

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: P198416

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198416
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-WQ-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.4 lumens
Efficiency: N/A
Efficacy: 85.7 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



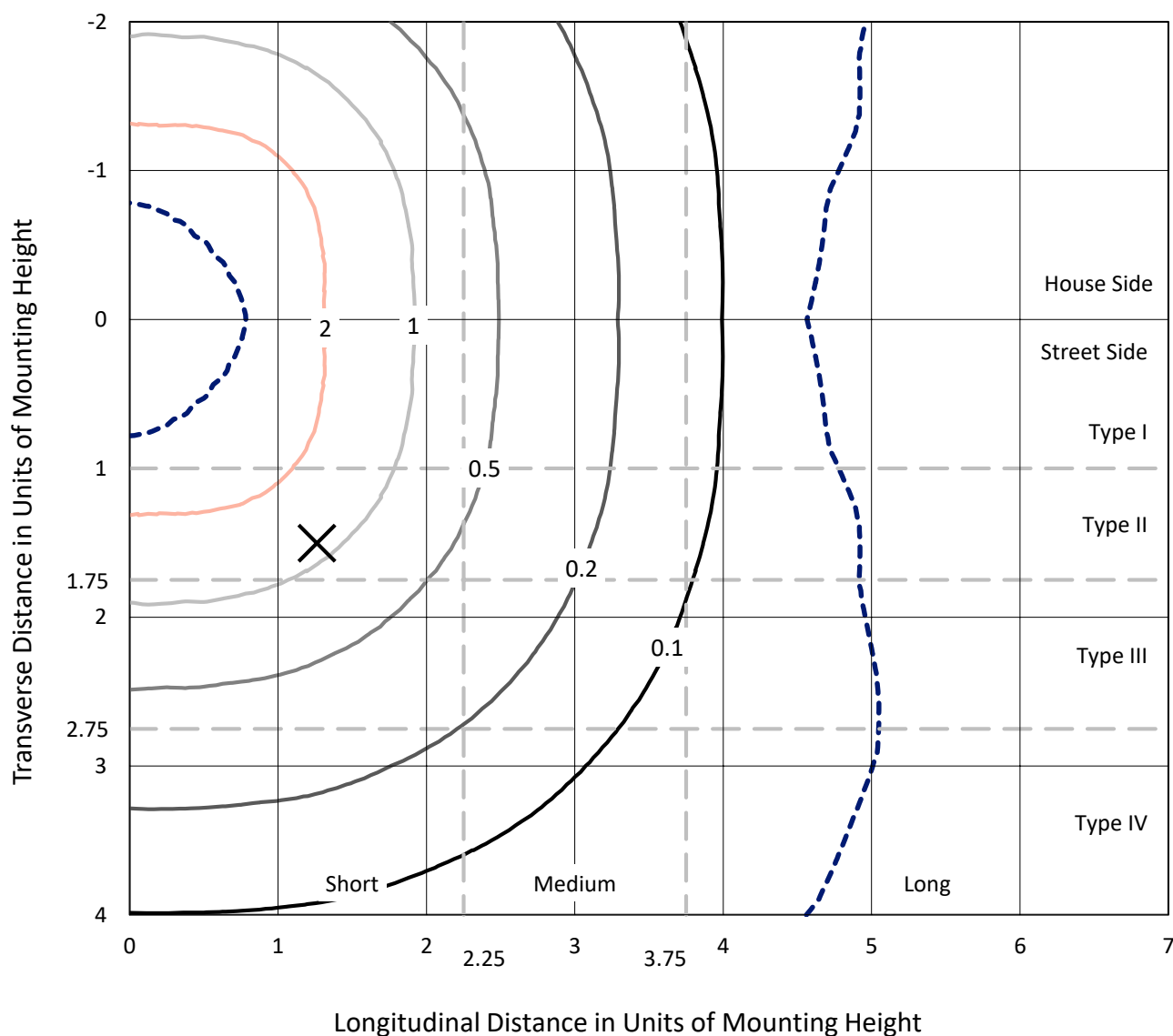
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

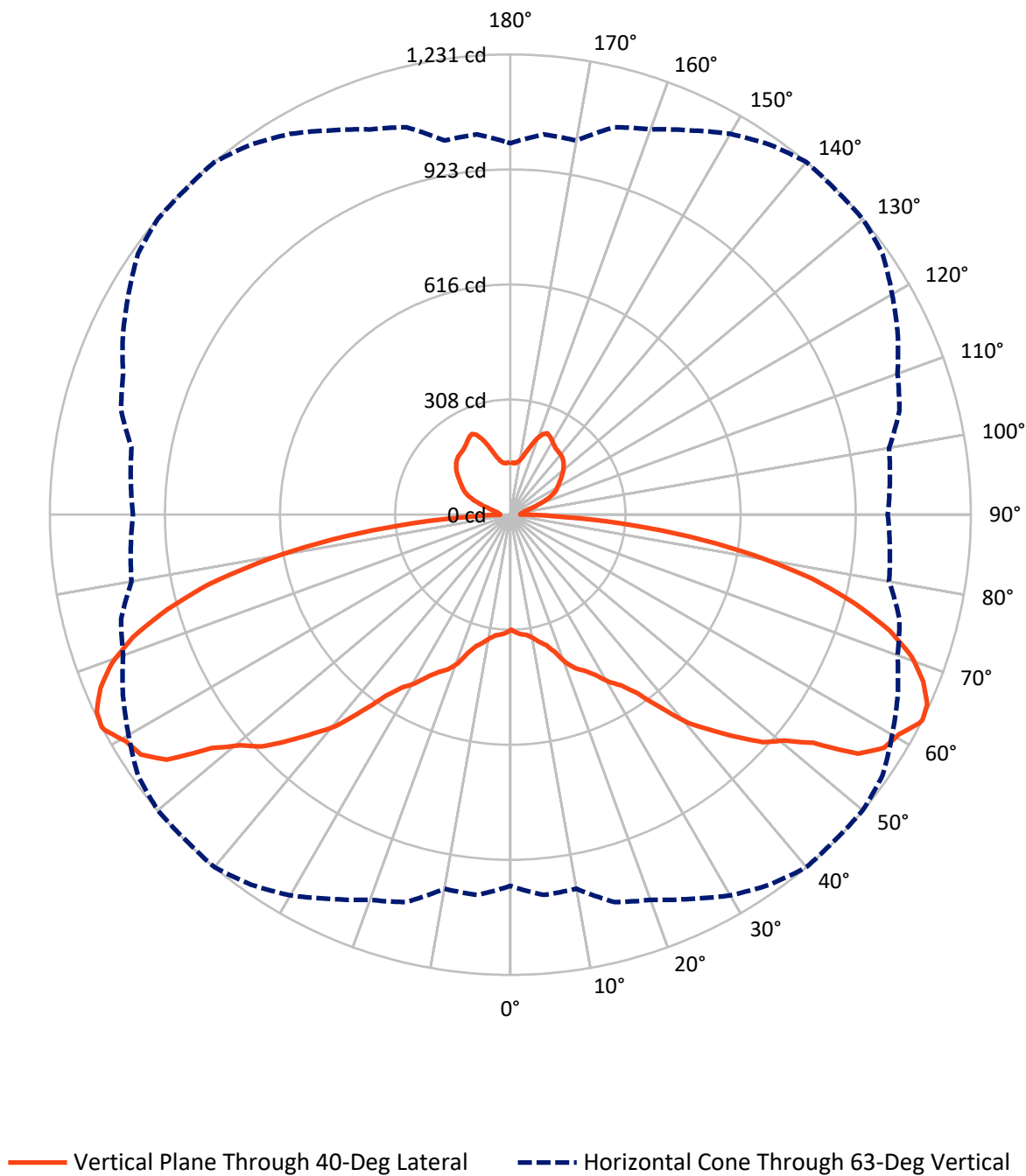


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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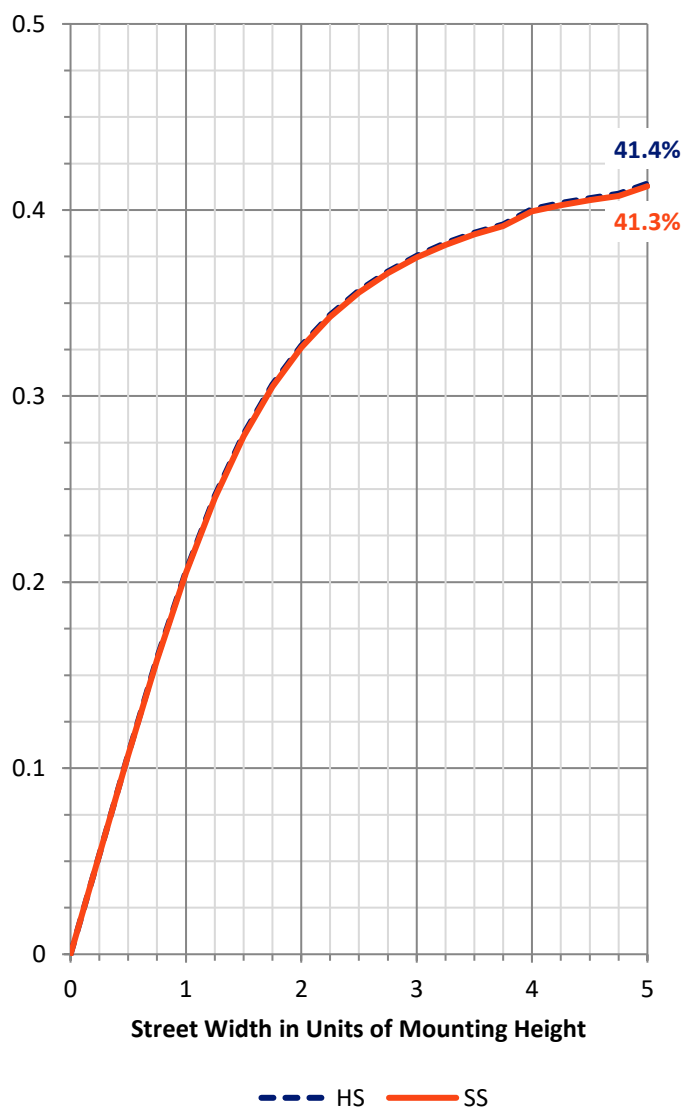
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.2	412.0	2674.2
	% Fixture	42.3	7.7	50.0
Street Side	Lumens	2262.2	412.0	2674.2
	% Fixture	42.3	7.7	50.0
Total	Lumens	4524.5	824.0	5348.4
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	0.6
10°-20°	105.6	2.0
20°-30°	214.7	4.0
30°-40°	370.0	6.9
40°-50°	623.3	11.7
50°-60°	917.8	17.2
60°-70°	1091.4	20.4
70°-80°	883.5	16.5
80°-90°	287.1	5.4
90°-100°	38.3	0.7
100°-110°	59.4	1.1
110°-120°	119.3	2.2
120°-130°	148.7	2.8
130°-140°	153.2	2.9
140°-150°	136.0	2.5
