

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: P198384

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-MS/DIM-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198384
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-MS/DIM-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6259.6 lumens
Efficiency: N/A
Efficacy: 100.3 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

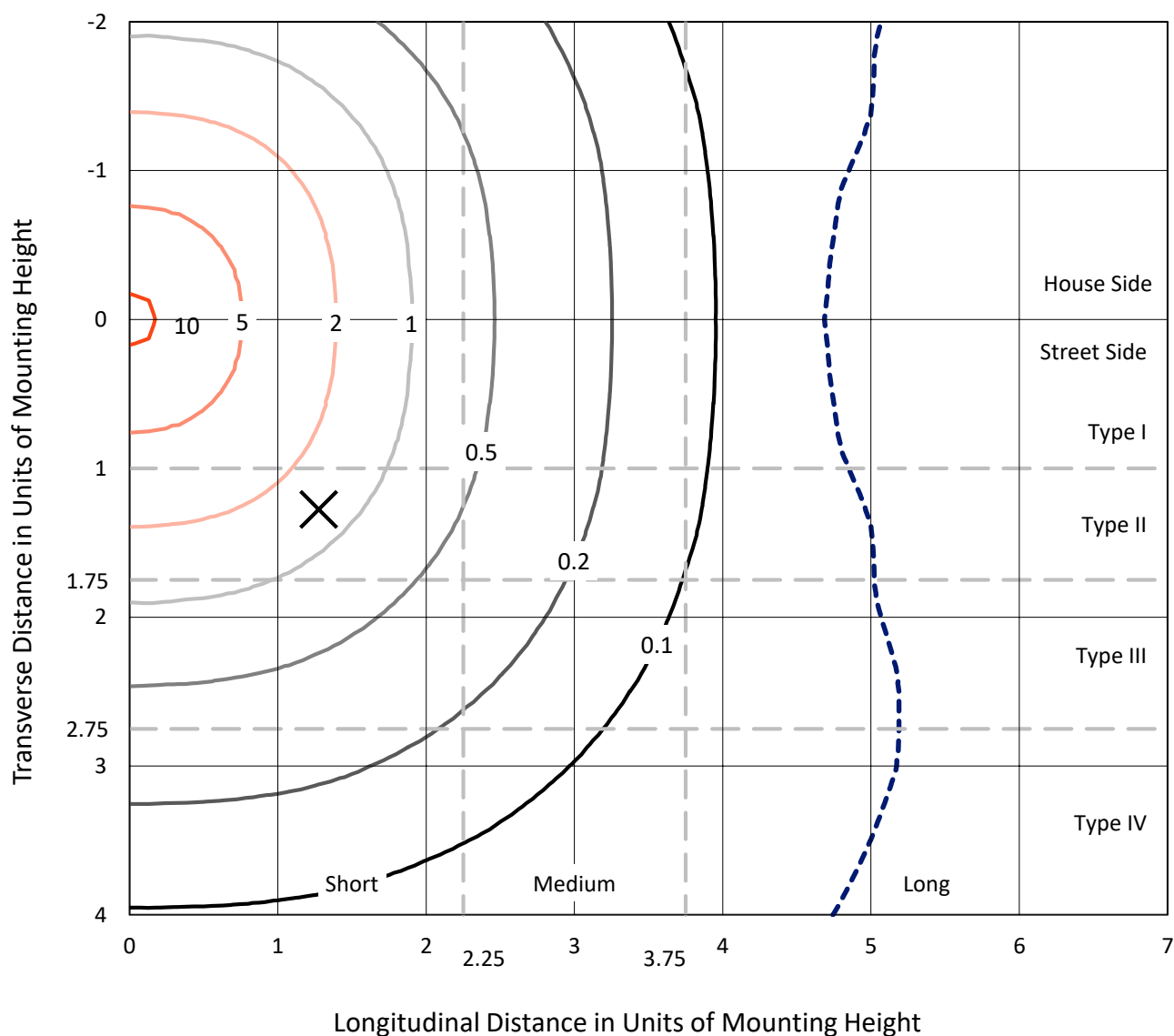


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

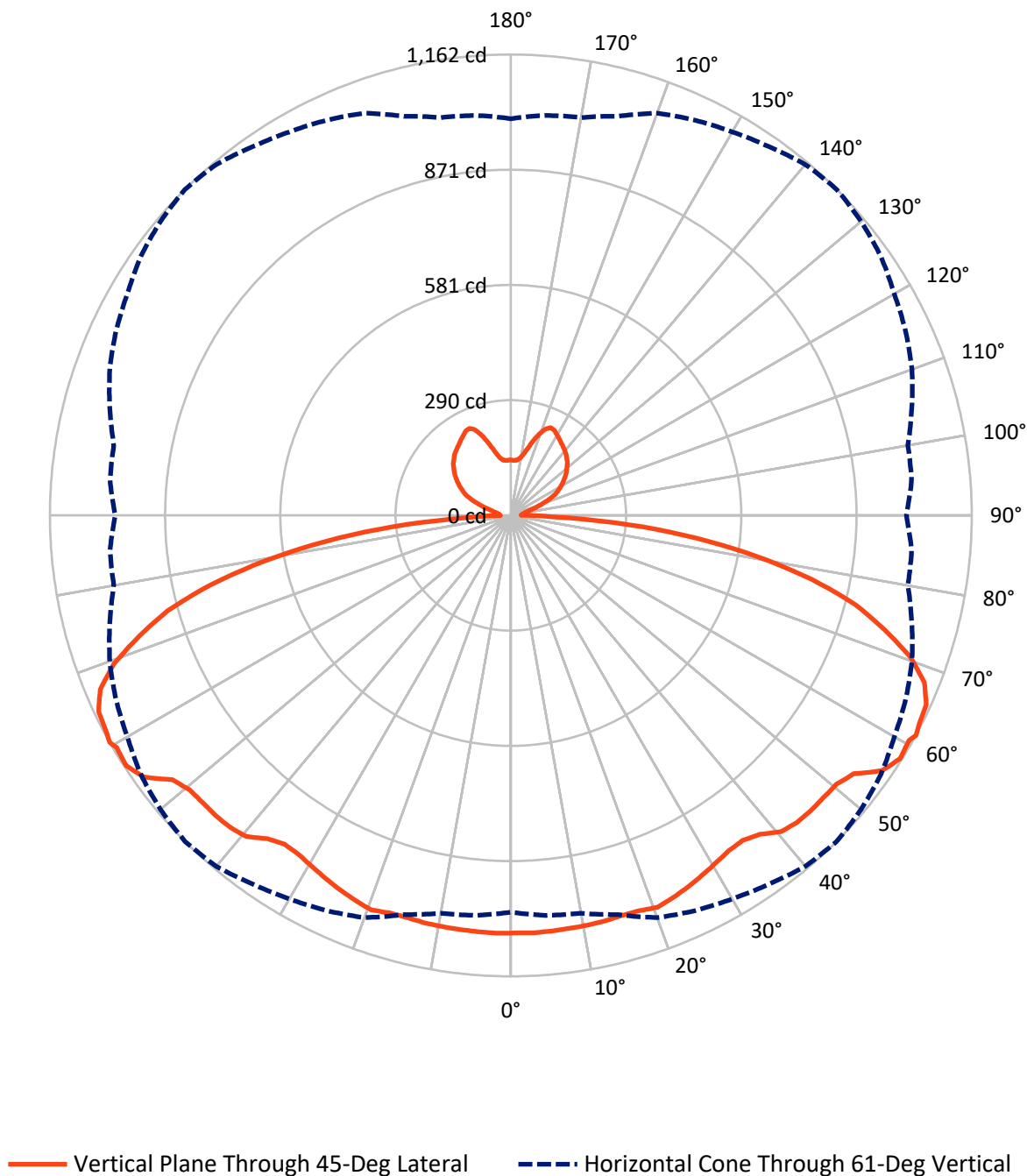


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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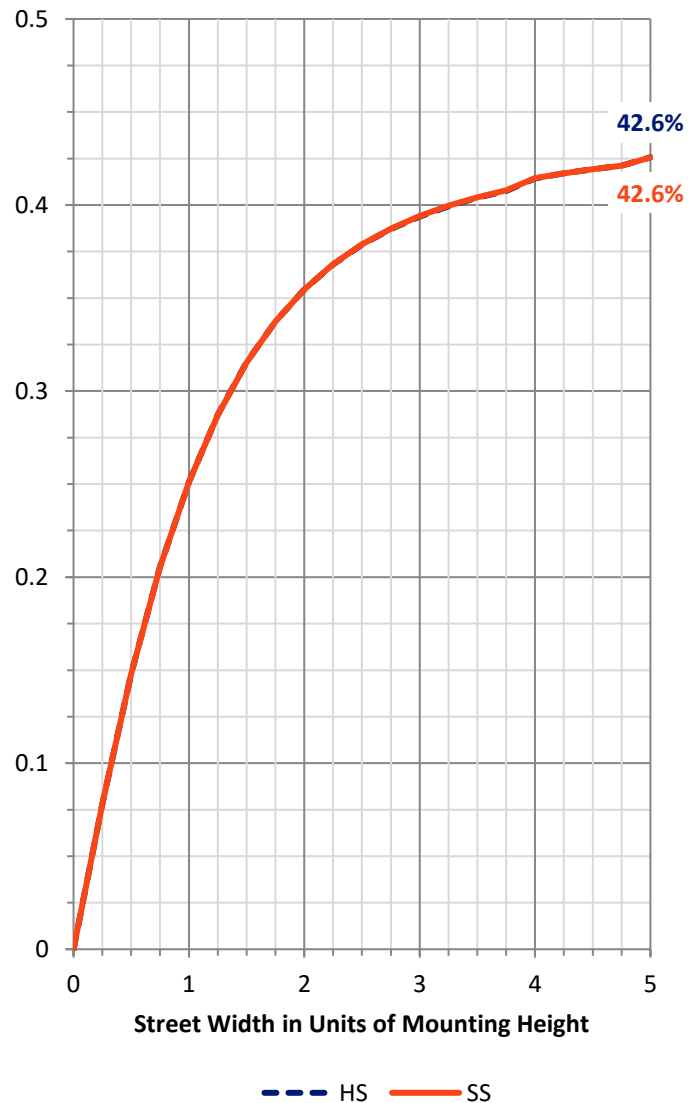
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.8	412.0	3129.8
	% Fixture	43.4	6.6	50.0
Street Side	Lumens	2717.8	412.0	3129.8
	% Fixture	43.4	6.6	50.0
Total	Lumens	5435.6	824.0	6259.6
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.6
10°-20°	296.8	4.7
20°-30°	477.5	7.6
30°-40°	632.6	10.1
40°-50°	798.9	12.8
50°-60°	957.2	15.3
60°-70°	1046.6	16.7
70°-80°	837.8	13.4
80°-90°	287.8	4.6
90°-100°	38.3	0.6
100°-110°	59.4	0.9
110°-120°	119.3	1.9
120°-130°	148.7	2.4
