

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: P198477

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198477
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-WQ-SG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING 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: 5603.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G1

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

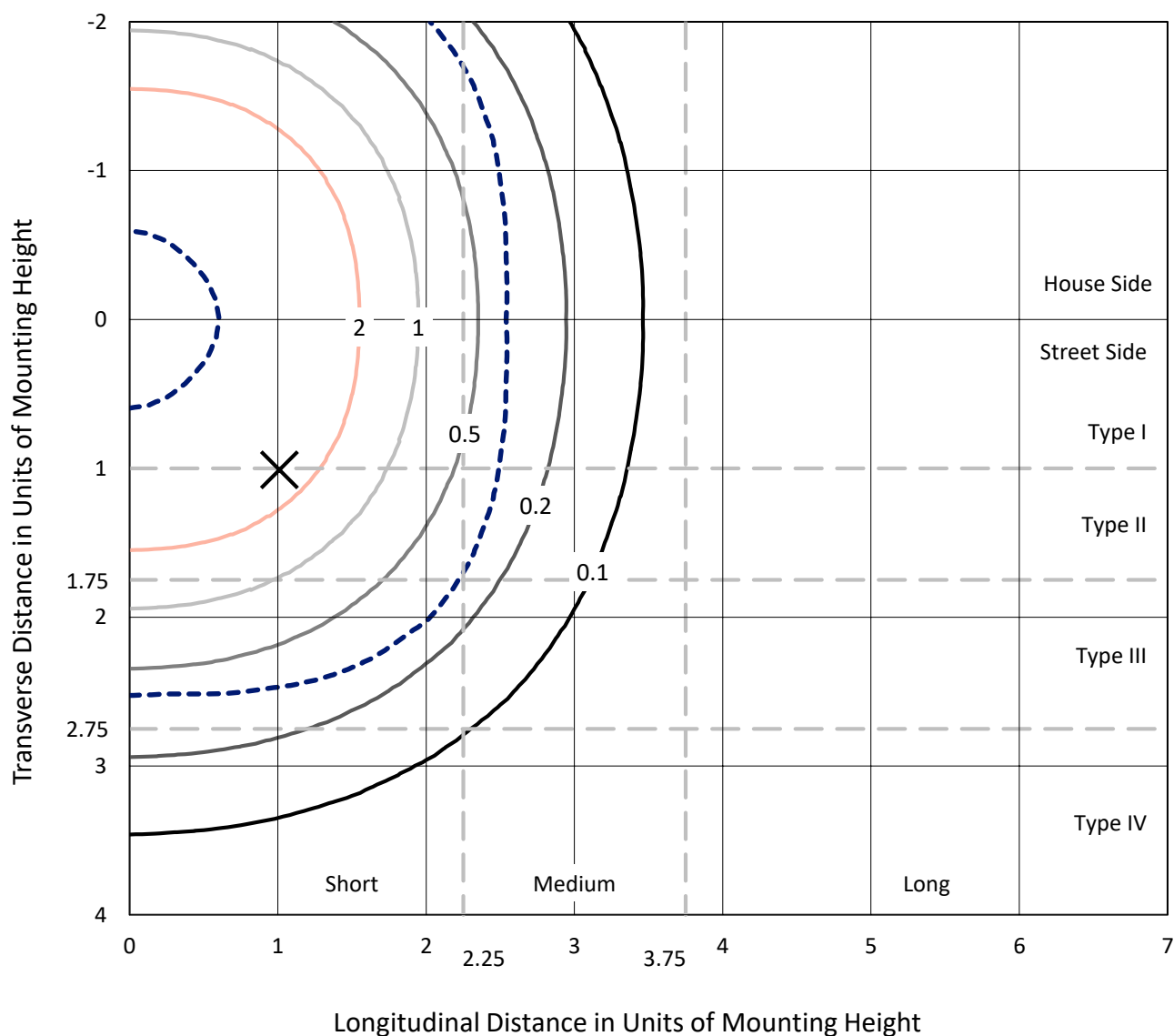


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

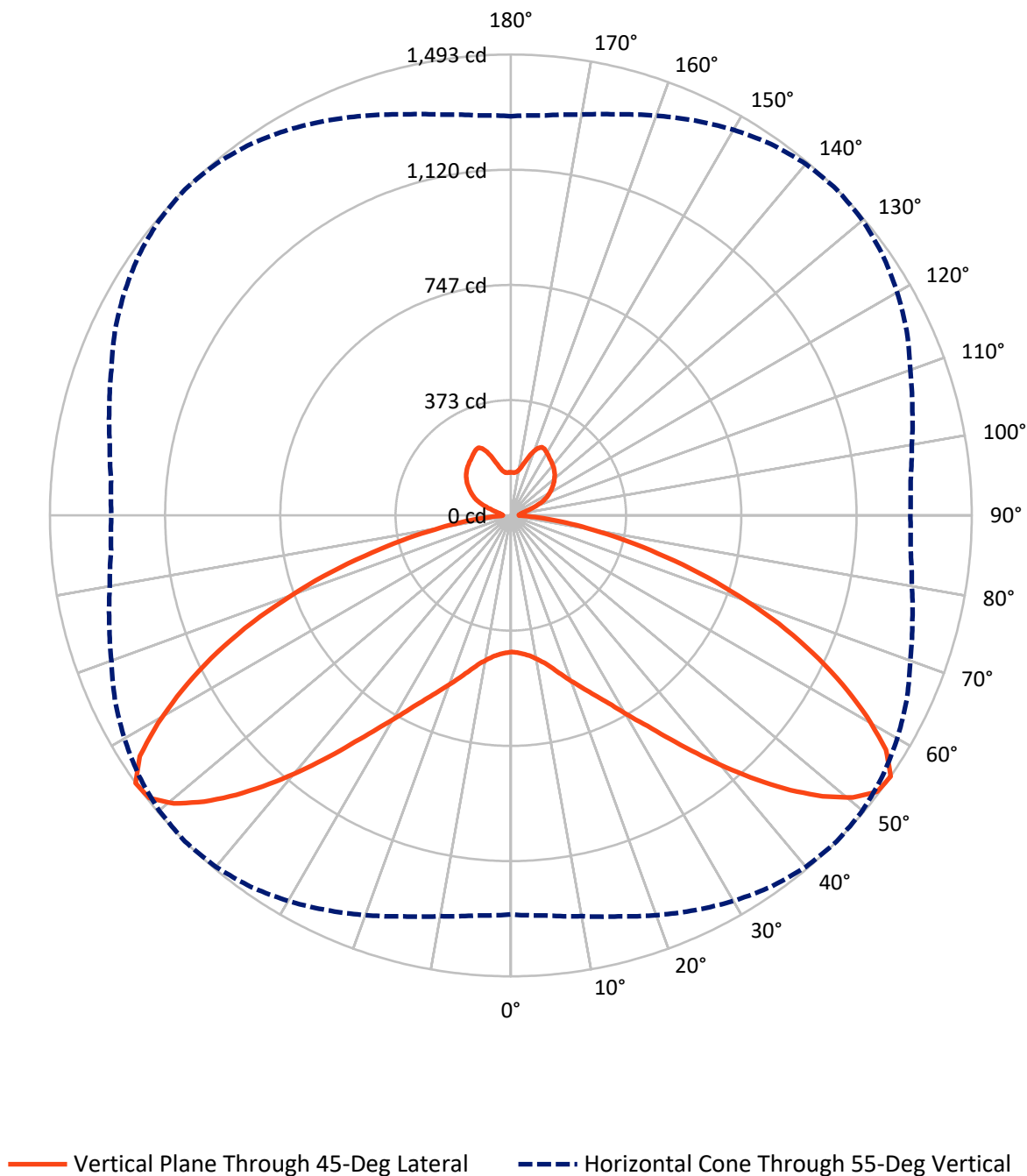


