

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: P833553

Luminaire Tested: **TTN-D2-740-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833553
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TTN-D2-740-U-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6128.7 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

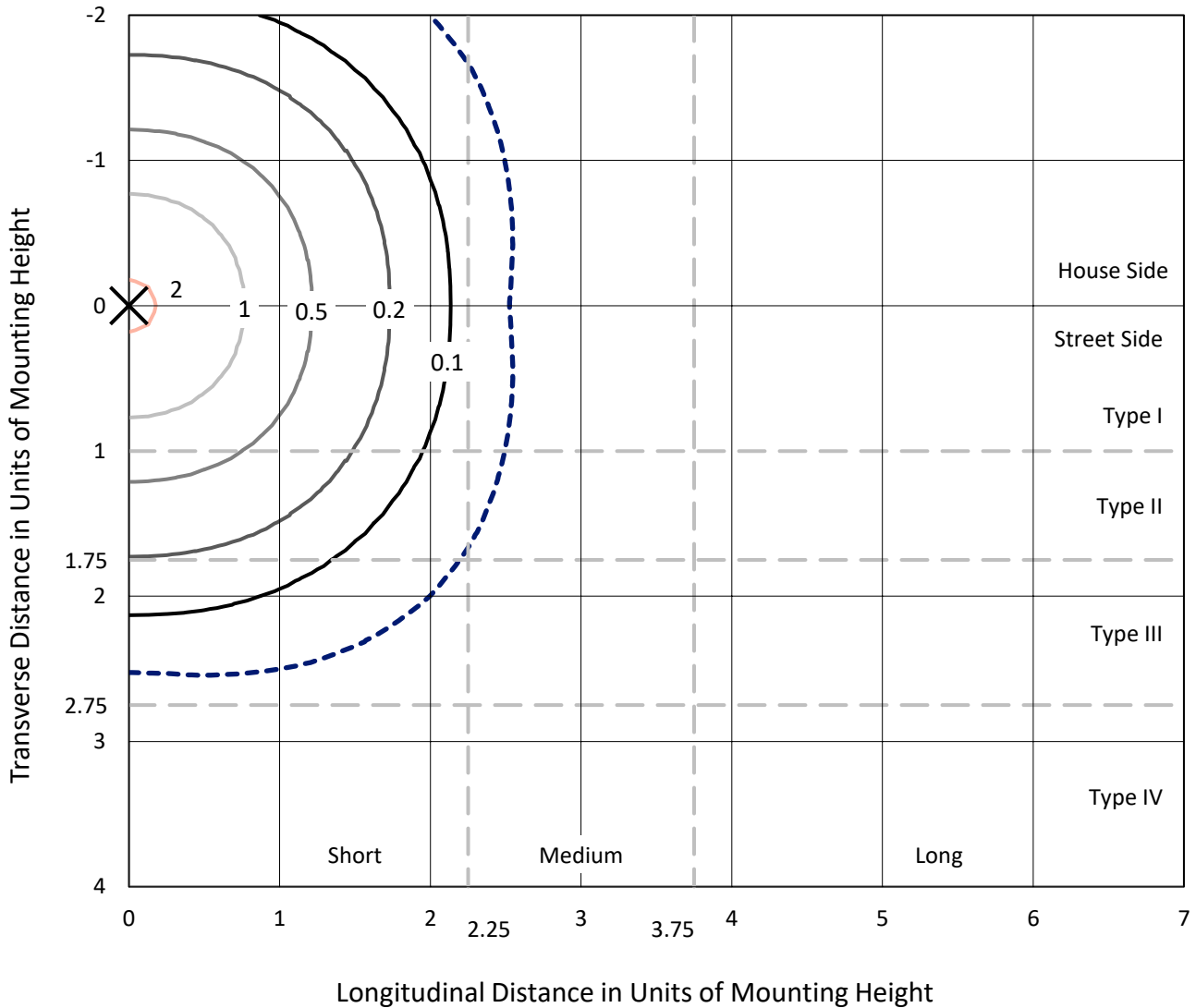
Input Watts (W): 49.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833553
 CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