150°-160°	103.7	1.9
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4524.5	84.6
0°-180°	5348.4	100.0

Coefficient of Utilization



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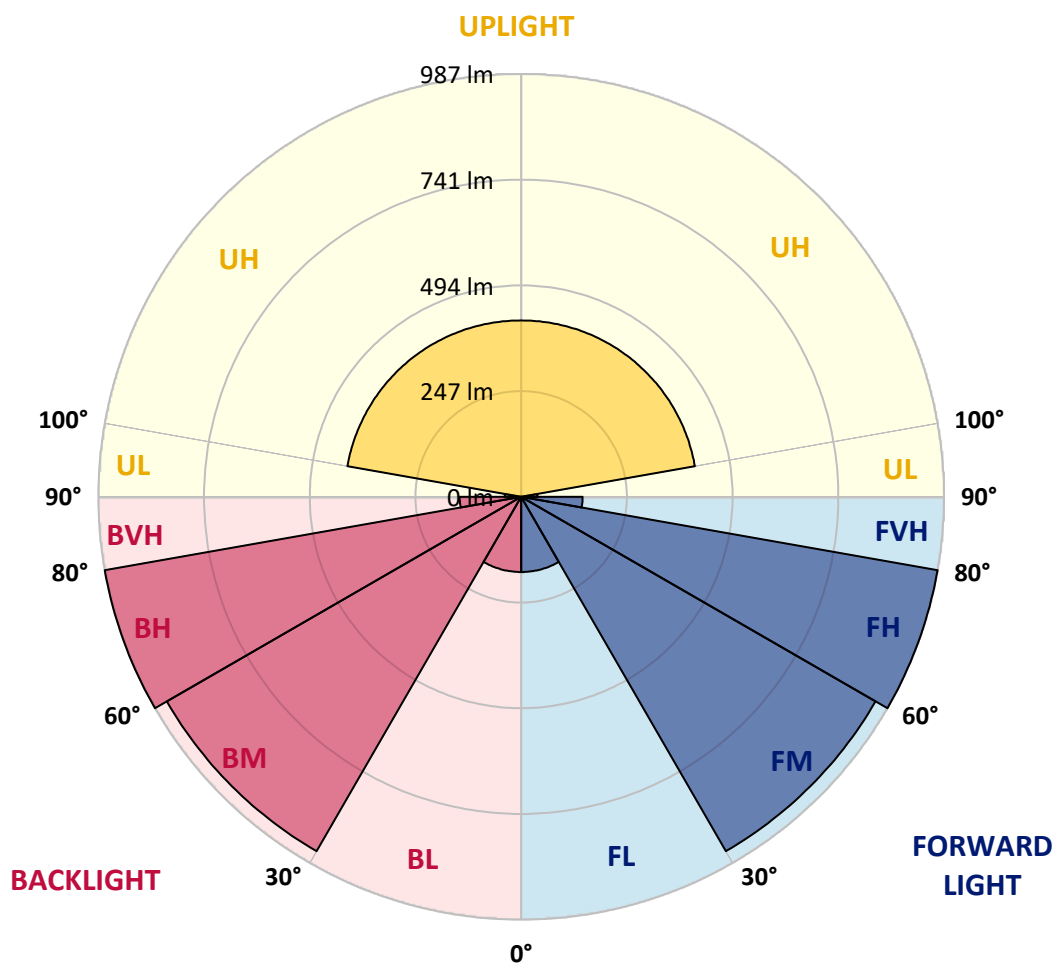
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.7	3.3			
FM	(30°-60°)	955.6	17.9			
FH	(60°-80°)	987.5	18.5			G1/1800
FVH	(80°-90°)	143.5	2.7			G2/225
BL	(0°-30°)	175.7	3.3	B1/500		
BM	(30°-60°)	955.6	17.9	B1/1000		
BH	(60°-80°)	987.5	18.5	B2/1000		G1/1800
BVH	(80°-90°)	143.5	2.7			G2/225
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.7		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°	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7
2.5°	317.4	317.4	317.4	317.4	317.4	317.4	316.4	317.4	316.4	316.4	316.4
5°	323.5	323.5	323.5	323.5	322.6	322.6	321.7	321.7	321.7	320.9	321.7
7.5°	326.1	326.1	326.1	326.1	325.3	325.3	325.3	325.3	325.3	325.3	325.3
10°	332.2	332.2	333.1	334.0	335.7	335.7	335.7	336.6	335.7	335.7	335.7
12.5°	345.4	344.5	346.2	347.9	349.8	350.6	350.6	350.6	349.8	349.8	350.6
15°	363.7	361.9	362.9	363.7	364.6	365.5	365.5	364.6	362.9	362.9	362.9