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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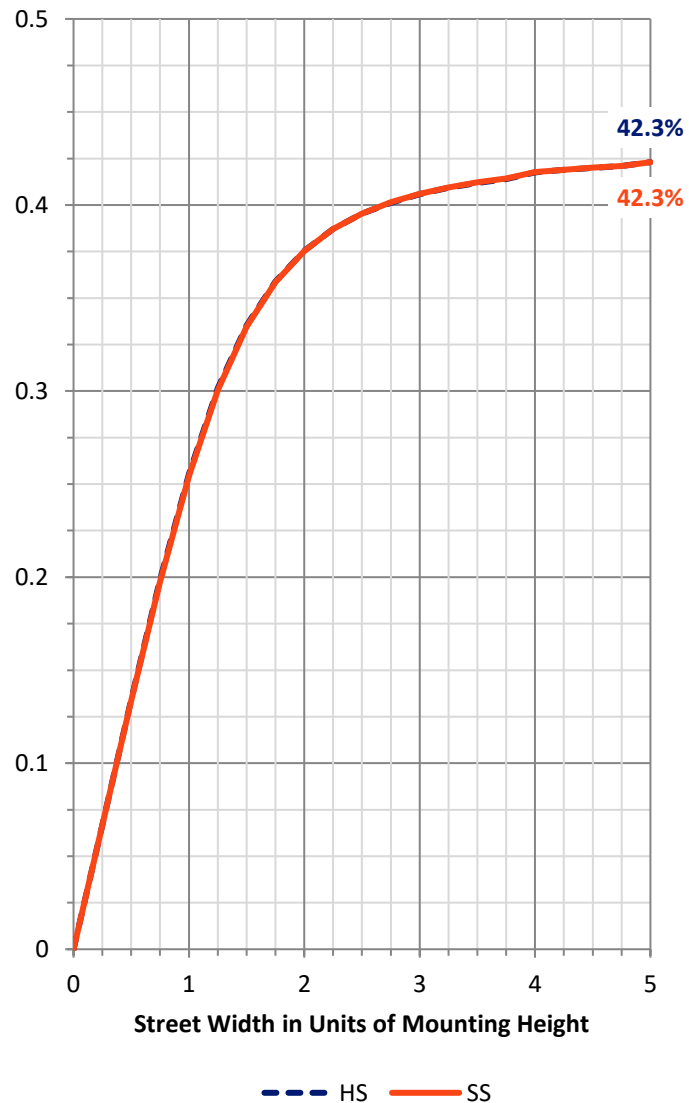
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2389.6	412.0	2801.6
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2389.6	412.0	2801.6
	% Fixture	42.6	7.4	50.0
Total	Lumens	4779.1	824.0	5603.1
	% Fixture	85.3	14.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	0.8
10°-20°	148.2	2.6
20°-30°	301.8	5.4
30°-40°	551.2	9.8
40°-50°	935.9	16.7
50°-60°	1218.9	21.8
60°-70°	985.8	17.6
70°-80°	484.4	8.6
80°-90°	109.2	1.9
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°	4779.1	85.3
0°-180°	5603.1	100.0

