

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: P833912

Luminaire Tested: **TTN-D3-740-U-CQ-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833912  
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-D3-740-U-CQ-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

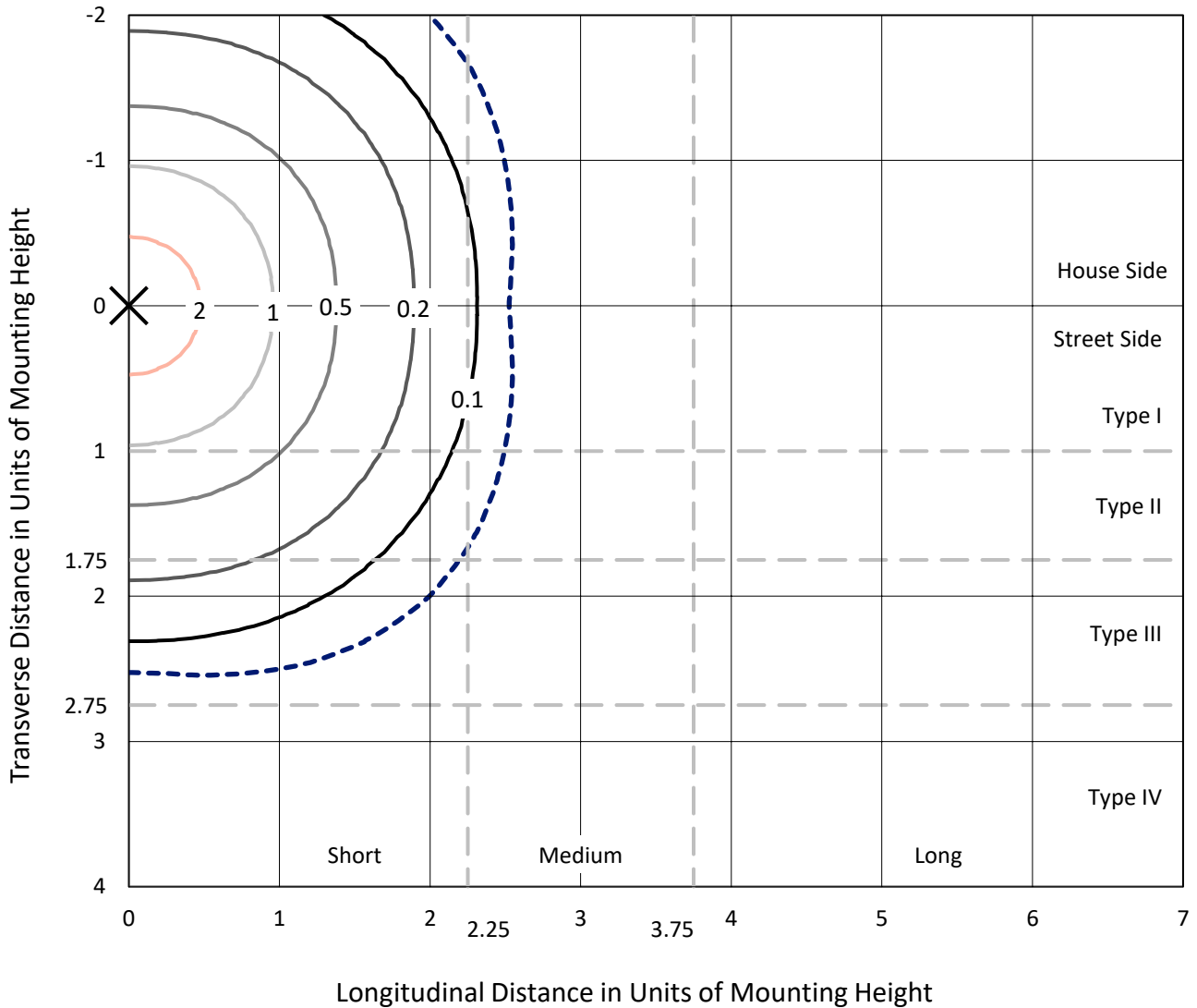
Lumens per Lamp: N/A  
Luminaire Lumens: 7661.7 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

