

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: P198386

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198386
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-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM 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: 5593.6 lumens
Efficiency: N/A
Efficacy: 89.6 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



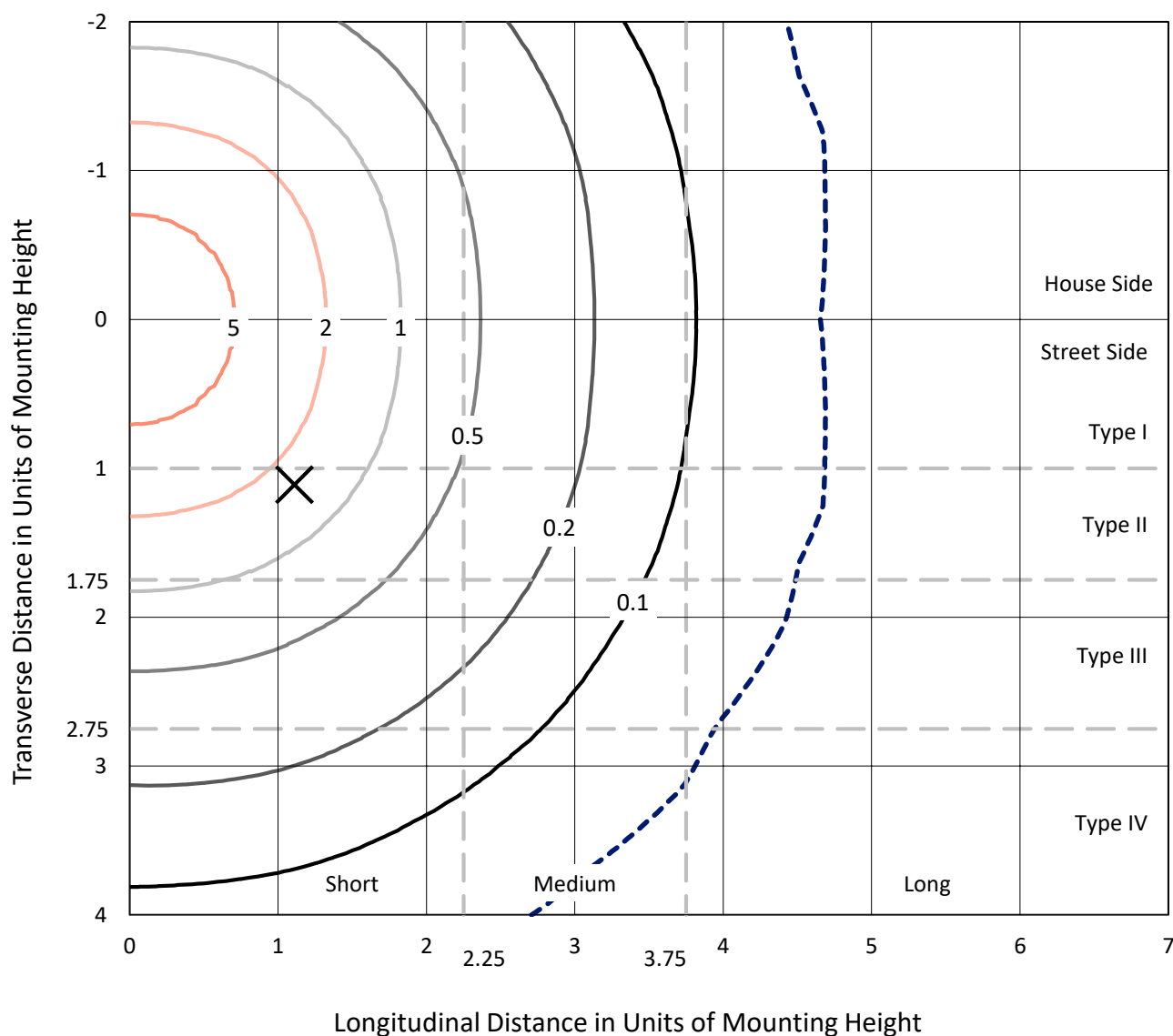
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

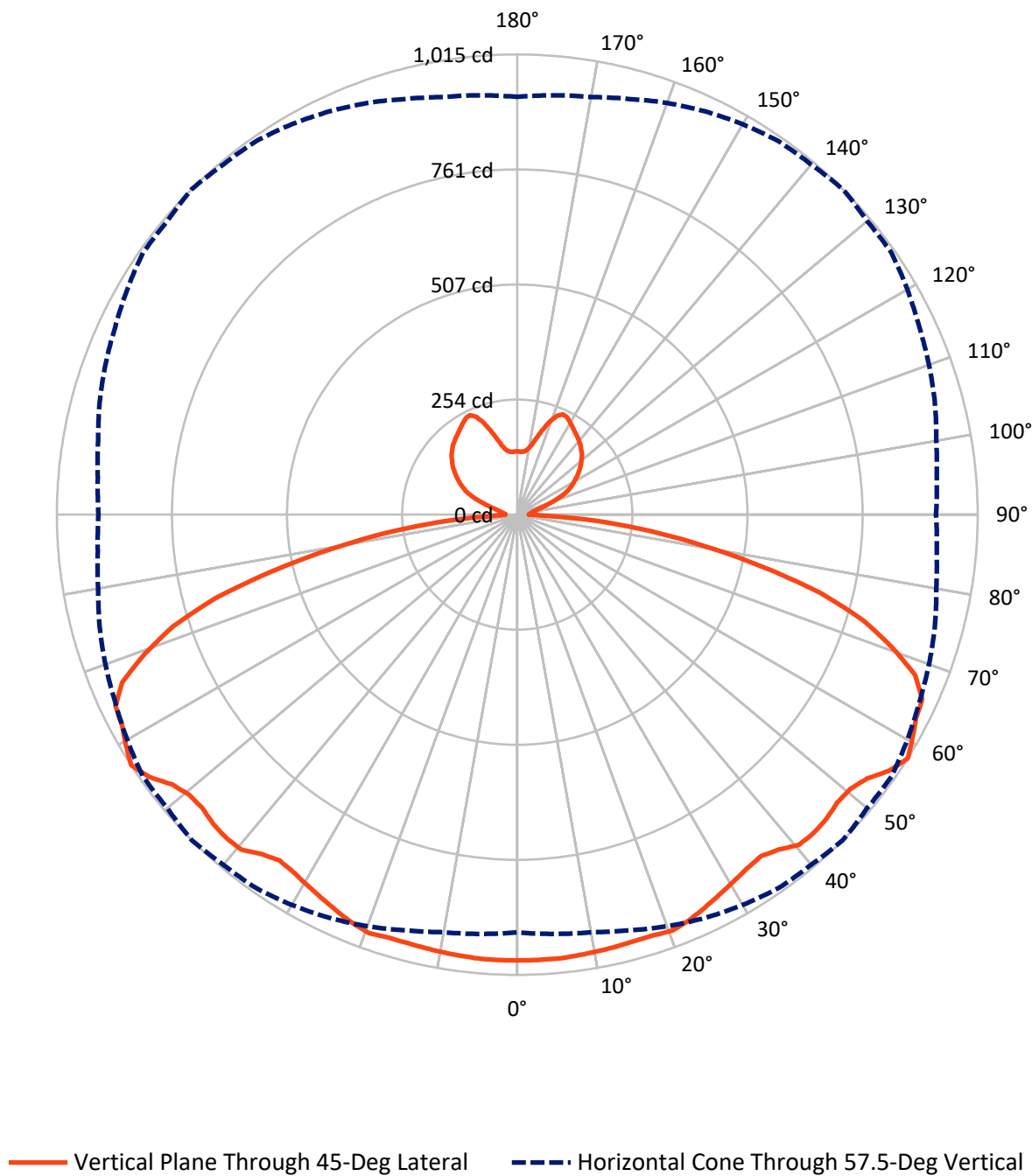


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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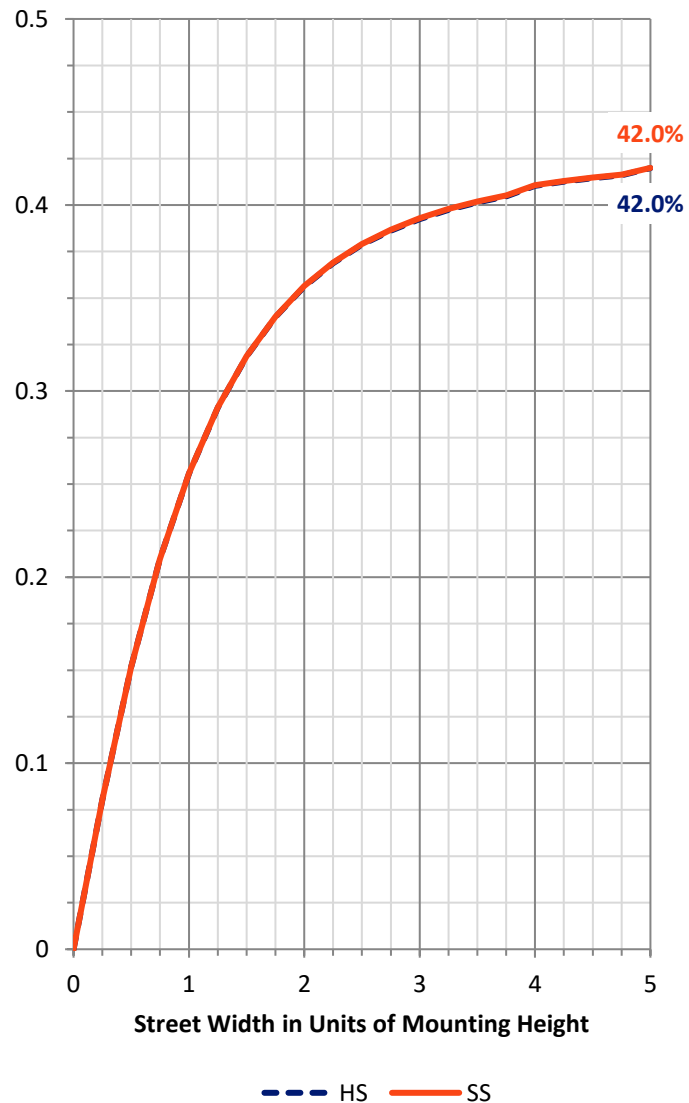
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2384.8	412.0	2796.8
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2384.8	412.0	2796.8
	% Fixture	42.6	7.4	50.0
Total	Lumens	4769.6	824.0	5593.6
	% Fixture	85.3	14.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.7
10°-20°	276.3	4.9
20°-30°	442.5	7.9
30°-40°	582.5	10.4
40°-50°	725.5	13.0
50°-60°	854.7	15.3
60°-70°	908.6	16.2
70°-80°	681.4	12.2
80°-90°	204.5	3.7
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°	4769.6	85.3
0°-180°	5593.6	100.0

Coefficient of Utilization



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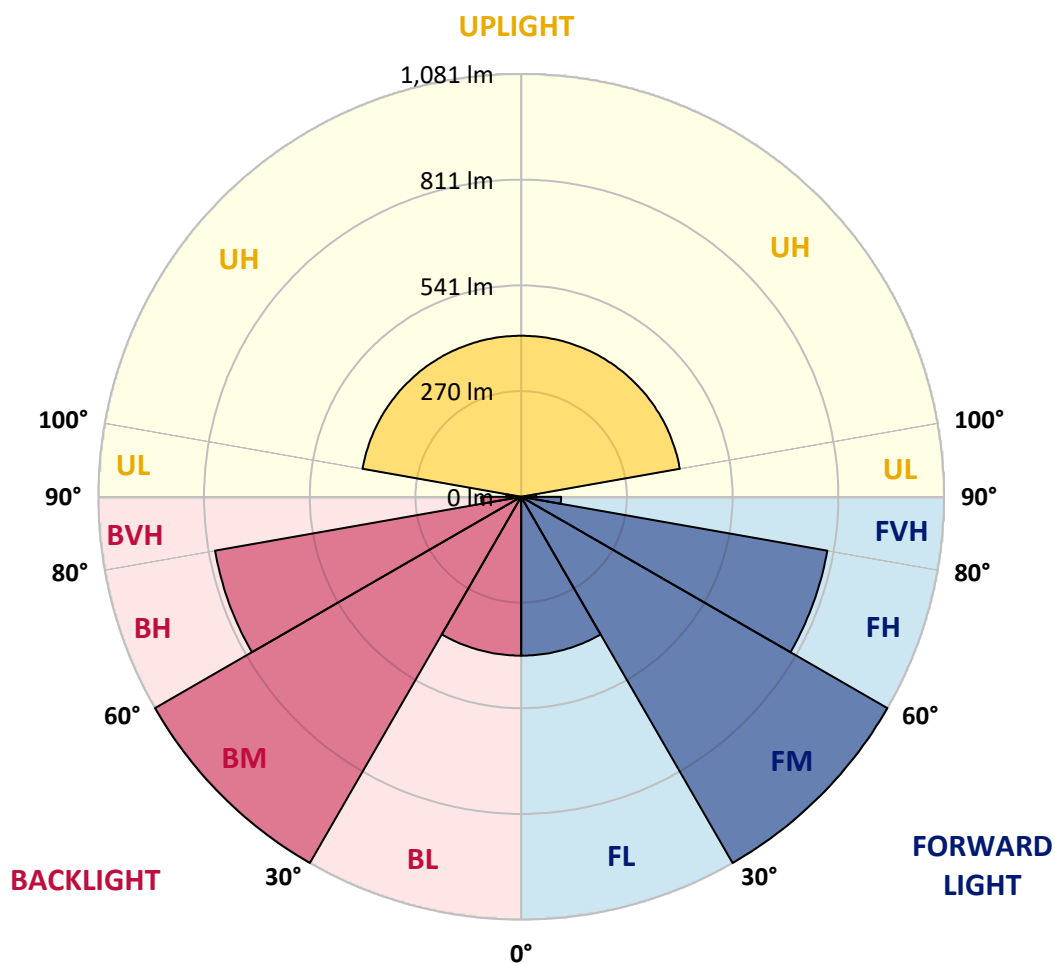