130°-140°	153.2	2.4
140°-150°	136.0	2.2
150°-160°	103.7	1.7
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5435.6	86.8
0°-180°	6259.6	100.0

Coefficient of Utilization



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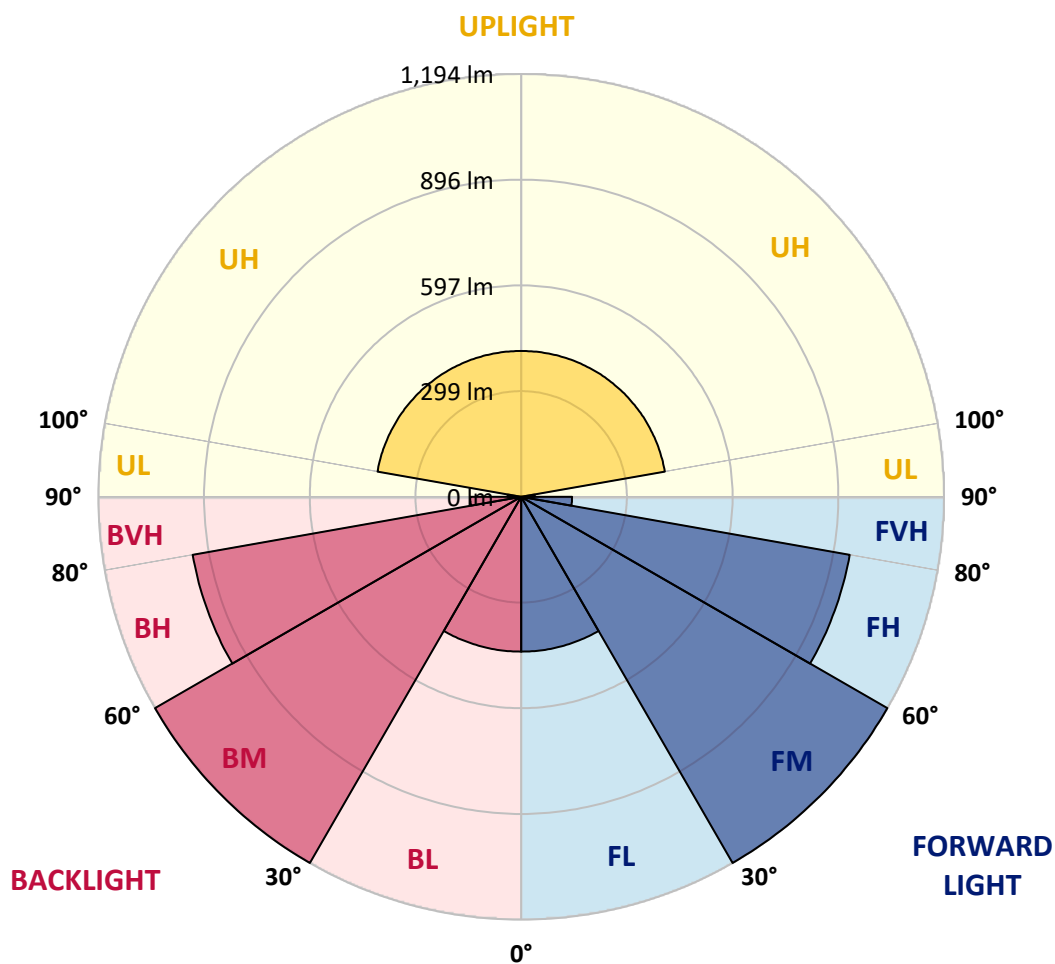
CATALOG NUMBER: TT-C3-LED-E1-MQ-CG-MS/DIM-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.3	7.0			
FM	(30°-60°)	1194.3	19.1			
FH	(60°-80°)	942.2	15.1			G1/1800
FVH	(80°-90°)	143.9	2.3			G2/225
BL	(0°-30°)	437.3	7.0	B1/500		
BM	(30°-60°)	1194.3	19.1	B2/2500		
BH	(60°-80°)	942.2	15.1	B2/1000		G1/1800
BVH	(80°-90°)	143.9	2.3			G2/225
UL	(90°-100°)	38.3	0.6		U2/50	
UH	(100°-180°)	412.0	6.6		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°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1053.3	1052.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3
5°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
7.5°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1052.3	1051.2	1052.3
10°	1049.2	1049.2	1049.2	1049.2	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3
12.5°	1047.2	1047.2	1047.2	1047.2	1048.2	1048.2	1048.2	1048.2	1049.2	1049.2	1048.2
