

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: P198421

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198421
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-WQ-SG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G1

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

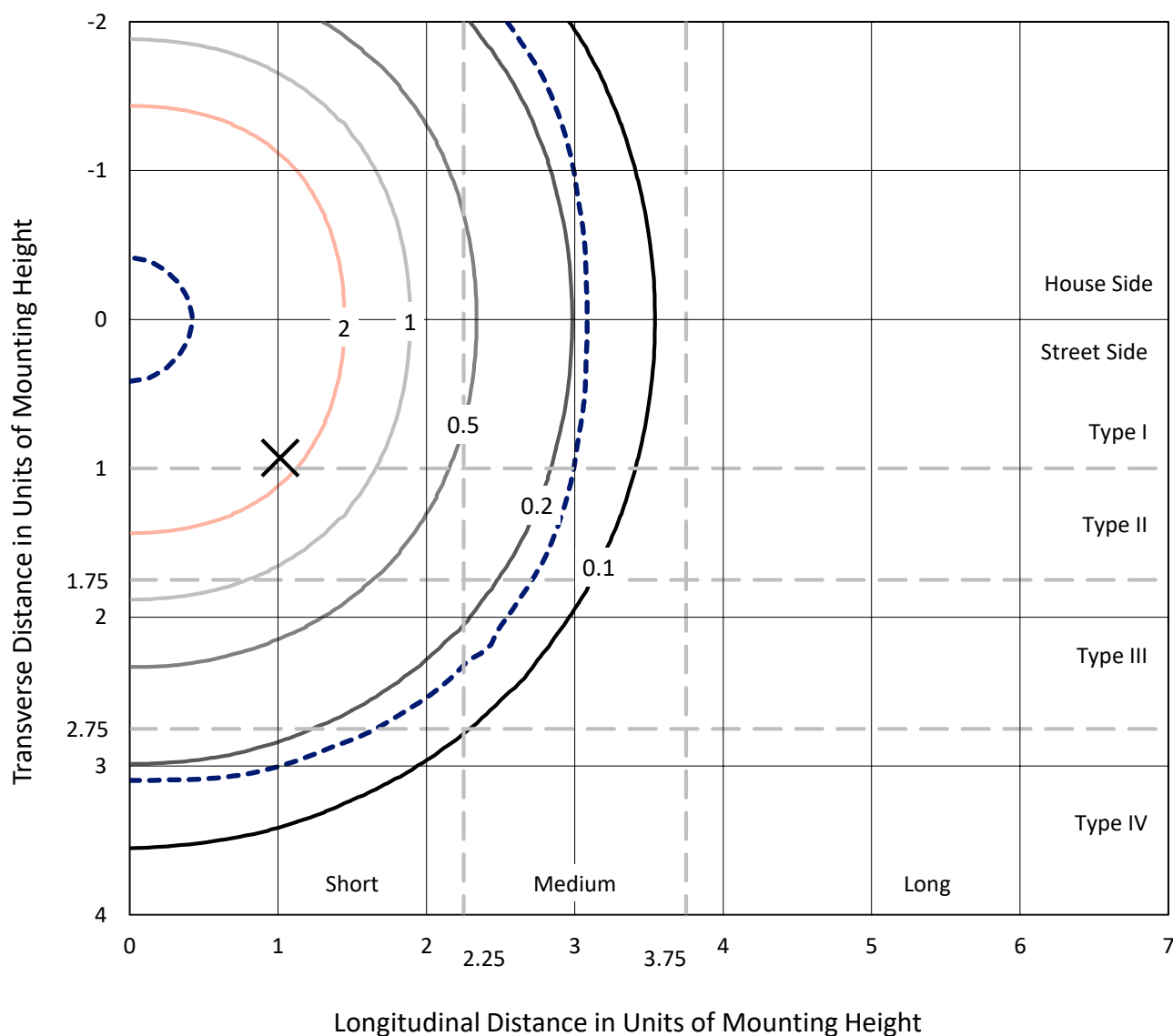


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

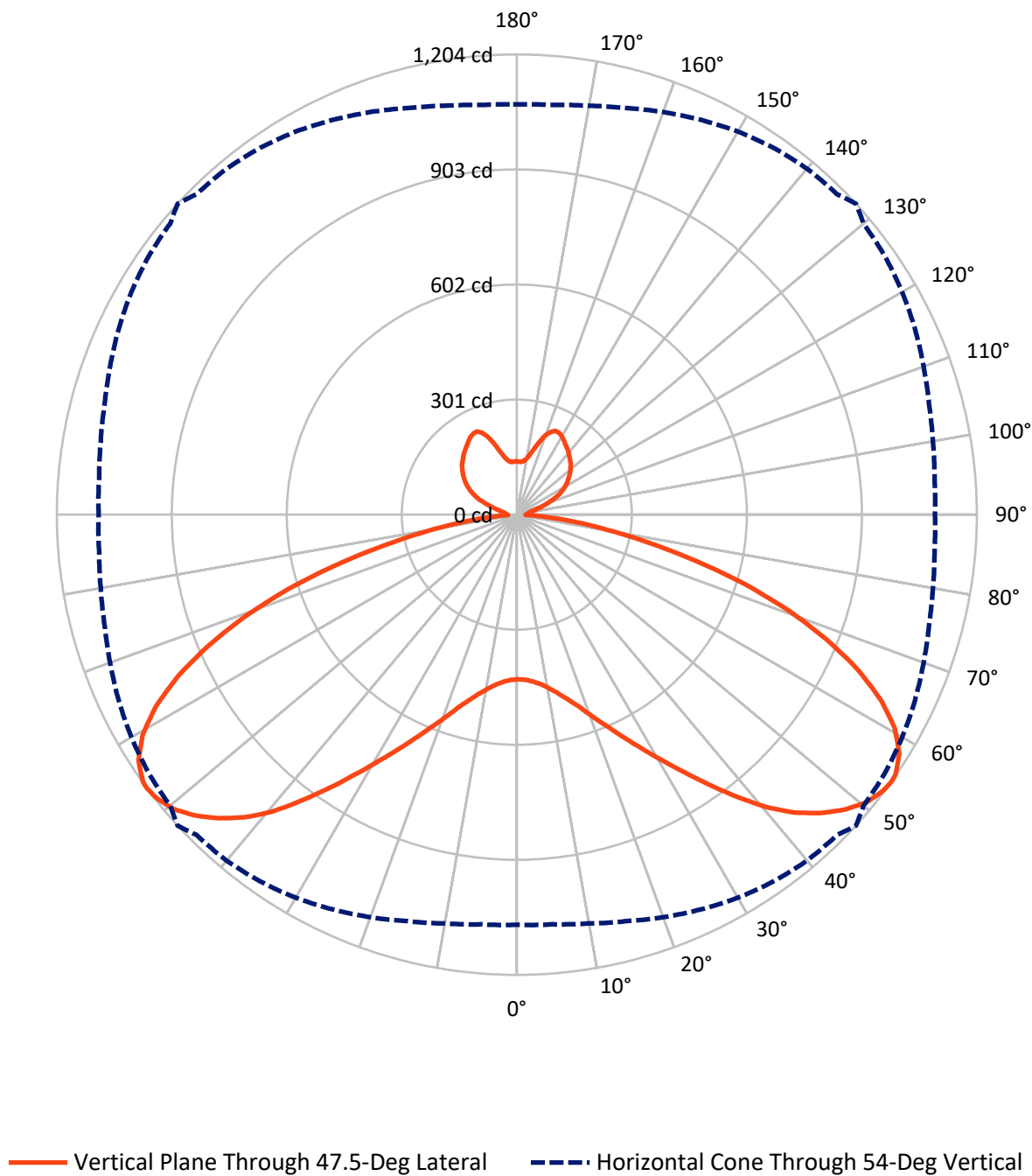


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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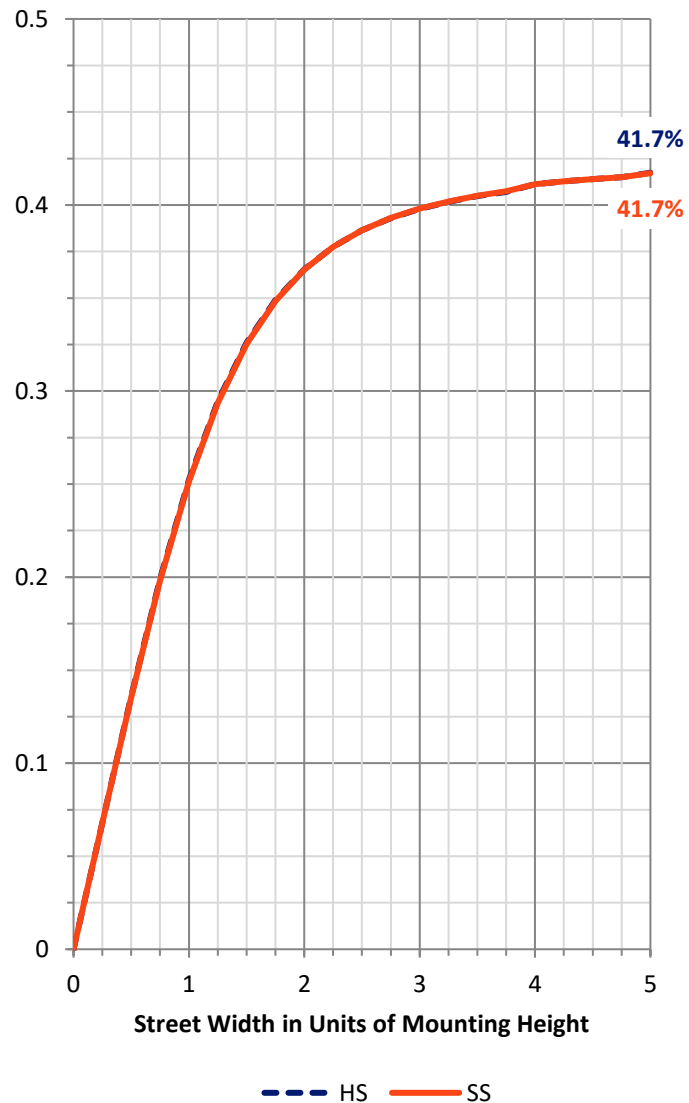
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.0	412.0	2582.0
	% Fixture	42.0	8.0	50.0
Street Side	Lumens	2170.0	412.0	2582.0
	% Fixture	42.0	8.0	50.0
Total	Lumens	4340.1	824.0	5164.0
	% Fixture	84.0	16.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	0.8
10°-20°	144.1	2.8
20°-30°	296.7	5.7
30°-40°	530.5	10.3
40°-50°	813.9	15.8
50°-60°	1003.5	19.4
60°-70°	907.9	17.6
70°-80°	499.9	9.7
80°-90°	101.1	2.0
90°-100°	38.3	0.7
100°-110°	59.4	1.2
110°-120°	119.3	2.3
120°-130°	148.7	2.9
130°-140°	153.2	3.0
140°-150°	136.0	2.6
150°-160°	103.7	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4340.1	84.0
0°-180°	5164.0	100.0

Coefficient of Utilization



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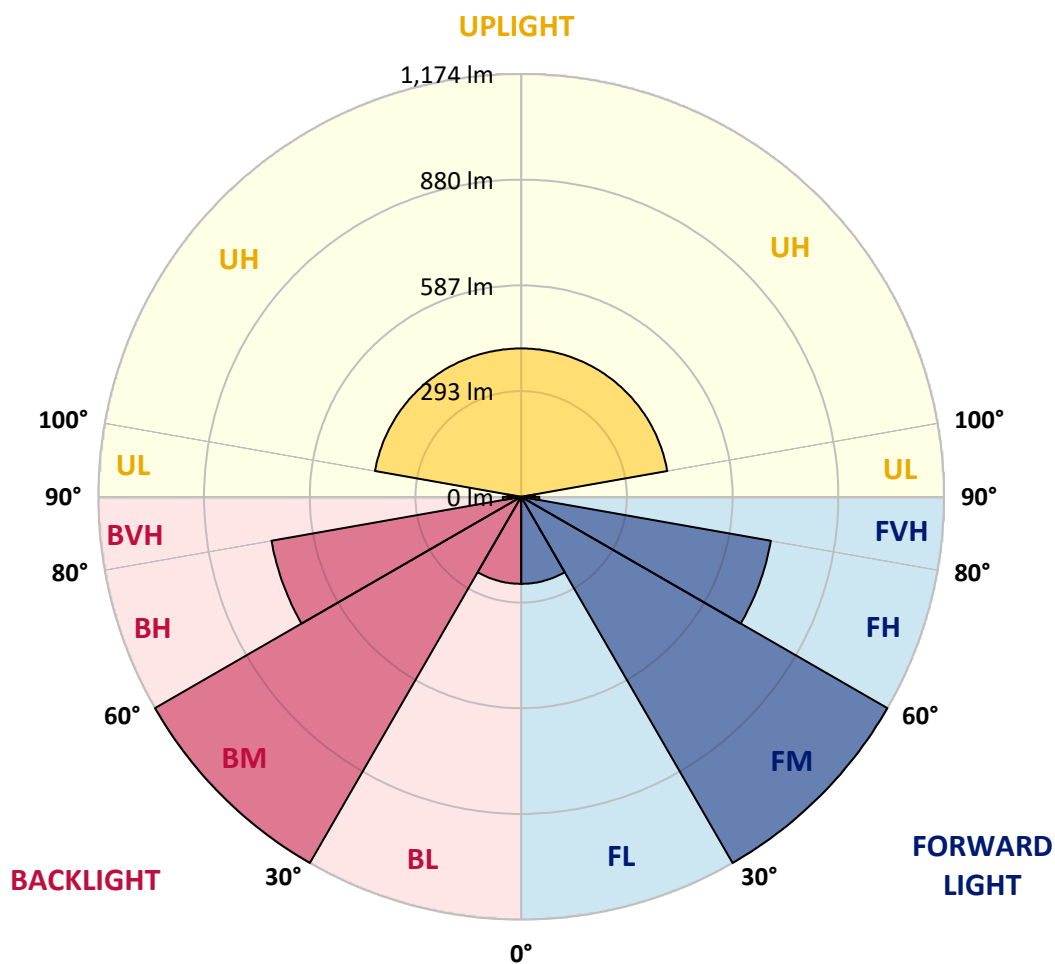
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.6	4.7			
FM	(30°-60°)	1174.0	22.7			
FH	(60°-80°)	703.9	13.6			G1/1800
FVH	(80°-90°)	50.5	1.0			G1/100
BL	(0°-30°)	241.6	4.7	B1/500		
BM	(30°-60°)	1174.0	22.7	B2/2500		
BH	(60°-80°)	703.9	13.6	B2/1000		G1/1800
