

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: P198380

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198380
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-CG-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5583 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 62.4
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: 25 FT

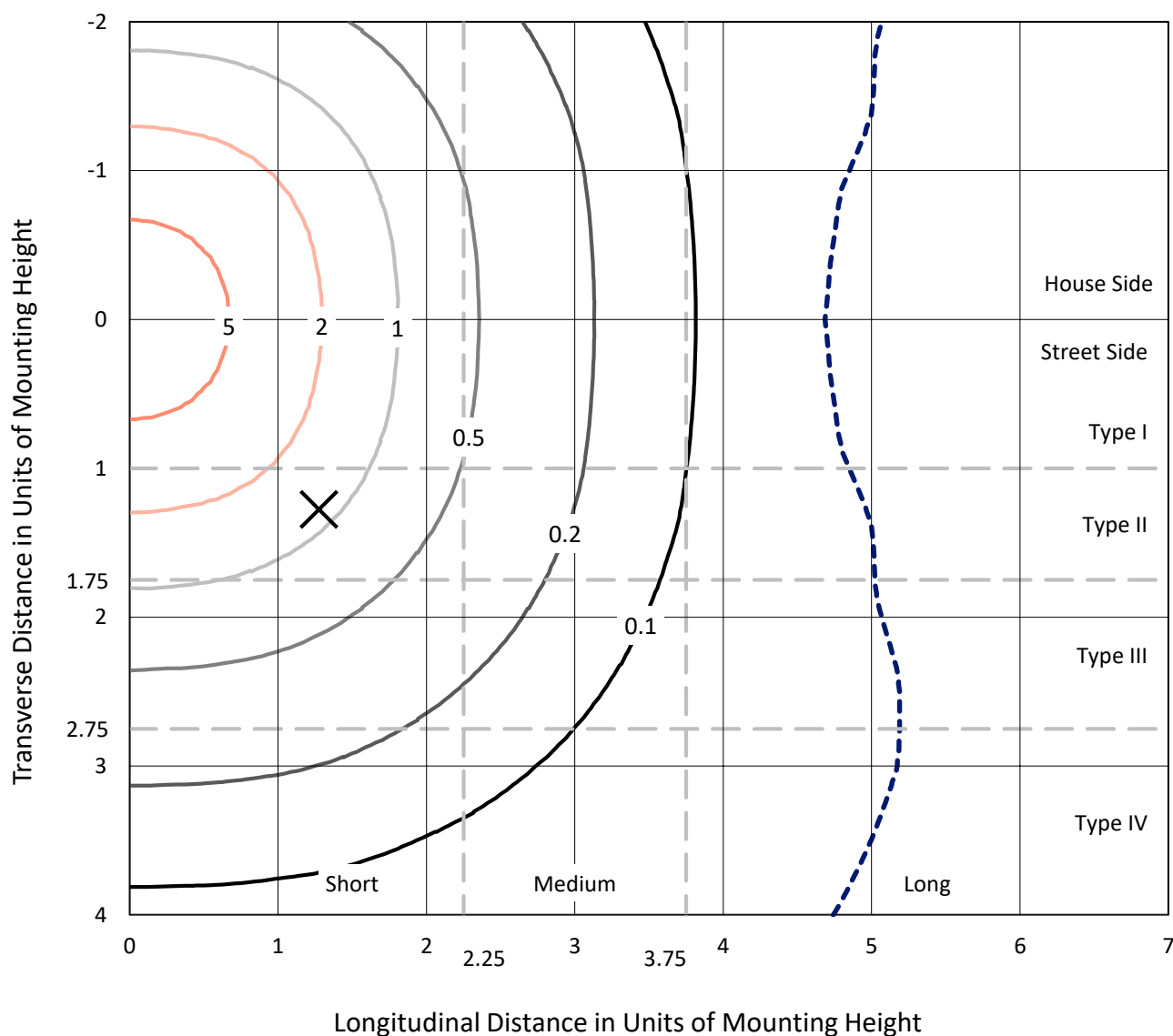


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

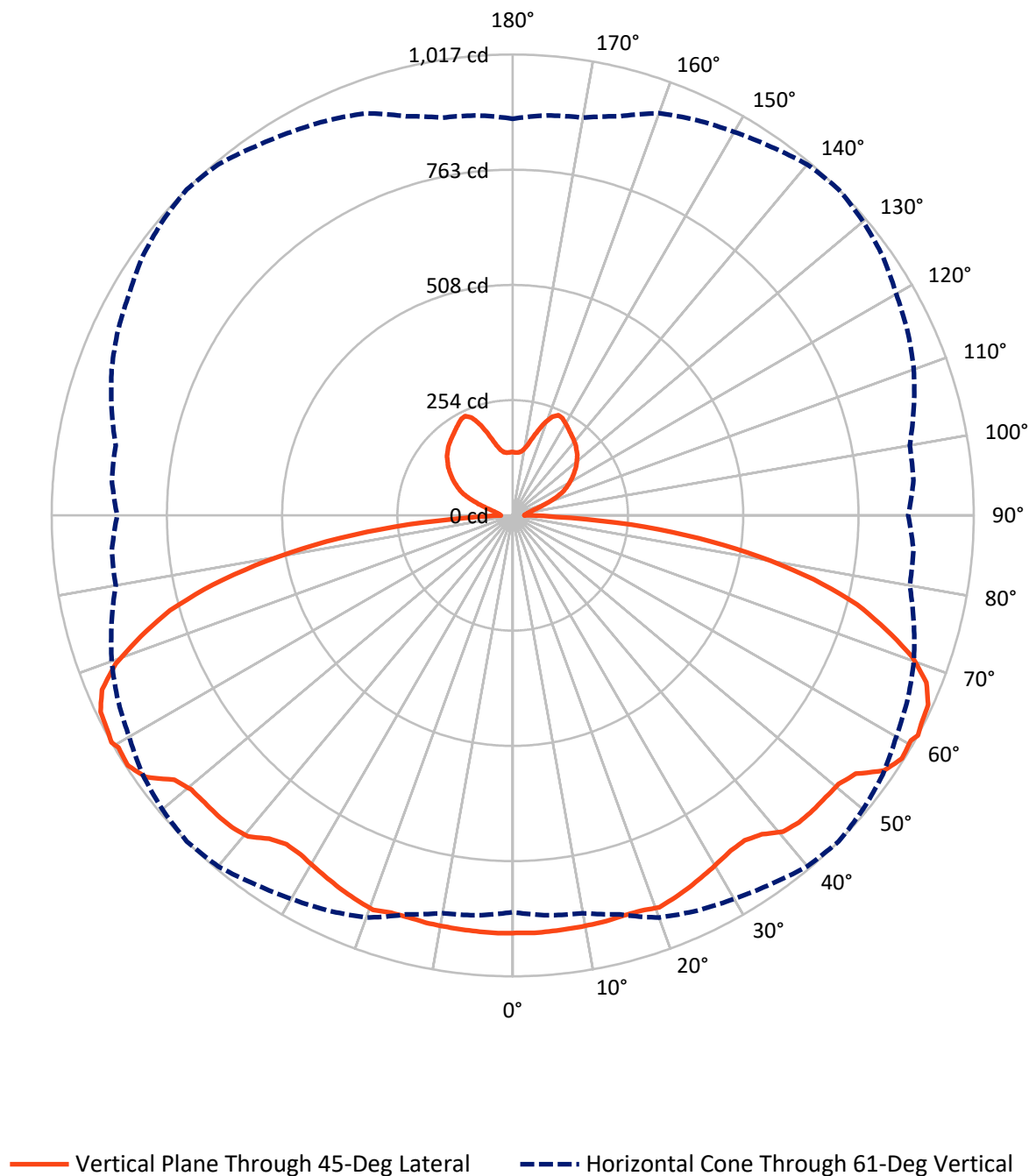


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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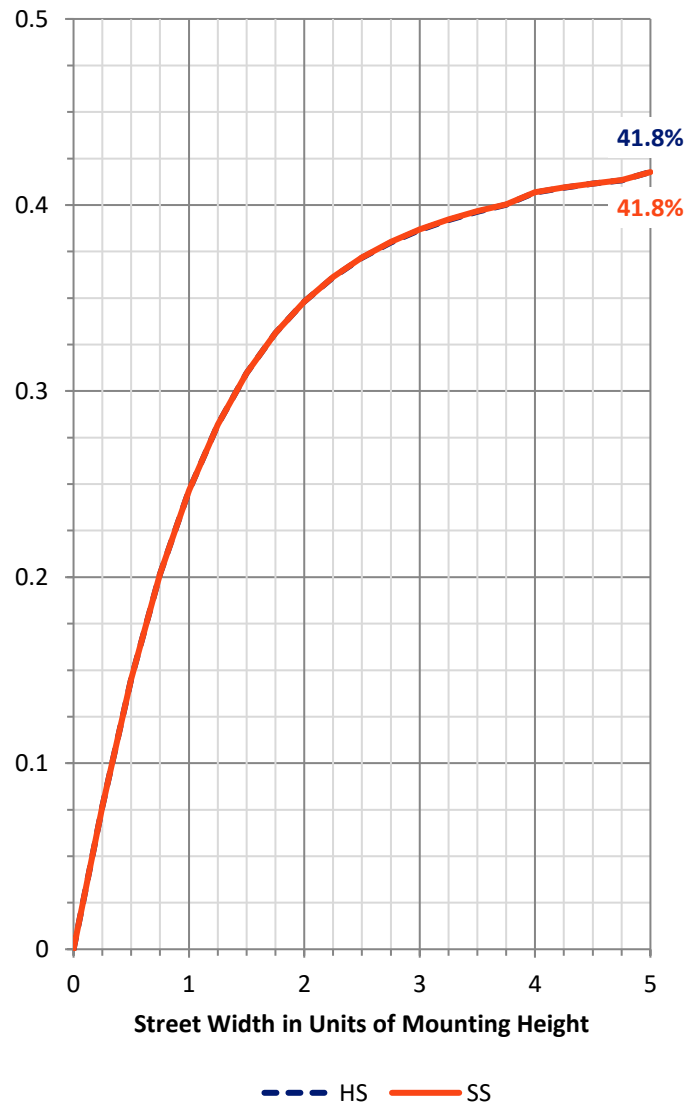