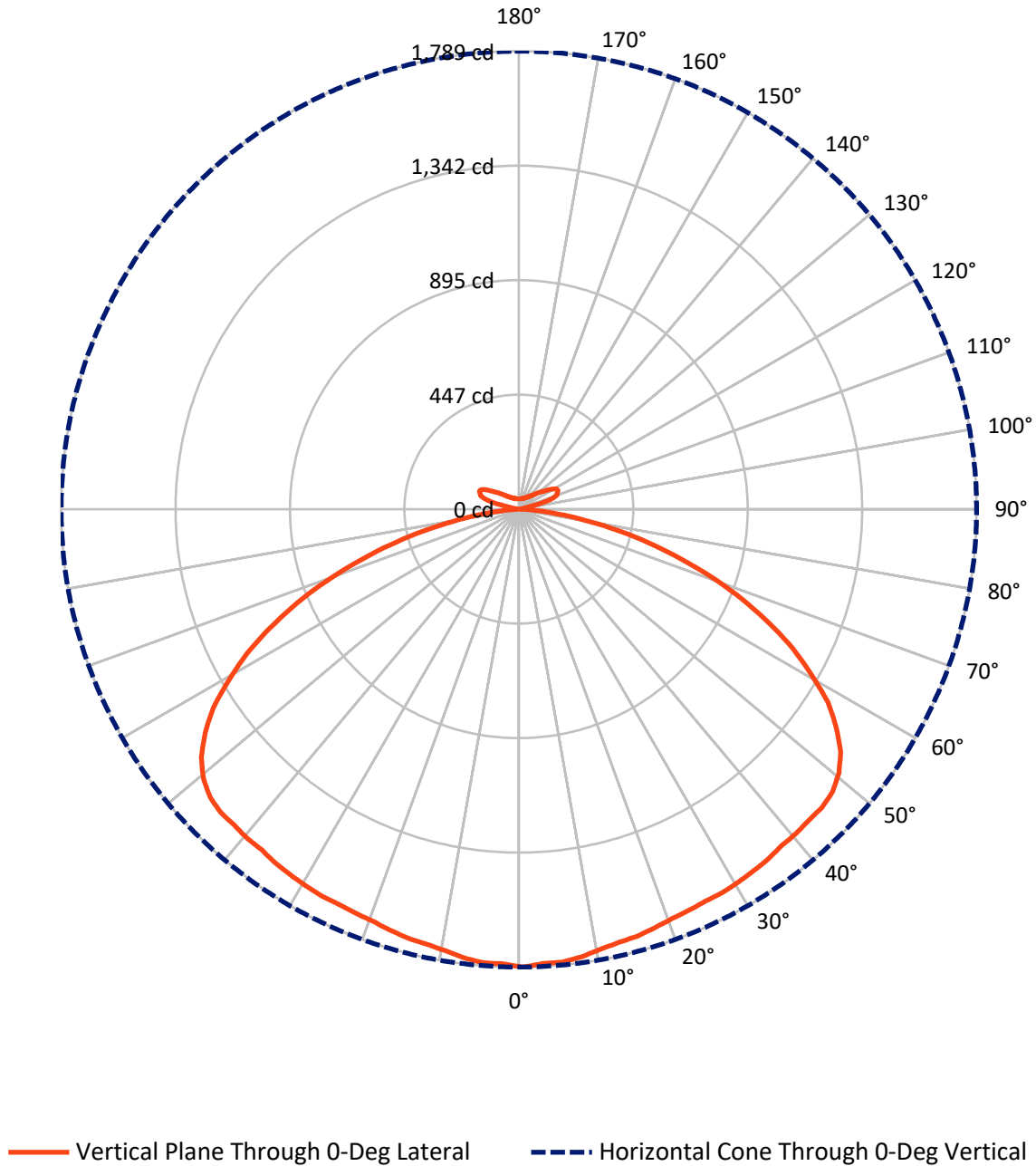
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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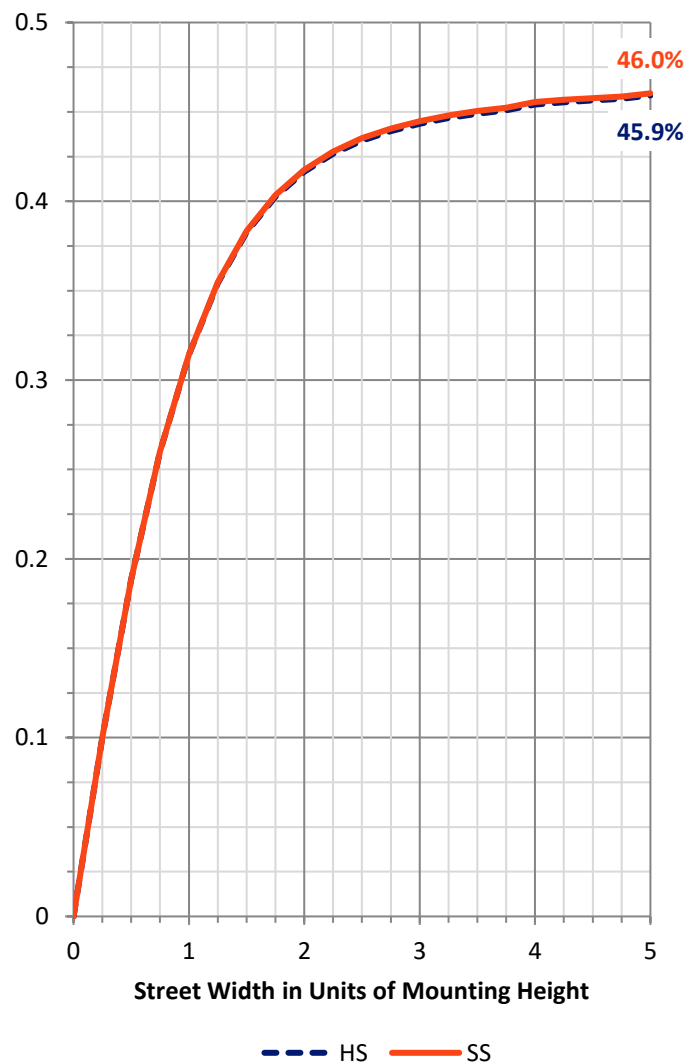
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3538.4	292.5	3830.9
	% Fixture	46.2	3.8	50.0
<b>Street Side</b>	Lumens	3538.4	292.5	3830.9
	% Fixture	46.2	3.8	50.0
<b>Total</b>	Lumens	7076.8	584.9	7661.7
	% Fixture	92.4	7.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.7	2.2
10°-20°	489.9	6.4
20°-30°	788.8	10.3
30°-40°	1061.0	13.8
40°-50°	1309.0	17.1
50°-60°	1404.4	18.3
60°-70°	1138.9	14.9
70°-80°	603.6	7.9
80°-90°	112.4	1.5
90°-100°	13.1	0.2
100°-110°	132.7	1.7
110°-120°	194.0	2.5
120°-130°	112.6	1.5
130°-140°	59.7	0.8
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	7076.8	92.4
0°-180°	7661.7	100.0