CATALOG NUMBER: TT-C3-LED-E1-MQ-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	406.2	7.3			
FM	(30°-60°)	1081.4	19.3			
FH	(60°-80°)	795.0	14.2			G1/1800
FVH	(80°-90°)	102.2	1.8			G2/225
BL	(0°-30°)	406.2	7.3	B1/500		
BM	(30°-60°)	1081.4	19.3	B2/2500		
BH	(60°-80°)	795.0	14.2	B2/1000		G1/1800
BVH	(80°-90°)	102.2	1.8			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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	981.9	981.9	981.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
5°	981.9	981.9	981.9	981.9	981.9	981.9	982.9	982.9	982.9	982.9	982.9
7.5°	979.9	979.9	979.9	979.9	979.9	980.9	980.9	980.9	980.9	980.9	980.9
10°	977.9	977.9	977.9	977.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
12.5°	976.0	976.0	975.0	976.0	976.0	976.0	977.0	977.0	977.0	977.0	977.0
15°	972.0	972.0	973.0	973.0	974.0	974.0	974.0	974.0	975.0	975.0	975.0
17.5°	970.0	970.0	971.0	972.0	972.0	973.0	974.0	974.0	975.0	975.0	975.0
20°	973.0	973.0	973.0	974.0	975.0	976.0	977.0	977.9	977.9	978.9	977.9
22.5°	967.0	967.0	967.0	968.0	968.0	968.0	969.0	970.0	970.0	971.0	970.0
25°	956.0	956.0	957.0	957.0	958.0	958.0	959.0	959.0	959.0	960.0	960.0
27.5°	945.0	944.0	946.0	946.0	947.0	947.0	948.0	949.0	949.0	949.0	950.0
