

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: P198437

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198437
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-C4-LED-E1-MQ-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5679.9 lumens
Efficiency: N/A
Efficacy: 75.3 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): 75.4
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



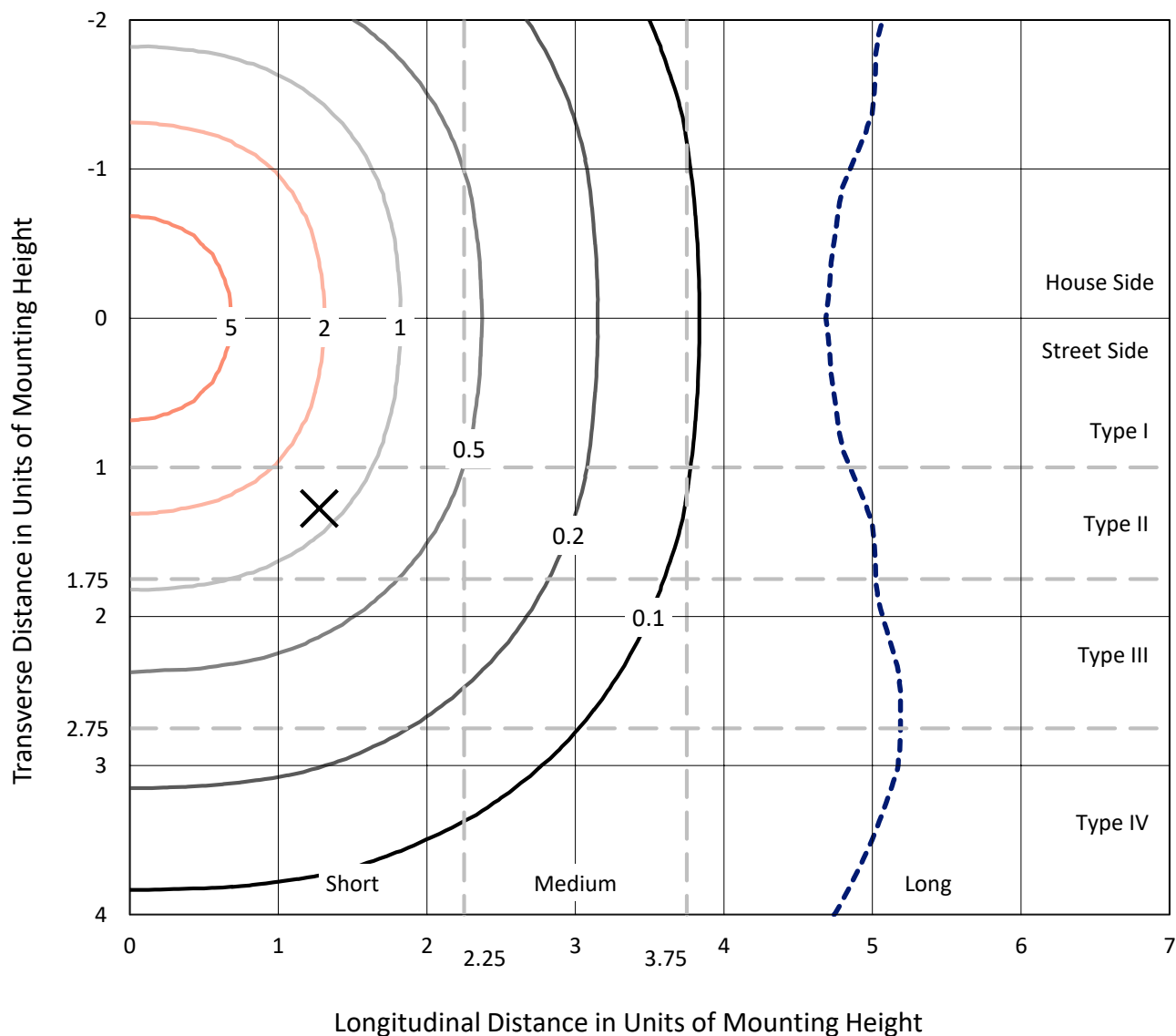
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