Coefficient of Utilization



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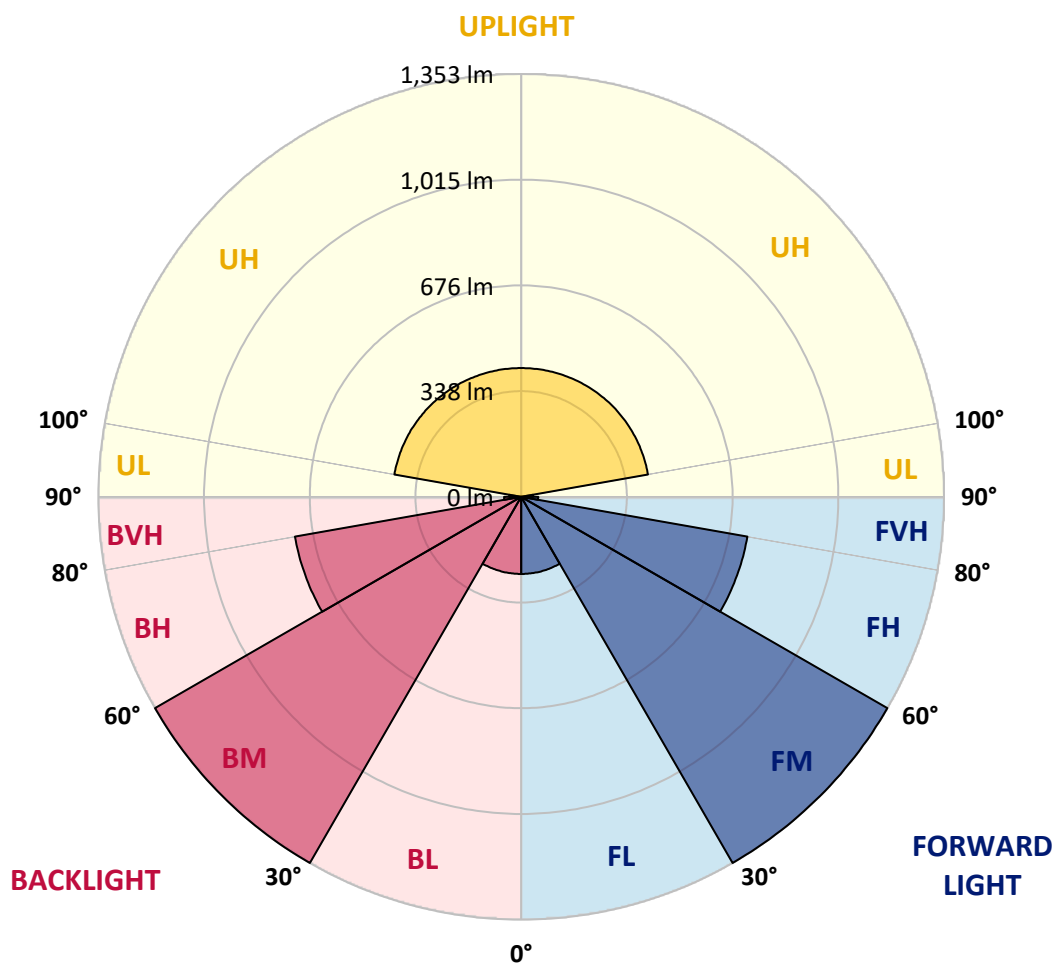
CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.9	4.4			
FM	(30°-60°)	1353.0	24.1			
FH	(60°-80°)	735.1	13.1			G1/1800
FVH	(80°-90°)	54.6	1.0			G1/100
BL	(0°-30°)	246.9	4.4	B1/500		
BM	(30°-60°)	1353.0	24.1	B2/2500		
BH	(60°-80°)	735.1	13.1	B2/1000		G1/1800
BVH	(80°-90°)	54.6	1.0			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.4		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	444.3	444.3	444.3	444.3	444.3	444.3	445.3	445.3	445.3	445.3	445.3
5°	450.2	450.2	450.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2
7.5°	459.0	458.0	459.0	459.0	459.0	460.0	460.0	459.0	460.0	460.0	460.0
10°	471.7	470.7	471.7	471.7	471.7	472.7	472.7	472.7	472.7	473.7	473.7
12.5°	490.3	489.3	490.3	491.3	490.3	491.3	491.3	491.3	491.3	491.3	491.3
15°	513.8	512.8	513.8	514.7	513.8	515.7	515.7	514.7	514.7	515.7	515.7
17.5°	542.0	540.1	541.0	542.0	542.0	544.0	544.0	543.0	544.0	544.9	544.0
20°	571.3	569.4	570.4	573.3	573.3	574.3	576.2	575.3	576.2	577.2	576.2
22.5°	603.6	602.6	603.6	606.5	606.5	607.5	610.4	610.4	610.4	611.4	610.4
25°	638.7	637.7	638.7	641.6	641.6	643.6	647.5	647.5	648.5	649.5	648.5
27.5°	679.8	678.8	680.7	683.7	684.7	687.6	692.5	693.5	694.4	695.4	693.5
30°	727.6	725.6	728.5	733.4	735.4	739.3	745.2	747.1	748.1	751.0	749.1
32.5°	782.3	780.4	784.3	790.1	793.1	798.9	806.8	808.7	811.6	813.5	810.7
35°	846.7	845.8	849.7	858.5	863.4	870.2	881.0	883.9	885.9	889.8	885.9
37.5°	918.0	917.0	923.9	933.7	942.5	953.2	964.9	969.8	972.8	977.7	972.8
40°	997.2	996.2	1004.9	1016.7	1027.4	1041.1	1055.8	1062.6	1068.5	1073.4	1067.5
42.5°	1078.3	1078.3	1089.0	1101.6	1117.3	1133.9	1150.5	1158.3	1168.1	1171.0	1164.2
45°	1156.4	1157.3	1168.1	1183.7	1206.1	1227.6	1246.2	1256.0	1266.7	1269.7	1260.9