30°	933.0	933.0	934.0	934.0	935.0	936.0	937.0	938.0	938.0	939.0	939.0
32.5°	920.1	921.1	922.1	923.1	924.1	926.1	927.1	928.1	929.1	930.0	929.1
35°	911.1	912.1	913.1	915.1	918.1	920.1	922.1	924.1	925.1	925.1	925.1
37.5°	913.1	914.1	916.1	920.1	925.1	928.1	932.0	935.0	936.0	937.0	937.0
40°	924.1	926.1	929.1	934.0	940.0	945.0	951.0	954.0	956.0	957.0	956.0
42.5°	923.1	926.1	929.1	935.0	942.0	947.0	953.0	956.0	958.0	959.0	958.0
45°	920.1	922.1	925.1	931.0	936.0	943.0	949.0	952.0	955.0	956.0	955.0
47.5°	913.1	913.1	914.1	920.1	927.1	936.0	941.0	946.0	949.0	949.0	949.0
50°	904.1	908.1	910.1	918.1	925.1	933.0	942.0	949.0	950.0	951.0	950.0
52.5°	904.1	905.1	912.1	917.1	931.0	943.0	952.0	959.0	965.0	966.0	966.0
55°	920.1	922.1	926.1	938.0	949.0	967.0	981.9	987.9	991.9	995.9	991.9
57.5°	921.1	928.1	935.0	949.0	966.0	980.9	993.9	1004.9	1007.9	1014.9	1006.9
60°	909.1	911.1	918.1	935.0	957.0	973.0	984.9	994.9	1004.9	1000.9	1004.9
62.5°	890.1	895.1	905.1	918.1	936.0	955.0	973.0	976.0	990.9	986.9	992.9
65°	875.2	879.2	889.1	908.1	930.0	942.0	962.0	974.0	973.0	980.9	972.0
67.5°	838.2	841.2	850.2	869.2	890.1	908.1	914.1	933.0	935.0	946.0	936.0
70°	777.4	784.4	797.3	815.3	832.3	847.2	858.2	868.2	874.2	876.2	874.2
72.5°	701.5	712.5	722.5	739.4	756.4	766.4	773.4	787.3	791.3	797.3	795.3
