

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: P198232

Luminaire Tested: **TT-C1-LED-E1-CQ-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198232
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C1-LED-E1-CQ-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4159 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U4 - G1

Input Watts (W): 45.4
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

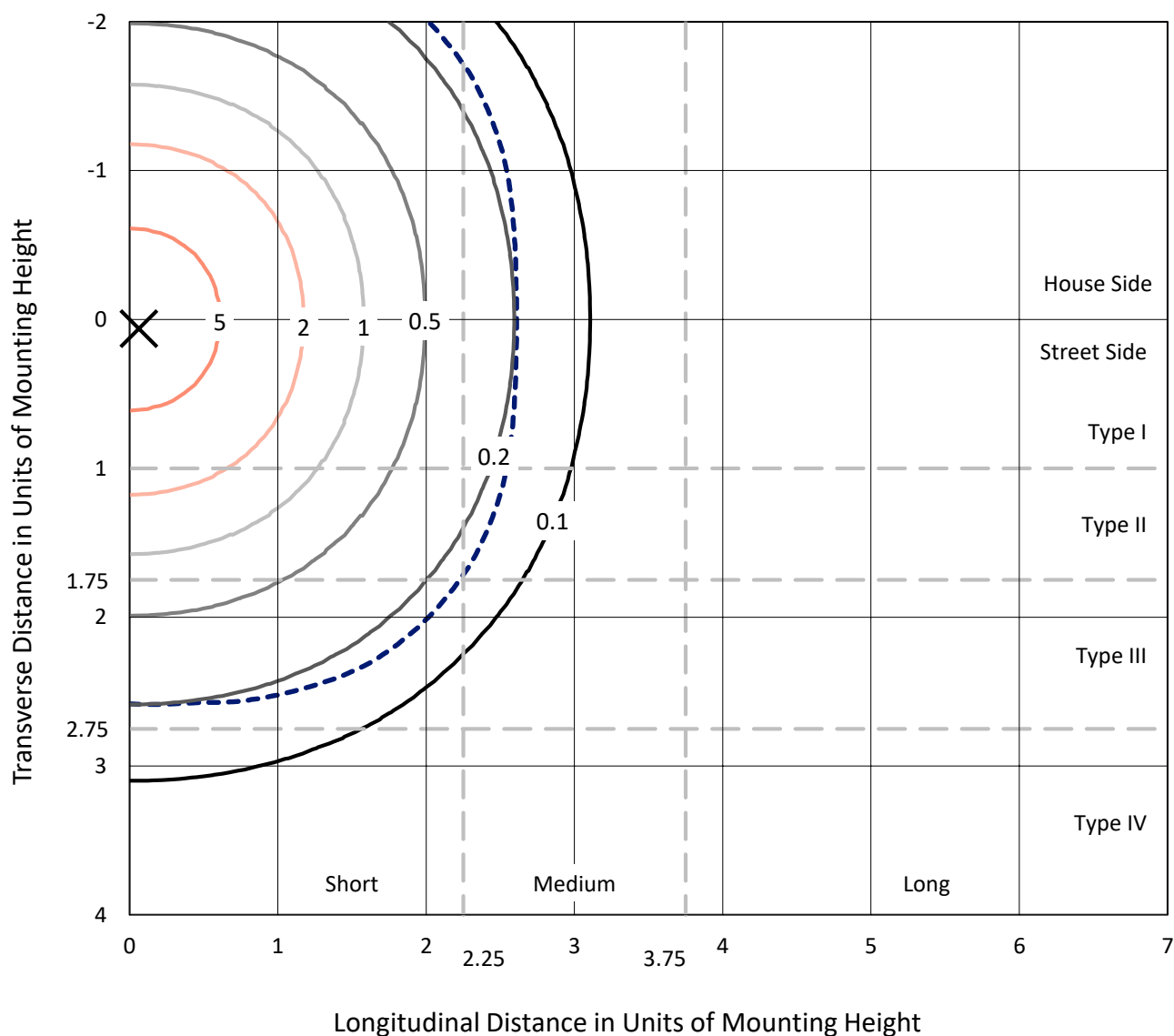


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

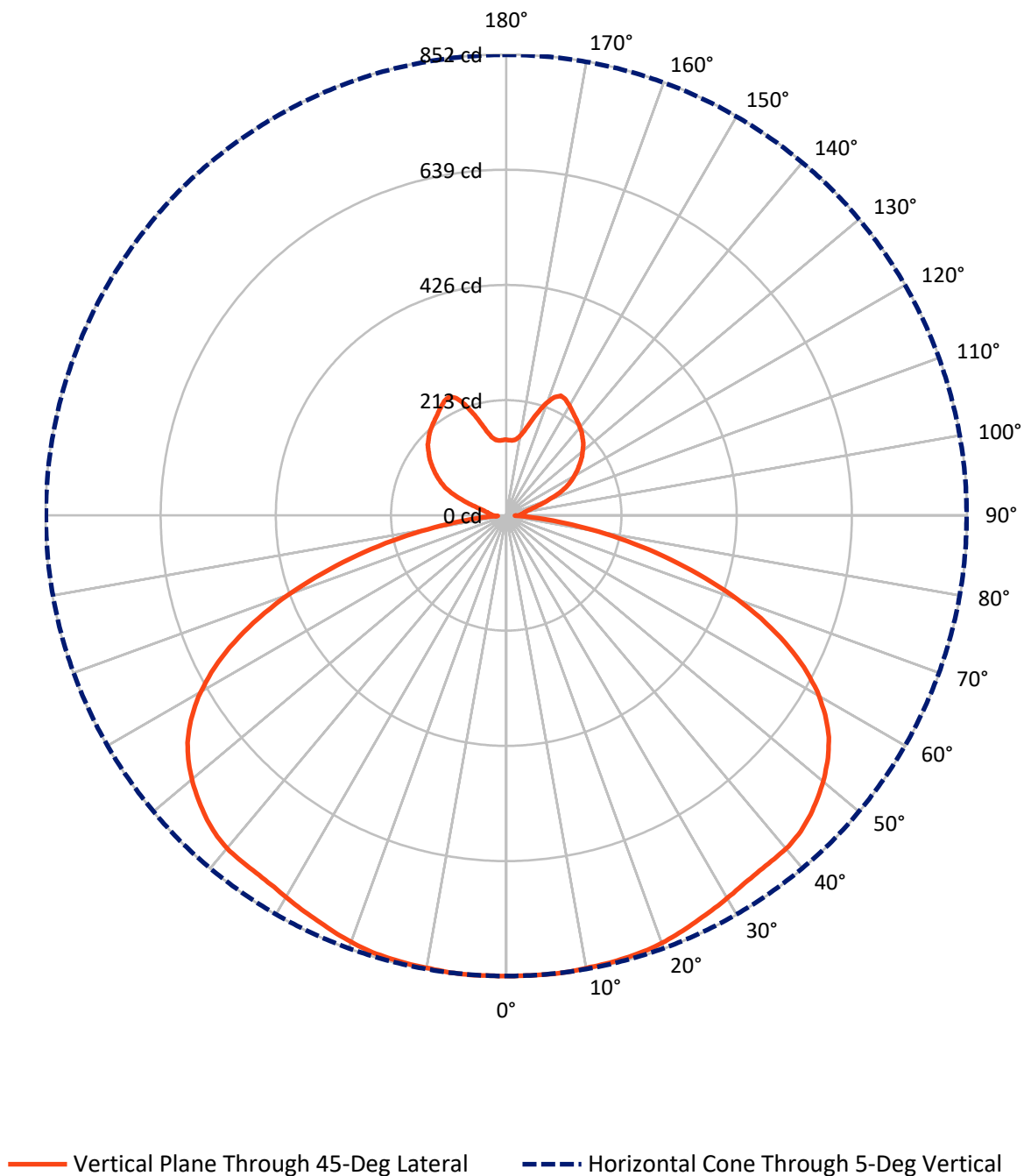