BVH	(80°-90°)	50.5	1.0			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	8.0		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5
2.5°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4
5°	438.0	438.0	438.0	438.9	438.0	438.0	438.0	438.0	438.0	438.0	438.0
7.5°	447.4	447.4	447.4	447.4	447.4	447.4	446.4	446.4	447.4	446.4	447.4
10°	460.5	459.5	459.5	460.5	460.5	459.5	460.5	460.5	460.5	460.5	461.4
12.5°	477.3	477.3	478.2	478.2	478.2	479.2	479.2	478.2	479.2	479.2	479.2
15°	499.8	499.8	499.8	499.8	500.7	501.6	500.7	500.7	499.8	499.8	501.6
17.5°	526.0	526.0	526.0	526.0	527.8	527.8	526.9	527.8	528.8	528.8	527.8
20°	557.8	556.8	555.9	556.8	558.7	558.7	559.7	560.6	560.6	560.6	562.5
22.5°	591.5	590.5	592.4	593.3	594.3	595.2	595.2	596.2	598.0	597.1	599.9
25°	628.9	628.0	628.9	630.8	634.5	634.5	635.5	637.3	637.3	636.4	643.0
27.5°	671.0	671.0	672.0	675.7	676.6	677.6	680.4	682.3	685.1	685.1	690.7
30°	716.9	715.9	717.8	721.6	724.4	727.2	730.9	735.6	736.5	737.5	743.1
32.5°	763.7	763.7	765.6	772.1	776.8	781.5	787.1	791.8	793.6	793.6	802.1
35°	813.3	814.2	818.9	823.6	832.9	838.6	844.2	850.7	854.5	856.3	867.6
37.5°	865.7	868.5	872.2	878.8	888.2	897.5	905.9	916.2	921.8	923.7	935.9
40°	915.3	919.0	924.7	934.0	943.4	956.5	966.8	977.1	983.6	987.4	1006.1
42.5°	964.0	965.8	972.4	982.7	994.8	1007.0	1021.0	1032.3	1038.8	1044.4	1065.0
45°	1002.3	1004.2	1012.6	1024.8	1038.8	1053.8	1067.8	1080.9	1087.5	1092.2	1112.8
47.5°	1034.1	1037.9	1047.3	1059.4	1073.5	1091.2	1107.1	1120.3	1128.7	1131.5	1153.0
50°	1057.5	1063.2	1071.6	1085.6	1102.5	1120.3	1137.1	1151.1	1160.5	1164.2	1183.9
52.5°	1070.6	1075.3	1084.7	1098.7	1118.4	1136.2	1153.9	1168.0	1178.3	1182.0	1199.8
