

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: P833562

Luminaire Tested: **TTN-D2-740-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833562
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-MQ-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6172.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

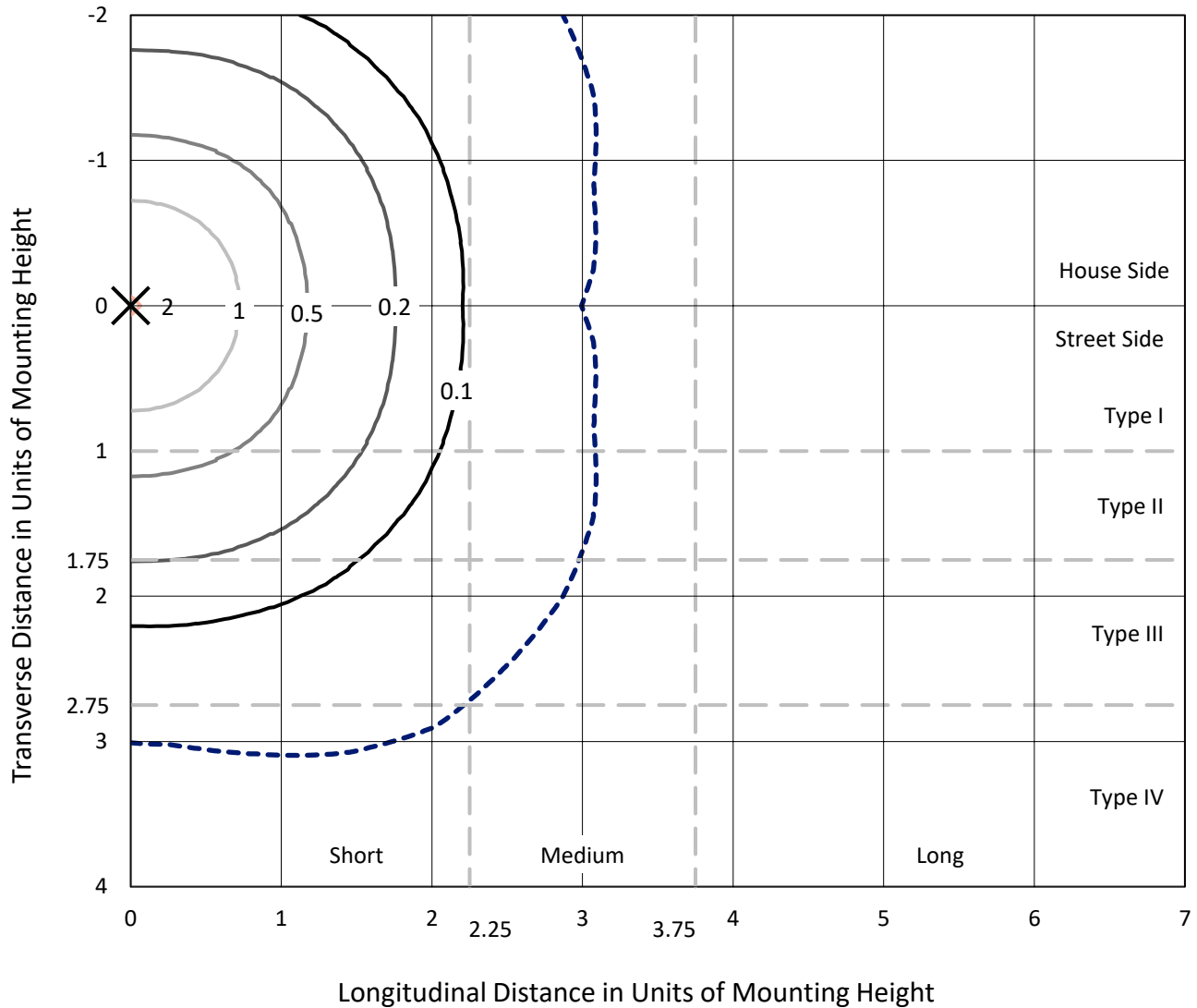
Input Watts (W): 49.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

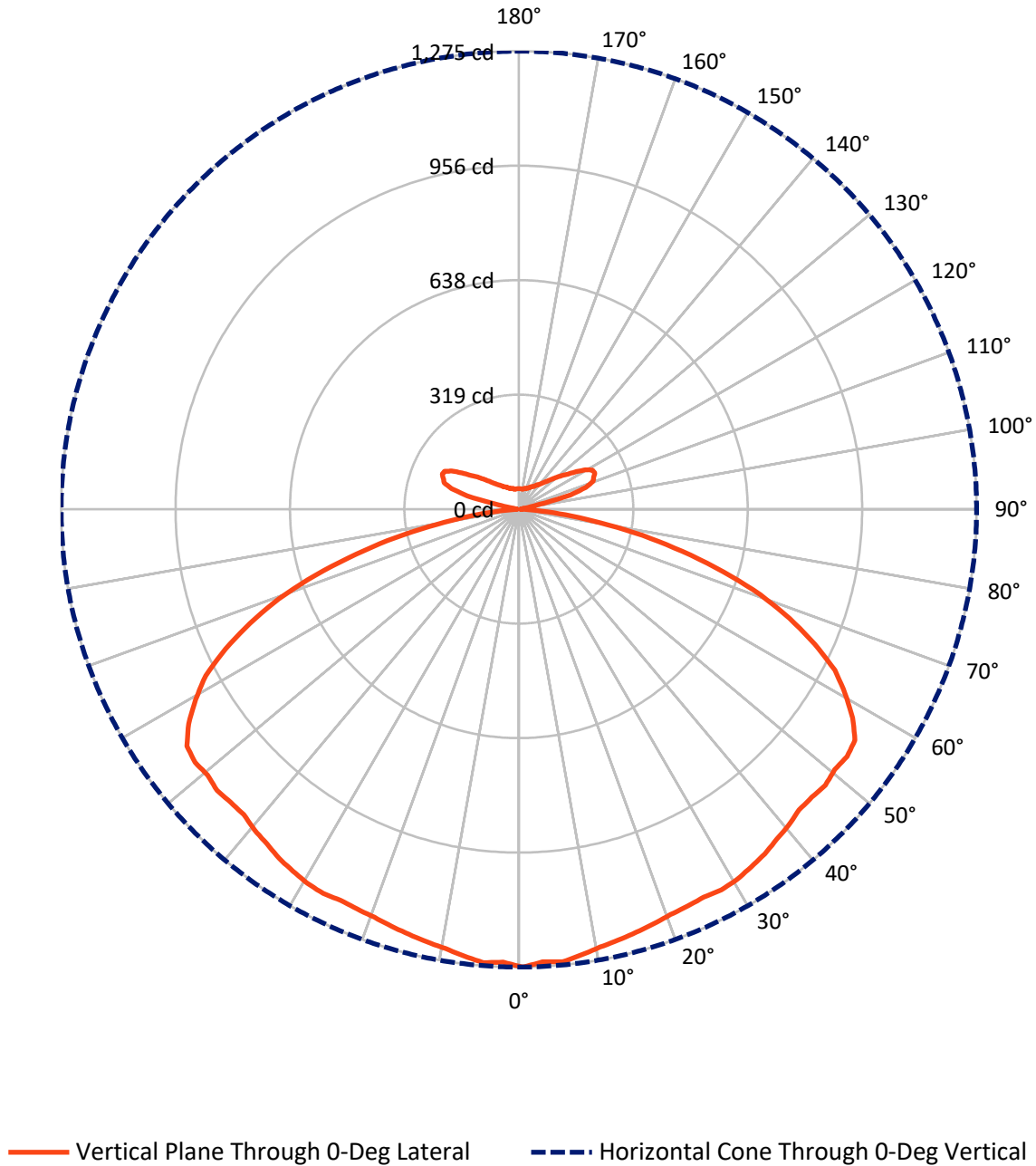
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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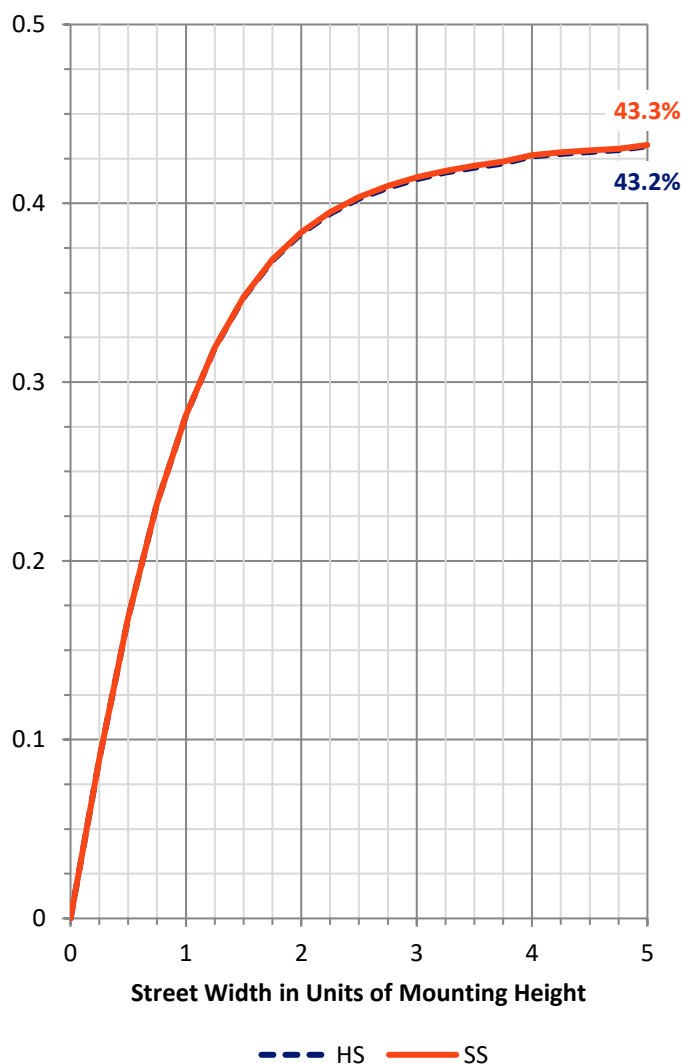
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.5	405.8	3086.3
	% Fixture	43.4	6.6	50.0
Street Side	Lumens	2680.5	405.8	3086.3
	% Fixture	43.4	6.6	50.0
Total	Lumens	5361.1	811.5	6172.6
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.9
10°-20°	346.4	5.6
20°-30°	557.3	9.0