15°	1045.1	1044.2	1044.2	1045.1	1045.1	1046.2	1046.2	1046.2	1047.2	1046.2	1046.2
17.5°	1043.2	1042.1	1043.2	1044.2	1044.2	1045.1	1046.2	1046.2	1047.2	1047.2	1047.2
20°	1046.2	1045.1	1046.2	1047.2	1048.2	1050.3	1051.2	1052.3	1053.3	1054.4	1054.4
22.5°	1040.1	1039.1	1040.1	1040.1	1041.2	1042.1	1044.2	1045.1	1046.2	1046.2	1046.2
25°	1031.0	1031.0	1032.1	1032.1	1033.0	1034.1	1035.1	1036.1	1036.1	1037.1	1036.1
27.5°	1020.9	1020.9	1021.9	1021.9	1023.9	1023.9	1025.0	1026.0	1027.0	1027.0	1027.0
30°	1008.8	1008.8	1009.8	1010.8	1012.8	1013.8	1014.8	1015.9	1016.8	1016.8	1016.8
32.5°	997.7	996.6	997.7	999.7	1002.7	1004.7	1006.8	1007.7	1007.7	1007.7	1008.8
35°	988.5	989.5	991.5	993.6	997.7	999.7	1001.7	1004.7	1005.7	1005.7	1005.7
37.5°	990.6	991.5	994.7	998.6	1003.8	1009.8	1013.8	1017.9	1020.9	1019.8	1018.9
40°	1003.8	1005.7	1010.8	1016.8	1025.0	1033.0	1039.1	1044.2	1047.2	1048.2	1047.2
42.5°	1005.7	1007.7	1011.8	1020.9	1030.0	1039.1	1047.2	1052.3	1056.3	1057.4	1056.3
45°	1004.7	1004.7	1010.8	1020.9	1030.0	1039.1	1049.2	1056.3	1060.4	1060.4	1060.4
47.5°	997.7	1000.7	1004.7	1014.8	1027.0	1036.1	1046.2	1053.3	1058.3	1061.4	1058.3
50°	997.7	997.7	1004.7	1011.8	1022.9	1039.1	1053.3	1060.4	1065.4	1064.4	1065.4