75°	623.7	623.7	633.7	646.6	659.6	665.6	669.6	678.6	683.6	690.6	684.6
77.5°	516.9	522.9	531.9	542.9	540.9	543.9	543.9	548.8	546.9	551.8	555.8
80°	405.2	411.1	419.1	427.1	426.1	419.1	424.1	418.1	416.1	417.1	420.1
82.5°	289.4	293.4	300.4	305.4	305.4	300.4	302.4	296.4	298.4	293.4	297.4
85°	165.7	170.6	175.6	180.6	180.6	177.6	180.6	172.6	173.6	173.6	173.6
87.5°	40.9	44.9	46.9	49.9	47.9	52.9	55.9	50.9	51.9	49.9	52.9
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-C3-LED-E1-MQ-LWR-LW-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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	982.9	981.9	982.9	982.9	982.9	982.9	981.9	981.9
5°	982.9	982.9	982.9	981.9	981.9	981.9	981.9	981.9
7.5°	980.9	980.9	980.9	979.9	979.9	979.9	979.9	979.9
10°	978.9	978.9	977.9	977.9	977.9	977.9	977.9	977.9
12.5°	977.0	977.0	976.0	976.0	976.0	976.0	976.0	975.0
15°	975.0	975.0	974.0	974.0	973.0	973.0	972.0	972.0
17.5°	975.0	974.0	973.0	972.0	972.0	971.0	970.0	970.0
20°	977.9	977.0	976.0	975.0	974.0	973.0	973.0	972.0
22.5°	970.0	969.0	968.0	968.0	967.0	967.0	967.0	966.0
25°	960.0	959.0	959.0	957.0	957.0	956.0	956.0	955.0
27.5°	949.0	948.0	948.0	947.0	946.0	945.0	944.0	944.0
30°	938.0	937.0	937.0	936.0	934.0	934.0	933.0	932.0
32.5°	928.1	928.1	927.1	925.1	923.1	922.1	920.1	920.1