17.5°	387.3	384.7	383.8	383.0	383.0	384.7	386.4	385.6	386.4	385.6	386.4
20°	415.3	413.5	413.5	413.5	414.4	417.9	421.5	423.2	422.3	420.5	423.2
22.5°	433.6	434.6	438.9	438.0	437.1	440.7	445.0	448.5	446.7	444.1	445.9
25°	453.8	453.8	459.8	462.5	459.8	459.8	461.7	464.2	462.5	460.8	462.5
27.5°	476.5	476.5	479.1	481.8	480.0	480.0	482.6	487.0	486.1	485.2	486.1
30°	503.6	500.1	497.5	501.9	506.3	507.1	509.7	516.7	518.4	517.6	519.4
32.5°	528.9	523.7	525.5	528.1	537.7	541.2	540.3	545.6	544.6	542.1	545.6
35°	553.4	559.6	563.0	568.3	571.8	576.1	576.1	585.8	587.5	584.9	587.5
37.5°	600.6	603.2	612.9	613.8	618.2	634.7	636.5	649.6	656.6	653.1	654.0
40°	665.3	664.5	671.5	681.9	690.7	711.7	717.8	726.5	732.6	730.1	733.5
42.5°	717.8	710.8	716.1	738.8	748.4	764.1	772.0	776.4	787.8	784.2	788.6
45°	755.4	758.0	765.0	787.8	793.9	807.0	825.3	833.2	848.1	843.7	846.3
47.5°	792.1	804.3	810.5	821.0	840.2	857.6	880.4	888.3	909.2	907.5	904.9
50°	840.2	849.8	856.8	864.6	891.0	919.8	939.0	942.5	949.4	944.3	953.0
52.5°	891.8	891.0	897.0	918.9	955.6	967.0	983.6	999.3	1014.1	1019.4	1014.1
55°	960.0	938.1	963.5	994.9	1010.7	1037.8	1078.0	1099.9	1128.7	1133.1	1124.3