47.5°	1230.6	1231.6	1241.3	1261.9	1287.3	1311.6	1334.1	1347.8	1358.5	1359.5	1352.7
50°	1291.1	1295.0	1307.7	1326.3	1352.7	1378.1	1405.4	1423.0	1433.7	1436.7	1429.8
52.5°	1314.6	1321.4	1336.1	1359.5	1389.7	1416.1	1446.4	1468.9	1481.5	1486.4	1480.7
55°	1293.0	1300.9	1318.5	1344.9	1378.1	1411.2	1442.5	1468.9	1486.4	1493.3	1487.4
57.5°	1245.2	1246.2	1263.8	1290.1	1320.4	1354.6	1384.9	1409.3	1425.9	1432.8	1431.8
60°	1162.2	1162.2	1178.9	1204.2	1227.6	1262.8	1288.3	1306.7	1318.5	1326.3	1324.3
62.5°	1050.9	1050.9	1065.5	1091.9	1115.3	1145.6	1170.1	1189.6	1197.3	1206.1	1208.1
65°	926.8	926.8	940.5	966.9	988.4	1015.7	1039.1	1057.7	1065.5	1076.3	1074.3
67.5°	795.0	794.1	806.8	829.1	849.7	875.1	897.6	915.1	923.9	936.6	927.8
70°	659.2	659.2	670.0	687.6	702.2	727.6	749.1	766.7	773.5	784.3	779.4
72.5°	530.3	529.3	538.1	551.8	563.5	586.0	598.7	618.3	624.0	638.7	630.9
75°	414.1	412.2	419.0	428.8	436.5	451.2	461.0	476.6	481.5	491.3	487.4
77.5°	311.6	310.6	313.5	320.4	326.2	337.9	341.8	349.6	353.5	363.3	355.5
80°	223.7	220.8	223.7	227.6	229.6	238.4	239.2	242.2	244.1	251.0	243.1
82.5°	150.4	146.5	148.4	151.3	151.3	156.2	157.2	156.2	160.1	162.1	158.2
85°	85.9	83.0	84.0	85.9	85.0	87.9	87.9	86.9	89.8	89.8	87.9
87.5°	28.4	26.4	27.4	28.4	28.4	29.3	30.3	29.3	31.3	31.3	29.3
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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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°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3
5°	451.2	451.2	451.2	451.2	451.2	450.2	450.2	450.2
7.5°	460.0	460.0	460.0	460.0	460.0	459.0	459.0	459.0
10°	473.7	472.7	472.7	472.7	472.7	471.7	472.7	471.7
12.5°	491.3	492.2	492.2	491.3	492.2	490.3	490.3	490.3
15°	515.7	514.7	514.7	514.7	514.7	513.8	513.8	513.8