52.5°	995.6	1001.7	1005.7	1015.9	1036.1	1052.3	1063.5	1073.5	1080.6	1081.6	1079.5
55°	1013.8	1014.8	1023.9	1043.2	1062.4	1080.6	1100.9	1116.0	1128.2	1135.3	1125.1
57.5°	1028.0	1022.9	1041.2	1057.4	1079.5	1106.9	1137.3	1149.4	1158.5	1156.5	1159.5
60°	1008.8	1015.9	1029.1	1046.2	1081.6	1108.9	1125.1	1138.3	1149.4	1152.4	1148.4
61°	999.7	1011.8	1017.9	1041.2	1078.6	1098.8	1116.0	1134.2	1154.5	1161.5	1152.4
62.5°	984.5	1003.8	1001.7	1039.1	1062.4	1085.7	1118.0	1139.2	1153.5	1155.4	1153.5
65°	985.4	982.4	1005.7	1033.0	1056.3	1097.8	1125.1	1138.3	1146.3	1150.4	1148.4
67.5°	953.2	943.0	971.3	990.6	1030.0	1062.4	1088.8	1107.9	1120.1	1124.1	1119.1
70°	878.3	885.3	905.6	935.0	967.3	1006.8	1031.0	1056.3	1066.5	1067.4	1067.4
72.5°	806.4	810.4	830.7	858.0	895.4	929.8	954.1	974.4	983.5	984.5	986.5
75°	711.3	715.3	738.6	763.9	801.3	830.7	847.9	872.1	885.3	896.5	887.4
77.5°	601.0	608.0	626.3	653.6	688.0	704.2	734.5	762.9	772.0	775.0	772.0
80°	476.5	485.6	501.8	538.3	553.5	579.8	609.1	621.2	629.4	631.4	632.4
82.5°	343.0	350.1	367.3	392.6	409.8	431.0	451.2	466.5	475.6	473.5	472.6
85°	202.4	204.4	222.6	239.8	253.0	266.1	282.3	293.5	295.4	299.5	298.5