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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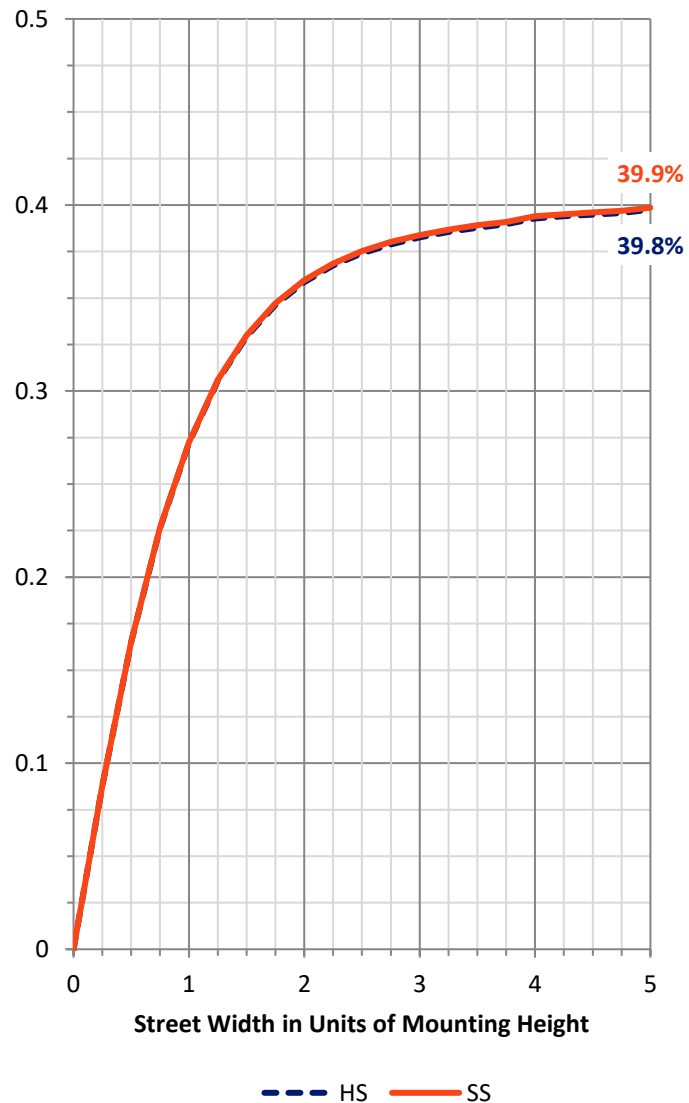
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.5	412.0	2079.5
	% Fixture	40.1	9.9	50.0
Street Side	Lumens	1667.5	412.0	2079.5
	% Fixture	40.1	9.9	50.0
Total	Lumens	3335.0	824.0	4159.0
	% Fixture	80.2	19.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	2.0
10°-20°	239.4	5.8
20°-30°	382.0	9.2
30°-40°	503.2	12.1
40°-50°	598.6	14.4
50°-60°	626.4	15.1
60°-70°	532.7	12.8
70°-80°	302.7	7.3
80°-90°	68.8	1.7
90°-100°	38.3	0.9
100°-110°	59.4	1.4
110°-120°	119.3	2.9
120°-130°	148.7	3.6
130°-140°	153.2	3.7
140°-150°	136.0	3.3