57.5°	987.9	987.9	1014.1	1032.5	1061.4	1109.5	1152.4	1162.8	1177.6	1169.8	1178.6
60°	984.5	1017.7	1017.7	1050.0	1097.2	1140.1	1155.8	1173.3	1193.4	1192.6	1192.6
62.5°	988.9	1021.1	1012.4	1068.4	1097.2	1132.2	1167.2	1199.6	1227.5	1226.6	1225.8
63°	993.2	1021.1	1016.0	1072.7	1096.4	1134.0	1175.9	1208.3	1231.0	1229.2	1230.1
65°	1006.3	998.4	1029.9	1065.7	1092.8	1148.8	1183.8	1209.1	1224.9	1224.1	1224.1
67.5°	981.8	963.5	1008.0	1022.1	1073.7	1123.5	1150.5	1179.5	1190.7	1190.7	1189.0
70°	906.7	914.5	945.1	967.8	1020.3	1064.9	1087.7	1124.3	1138.3	1138.3	1137.4
72.5°	830.6	843.7	864.6	897.0	946.9	981.8	1009.0	1042.2	1060.5	1059.6	1059.6
75°	733.5	745.7	770.3	800.9	844.5	878.7	900.5	932.0	953.0	960.8	952.1
77.5°	624.3	627.7	650.5	681.9	720.4	744.0	777.2	807.9	825.3	824.4	821.8
80°	491.3	495.7	515.0	550.8	571.8	599.8	630.4	647.0	661.8	661.8	660.1
82.5°	339.2	348.8	368.0	391.7	413.5	438.0	454.7	471.2	483.5	482.6	480.0
85°	191.4	195.8	214.2	229.1	245.7	261.4	272.8	283.2	293.8	293.8	292.0
87.5°	57.7	51.6	62.1	68.2	77.0	84.8	90.1	100.5	107.5	99.6	99.6
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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CATALOG NUMBER: TT-C3-LED-E1-WQ-LWR-LW-8030-UPL