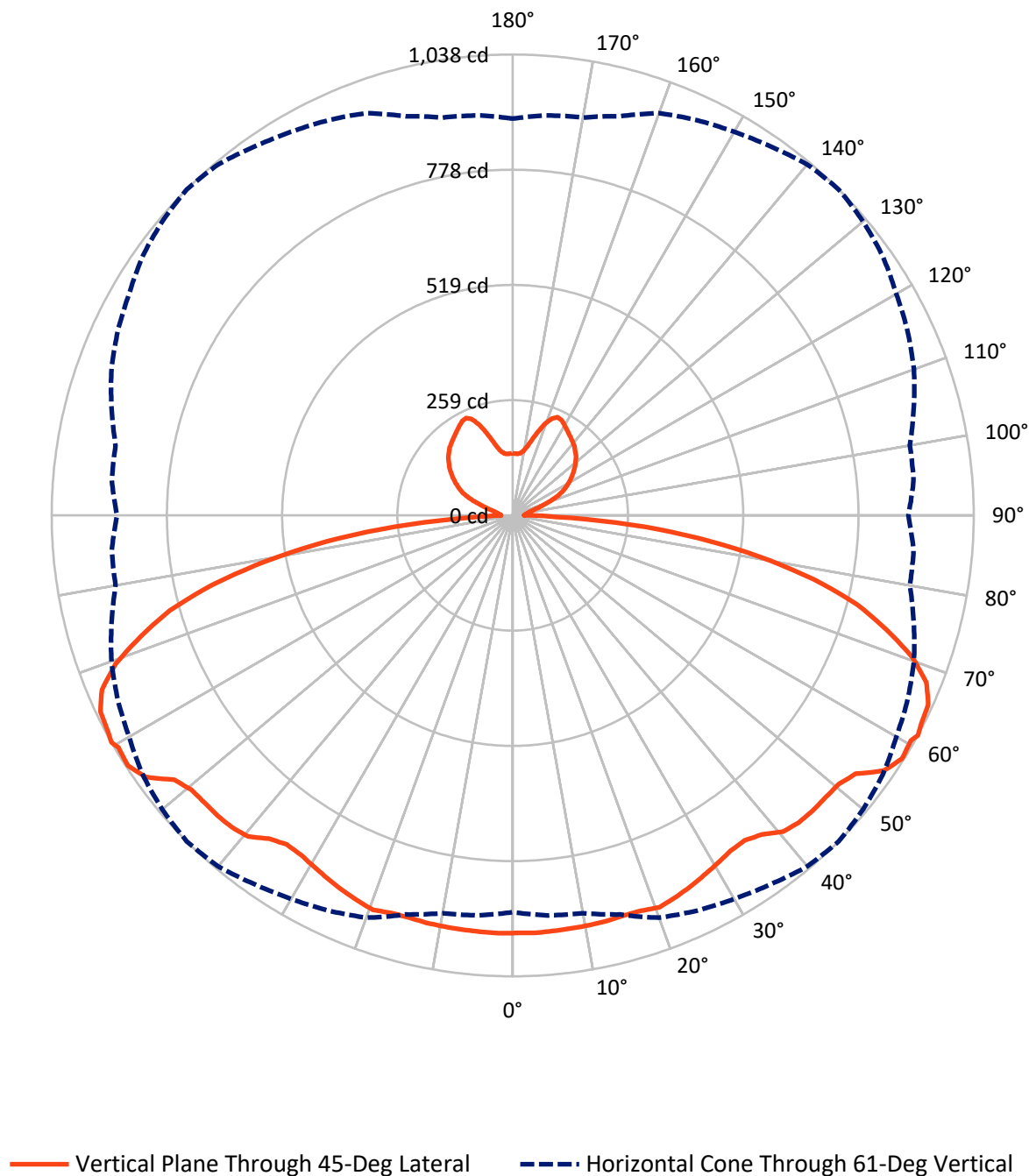


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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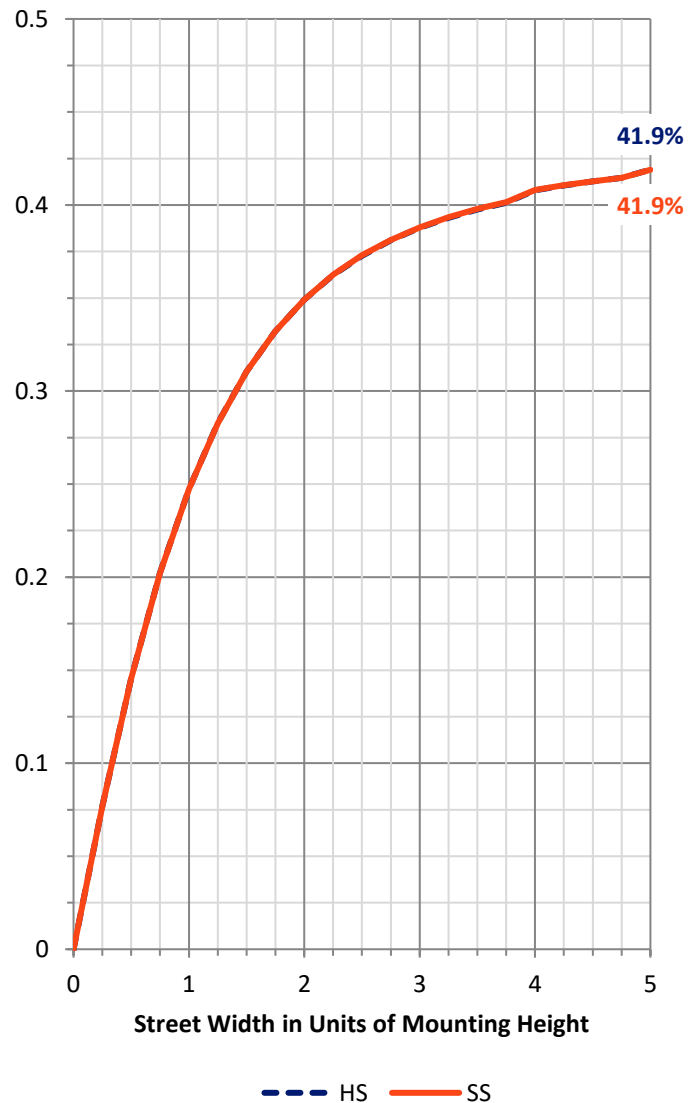
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2428.0	412.0	2839.9
	% Fixture	42.7	7.3	50.0
Street Side	Lumens	2428.0	412.0	2839.9
	% Fixture	42.7	7.3	50.0
Total	Lumens	4855.9	824.0	5679.9
	% Fixture	85.5	14.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.6
10°-20°	265.1	4.7
20°-30°	426.6	7.5
30°-40°	565.1	9.9
40°-50°	713.6	12.6
50°-60°	855.0	15.1
60°-70°	934.9	16.5
70°-80°	748.4	13.2
80°-90°	257.6	4.5
90°-100°	38.3	0.7
100°-110°	59.4	1.0
110°-120°	119.3	2.1