150°-160°	103.7	2.5
160°-170°	51.8	1.2
170°-180°	13.6	0.3
0°-90°	3335.0	80.2
0°-180°	4159.0	100.0

Coefficient of Utilization



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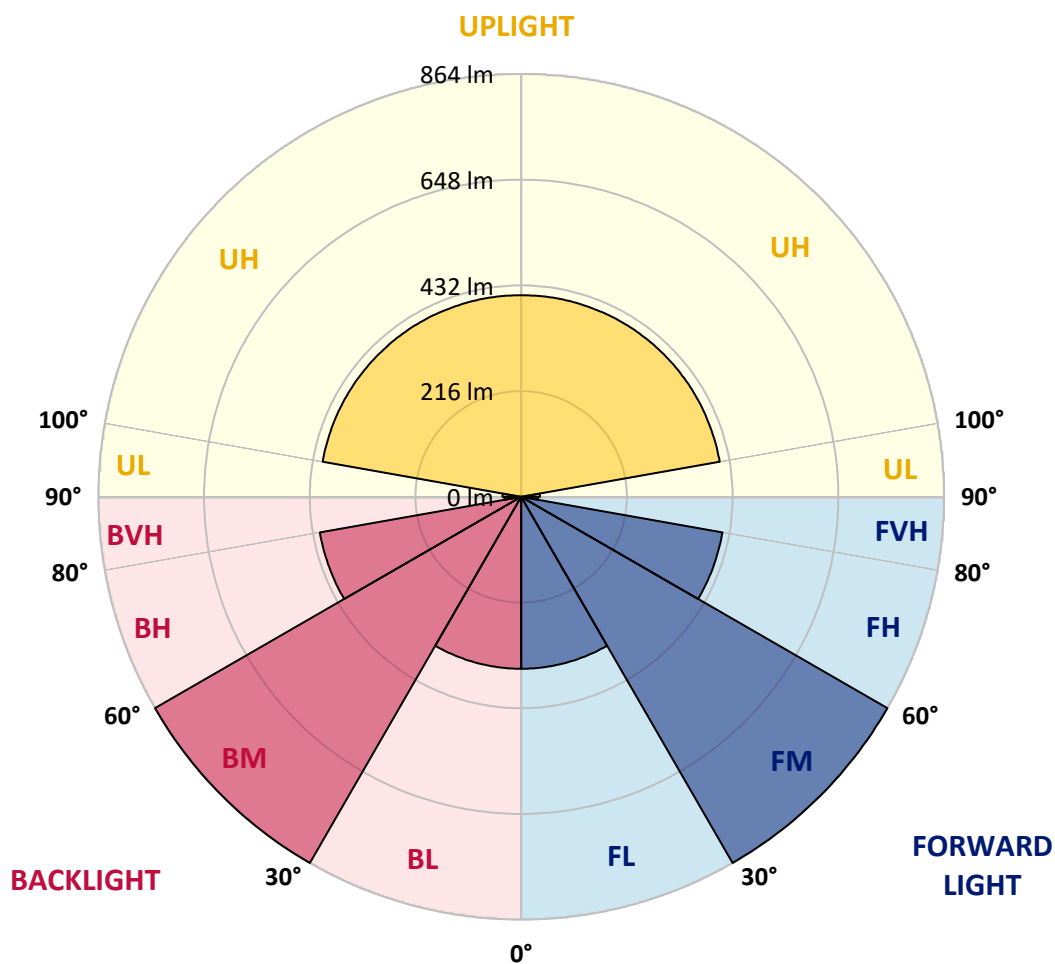
CATALOG NUMBER: TT-C1-LED-E1-CQ-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.3	8.4			
FM	(30°-60°)	864.1	20.8			
FH	(60°-80°)	417.7	10.0			G0/660
FVH	(80°-90°)	34.4	0.8			G1/100
BL	(0°-30°)	351.3	8.4	B1/500		
BM	(30°-60°)	864.1	20.8	B1/1000		
BH	(60°-80°)	417.7	10.0	B1/500		G0/660
BVH	(80°-90°)	34.4	0.8			G1/100
UL	(90°-100°)	38.3	0.9		U2/50	
UH	(100°-180°)	412.0	9.9		U3/500	

