

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: P834031

Luminaire Tested: **TTN-D3-830-U-CQ-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834031  
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-D3-830-U-CQ-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

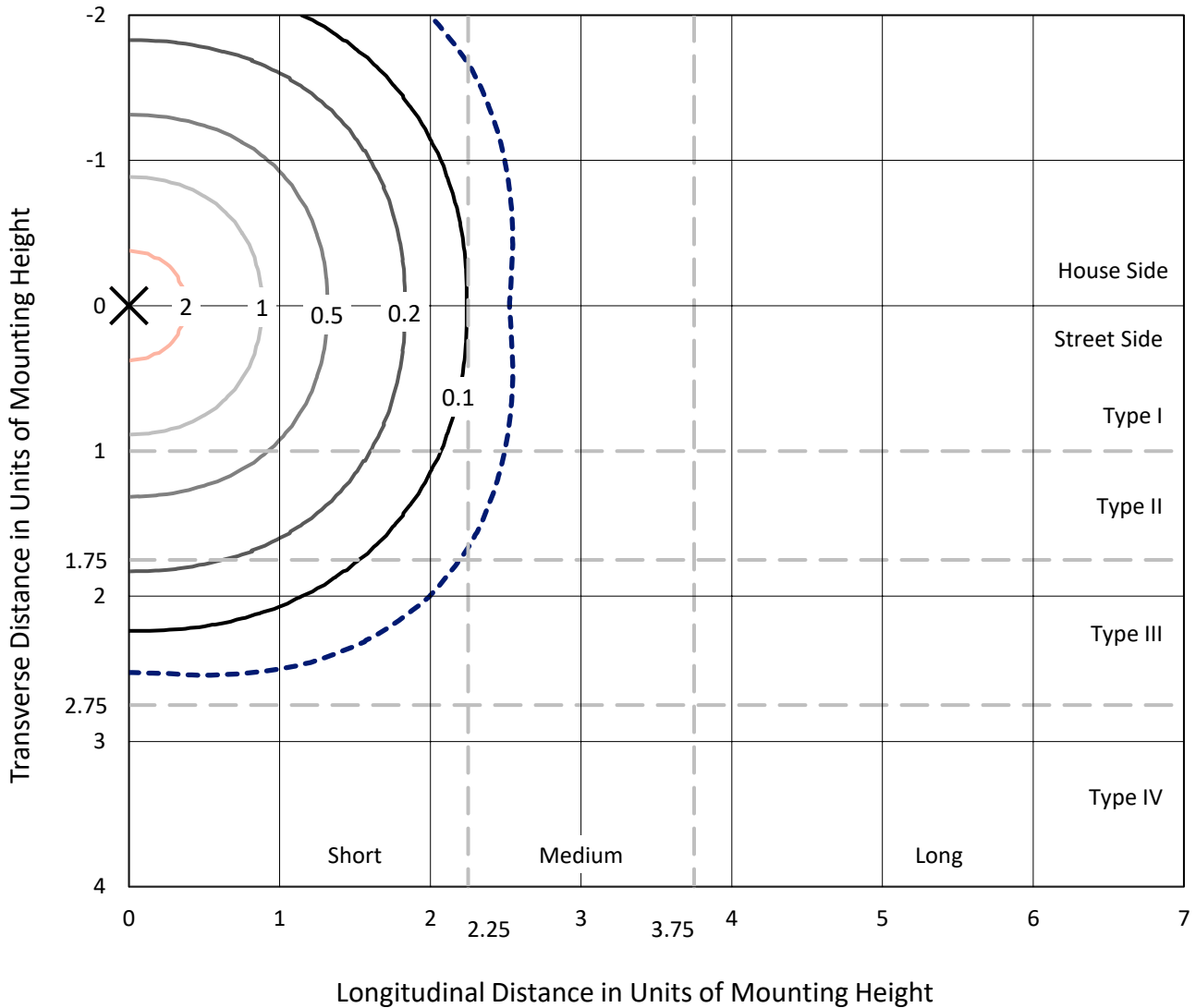
Lumens per Lamp: N/A  
Luminaire Lumens: 6635.8 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

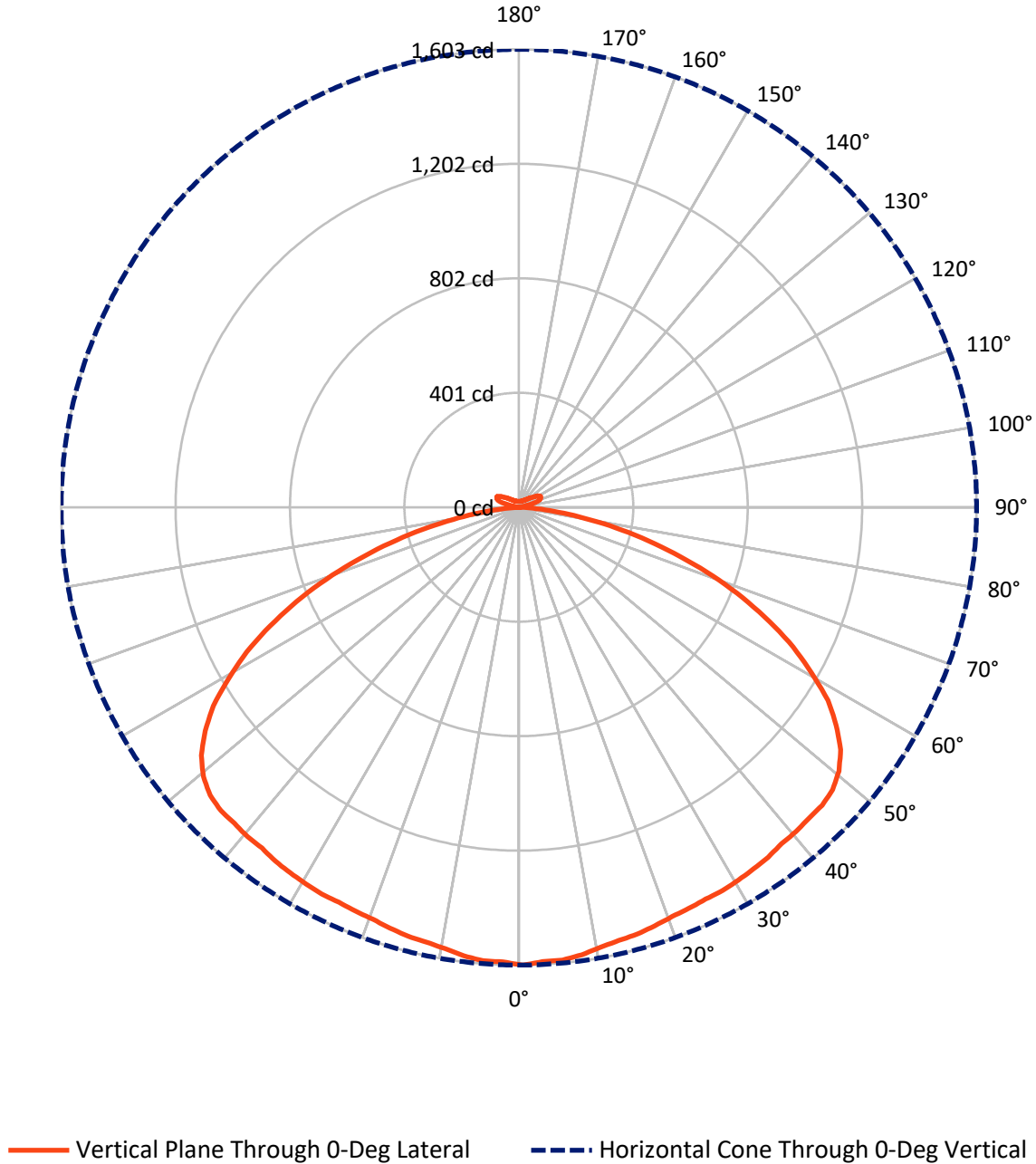
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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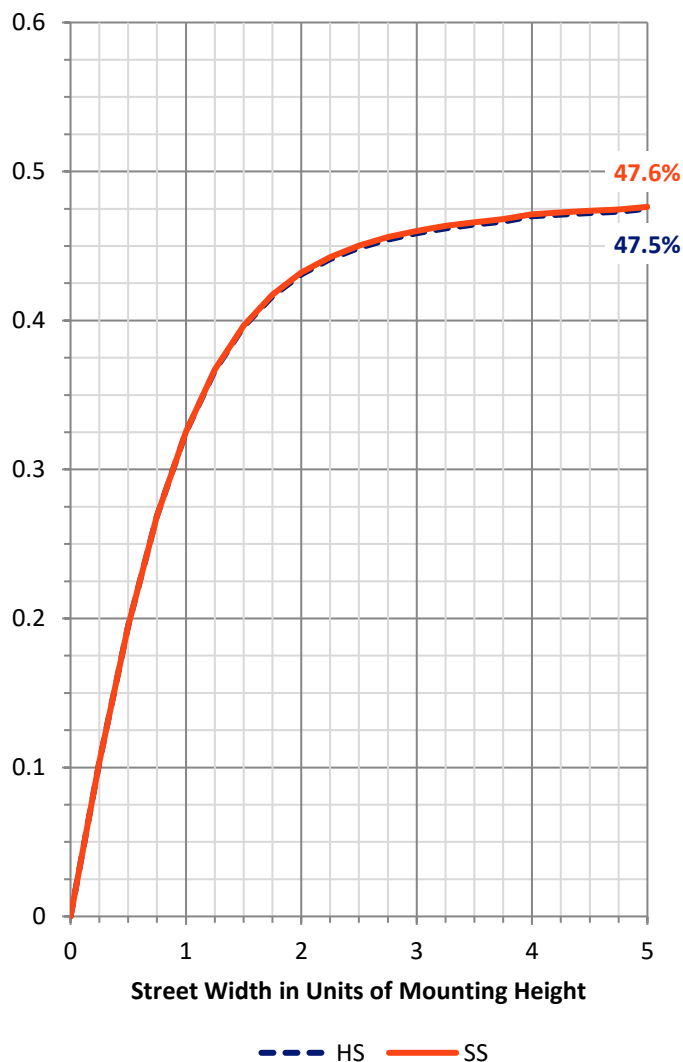
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3170.2	147.7	3317.9
	% Fixture	47.8	2.2	50.0
<b>Street Side</b>	Lumens	3170.2	147.7	3317.9
	% Fixture	47.8	2.2	50.0
<b>Total</b>	Lumens	6340.4	295.5	6635.8
	% Fixture	95.5	4.5	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	2.3
