

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: P198410

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198410
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-CG-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5562.8 lumens
Efficiency: N/A
Efficacy: 89.1 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): 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

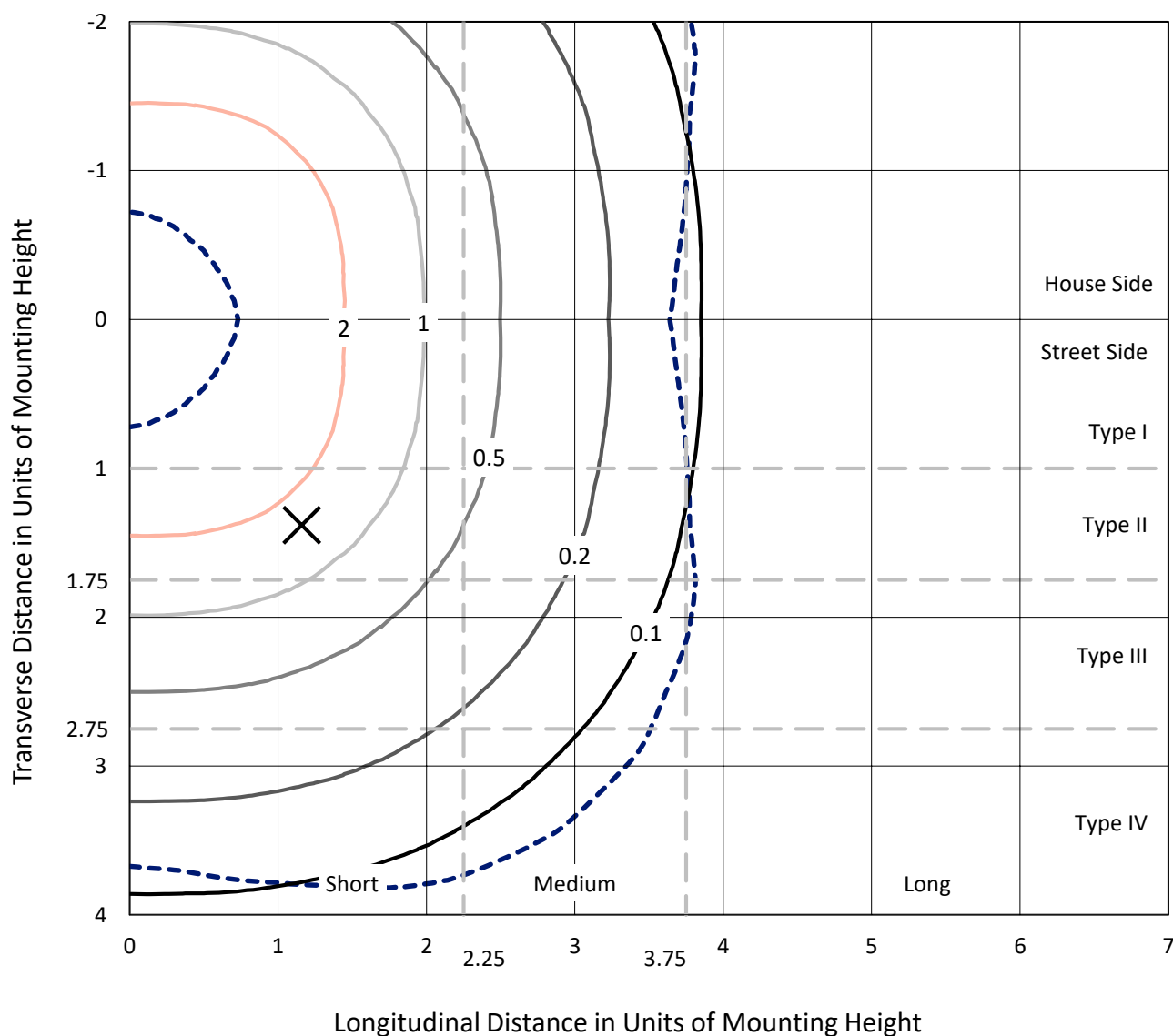


REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

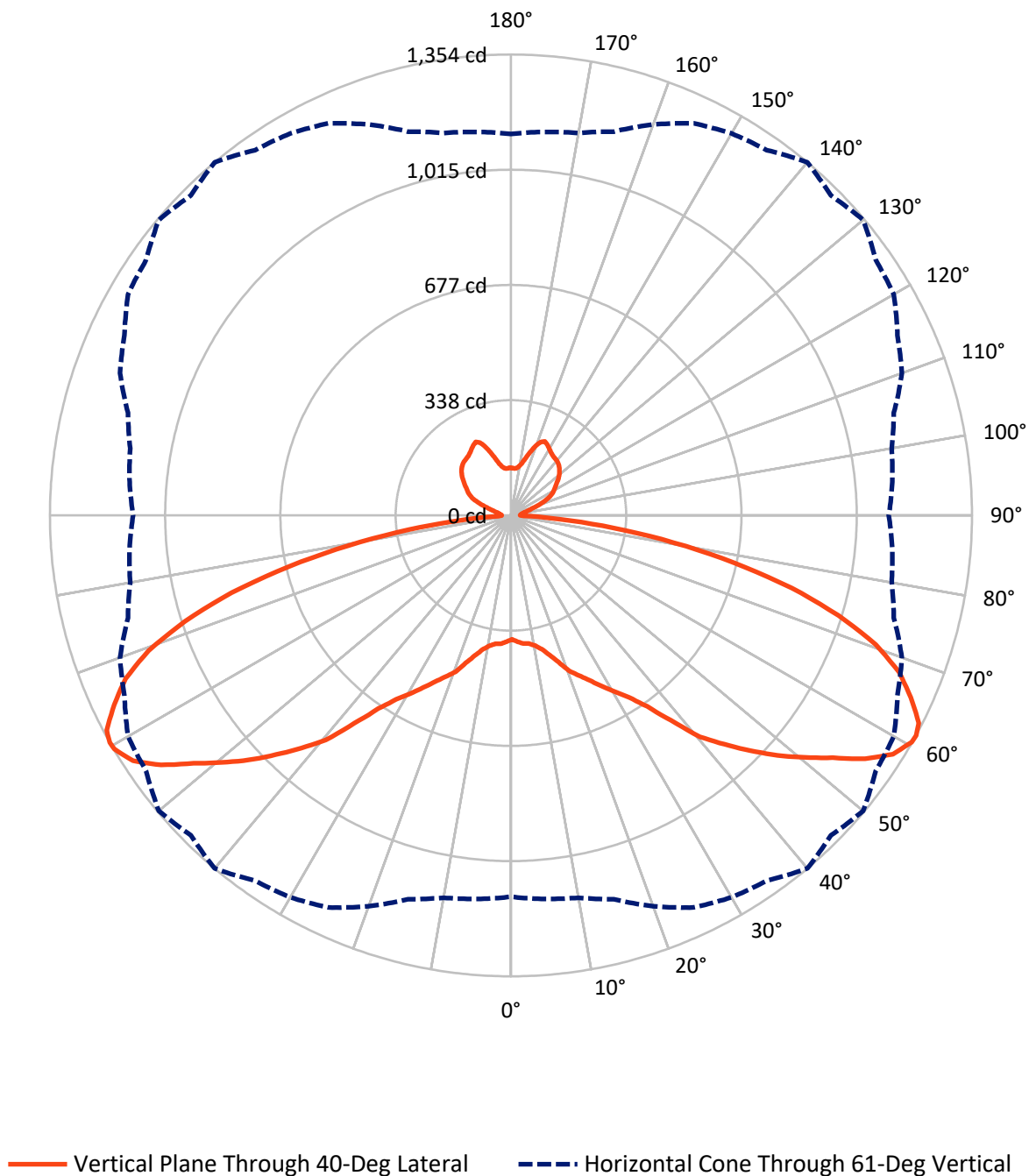


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

Luminous Intensity Polar Plot



REPORT NUMBER: P198410

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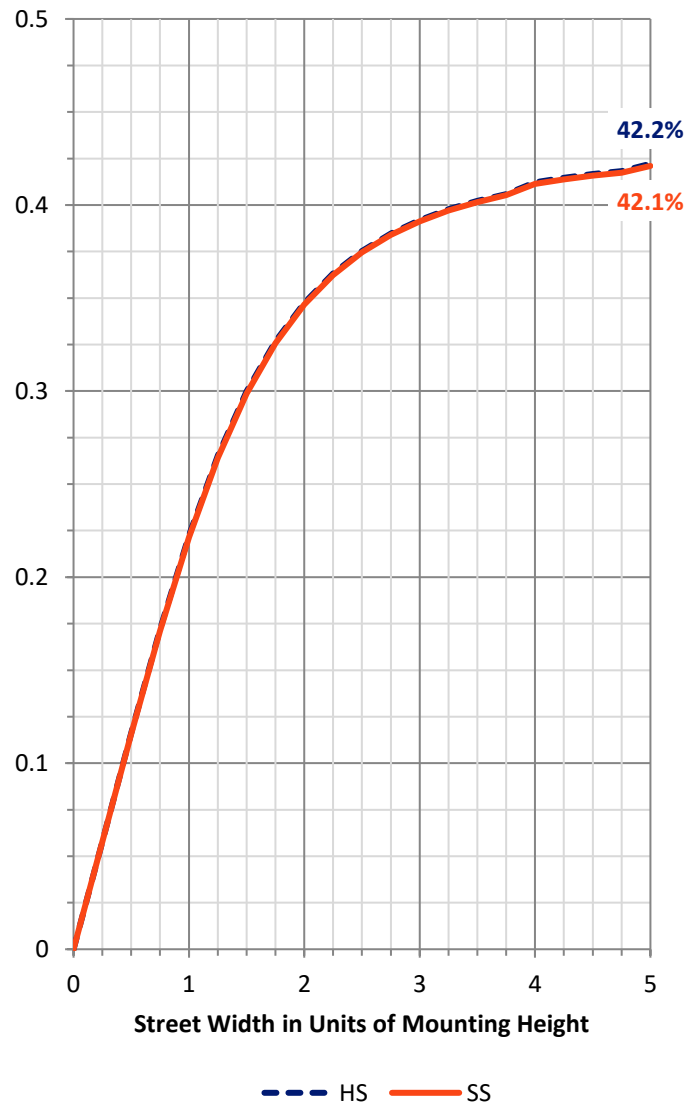
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2369.4	412.0	2781.4
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2369.4	412.0	2781.4
	% Fixture	42.6	7.4	50.0
Total	Lumens	4738.9	824.0	5562.8
	% Fixture	85.2	14.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	0.7
10°-20°	122.4	2.2
20°-30°	248.3	4.5
30°-40°	431.8	7.8
40°-50°	726.8	13.1
50°-60°	1047.1	18.8
60°-70°	1161.9	20.9
70°-80°	789.1	14.2
80°-90°	175.3	3.2
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	2.8
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°	4738.9	85.2
0°-180°	5562.8	100.0