BUG Rating: B1-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
2.5°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
5°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.6	851.0
7.5°	850.3	850.3	850.3	850.3	851.0	850.3	850.3	851.0	851.0	851.0	851.0
10°	849.0	848.3	848.3	849.0	849.0	849.0	849.0	849.0	849.6	849.0	849.0
12.5°	847.0	846.4	847.0	847.0	847.0	847.7	847.7	847.7	848.3	848.3	847.7
15°	845.1	845.1	845.1	845.1	845.1	845.7	845.7	846.4	846.4	846.4	846.4
17.5°	842.4	842.4	842.4	843.1	843.1	843.7	843.7	843.7	844.4	844.4	844.4
20°	837.8	837.2	837.8	837.8	838.5	839.1	839.1	839.8	839.8	839.8	839.8
22.5°	831.3	831.3	831.9	831.9	832.6	833.2	833.2	833.9	833.9	833.9	833.9
25°	824.7	825.4	825.4	826.0	826.0	826.7	827.3	827.3	827.3	827.3	827.3
27.5°	818.1	818.8	818.8	818.8	819.4	820.1	820.8	821.4	822.1	821.4	821.4
30°	810.9	810.9	811.6	812.2	812.9	813.5	814.8	815.5	816.2	815.5	815.5
32.5°	803.0	803.7	804.3	805.0	806.3	807.6	808.9	809.6	810.3	809.6	809.6
35°	797.1	797.1	798.4	799.7	801.1	803.0	804.3	805.7	807.0	806.3	805.7
37.5°	791.2	791.2	792.5	794.5	797.1	799.7	802.4	804.3	805.0	805.0	804.3
40°	784.0	784.6	786.0	789.2	793.2	796.5	799.7	802.4	803.7	803.7	802.4
42.5°	776.1	776.8	778.7	782.0	786.6	790.6	794.5	796.5	798.4	798.4	797.1
45°	764.9	765.6	768.2	771.5	776.1	780.0	784.6	786.6	789.2	788.6	787.9
47.5°	750.5	751.2	753.8	757.1	761.7	766.3	770.9	774.1	776.1	776.1	775.5
50°	732.8	733.4	736.1	739.3	745.2	750.5	755.1	758.4	761.7	761.7	761.0
52.5°	710.4	711.8	713.7	718.3	724.9	730.8	736.7	742.0	743.9	744.6	743.9
55°	682.9	684.2	686.8	692.1	699.3	706.5	713.1	719.0	721.6	723.6	722.3
57.5°	650.7	652.0	655.3	661.2	669.1	676.3	684.8	691.4	693.4	695.3	694.7
60°	612.6	614.6	617.9	624.4	632.3	640.2	648.1	656.0	657.9	660.5	659.2
62.5°	568.0	569.9	573.2	580.4	589.0	596.2	605.4	612.6	614.6	617.2	616.6
65°	516.7	518.7	522.0	529.9	537.8	545.6	554.2	562.1	564.0	566.7	566.0
67.5°	458.3	460.3	463.6	472.8	480.6	488.5	495.7	503.6	504.9	507.6	506.9
70°	396.6	399.2	401.8	410.4	417.6	424.2	432.0	438.6	441.2	442.6	441.2
72.5°	334.9	336.8	339.5	345.4	350.6	356.5	364.4	369.0	371.0	371.6	371.6
75°	271.2	273.1	273.1	279.7	283.7	286.9	293.5	296.8	298.1	299.4	299.4
77.5°	210.8	209.5	210.8	213.4	216.0	218.7	222.6	224.6	225.9	228.5	227.2
80°	147.7	148.4	149.0	151.0	152.3	153.0	155.6	156.3	156.9	159.6	158.2
82.5°	95.2	93.9	95.2	94.6	95.9	93.9	95.2	97.2	95.9	97.2	97.8
85°	49.9	47.9	47.9	48.6	49.2	47.9	48.6	47.9	47.9	49.2	48.6
87.5°	15.8	15.1	15.8	15.1	15.8	15.1	15.8	16.4	15.8	15.8	16.4
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
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0