87.5°	60.7	61.7	69.8	78.9	85.0	91.1	101.2	114.4	117.4	109.2	110.3
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°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1052.3	1053.3
5°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
7.5°	1052.3	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
10°	1050.3	1050.3	1050.3	1050.3	1049.2	1049.2	1049.2	1049.2
12.5°	1048.2	1048.2	1048.2	1048.2	1047.2	1047.2	1047.2	1047.2
15°	1046.2	1046.2	1046.2	1046.2	1045.1	1045.1	1045.1	1045.1
17.5°	1047.2	1046.2	1045.1	1045.1	1044.2	1043.2	1043.2	1043.2
20°	1053.3	1052.3	1050.3	1048.2	1047.2	1046.2	1046.2	1046.2
22.5°	1045.1	1044.2	1042.1	1041.2	1041.2	1040.1	1039.1	1039.1
25°	1036.1	1034.1	1034.1	1033.0	1033.0	1031.0	1031.0	1030.0
27.5°	1026.0	1025.0	1023.9	1022.9	1022.9	1021.9	1020.9	1019.8
30°	1016.8	1014.8	1012.8	1011.8	1010.8	1009.8	1009.8	1009.8
32.5°	1007.7	1005.7	1004.7	1001.7	999.7	998.6	997.7	997.7
35°	1004.7	1001.7	999.7	996.6	993.6	991.5	990.6	988.5
37.5°	1016.8	1012.8	1009.8	1004.7	997.7	994.7	991.5	990.6
40°	1043.2	1039.1	1033.0	1025.0	1016.8	1010.8	1005.7	1003.8
42.5°	1052.3	1047.2	1039.1	1031.0	1020.9	1011.8	1007.7	1005.7