Iso-Footcandle Lines of Horizontal Illumination

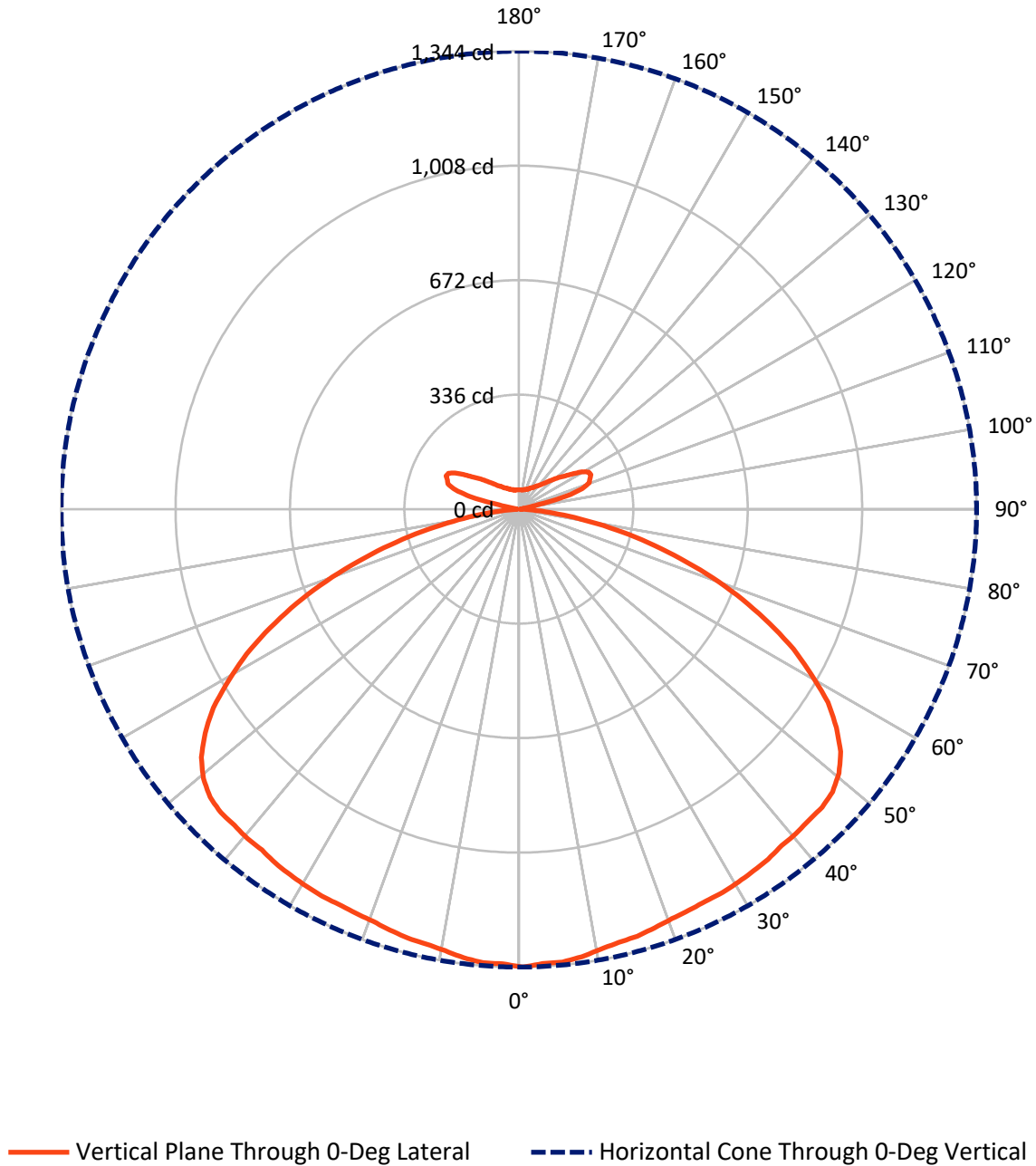
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P833553
CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