10°-20°	438.9	6.6
20°-30°	706.8	10.7
30°-40°	950.6	14.3
40°-50°	1172.9	17.7
50°-60°	1258.3	19.0
60°-70°	1020.4	15.4
70°-80°	540.8	8.2
80°-90°	100.4	1.5
90°-100°	6.6	0.1
100°-110°	67.0	1.0
110°-120°	98.0	1.5
120°-130°	56.9	0.9
130°-140°	30.1	0.5
140°-150°	17.9	0.3
150°-160°	11.0	0.2
160°-170°	6.0	0.1
170°-180°	2.0	0.0
0°-90°	6340.4	95.5
0°-180°	6635.8	100.0

**Coefficient of Utilization**

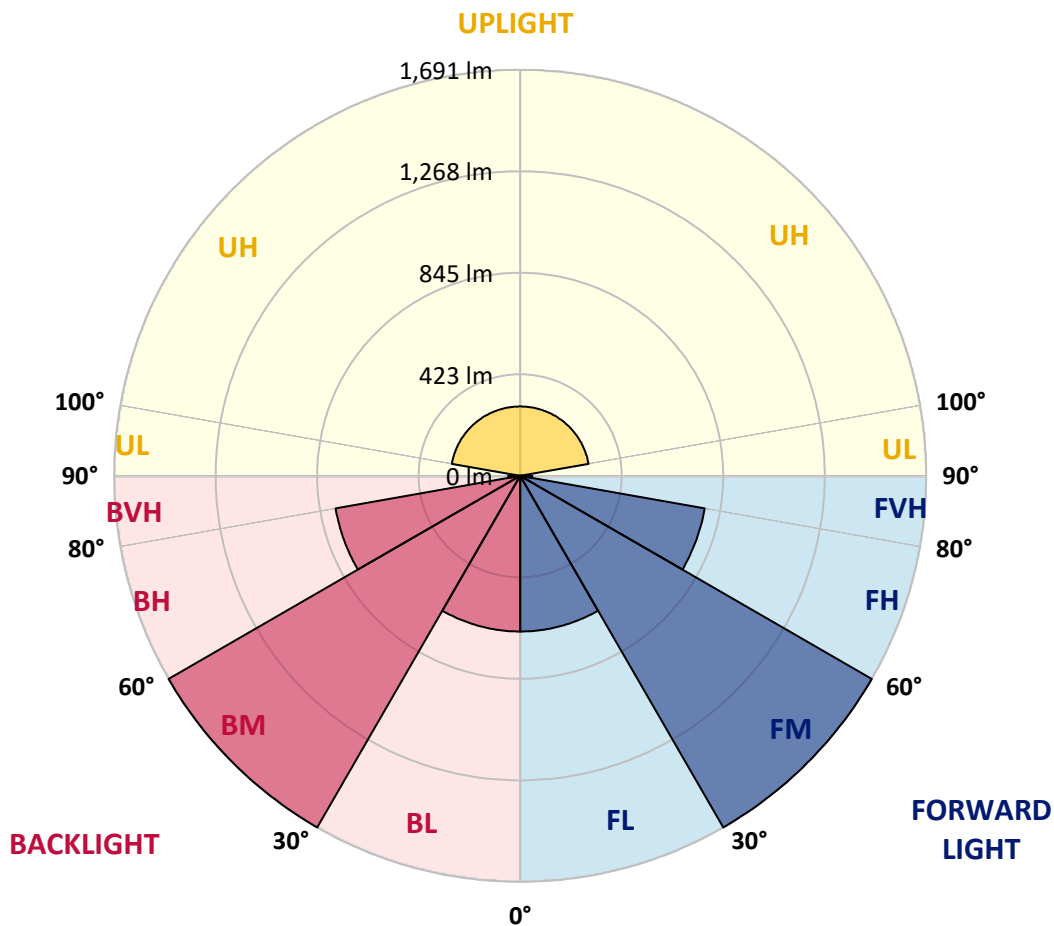


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.4	9.8			
FM (30°-60°)	1690.9	25.5			
FH (60°-80°)	780.6	11.8			G1/1800
FVH (80°-90°)	50.2	0.8			G1/100
BL (0°-30°)	648.4	9.8	B2/1000		
BM (30°-60°)	1690.9	25.5	B2/2500		
BH (60°-80°)	780.6	11.8	B2/1000		G1/1800
BVH (80°-90°)	50.2	0.8			G1/100
UL (90°-100°)	6.6	0.1		U1/10	
UH (100°-180°)	288.9	4.4		U3/500	