120°-130°	148.7	2.6
130°-140°	153.2	2.7
140°-150°	136.0	2.4
150°-160°	103.7	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4855.9	85.5
0°-180°	5679.9	100.0

Coefficient of Utilization



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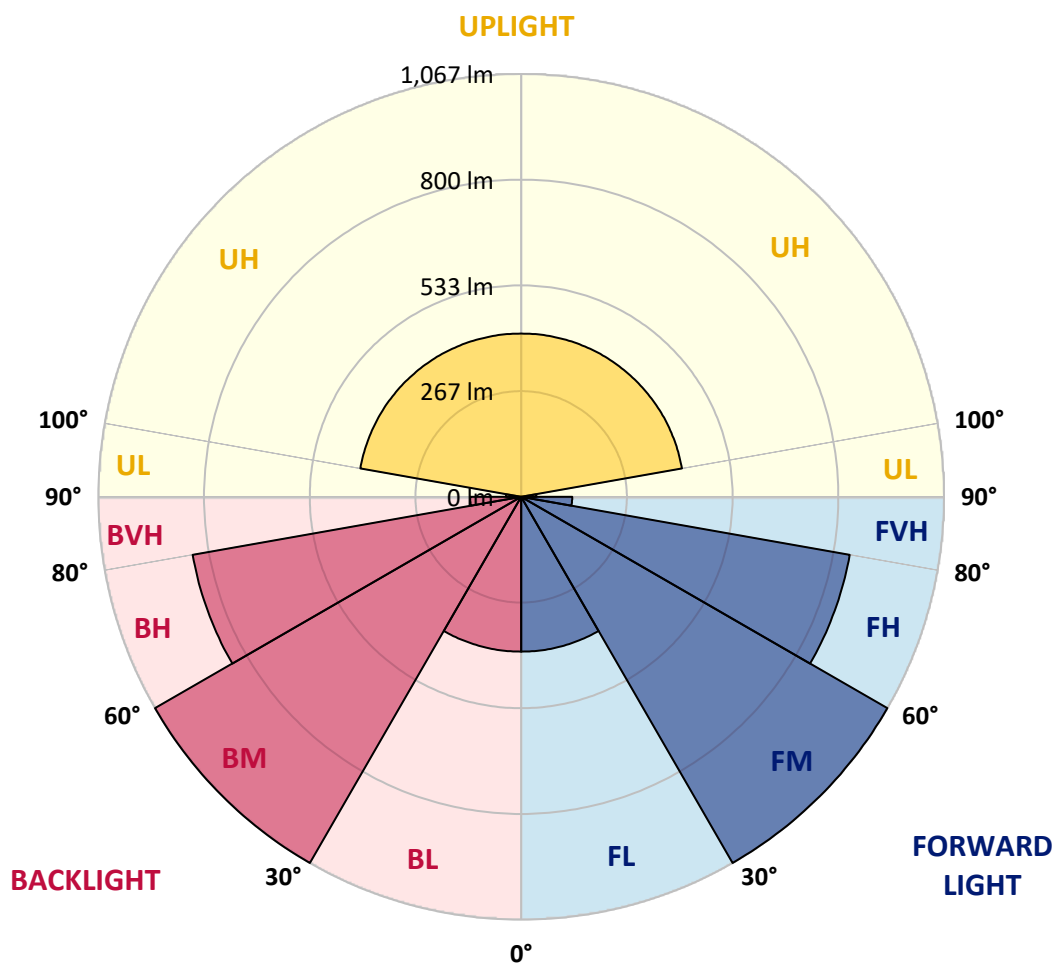
CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.7	6.9			
FM	(30°-60°)	1066.8	18.8			
FH	(60°-80°)	841.7	14.8			G1/1800
FVH	(80°-90°)	128.8	2.3			G2/225
BL	(0°-30°)	390.7	6.9	B1/500		
BM	(30°-60°)	1066.8	18.8	B2/2500		
BH	(60°-80°)	841.7	14.8	B2/1000		G1/1800
BVH	(80°-90°)	128.8	2.3			G2/225
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.3		U3/500	