**Coefficient of Utilization**

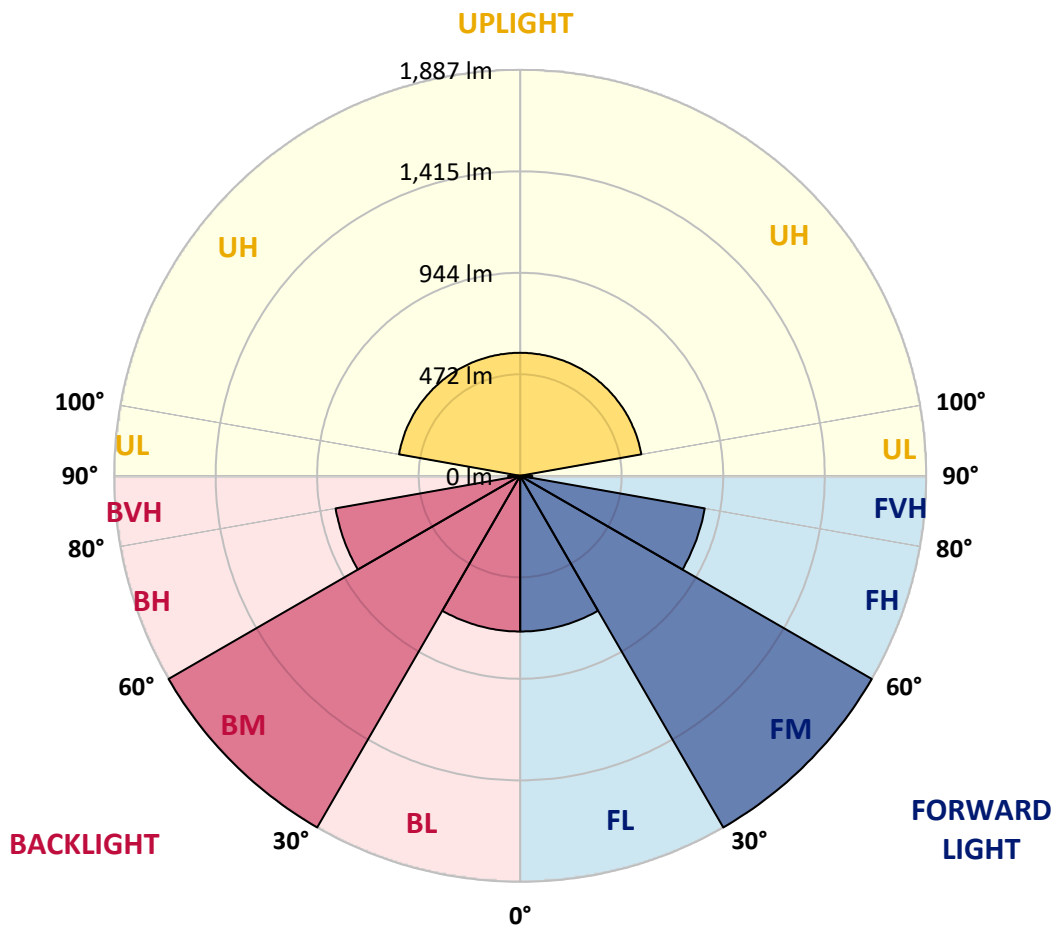


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	9.4			
FM (30°-60°)	1887.2	24.6			
FH (60°-80°)	871.3	11.4			G1/1800
FVH (80°-90°)	56.2	0.7			G1/100
BL (0°-30°)	723.7	9.4	B2/1000		
BM (30°-60°)	1887.2	24.6	B2/2500		
BH (60°-80°)	871.3	11.4	B2/1000		G1/1800
BVH (80°-90°)	56.2	0.7			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.5		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°	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3
2.5°	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1783.5
5°	1777.7	1777.7	1777.7	1777.7	1771.9	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7
7.5°	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1
10°	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7
12.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2
15°	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1725.6	1725.6
17.5°	1719.8	1719.8	1719.8	1719.8	1725.6	1725.6	1725.6	1719.8	1719.8	1719.8	1719.8
20°	1708.2	1708.2	1708.2	1714.0	1714.0	1714.0	1714.0	1714.0	1708.2	1708.2	1708.2
22.5°	1702.4	1702.4	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1702.4	1702.4
25°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1702.4	1702.4	1696.6	1696.6
27.5°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1696.6	1696.6
30°	1690.8	1696.6	1696.6	1702.4	1708.2	1708.2	1708.2	1702.4	1696.6	1690.8	1690.8
32.5°	1685.0	1685.0	1690.8	1696.6	1702.4	1702.4	1702.4	1696.6	1690.8	1685.0	1679.2
35°	1679.2	1679.2	1679.2	1690.8	1696.6	1696.6	1696.6	1690.8	1679.2	1673.5	1673.5