45°	1055.3	1050.3	1039.1	1029.1	1019.8	1011.8	1005.7	1003.8
47.5°	1052.3	1045.1	1035.1	1027.0	1013.8	1003.8	999.7	996.6
50°	1059.4	1053.3	1040.1	1021.9	1010.8	1004.7	997.7	996.6
52.5°	1073.5	1062.4	1050.3	1037.1	1015.9	1003.8	999.7	994.7
55°	1116.0	1100.9	1079.5	1058.3	1045.1	1026.0	1013.8	1013.8
57.5°	1148.4	1136.2	1108.9	1080.6	1056.3	1042.1	1023.9	1025.0
60°	1139.2	1123.1	1110.0	1081.6	1047.2	1028.0	1020.9	1007.7
61°	1138.3	1116.0	1097.8	1075.6	1046.2	1015.9	1013.8	996.6
62.5°	1140.3	1120.1	1085.7	1062.4	1040.1	1000.7	999.7	983.5
65°	1138.3	1119.1	1101.8	1058.3	1028.0	1011.8	977.4	990.6
67.5°	1106.9	1089.7	1058.3	1034.1	987.5	967.3	948.0	948.0
70°	1057.4	1032.1	1001.7	971.3	940.0	905.6	888.3	878.3
72.5°	974.4	953.2	928.8	896.5	858.0	826.6	810.4	803.3
75°	870.1	846.9	825.6	801.3	760.9	734.5	717.4	712.3
77.5°	760.9	740.6	703.2	680.0	652.6	622.3	607.1	601.0
80°	621.2	610.1	583.8	546.4	533.2	495.8	485.6	476.5
82.5°	466.5	454.2	430.0	403.8	387.6	366.2	348.0	346.0
85°	293.5	285.3	270.1	250.9	230.7	218.5	202.4	206.4
87.5°	109.2	104.2	95.1	83.0	73.8	65.8	57.7	60.7
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-MS/DIM-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)