BUG Rating: B2-U4-G2

Type V Short



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CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	940.9	939.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
5°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
7.5°	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.9	939.0	939.9
10°	937.2	937.2	937.2	937.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2
12.5°	935.5	935.5	935.5	935.5	936.3	936.3	936.3	936.3	937.2	937.2	936.3
15°	933.6	932.8	932.8	933.6	933.6	934.5	934.5	934.5	935.5	934.5	934.5
17.5°	931.8	930.9	931.8	932.8	932.8	933.6	934.5	934.5	935.5	935.5	935.5
20°	934.5	933.6	934.5	935.5	936.3	938.2	939.0	939.9	940.9	941.8	941.8
22.5°	929.1	928.2	929.1	929.1	930.0	930.9	932.8	933.6	934.5	934.5	934.5
25°	921.0	921.0	921.9	921.9	922.8	923.7	924.6	925.5	925.5	926.4	925.5
27.5°	911.9	911.9	912.9	912.9	914.6	914.6	915.6	916.5	917.3	917.3	917.3
30°	901.1	901.1	902.0	902.9	904.7	905.6	906.5	907.4	908.3	908.3	908.3
32.5°	891.2	890.3	891.2	893.0	895.7	897.4	899.3	900.2	900.2	900.2	901.1
35°	883.0	883.9	885.7	887.6	891.2	893.0	894.7	897.4	898.4	898.4	898.4
37.5°	884.8	885.7	888.5	892.0	896.6	902.0	905.6	909.2	911.9	911.0	910.2
40°	896.6	898.4	902.9	908.3	915.6	922.8	928.2	932.8	935.5	936.3	935.5
42.5°	898.4	900.2	903.8	911.9	920.0	928.2	935.5	939.9	943.6	944.5	943.6
45°	897.4	897.4	902.9	911.9	920.0	928.2	937.2	943.6	947.2	947.2	947.2
47.5°	891.2	893.9	897.4	906.5	917.3	925.5	934.5	940.9	945.4	948.1	945.4
50°	891.2	891.2	897.4	903.8	913.7	928.2	940.9	947.2	951.7	950.8	951.7
52.5°	889.3	894.7	898.4	907.4	925.5	939.9	949.9	958.9	965.2	966.2	964.3
55°	905.6	906.5	914.6	931.8	949.0	965.2	983.4	996.9	1007.7	1014.1	1005.0
57.5°	918.3	913.7	930.0	944.5	964.3	988.8	1015.9	1026.7	1034.8	1033.0	1035.8
60°	901.1	907.4	919.2	934.5	966.2	990.6	1005.0	1016.8	1026.7	1029.4	1025.9
61°	893.0	903.8	909.2	930.0	963.5	981.5	996.9	1013.2	1031.3	1037.5	1029.4
62.5°	879.4	896.6	894.7	928.2	949.0	969.8	998.7	1017.6	1030.3	1032.1	1030.3
65°	880.3	877.6	898.4	922.8	943.6	980.7	1005.0	1016.8	1024.0	1027.6	1025.9
67.5°	851.4	842.3	867.7	884.8	920.0	949.0	972.5	989.6	1000.6	1004.1	999.6
70°	784.5	790.8	808.9	835.2	864.0	899.3	921.0	943.6	952.6	953.5	953.5
72.5°	720.3	723.9	742.1	766.4	799.9	830.6	852.2	870.4	878.5	879.4	881.2
75°	635.4	638.9	659.8	682.4	715.8	742.1	757.4	779.0	790.8	800.8	792.7
77.5°	536.9	543.1	559.5	583.9	614.6	629.1	656.1	681.4	689.6	692.3	689.6