Luminous Intensity Polar Plot



REPORT NUMBER: P833553
 CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

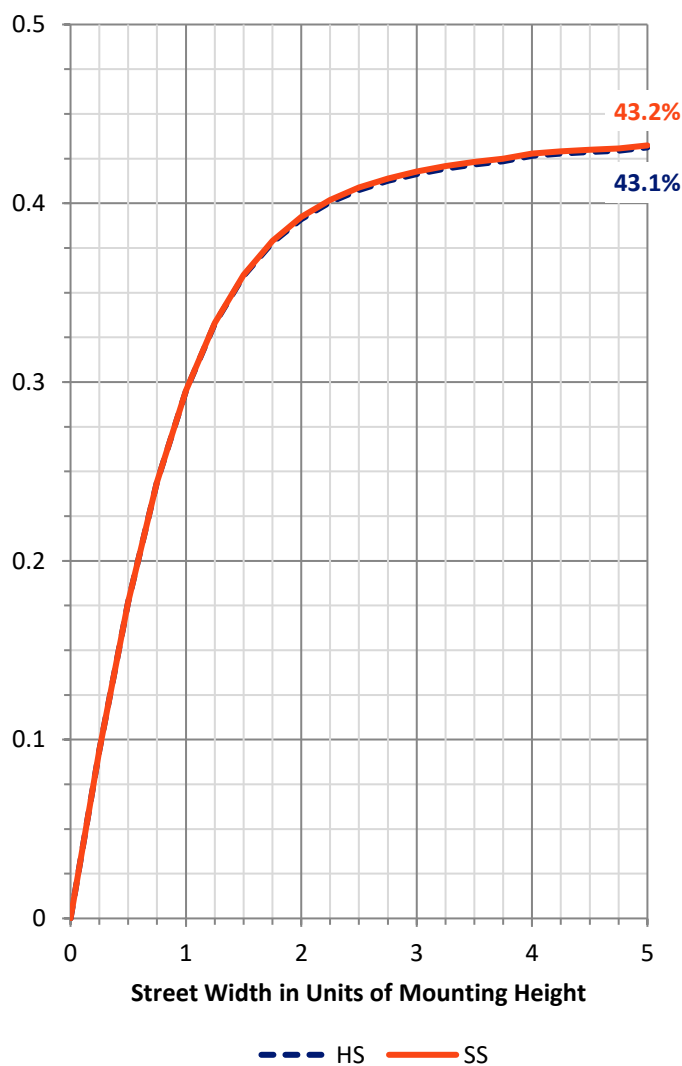
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.6	405.8	3064.3
	% Fixture	43.4	6.6	50.0
Street Side	Lumens	2658.6	405.8	3064.3
	% Fixture	43.4	6.6	50.0
Total	Lumens	5317.1	811.5	6128.7
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	2.1
10°-20°	368.0	6.0
20°-30°	592.6	9.7
30°-40°	797.1	13.0
40°-50°	983.4	16.0
50°-60°	1055.1	17.2
60°-70°	855.6	14.0
70°-80°	453.5	7.4
80°-90°	85.0	1.4
90°-100°	18.1	0.3
100°-110°	184.1	3.0
110°-120°	269.1	4.4
120°-130°	156.2	2.5
130°-140°	82.7	1.4
140°-150°	49.1	0.8
150°-160°	30.3	0.5
160°-170°	16.5	0.3
170°-180°	5.4	0.1
0°-90°	5317.1	86.8
0°-180°	6128.7	100.0