37.5°	1667.7	1673.5	1679.2	1685.0	1696.6	1696.6	1696.6	1685.0	1673.5	1667.7	1661.9
40°	1667.7	1667.7	1679.2	1685.0	1702.4	1702.4	1696.6	1685.0	1673.5	1661.9	1656.1
42.5°	1661.9	1667.7	1679.2	1696.6	1714.0	1714.0	1708.2	1690.8	1673.5	1661.9	1656.1
45°	1661.9	1661.9	1679.2	1702.4	1725.6	1731.4	1719.8	1702.4	1679.2	1656.1	1656.1
47.5°	1650.3	1650.3	1673.5	1702.4	1731.4	1737.2	1731.4	1702.4	1673.5	1656.1	1650.3
50°	1621.3	1621.3	1650.3	1685.0	1719.8	1731.4	1719.8	1696.6	1656.1	1632.9	1627.1
52.5°	1575.0	1575.0	1604.0	1650.3	1685.0	1702.4	1690.8	1661.9	1621.3	1586.6	1580.8
55°	1505.5	1511.3	1540.3	1592.4	1632.9	1650.3	1638.7	1604.0	1557.6	1522.9	1511.3
57.5°	1424.5	1424.5	1465.0	1517.1	1557.6	1575.0	1563.4	1528.7	1476.6	1441.8	1430.3
60°	1314.4	1320.2	1355.0	1424.5	1465.0	1482.4	1470.8	1430.3	1372.4	1331.8	1320.2
62.5°	1204.4	1210.2	1245.0	1302.9	1349.2	1360.8	1349.2	1308.7	1256.5	1216.0	1204.4
65°	1077.0	1082.8	1123.4	1175.5	1210.2	1227.6	1210.2	1175.5	1129.1	1088.6	1082.8
67.5°	943.9	949.6	990.2	1036.5	1071.2	1082.8	1065.5	1036.5	990.2	955.4	943.9
70°	804.9	810.7	845.4	885.9	914.9	926.5	914.9	880.2	845.4	810.7	804.9
72.5°	660.1	665.9	700.7	735.4	758.6	770.1	752.8	729.6	694.9	665.9	660.1
75°	521.1	521.1	550.1	579.1	602.2	608.0	596.4	579.1	550.1	526.9	515.4
77.5°	388.0	388.0	416.9	434.3	445.9	457.5	445.9	428.5	411.1	388.0	388.0
80°	260.6	260.6	283.7	295.3	306.9	312.7	306.9	295.3	283.7	266.4	260.6
82.5°	156.3	156.3	167.9	179.5	179.5	185.3	185.3	179.5	167.9	156.3	156.3
85°	69.5	63.7	75.3	81.1	81.1	86.9	86.9	81.1	75.3	69.5	69.5
87.5°	5.8	11.6	11.6	17.4	17.4	17.4	17.4	17.4	11.6	11.6	11.6
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)