**BUG Rating: B2-U3-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1598.0
5°	1592.8	1592.8	1592.8	1592.8	1587.6	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
7.5°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
10°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
12.5°	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5
15°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1546.1	1546.1
17.5°	1540.9	1540.9	1540.9	1540.9	1546.1	1546.1	1546.1	1540.9	1540.9	1540.9	1540.9
20°	1530.5	1530.5	1530.5	1535.7	1535.7	1535.7	1535.7	1535.7	1530.5	1530.5	1530.5
22.5°	1525.3	1525.3	1525.3	1525.3	1530.5	1530.5	1530.5	1530.5	1525.3	1525.3	1525.3
25°	1520.1	1520.1	1525.3	1525.3	1530.5	1530.5	1530.5	1525.3	1525.3	1520.1	1520.1
27.5°	1520.1	1520.1	1525.3	1525.3	1530.5	1530.5	1530.5	1530.5	1525.3	1520.1	1520.1
30°	1515.0	1520.1	1520.1	1525.3	1530.5	1530.5	1530.5	1525.3	1520.1	1515.0	1515.0
32.5°	1509.8	1509.8	1515.0	1520.1	1525.3	1525.3	1525.3	1520.1	1515.0	1509.8	1504.6
35°	1504.6	1504.6	1504.6	1515.0	1520.1	1520.1	1520.1	1515.0	1504.6	1499.4	1499.4
37.5°	1494.2	1499.4	1504.6	1509.8	1520.1	1520.1	1520.1	1509.8	1499.4	1494.2	1489.0
40°	1494.2	1494.2	1504.6	1509.8	1525.3	1525.3	1520.1	1509.8	1499.4	1489.0	1483.8
42.5°	1489.0	1494.2	1504.6	1520.1	1535.7	1535.7	1530.5	1515.0	1499.4	1489.0	1483.8
45°	1489.0	1489.0	1504.6	1525.3	1546.1	1551.3	1540.9	1525.3	1504.6	1483.8	1483.8
47.5°	1478.6	1478.6	1499.4	1525.3	1551.3	1556.5	1551.3	1525.3	1499.4	1483.8	1478.6
50°	1452.7	1452.7	1478.6	1509.8	1540.9	1551.3	1540.9	1520.1	1483.8	1463.1	1457.9
52.5°	1411.2	1411.2	1437.1	1478.6	1509.8	1525.3	1515.0	1489.0	1452.7	1421.6	1416.4
55°	1348.9	1354.1	1380.1	1426.8	1463.1	1478.6	1468.3	1437.1	1395.6	1364.5	1354.1
57.5°	1276.3	1276.3	1312.6	1359.3	1395.6	1411.2	1400.8	1369.7	1323.0	1291.9	1281.5