17.5°	543.0	543.0	542.0	542.0	541.0	540.1	540.1	540.1
20°	575.3	574.3	573.3	572.3	571.3	569.4	568.4	568.4
22.5°	608.5	607.5	606.5	605.6	604.6	602.6	600.7	600.7
25°	645.5	643.6	642.6	640.7	638.7	636.7	635.8	634.8
27.5°	690.5	688.6	685.6	682.7	678.8	677.8	675.9	675.9
30°	744.2	741.3	737.3	732.5	728.5	724.6	722.7	721.7
32.5°	806.8	802.9	796.0	790.1	783.3	779.4	776.5	774.5
35°	880.0	874.1	866.3	857.5	848.7	841.9	837.0	837.0
37.5°	965.9	957.1	945.4	934.6	921.9	914.1	908.2	904.4
40°	1059.7	1047.0	1032.3	1018.6	1004.0	993.3	984.5	985.5
42.5°	1152.5	1141.7	1124.1	1107.5	1089.0	1074.3	1063.6	1062.6
45°	1250.1	1236.4	1214.9	1193.5	1172.0	1154.4	1141.7	1139.7
47.5°	1340.9	1326.3	1300.9	1274.6	1251.1	1231.6	1217.9	1215.9
50°	1415.2	1397.6	1371.3	1342.9	1317.5	1296.0	1281.4	1277.5
52.5°	1463.1	1443.5	1415.2	1381.0	1353.7	1329.2	1311.6	1306.7
55°	1470.9	1445.5	1415.2	1377.1	1346.8	1319.4	1299.9	1294.0
57.5°	1417.1	1389.7	1362.5	1329.2	1298.9	1269.7	1254.0	1246.2
60°	1312.6	1291.1	1268.7	1238.4	1214.0	1186.7	1174.0	1170.1
62.5°	1192.5	1174.0	1153.4	1122.2	1101.6	1077.3	1065.5	1060.7
65°	1063.6	1042.1	1022.5	997.2	974.7	954.2	937.6	935.6
67.5°	920.9	898.6	881.9	859.5	837.0	817.4	806.8	800.9
70°	770.6	752.0	735.4	711.0	696.4	677.8	670.0	664.1
72.5°	621.1	610.4	589.9	574.3	557.7	543.0	538.1	532.2
75°	480.5	467.8	452.2	442.4	429.8	422.0	418.0	414.1
77.5°	352.5	341.8	333.1	329.2	323.3	315.5	312.6	309.6
80°	244.1	239.2	233.5	232.5	228.6	222.7	221.7	220.8
82.5°	158.2	155.3	153.3	153.3	151.3	147.4	146.5	146.5
85°	87.9	86.9	87.9	86.9	85.0	83.0	83.0	83.0
87.5°	29.3	29.3	30.3	31.3	28.4	28.4	27.4	27.4
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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CATALOG NUMBER: TT-C4-LED-E1-WQ-SG-MS/DIM-8030-UPL

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)