54°	1072.5	1075.3	1085.6	1100.6	1120.3	1139.0	1156.7	1170.8	1181.1	1184.8	1203.5
55°	1070.6	1072.5	1083.8	1097.8	1118.4	1137.1	1154.9	1168.9	1180.1	1183.9	1201.7
57.5°	1051.9	1054.7	1064.1	1079.1	1097.8	1119.3	1136.2	1150.2	1161.4	1163.3	1180.1
60°	1013.6	1017.3	1025.7	1041.6	1060.4	1079.1	1095.9	1108.1	1118.4	1124.0	1136.2
62.5°	958.3	960.2	968.6	982.7	999.5	1019.2	1032.3	1044.4	1053.8	1059.4	1069.7
65°	879.7	888.2	894.7	905.9	919.0	934.9	951.8	961.2	965.8	975.2	982.7
67.5°	791.8	797.4	803.9	814.2	822.6	832.9	848.8	857.3	862.9	869.4	876.0
70°	693.5	691.6	699.1	704.7	714.1	720.6	730.9	735.6	742.2	745.9	757.1
72.5°	576.5	579.3	585.9	592.4	595.2	597.1	605.5	608.3	613.9	612.1	626.1
75°	470.7	466.1	467.9	468.9	470.7	468.9	474.5	477.3	480.1	477.3	484.8
77.5°	355.6	350.0	351.9	351.0	351.0	349.1	348.1	348.1	349.1	347.2	351.9
80°	245.2	242.4	243.3	245.2	240.5	241.5	235.8	235.8	235.8	235.8	237.7
82.5°	151.6	147.9	146.9	147.9	147.9	145.1	146.0	142.3	141.3	140.4	148.8
85°	73.9	72.1	73.9	72.1	71.1	71.1	69.3	70.2	68.3	67.4	73.0
87.5°	19.7	18.7	18.7	18.7	17.8	18.7	18.7	18.7	18.7	19.7	22.5
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	32.5
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.5
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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CATALOG NUMBER: TT-C3-LED-E1-WQ-SG-LWR-LW-8030-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.5
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	105.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	122.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.5
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	147.5
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	167.5