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°	307.7	307.7	307.7	307.7	307.7	307.7	307.7	307.7
2.5°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
5°	321.7	322.6	322.6	323.5	323.5	323.5	323.5	323.5
7.5°	325.3	325.3	325.3	325.3	326.1	326.1	326.1	326.1
10°	335.7	336.6	335.7	335.7	334.0	333.1	333.1	333.1
12.5°	350.6	351.5	351.5	349.8	347.9	346.2	345.4	344.5
15°	364.6	367.2	365.5	364.6	362.9	363.7	363.7	364.6
17.5°	386.4	387.3	384.7	383.0	382.1	383.8	385.6	386.4
20°	424.0	422.3	417.0	415.3	413.5	413.5	415.3	415.3
22.5°	447.7	443.3	439.7	438.0	438.0	438.0	435.4	431.9
25°	464.2	461.7	459.0	460.8	462.5	459.8	453.8	452.8
27.5°	487.0	481.8	480.9	480.0	480.9	479.1	478.2	474.8
30°	516.7	509.7	508.0	506.3	501.0	499.2	501.0	503.6
32.5°	544.6	540.3	542.1	538.6	528.9	525.5	527.2	526.4
35°	584.9	577.0	577.0	570.0	567.4	566.6	559.6	553.4
37.5°	648.7	638.3	635.6	619.9	612.9	614.6	605.0	598.1
40°	726.5	718.7	711.7	694.2	684.6	672.3	666.2	666.2
42.5°	778.1	772.8	763.3	751.0	740.5	719.5	711.7	716.1
45°	835.0	828.0	807.9	795.6	786.0	771.1	762.4	753.6