60°	1177.7	1182.9	1214.0	1276.3	1312.6	1328.2	1317.8	1281.5	1229.6	1193.3	1182.9
62.5°	1079.1	1084.3	1115.5	1167.3	1208.9	1219.2	1208.9	1172.5	1125.8	1089.5	1079.1
65°	965.0	970.2	1006.5	1053.2	1084.3	1099.9	1084.3	1053.2	1011.7	975.4	970.2
67.5°	845.7	850.9	887.2	928.7	959.8	970.2	954.6	928.7	887.2	856.1	845.7
70°	721.2	726.4	757.5	793.8	819.7	830.1	819.7	788.6	757.5	726.4	721.2
72.5°	591.5	596.6	627.8	658.9	679.7	690.0	674.5	653.7	622.6	596.6	591.5
75°	466.9	466.9	492.9	518.8	539.6	544.8	534.4	518.8	492.9	472.1	461.8
77.5°	347.6	347.6	373.6	389.1	399.5	409.9	399.5	383.9	368.4	347.6	347.6
80°	233.5	233.5	254.2	264.6	275.0	280.2	275.0	264.6	254.2	238.7	233.5
82.5°	140.1	140.1	150.5	160.8	160.8	166.0	166.0	160.8	150.5	140.1	140.1
85°	62.3	57.1	67.4	72.6	72.6	77.8	77.8	72.6	67.4	62.3	62.3
87.5°	5.2	10.4	10.4	15.6	15.6	15.6	15.6	15.6	10.4	10.4	10.4
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)