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2379.5	412.0	2791.5
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2379.5	412.0	2791.5
	% Fixture	42.6	7.4	50.0
Total	Lumens	4759.1	824.0	5583.0
	% Fixture	85.2	14.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.6
10°-20°	259.8	4.7
20°-30°	418.0	7.5
30°-40°	553.8	9.9
40°-50°	699.3	12.5
50°-60°	838.0	15.0
60°-70°	916.2	16.4
70°-80°	733.5	13.1
80°-90°	252.5	4.5
90°-100°	38.3	0.7
100°-110°	59.4	1.1
110°-120°	119.3	2.1
120°-130°	148.7	2.7
130°-140°	153.2	2.7
140°-150°	136.0	2.4
150°-160°	103.7	1.9
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4759.1	85.2
0°-180°	5583.0	100.0

Coefficient of Utilization



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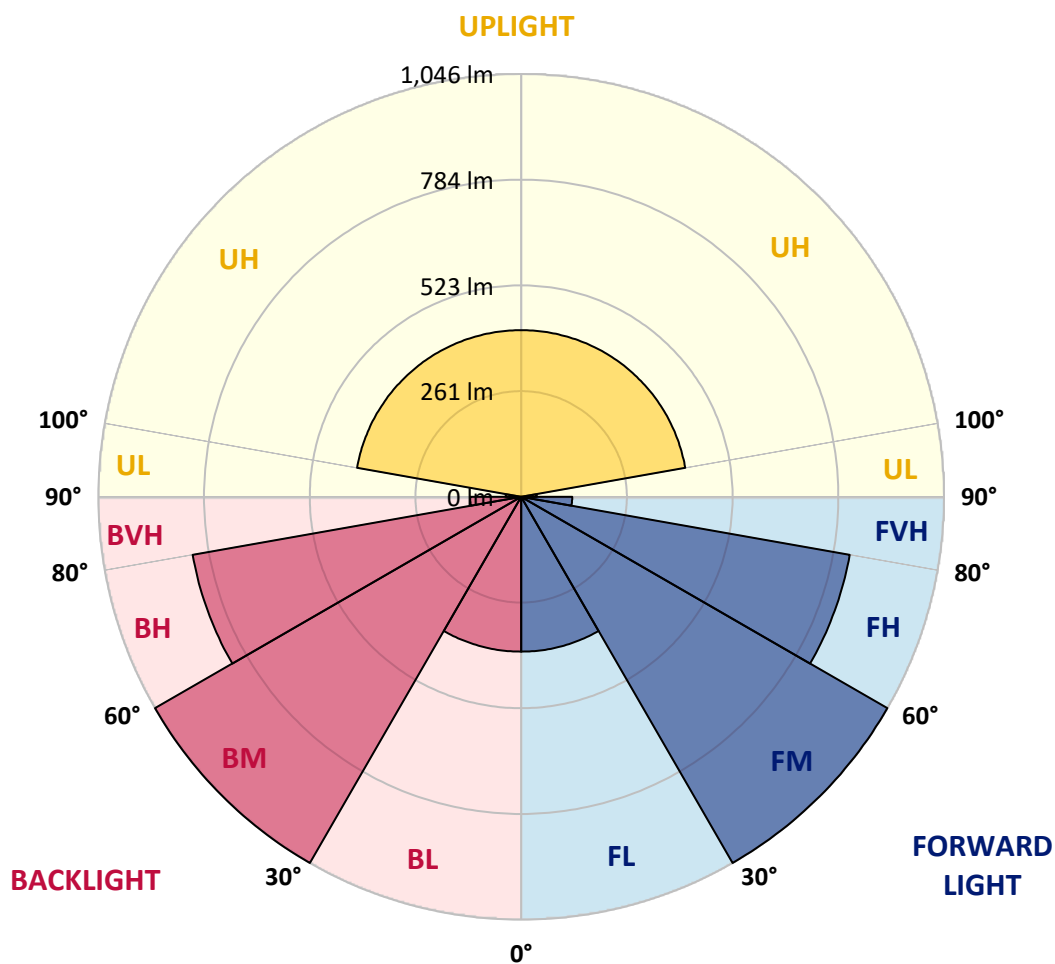
CATALOG NUMBER: TT-C3-LED-E1-MQ-CG-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.9	6.9			
FM	(30°-60°)	1045.6	18.7			
FH	(60°-80°)	824.9	14.8			G1/1800
FVH	(80°-90°)	126.3	2.3			G2/225
BL	(0°-30°)	382.9	6.9	B1/500		
BM	(30°-60°)	1045.6	18.7	B2/2500		
BH	(60°-80°)	824.9	14.8	B2/1000		G1/1800
BVH	(80°-90°)	126.3	2.3			G2/225
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.4		U3/500	