30°-40°	744.4	12.1
40°-50°	904.5	14.7
50°-60°	1050.9	17.0
60°-70°	969.6	15.7
70°-80°	567.6	9.2
80°-90°	100.5	1.6
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	1.3
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°	5361.1	86.9
0°-180°	6172.6	100.0

Coefficient of Utilization

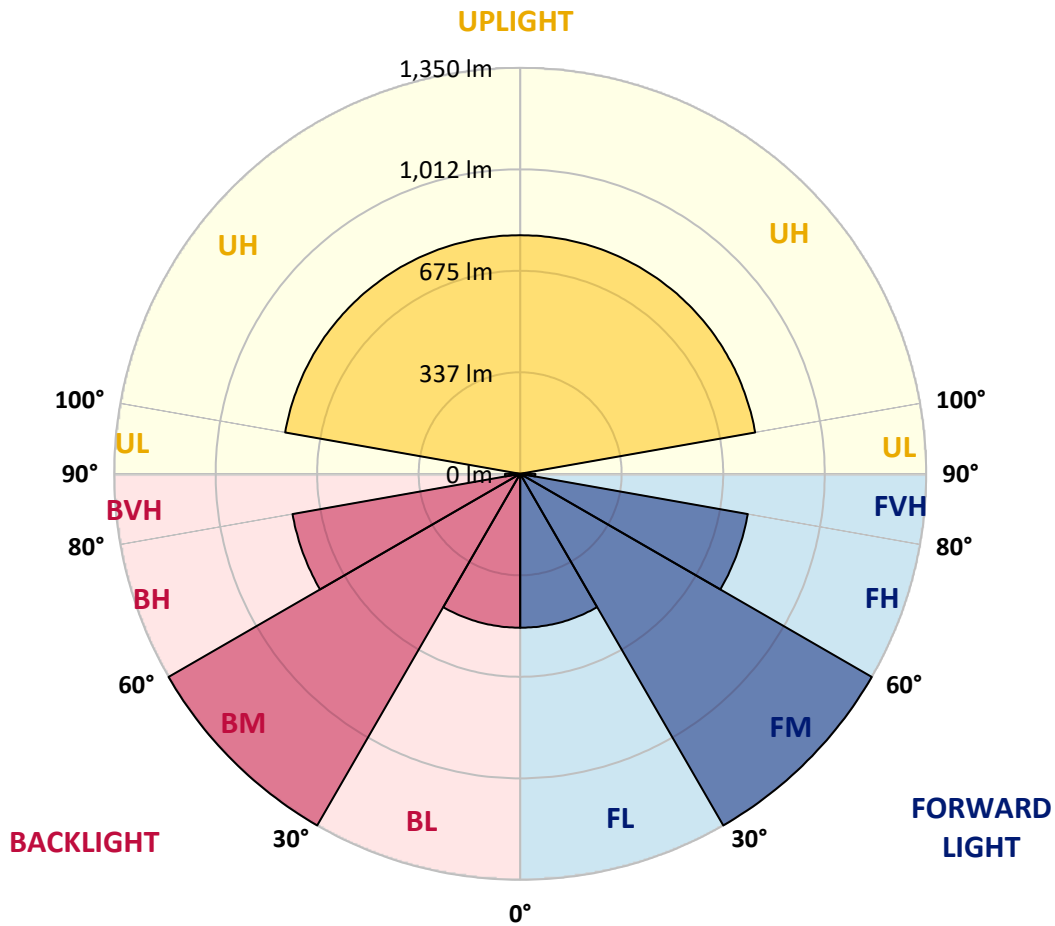


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 CATALOG NUMBER: TTN-D2-740-U-MQ-CG-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.7	8.3			
FM (30°-60°)	1349.9	21.9			
FH (60°-80°)	768.6	12.5			G1/1800
FVH (80°-90°)	50.3	0.8			G1/100
BL (0°-30°)	511.7	8.3	B2/1000		
BM (30°-60°)	1349.9	21.9	B2/2500		
BH (60°-80°)	768.6	12.5	B2/1000		G1/1800
BVH (80°-90°)	50.3	0.8			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1
2.5°	1262.1	1266.4	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1266.4
5°	1266.4	1266.4	1266.4	1266.4	1262.1	1262.1	1262.1	1262.1	1262.1	1266.4	1266.4