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CATALOG NUMBER: TT-C1-LED-E1-CQ-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
2.5°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
5°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
7.5°	850.3	850.3	850.3	850.3	850.3	850.3	849.6	850.3
10°	849.0	849.0	849.0	849.0	848.3	848.3	848.3	848.3
12.5°	847.7	847.7	847.0	847.0	847.0	847.0	846.4	846.4
15°	846.4	845.7	845.7	845.1	845.1	845.1	844.4	845.1
17.5°	844.4	843.7	843.7	843.1	843.1	842.4	842.4	842.4
20°	839.8	839.1	839.1	838.5	838.5	837.8	837.2	837.2
22.5°	833.2	833.2	833.2	832.6	831.9	831.9	831.3	831.3
25°	827.3	826.7	826.7	826.0	825.4	825.4	824.7	824.7
27.5°	821.4	820.8	820.1	818.8	818.8	818.1	817.5	816.8
30°	814.8	813.5	812.2	811.6	810.9	809.6	808.9	808.3
32.5°	808.3	807.0	805.7	804.3	802.4	801.7	800.4	800.4
35°	804.3	802.4	800.4	797.8	795.8	793.8	792.5	791.9
37.5°	802.4	799.7	796.5	793.2	789.9	787.3	785.3	785.3
40°	799.7	796.5	792.5	787.9	784.0	780.7	778.7	778.1
42.5°	794.5	791.2	786.0	782.0	776.8	773.5	770.9	770.2
45°	785.3	782.0	777.4	772.2	766.9	763.0	760.4	759.7
47.5°	773.5	769.5	764.3	759.0	753.8	749.2	746.6	745.9
50°	758.4	754.4	749.2	743.9	738.0	733.4	730.1	730.1
52.5°	741.3	736.7	730.8	724.9	718.3	713.7	710.4	709.8
55°	719.0	713.7	707.8	701.3	694.0	688.8	684.8	684.2
57.5°	691.4	685.5	678.9	671.7	664.5	658.6	654.0	653.3
60°	656.6	650.0	643.5	636.3	628.4	621.8	617.2	615.9
62.5°	613.9	606.7	599.5	592.9	584.4	577.8	573.2	571.9
65°	563.4	557.5	550.2	542.4	533.2	526.6	522.0	521.3
67.5°	504.3	498.4	491.1	483.9	474.7	468.8	464.2	462.9
70°	439.3	434.0	428.1	420.9	413.0	407.1	402.5	401.8
72.5°	370.3	365.7	360.5	355.2	347.3	342.7	338.8	338.2
75°	299.4	294.8	290.9	286.9	281.0	277.7	273.8	273.8
77.5°	227.2	225.9	223.2	218.7	215.4	212.7	210.8	209.5
80°	158.9	157.6	156.3	153.6	151.7	151.0	149.7	148.4
82.5°	97.2	96.5	97.2	95.9	95.2	95.2	94.6	93.2
85°	49.2	49.9	49.2	48.6	48.6	48.6	48.6	47.9
87.5°	15.8	16.4	15.8	15.1	15.1	15.1	15.1	14.4
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
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
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)