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	176.5
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	184.5
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	193.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	199.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	205.5
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.5
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	224.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	231.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	237.0
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	241.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	232.5
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	217.5
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	197.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	176.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.5
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	140.5
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.5
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5	430.5
2.5°	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	431.4
5°	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0
7.5°	447.4	447.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
10°	460.5	461.4	459.5	459.5	460.5	459.5	459.5	458.6	458.6
12.5°	479.2	478.2	479.2	479.2	478.2	477.3	476.4	475.4	476.4
15°	500.7	499.8	499.8	499.8	498.8	498.8	497.9	498.8	497.9
17.5°	526.9	526.9	527.8	525.0	526.0	524.1	524.1	524.1	523.2
20°	560.6	559.7	558.7	555.9	556.8	555.0	554.0	553.1	552.2
22.5°	597.1	595.2	594.3	591.5	592.4	590.5	587.7	585.9	585.9
25°	637.3	635.5	633.6	632.7	631.7	628.0	626.1	623.3	625.2
27.5°	685.1	681.3	678.5	674.8	675.7	671.0	669.2	667.3	667.3
30°	736.5	733.7	729.1	726.2	725.3	720.6	716.9	715.0	714.1
32.5°	792.7	790.8	788.0	783.3	781.5	774.0	771.2	768.4	767.4
35°	859.1	854.5	851.7	845.1	838.6	833.9	827.3	825.4	823.6
37.5°	920.9	920.9	916.2	908.7	899.4	892.8	887.2	883.5	880.7
40°	986.4	984.5	977.1	970.5	961.2	951.8	941.5	937.8	935.9
42.5°	1044.4	1040.7	1033.2	1024.8	1015.4	1004.2	993.0	987.4	986.4
45°	1093.1	1088.4	1080.9	1069.7	1057.5	1046.3	1036.0	1030.4	1027.6
47.5°	1132.4	1126.8	1117.4	1107.1	1093.1	1080.0	1069.7	1064.1	1060.4
50°	1161.4	1156.7	1146.5	1133.4	1119.3	1104.3	1094.0	1087.5	1084.7
52.5°	1180.1	1173.6	1162.4	1148.3	1132.4	1117.4	1105.3	1097.8	1095.0
54°	1183.9	1176.4	1164.2	1149.3	1132.4	1116.5	1105.3	1096.9	1094.0
55°	1182.0	1174.5	1161.4	1147.4	1129.6	1113.7	1101.5	1093.1	1090.3
57.5°	1162.4	1153.9	1141.8	1126.8	1108.1	1092.2	1080.9	1071.6	1068.8
60°	1120.3	1112.8	1098.7	1085.6	1066.9	1051.0	1038.8	1029.5	1026.7
62.5°	1055.7	1049.1	1037.0	1023.9	1004.2	990.2	978.0	972.4	964.9
65°	969.6	964.9	952.7	936.8	922.8	908.7	896.6	892.8	888.2
67.5°	866.6	860.1	855.4	839.5	828.3	815.2	803.0	795.5	793.6
70°	745.0	742.2	737.5	722.5	715.9	704.7	696.3	689.7	687.9
72.5°	613.9	611.1	610.2	602.7	594.3	584.0	580.2	574.6	573.7
75°	477.3	475.4	477.3	471.7	468.9	466.1	464.2	464.2	461.4
77.5°	345.3	348.1	349.1	349.1	351.0	351.0	352.8	350.0	347.2
80°	234.9	237.7	236.8	238.6	237.7	244.3	239.6	243.3	239.6
82.5°	141.3	145.1	145.1	145.1	148.8	147.9	147.9	149.7	148.8
85°	69.3	70.2	69.3	68.3	73.0	72.1	72.1	71.1	72.1
87.5°	20.6	18.7	19.7	17.8	19.7	16.8	18.7	18.7	19.7
90°	26.0	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	27.0	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	32.0	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	35.0	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	42.0	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	52.0	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
110°	86.0	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0
112.5°	103.0	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	120.0	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	135.0	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	148.0	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	158.0	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	175.0	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	191.0	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	197.0	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	218.0	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	225.0	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	233.0	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	239.0	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	241.0	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	239.0	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	230.0	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	216.0	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	175.0	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	158.0	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	147.0	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	140.0	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	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	140.0

(END OF REPORT)