7.5°	1253.4	1253.4	1253.4	1253.4	1253.4	1249.0	1253.4	1253.4	1253.4	1253.4	1253.4
10°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
12.5°	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1227.3	1227.3
15°	1222.9	1222.9	1222.9	1222.9	1227.3	1227.3	1222.9	1222.9	1222.9	1222.9	1222.9
17.5°	1214.2	1214.2	1214.2	1214.2	1218.6	1218.6	1218.6	1214.2	1214.2	1214.2	1214.2
20°	1205.5	1205.5	1205.5	1205.5	1209.9	1209.9	1209.9	1209.9	1209.9	1205.5	1205.5
22.5°	1201.1	1201.1	1201.1	1201.1	1205.5	1205.5	1205.5	1205.5	1201.1	1201.1	1201.1
25°	1196.8	1201.1	1201.1	1201.1	1205.5	1209.9	1209.9	1205.5	1201.1	1196.8	1196.8
27.5°	1201.1	1201.1	1201.1	1205.5	1205.5	1209.9	1209.9	1205.5	1201.1	1201.1	1201.1
30°	1196.8	1196.8	1196.8	1201.1	1205.5	1209.9	1205.5	1205.5	1201.1	1196.8	1196.8
32.5°	1188.1	1188.1	1192.4	1196.8	1201.1	1201.1	1201.1	1196.8	1192.4	1188.1	1188.1