80°	425.7	433.8	448.3	480.9	494.4	517.9	544.1	554.9	562.2	564.0	564.9
82.5°	306.4	312.8	328.1	350.7	366.1	385.0	403.1	416.7	424.8	422.9	422.1
85°	180.8	182.6	198.8	214.2	226.0	237.7	252.1	262.1	263.9	267.6	266.6
87.5°	54.3	55.1	62.4	70.5	75.9	81.3	90.4	102.2	104.9	97.6	98.5
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	32.0
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-C4-LED-E1-MQ-CG-MS/DIM-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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	940.9	940.9	940.9	940.9	940.9	940.9	939.9	940.9
5°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
7.5°	939.9	939.0	939.0	939.0	939.0	939.0	939.0	939.0
10°	938.2	938.2	938.2	938.2	937.2	937.2	937.2	937.2
12.5°	936.3	936.3	936.3	936.3	935.5	935.5	935.5	935.5
15°	934.5	934.5	934.5	934.5	933.6	933.6	933.6	933.6
17.5°	935.5	934.5	933.6	933.6	932.8	931.8	931.8	931.8
20°	940.9	939.9	938.2	936.3	935.5	934.5	934.5	934.5
22.5°	933.6	932.8	930.9	930.0	930.0	929.1	928.2	928.2
25°	925.5	923.7	923.7	922.8	922.8	921.0	921.0	920.0
27.5°	916.5	915.6	914.6	913.7	913.7	912.9	911.9	911.0
30°	908.3	906.5	904.7	903.8	902.9	902.0	902.0	902.0
32.5°	900.2	898.4	897.4	894.7	893.0	892.0	891.2	891.2
35°	897.4	894.7	893.0	890.3	887.6	885.7	884.8	883.0
37.5°	908.3	904.7	902.0	897.4	891.2	888.5	885.7	884.8
40°	931.8	928.2	922.8	915.6	908.3	902.9	898.4	896.6
42.5°	939.9	935.5	928.2	921.0	911.9	903.8	900.2	898.4
45°	942.6	938.2	928.2	919.2	911.0	903.8	898.4	896.6
47.5°	939.9	933.6	924.6	917.3	905.6	896.6	893.0	890.3
50°	946.3	940.9	929.1	912.9	902.9	897.4	891.2	890.3
52.5°	958.9	949.0	938.2	926.4	907.4	896.6	893.0	888.5
55°	996.9	983.4	964.3	945.4	933.6	916.5	905.6	905.6
57.5°	1025.9	1014.9	990.6	965.2	943.6	930.9	914.6	915.6
60°	1017.6	1003.3	991.5	966.2	935.5	918.3	911.9	900.2
61°	1016.8	996.9	980.7	960.8	934.5	907.4	905.6	890.3
62.5°	1018.6	1000.6	969.8	949.0	929.1	893.9	893.0	878.5
65°	1016.8	999.6	984.2	945.4	918.3	903.8	873.1	884.8
67.5°	988.8	973.4	945.4	923.7	882.1	864.0	846.8	846.8
70°	944.5	921.9	894.7	867.7	839.6	808.9	793.5	784.5
72.5°	870.4	851.4	829.6	800.8	766.4	738.4	723.9	717.6
75°	777.3	756.5	737.5	715.8	679.7	656.1	640.8	636.2
77.5°	679.7	661.5	628.1	607.4	582.9	555.8	542.3	536.9
80°	554.9	545.0	521.5	488.0	476.3	442.8	433.8	425.7
82.5°	416.7	405.8	384.1	360.7	346.2	327.1	310.9	309.1
85°	262.1	254.9	241.3	224.1	206.1	195.2	180.8	184.3
87.5°	97.6	93.1	85.0	74.2	65.9	58.7	51.6	54.3
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)