35°	925.1	923.1	921.1	918.1	915.1	913.1	912.1	911.1
37.5°	936.0	933.0	928.1	925.1	921.1	917.1	915.1	913.1
40°	955.0	950.0	945.0	940.0	934.0	929.1	925.1	924.1
42.5°	956.0	953.0	948.0	942.0	935.0	929.1	925.1	924.1
45°	953.0	949.0	943.0	936.0	931.0	924.1	921.1	920.1
47.5°	946.0	942.0	936.0	926.1	919.1	914.1	913.1	913.1
50°	950.0	942.0	932.0	926.1	919.1	911.1	908.1	906.1
52.5°	959.0	951.0	945.0	932.0	917.1	910.1	906.1	903.1
55°	987.9	983.9	966.0	948.0	937.0	928.1	924.1	922.1
57.5°	1006.9	992.9	977.9	966.0	953.0	938.0	928.1	923.1
60°	996.9	981.9	975.0	959.0	932.0	916.1	910.1	907.1
62.5°	975.0	975.0	956.0	931.0	921.1	907.1	896.1	892.1
65°	974.0	961.0	942.0	933.0	909.1	888.1	877.2	875.2
67.5°	932.0	914.1	909.1	889.1	869.2	850.2	842.2	838.2
70°	868.2	862.2	847.2	834.2	816.3	796.3	785.4	781.4
72.5°	787.3	777.4	770.4	759.4	742.4	717.5	708.5	703.5
75°	677.6	672.6	672.6	660.6	644.6	629.7	628.7	626.7
77.5°	544.9	546.9	551.8	538.9	543.9	535.9	528.9	523.9
80°	414.1	423.1	424.1	427.1	430.1	419.1	414.1	408.1
82.5°	294.4	299.4	305.4	306.4	308.4	300.4	296.4	290.4
85°	173.6	176.6	181.6	181.6	181.6	174.6	172.6	167.6
87.5°	50.9	50.9	53.9	50.9	50.9	50.9	45.9	48.9
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
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)