35°	1179.4	1179.4	1179.4	1183.7	1192.4	1192.4	1192.4	1188.1	1183.7	1179.4	1175.0
37.5°	1166.3	1170.7	1170.7	1179.4	1183.7	1188.1	1183.7	1179.4	1170.7	1166.3	1166.3
40°	1157.6	1157.6	1162.0	1170.7	1179.4	1179.4	1175.0	1170.7	1162.0	1157.6	1157.6
42.5°	1144.6	1144.6	1153.3	1162.0	1175.0	1175.0	1170.7	1162.0	1153.3	1144.6	1144.6
45°	1144.6	1144.6	1153.3	1170.7	1179.4	1188.1	1179.4	1170.7	1153.3	1144.6	1140.2
47.5°	1148.9	1148.9	1157.6	1179.4	1196.8	1205.5	1192.4	1175.0	1157.6	1148.9	1144.6
50°	1140.2	1144.6	1162.0	1183.7	1205.5	1209.9	1205.5	1179.4	1162.0	1140.2	1140.2
52.5°	1144.6	1144.6	1166.3	1201.1	1222.9	1231.6	1222.9	1201.1	1162.0	1140.2	1140.2
55°	1135.9	1131.5	1162.0	1201.1	1236.0	1253.4	1236.0	1201.1	1157.6	1131.5	1127.2
57.5°	1096.7	1096.7	1135.9	1175.0	1218.6	1227.3	1214.2	1175.0	1131.5	1096.7	1088.0
60°	1044.5	1048.8	1088.0	1131.5	1170.7	1175.0	1166.3	1131.5	1088.0	1048.8	1035.8