Coefficient of Utilization



REPORT NUMBER: P198410

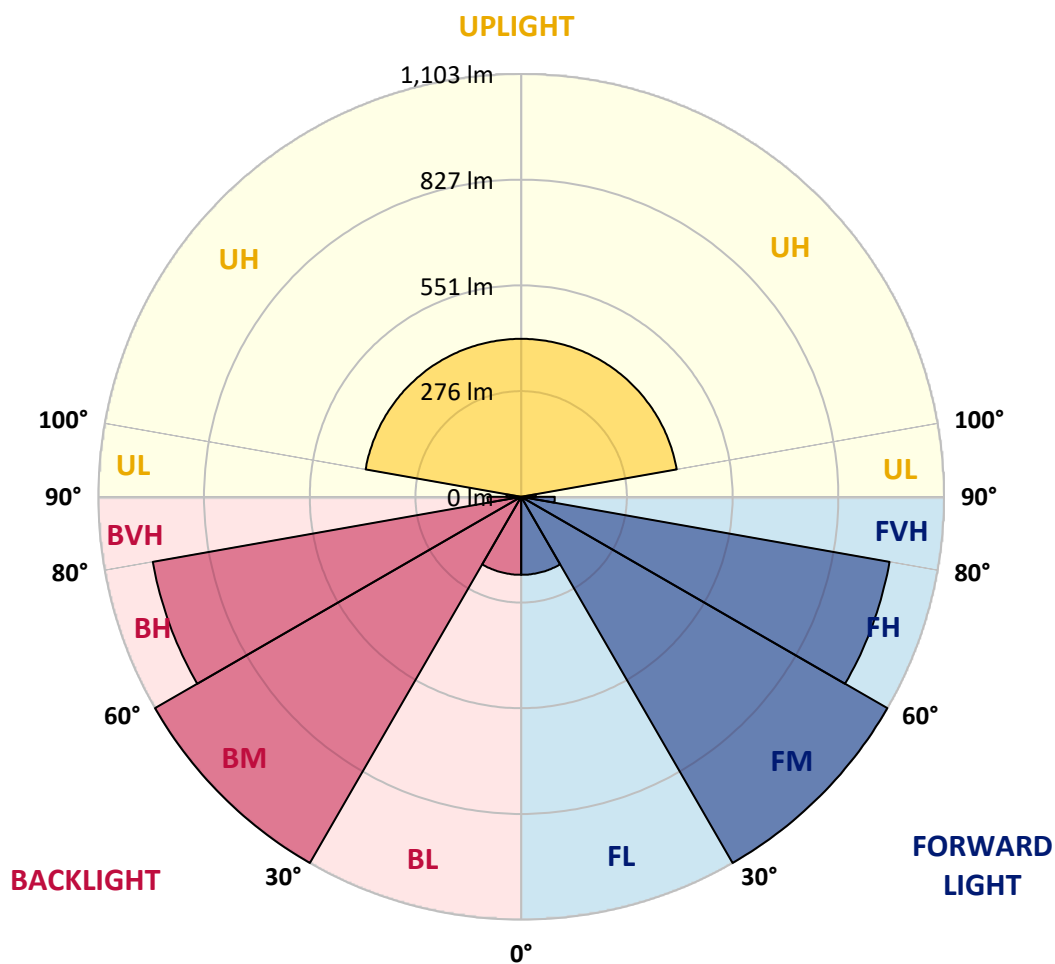
CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.5	3.7			
FM	(30°-60°)	1102.8	19.8			
FH	(60°-80°)	975.5	17.5			G1/1800
FVH	(80°-90°)	87.6	1.6			G1/100
BL	(0°-30°)	203.5	3.7	B1/500		
BM	(30°-60°)	1102.8	19.8	B2/2500		
BH	(60°-80°)	975.5	17.5	B2/1000		G1/1800
BVH	(80°-90°)	87.6	1.6			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



REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	372.3	372.3	372.3	372.3	372.3	371.4	372.3	371.4	371.4	371.4	371.4
5°	375.2	376.2	376.2	376.2	376.2	377.1	377.1	378.1	378.1	378.1	378.1
7.5°	378.1	378.1	378.1	378.1	378.1	378.1	379.0	379.0	380.0	380.0	381.0
10°	389.6	389.6	390.5	390.5	389.6	389.6	389.6	388.6	388.6	387.7	387.7
12.5°	405.8	405.8	406.8	407.8	407.8	406.8	405.8	403.9	403.0	403.0	403.0
15°	418.3	419.3	421.2	423.1	424.0	424.0	425.0	425.0	425.0	424.0	423.1
17.5°	442.2	442.2	443.2	444.1	444.1	445.1	447.0	448.9	452.8	453.7	450.8
20°	476.7	477.6	480.5	479.6	479.6	481.5	483.4	484.3	487.2	489.1	489.1
22.5°	502.5	504.4	508.3	508.3	507.3	508.3	510.2	510.2	510.2	509.2	511.1
25°	522.6	524.5	527.4	527.4	529.3	534.1	539.9	538.9	536.0	536.0	535.1
27.5°	549.4	550.4	552.3	552.3	555.2	558.0	561.9	565.7	567.6	566.7	564.7
30°	582.9	584.8	586.8	583.9	588.7	591.5	593.5	593.5	601.1	604.9	598.2
32.5°	607.8	611.6	615.5	618.3	627.9	632.7	629.8	632.7	636.5	640.4	640.4
35°	649.0	652.8	655.7	657.6	667.2	673.9	681.5	689.2	688.2	685.3	691.1
37.5°	708.3	712.2	715.0	718.9	731.3	736.1	741.8	758.1	763.8	756.2	760.0
40°	771.5	778.2	787.8	799.3	817.4	823.2	832.8	844.2	854.8	858.6	849.0
42.5°	826.1	833.7	835.6	853.8	875.8	893.1	906.5	909.3	918.9	927.5	920.8
45°	884.4	891.1	895.9	911.2	923.7	947.6	969.6	980.2	985.0	984.0	991.7
47.5°	939.0	946.7	953.4	969.6	985.0	1005.1	1019.4	1044.3	1052.9	1041.4	1053.9
50°	972.5	982.1	990.7	1021.3	1048.1	1069.2	1080.7	1101.7	1117.0	1109.4	1112.3
52.5°	1028.0	1031.9	1038.6	1055.8	1091.2	1140.0	1151.5	1163.0	1182.1	1191.7	1174.5
55°	1098.9	1109.4	1119.0	1141.0	1159.2	1195.5	1248.2	1262.5	1261.6	1291.3	1264.5
57.5°	1114.2	1129.5	1148.6	1188.8	1224.2	1245.3	1278.8	1319.0	1322.8	1324.8	1328.6
60°	1116.1	1125.7	1138.1	1171.6	1233.8	1272.1	1291.3	1317.1	1351.6	1326.7	1352.5
61°	1119.9	1130.4	1140.0	1166.8	1221.4	1270.2	1295.1	1309.4	1353.5	1328.6	1349.6
62.5°	1113.2	1125.7	1140.0	1165.9	1202.2	1252.0	1299.9	1299.9	1343.9	1327.6	1339.1
65°	1073.0	1084.5	1112.3	1145.8	1189.8	1215.6	1265.4	1297.0	1290.3	1319.0	1290.3
67.5°	1005.1	1014.6	1038.6	1077.8	1125.7	1162.0	1185.0	1235.7	1229.0	1258.7	1226.2
70°	909.3	921.8	951.4	978.3	1023.2	1061.5	1092.2	1122.8	1136.2	1133.3	1135.2
72.5°	794.5	803.1	829.9	859.6	895.0	938.0	965.8	985.0	1006.0	1005.1	1008.9
75°	661.4	669.1	692.0	714.1	748.5	782.0	813.6	833.7	850.9	850.0	846.2
77.5°	510.2	518.8	544.6	563.8	580.1	617.4	641.3	654.7	669.1	669.1	671.0
80°	356.1	361.8	381.9	402.0	417.3	435.5	466.2	469.0	485.3	481.5	485.3
82.5°	214.4	218.2	233.6	245.0	255.6	272.8	287.2	292.9	302.5	298.6	304.4
85°	96.7	98.6	108.2	114.9	119.6	129.2	136.9	139.8	144.5	143.6	147.4
87.5°	20.1	22.0	24.9	26.8	27.8	31.6	34.5	34.5	36.4	36.4	37.3
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

REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-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

REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	371.4	372.3	371.4	371.4	371.4	372.3	371.4	372.3
5°	378.1	378.1	378.1	377.1	376.2	376.2	376.2	375.2
7.5°	381.9	381.9	381.0	380.0	379.0	380.0	380.0	380.0
10°	389.6	391.5	392.4	392.4	391.5	391.5	391.5	390.5
12.5°	403.0	403.9	406.8	407.8	408.7	407.8	404.9	403.9
15°	421.2	421.2	422.1	424.0	424.0	420.2	417.3	416.4
17.5°	447.0	446.1	444.1	444.1	445.1	443.2	440.3	440.3
20°	486.3	482.4	480.5	477.6	480.5	480.5	474.8	471.9
22.5°	514.0	510.2	505.4	502.5	506.4	509.2	502.5	498.7
25°	537.9	538.9	531.2	527.4	528.4	530.3	521.7	520.7
27.5°	562.8	564.7	560.9	554.2	552.3	556.1	549.4	547.5
30°	593.5	592.5	594.4	585.8	582.0	584.8	583.9	579.1
32.5°	633.7	628.9	630.8	623.1	615.5	615.5	609.7	604.0
35°	689.2	678.6	673.9	669.1	654.7	655.7	650.9	646.1
37.5°	761.9	745.7	732.3	735.1	714.1	712.2	709.3	702.6
40°	845.2	837.5	822.2	813.6	791.6	781.1	777.2	764.8
42.5°	907.4	909.3	886.4	871.0	853.8	835.6	833.7	821.3
45°	974.4	967.7	946.7	921.8	914.1	892.1	889.2	876.8
47.5°	1041.4	1018.5	1006.0	980.2	967.7	940.0	941.9	930.4
50°	1104.6	1077.8	1066.3	1035.7	1016.5	988.8	982.1	962.9
52.5°	1171.6	1146.7	1128.5	1089.3	1061.5	1040.5	1029.0	1021.3
55°	1261.6	1236.7	1195.5	1159.2	1136.2	1101.7	1097.9	1084.5
57.5°	1303.7	1285.5	1240.5	1214.7	1173.5	1138.1	1126.6	1099.8
60°	1308.5	1300.8	1253.0	1228.1	1167.8	1139.1	1124.7	1108.4
61°	1307.5	1298.0	1252.0	1221.4	1163.9	1135.2	1123.7	1109.4
62.5°	1303.7	1292.2	1241.5	1209.9	1156.3	1128.5	1119.0	1097.9
65°	1291.3	1259.7	1215.6	1186.9	1128.5	1103.6	1080.7	1059.6
67.5°	1236.7	1177.3	1159.2	1122.8	1063.4	1035.7	1014.6	996.4
70°	1119.9	1080.7	1061.5	1016.5	968.7	945.7	921.8	898.8
72.5°	983.0	957.2	940.9	886.4	850.9	828.0	806.0	783.9
75°	829.9	810.7	781.1	739.9	708.3	685.3	665.2	654.7
77.5°	651.8	639.4	616.4	575.3	558.0	537.9	517.8	501.6
80°	469.0	459.5	441.3	411.6	397.2	377.1	362.8	349.4
82.5°	291.9	284.3	273.8	251.7	246.0	233.6	220.2	210.6
85°	139.8	135.0	131.1	116.8	115.8	105.3	100.5	94.8
87.5°	36.4	35.4	33.5	28.7	27.8	24.9	23.0	20.1
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

REPORT NUMBER: P198410

CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-8030-UPL

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)