Coefficient of Utilization

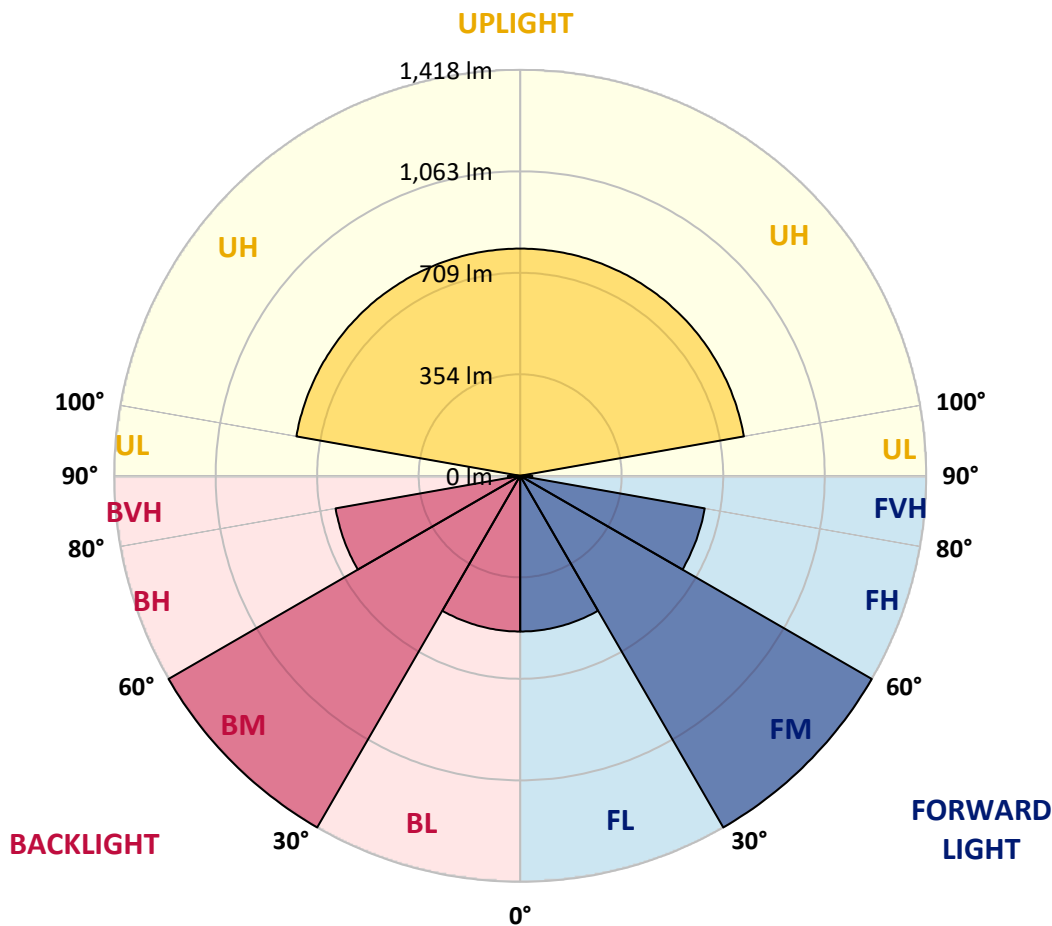


REPORT NUMBER: P833553
 CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.7	8.9			
FM (30°-60°)	1417.8	23.1			
FH (60°-80°)	654.6	10.7			G0/660
FVH (80°-90°)	42.5	0.7			G1/100
BL (0°-30°)	543.7	8.9	B2/1000		
BM (30°-60°)	1417.8	23.1	B2/2500		
BH (60°-80°)	654.6	10.7	B2/1000		G0/660
BVH (80°-90°)	42.5	0.7			G1/100
UL (90°-100°)	18.1	0.3		U2/50	
UH (100°-180°)	793.4	12.9		U4/1000	