62.5°	987.9	996.6	1035.8	1079.3	1127.2	1135.9	1122.8	1079.3	1027.1	1001.0	979.2
65°	905.2	918.3	961.8	1009.7	1061.9	1057.5	1057.5	1005.3	966.1	922.6	900.9
67.5°	813.8	826.9	857.3	922.6	966.1	961.8	957.4	922.6	857.3	826.9	813.8
70°	713.7	722.4	752.9	818.2	857.3	861.7	848.6	813.8	752.9	731.1	709.4
72.5°	596.2	600.6	644.1	696.3	735.5	731.1	726.8	696.3	639.7	618.0	591.9
75°	470.0	474.4	513.5	561.4	591.9	587.5	583.2	561.4	513.5	487.4	465.7
77.5°	352.5	348.2	387.3	422.1	439.6	443.9	435.2	417.8	383.0	361.2	348.2
80°	230.7	226.3	261.1	287.2	300.3	300.3	295.9	282.9	256.8	239.4	230.7
82.5°	130.6	126.2	148.0	165.4	178.4	174.1	169.7	161.0	148.0	134.9	126.2
85°	47.9	47.9	60.9	69.6	78.3	78.3	74.0	69.6	56.6	52.2	47.9
87.5°	4.4	4.4	8.7	13.1	13.1	13.1	8.7	8.7	4.4	4.4	4.4
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



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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)