47.5°	892.7	883.0	859.5	843.7	821.0	816.6	807.0	794.8
50°	943.4	939.9	923.2	897.0	868.2	861.2	852.5	841.1
52.5°	1005.4	984.5	970.5	959.1	926.8	904.1	891.8	897.0
55°	1106.9	1080.7	1044.8	1009.0	1002.0	974.8	944.3	960.8
57.5°	1165.5	1150.5	1123.5	1066.6	1038.6	1020.3	1000.2	985.3
60°	1179.5	1152.4	1146.2	1103.4	1058.8	1020.3	1028.2	993.2
62.5°	1206.5	1169.8	1135.7	1101.6	1074.5	1022.1	1020.3	1002.0
63°	1215.3	1178.6	1142.7	1101.6	1077.1	1028.2	1018.5	1009.0
65°	1213.5	1182.0	1154.9	1101.6	1064.9	1045.6	998.4	1020.3
67.5°	1180.3	1154.1	1122.6	1085.8	1024.7	1009.8	976.6	980.9
70°	1127.0	1092.8	1063.2	1029.1	980.1	946.0	925.9	909.2
72.5°	1043.9	1013.3	981.8	950.4	906.7	865.6	851.5	833.2
75°	933.7	904.1	875.2	845.5	804.3	767.7	752.7	739.6
77.5°	807.9	782.5	741.4	713.4	689.8	650.5	636.5	622.5
80°	644.4	632.1	602.4	565.7	553.4	515.0	504.4	486.1
82.5°	468.6	456.4	432.7	407.4	392.5	372.4	354.9	342.8
85°	285.9	272.8	260.5	237.8	229.1	214.2	200.2	193.3
87.5°	103.2	92.7	83.1	72.6	67.3	56.9	55.0	49.9
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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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)