	114.6	113.1	111.5	111.5	111.5	111.5
15°	143.2	138.7	134.2	129.6	126.6	123.6	122.1	120.6	122.1	123.6	123.6
17.5°	159.8	155.3	144.7	137.2	135.7	132.6	131.1	131.1	132.6	134.2	134.2
20°	177.9	168.8	156.8	149.2	147.7	143.2	141.7	141.7	143.2	144.7	144.7
22.5°	192.9	186.9	168.8	158.3	156.8	155.3	156.8	156.8	158.3	159.8	159.8
25°	245.7	221.6	196.0	188.4	186.9	183.9	180.9	179.4	180.9	185.4	186.9
27.5°	331.6	287.9	239.7	223.1	223.1	226.1	232.1	235.1	229.1	226.1	227.6
30°	388.9	330.1	260.8	245.7	248.7	263.8	277.4	286.4	280.4	275.8	277.4
32.5°	373.8	319.6	269.8	266.8	275.8	287.9	295.4	300.0	312.0	316.5	322.6
35°	340.7	300.0	272.8	284.9	290.9	290.9	290.9	290.9	313.5	334.6	340.7
37.5°	416.0	346.7	324.1	328.6	324.1	319.6	324.1	336.1	355.7	372.3	376.8
40°	488.4	401.0	363.3	360.3	358.8	373.8	401.0	422.1	428.1	413.0	416.0
42.5°	568.3	453.7	405.5	410.0	422.1	446.2	476.3	476.3	476.3	462.8	467.3
45°	643.6	515.5	486.9	498.9	498.9	511.0	527.6	517.0	530.6	536.6	544.2
47.5°	732.6	598.4	535.1	524.6	526.1	550.2	556.2	551.7	560.7	550.2	550.2
50°	759.7	612.0	562.2	602.9	602.9	575.8	553.2	556.2	581.8	610.5	616.5
52.5°	966.2	758.2	713.0	755.2	773.3	726.5	726.5	732.6	738.6	759.7	765.7
55°	1445.6	1080.8	945.1	1043.1	1056.7	1085.3	1163.7	1151.6	1082.3	1047.6	1044.6
57.5°	2161.6	1603.8	1177.2	1315.9	1403.4	1520.9	1579.7	1545.0	1451.6	1419.9	1385.3
60°	2763.0	2196.2	1525.4	1766.6	1897.8	1917.4	1896.3	1899.3	1828.4	1851.0	1842.0
62.5°	2986.1	2695.2	1961.1	2107.3	2126.9	2066.6	2122.4	2250.5	2135.9	2068.1	2057.5
65°	3052.4	2880.6	2083.2	1988.2	1970.1	1959.6	2179.6	2393.7	2137.4	1979.2	1977.7
67.5°	2986.1	2690.6	1927.9	1771.1	1813.4	1899.3	2185.7	2265.6	2024.4	1849.5	1837.5
70°	2900.2	2384.6	1735.0	1599.3	1697.3	1822.4	2004.8	1973.1	1878.2	1722.9	1715.4
72.5°	2588.1	2066.6	1611.4	1498.3	1609.9	1646.0	1736.5	1722.9	1750.0	1652.1	1647.5
75°	2316.8	1897.8	1537.5	1404.9	1459.1	1453.1	1525.4	1542.0	1618.9	1576.7	1560.1
77.5°	1998.8	1650.6	1355.1	1201.4	1222.5	1221.0	1255.6	1266.2	1320.4	1323.5	1305.4
80°	1564.6	1293.3	1058.2	904.4	907.4	880.3	884.8	883.3	893.9	905.9	889.3
82.5°	898.4	722.0	599.9	502.0	480.8	444.7	437.1	440.1	435.6	432.6	432.6
85°	440.1	342.2	315.0	281.9	269.8	260.8	265.3	274.3	278.9	269.8	265.3
87.5°	297.0	256.3	244.2	230.6	224.6	215.6	221.6	229.1	235.1	227.6	226.1
90°	235.1	203.5	200.5	197.5	192.9	185.4	191.4	200.5	205.0	199.0	196.0
92.5°	189.9	164.3	164.3	162.8	158.3	152.2	159.8	167.3	171.8	167.3	165.8
95°	146.2	126.6	131.1	128.1	123.6	122.1	126.6	132.6	135.7	132.6	132.6
97.5°	113.1	99.5	104.0	102.5	96.5	95.0	98.0	102.5	105.5	102.5	101.0
100°	76.9	70.8	76.9	76.9	70.8	67.8	70.8	75.4	76.9	76.9	75.4
102.5°	51.3	48.2	55.8	57.3	54.3	51.3	52.8	55.8	57.3	57.3	57.3
105°	36.2	36.2	43.7	45.2	42.2	39.2	42.2	43.7	43.7	43.7	43.7
107.5°	28.6	30.1	34.7	37.7	34.7	31.7	33.2	34.7	34.7	34.7	36.2
110°	24.1	24.1	28.6	31.7	28.6	27.1	27.1	27.1	27.1	28.6	31.7



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 CATALOG NUMBER: GAT-CA6-LED-80-760-U-33-5-6-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.6	21.1	24.1	25.6	24.1	22.6	22.6	22.6	22.6	24.1	28.6
115°	16.6	18.1	21.1	21.1	19.6	19.6	19.6	18.1	18.1	19.6	27.1
117.5°	13.6	15.1	16.6	16.6	16.6	15.1	15.1	15.1	15.1	18.1	28.6
120°	12.1	12.1	13.6	13.6	12.1	12.1	12.1	12.1	10.6	15.1	22.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)