BUG Rating: B2-U4-G1
 Type V Short





REPORT NUMBER: P833553
 CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2
2.5°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1339.9
5°	1335.5	1335.5	1335.5	1335.5	1331.2	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
7.5°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
10°	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8	1313.8
12.5°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
15°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1296.4	1296.4
17.5°	1292.0	1292.0	1292.0	1292.0	1296.4	1296.4	1296.4	1292.0	1292.0	1292.0	1292.0
20°	1283.3	1283.3	1283.3	1287.7	1287.7	1287.7	1287.7	1287.7	1283.3	1283.3	1283.3
22.5°	1279.0	1279.0	1279.0	1279.0	1283.3	1283.3	1283.3	1283.3	1279.0	1279.0	1279.0
25°	1274.6	1274.6	1279.0	1279.0	1283.3	1283.3	1283.3	1279.0	1279.0	1274.6	1274.6
27.5°	1274.6	1274.6	1279.0	1279.0	1283.3	1283.3	1283.3	1283.3	1279.0	1274.6	1274.6
30°	1270.3	1274.6	1274.6	1279.0	1283.3	1283.3	1283.3	1279.0	1274.6	1270.3	1270.3
32.5°	1265.9	1265.9	1270.3	1274.6	1279.0	1279.0	1279.0	1274.6	1270.3	1265.9	1261.6
35°	1261.6	1261.6	1261.6	1270.3	1274.6	1274.6	1274.6	1270.3	1261.6	1257.2	1257.2
37.5°	1252.9	1252.9	1261.6	1265.9	1274.6	1274.6	1274.6	1265.9	1257.2	1252.9	1248.5
40°	1252.9	1252.9	1261.6	1265.9	1279.0	1279.0	1274.6	1265.9	1257.2	1248.5	1244.2
42.5°	1248.5	1252.9	1261.6	1274.6	1287.7	1287.7	1283.3	1270.3	1257.2	1248.5	1244.2
45°	1248.5	1248.5	1261.6	1279.0	1296.4	1300.7	1292.0	1279.0	1261.6	1244.2	1244.2
47.5°	1239.8	1239.8	1257.2	1279.0	1300.7	1305.1	1300.7	1279.0	1257.2	1244.2	1239.8
50°	1218.1	1218.1	1239.8	1265.9	1292.0	1300.7	1292.0	1274.6	1244.2	1226.8	1222.4
52.5°	1183.3	1183.3	1205.0	1239.8	1265.9	1279.0	1270.3	1248.5	1218.1	1192.0	1187.6
55°	1131.1	1135.4	1157.2	1196.3	1226.8	1239.8	1231.1	1205.0	1170.2	1144.1	1135.4
57.5°	1070.2	1070.2	1100.6	1139.8	1170.2	1183.3	1174.6	1148.5	1109.3	1083.2	1074.5
60°	987.5	991.9	1018.0	1070.2	1100.6	1113.7	1105.0	1074.5	1031.0	1000.6	991.9
62.5°	904.9	909.2	935.3	978.8	1013.6	1022.3	1013.6	983.2	944.0	913.6	904.9
65°	809.1	813.5	843.9	883.1	909.2	922.3	909.2	883.1	848.3	817.8	813.5
67.5°	709.1	713.4	743.9	778.7	804.8	813.5	800.4	778.7	743.9	717.8	709.1
70°	604.7	609.0	635.1	665.6	687.3	696.0	687.3	661.2	635.1	609.0	604.7
72.5°	495.9	500.3	526.4	552.5	569.9	578.6	565.5	548.1	522.0	500.3	495.9
75°	391.5	391.5	413.3	435.0	452.4	456.8	448.1	435.0	413.3	395.9	387.2
77.5°	291.5	291.5	313.2	326.3	335.0	343.7	335.0	321.9	308.9	291.5	291.5
80°	195.8	195.8	213.2	221.9	230.6	234.9	230.6	221.9	213.2	200.1	195.8
82.5°	117.5	117.5	126.2	134.9	134.9	139.2	139.2	134.9	126.2	117.5	117.5
85°	52.2	47.9	56.6	60.9	60.9	65.3	65.3	60.9	56.6	52.2	52.2
87.5°	4.4	8.7	8.7	13.1	13.1	13.1	13.1	13.1	8.7	8.7	8.7
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



REPORT NUMBER: P833553
 CATALOG NUMBER: TTN-D2-740-U-CQ-UPL3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)