BUG Rating: B2-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
2.5°	922.1	921.2	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1
5°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
7.5°	920.3	920.3	920.3	920.3	920.3	920.3	920.3	920.3	921.2	920.3	921.2
10°	918.6	918.6	918.6	918.6	919.4	919.4	919.4	919.4	919.4	919.4	919.4
12.5°	916.8	916.8	916.8	916.8	917.7	917.7	917.7	917.7	918.6	918.6	917.7
15°	915.0	914.1	914.1	915.0	915.0	915.9	915.9	915.9	916.8	915.9	915.9
17.5°	913.2	912.3	913.2	914.1	914.1	915.0	915.9	915.9	916.8	916.8	916.8
20°	915.9	915.0	915.9	916.8	917.7	919.4	920.3	921.2	922.1	923.0	923.0
22.5°	910.6	909.7	910.6	910.6	911.5	912.3	914.1	915.0	915.9	915.9	915.9
25°	902.6	902.6	903.5	903.5	904.4	905.2	906.1	907.0	907.0	907.0	907.0
27.5°	893.7	893.7	894.6	894.6	896.4	896.4	897.3	898.1	899.0	899.0	899.0
30°	883.1	883.1	883.9	884.8	886.6	887.5	888.4	889.3	890.2	890.2	890.2
32.5°	873.4	872.5	873.4	875.2	877.8	879.6	881.4	882.2	882.2	882.2	883.1
35°	865.4	866.3	868.1	869.8	873.4	875.2	876.9	879.6	880.5	880.5	880.5
37.5°	867.2	868.1	870.7	874.3	878.7	883.9	887.5	891.0	893.7	892.8	891.9
40°	878.7	880.5	884.8	890.2	897.3	904.4	909.7	914.1	916.8	917.7	916.8
42.5°	880.5	882.2	885.7	893.7	901.7	909.7	916.8	921.2	924.8	925.7	924.8
45°	879.6	879.6	884.8	893.7	901.7	909.7	918.6	924.8	928.3	928.3	928.3
47.5°	873.4	876.1	879.6	888.4	899.0	907.0	915.9	922.1	926.5	929.1	926.5
50°	873.4	873.4	879.6	885.7	895.5	909.7	922.1	928.3	932.7	931.8	932.7
52.5°	871.6	876.9	880.5	889.3	907.0	921.2	930.9	939.8	946.0	946.9	945.1
55°	887.5	888.4	896.4	913.2	930.0	946.0	963.7	976.9	987.6	993.8	984.9
57.5°	899.9	895.5	911.5	925.7	945.1	969.1	995.6	1006.2	1014.2	1012.4	1015.1
60°	883.1	889.3	900.8	915.9	946.9	970.8	984.9	996.5	1006.2	1008.9	1005.3
61°	875.2	885.7	891.0	911.5	944.2	962.0	976.9	992.9	1010.7	1016.9	1008.9
62.5°	861.9	878.7	876.9	909.7	930.0	950.4	978.7	997.4	1009.8	1011.6	1009.8
65°	862.7	860.1	880.5	904.4	924.8	961.1	984.9	996.5	1003.6	1007.1	1005.3
67.5°	834.3	825.6	850.3	867.2	901.7	930.0	953.1	969.9	980.5	984.0	979.6
70°	768.9	775.1	792.7	818.5	846.8	881.4	902.6	924.8	933.5	934.4	934.4
72.5°	705.9	709.5	727.2	751.1	783.9	814.0	835.2	853.0	861.0	861.9	863.6
75°	622.7	626.2	646.6	668.8	701.5	727.2	742.2	763.5	775.1	784.8	776.8
77.5°	526.1	532.4	548.2	572.2	602.3	616.5	643.1	667.9	675.9	678.5	675.9
80°	417.2	425.2	439.4	471.2	484.5	507.5	533.2	543.9	550.9	552.7	553.6
82.5°	300.3	306.5	321.5	343.7	358.7	377.3	395.1	408.3	416.3	414.5	413.6
85°	177.1	178.9	194.9	210.0	221.4	232.9	247.1	256.9	258.7	262.1	261.3
87.5°	53.2	54.0	61.1	69.1	74.4	79.7	88.6	100.1	102.8	95.7	96.6
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
2.5°	922.1	922.1	922.1	922.1	922.1	922.1	921.2	922.1
5°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
7.5°	921.2	920.3	920.3	920.3	920.3	920.3	920.3	920.3
10°	919.4	919.4	919.4	919.4	918.6	918.6	918.6	918.6
12.5°	917.7	917.7	917.7	917.7	916.8	916.8	916.8	916.8
15°	915.9	915.9	915.9	915.9	915.0	915.0	915.0	915.0
17.5°	916.8	915.9	915.0	915.0	914.1	913.2	913.2	913.2
20°	922.1	921.2	919.4	917.7	916.8	915.9	915.9	915.9
22.5°	915.0	914.1	912.3	911.5	911.5	910.6	909.7	909.7
25°	907.0	905.2	905.2	904.4	904.4	902.6	902.6	901.7
27.5°	898.1	897.3	896.4	895.5	895.5	894.6	893.7	892.8
30°	890.2	888.4	886.6	885.7	884.8	883.9	883.9	883.9
32.5°	882.2	880.5	879.6	876.9	875.2	874.3	873.4	873.4
35°	879.6	876.9	875.2	872.5	869.8	868.1	867.2	865.4
37.5°	890.2	886.6	883.9	879.6	873.4	870.7	868.1	867.2
40°	913.2	909.7	904.4	897.3	890.2	884.8	880.5	878.7
42.5°	921.2	916.8	909.7	902.6	893.7	885.7	882.2	880.5
45°	923.9	919.4	909.7	900.8	892.8	885.7	880.5	878.7
47.5°	921.2	915.0	906.1	899.0	887.5	878.7	875.2	872.5
50°	927.4	922.1	910.6	894.6	884.8	879.6	873.4	872.5
52.5°	939.8	930.0	919.4	907.9	889.3	878.7	875.2	870.7
55°	976.9	963.7	945.1	926.5	915.0	898.1	887.5	887.5
57.5°	1005.3	994.7	970.8	946.0	924.8	912.3	896.4	897.3
60°	997.4	983.2	971.7	946.9	916.8	899.9	893.7	882.2
61°	996.5	976.9	961.1	941.5	915.9	889.3	887.5	872.5
62.5°	998.2	980.5	950.4	930.0	910.6	876.1	875.2	861.0
65°	996.5	979.6	964.6	926.5	899.9	885.7	855.6	867.2
67.5°	969.1	954.0	926.5	905.2	864.5	846.8	830.0	830.0
70°	925.7	903.5	876.9	850.3	822.9	792.7	777.7	768.9
72.5°	853.0	834.3	813.1	784.8	751.1	723.7	709.5	703.3
75°	761.8	741.3	722.8	701.5	666.1	643.1	628.0	623.6
77.5°	666.1	648.3	615.6	595.3	571.3	544.8	531.5	526.1
80°	543.9	534.1	511.1	478.3	466.8	434.0	425.2	417.2
82.5°	408.3	397.7	376.4	353.5	339.3	320.6	304.7	303.0
85°	256.9	249.8	236.5	219.6	202.0	191.3	177.1	180.7
87.5°	95.7	91.2	83.2	72.6	64.7	57.6	50.5	53.2
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0

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CATALOG NUMBER: TT-C3-LED-E1-MQ-CG-8030-UPL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)