

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: P833922

Luminaire Tested: **TTN-D3-740-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833922  
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-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**

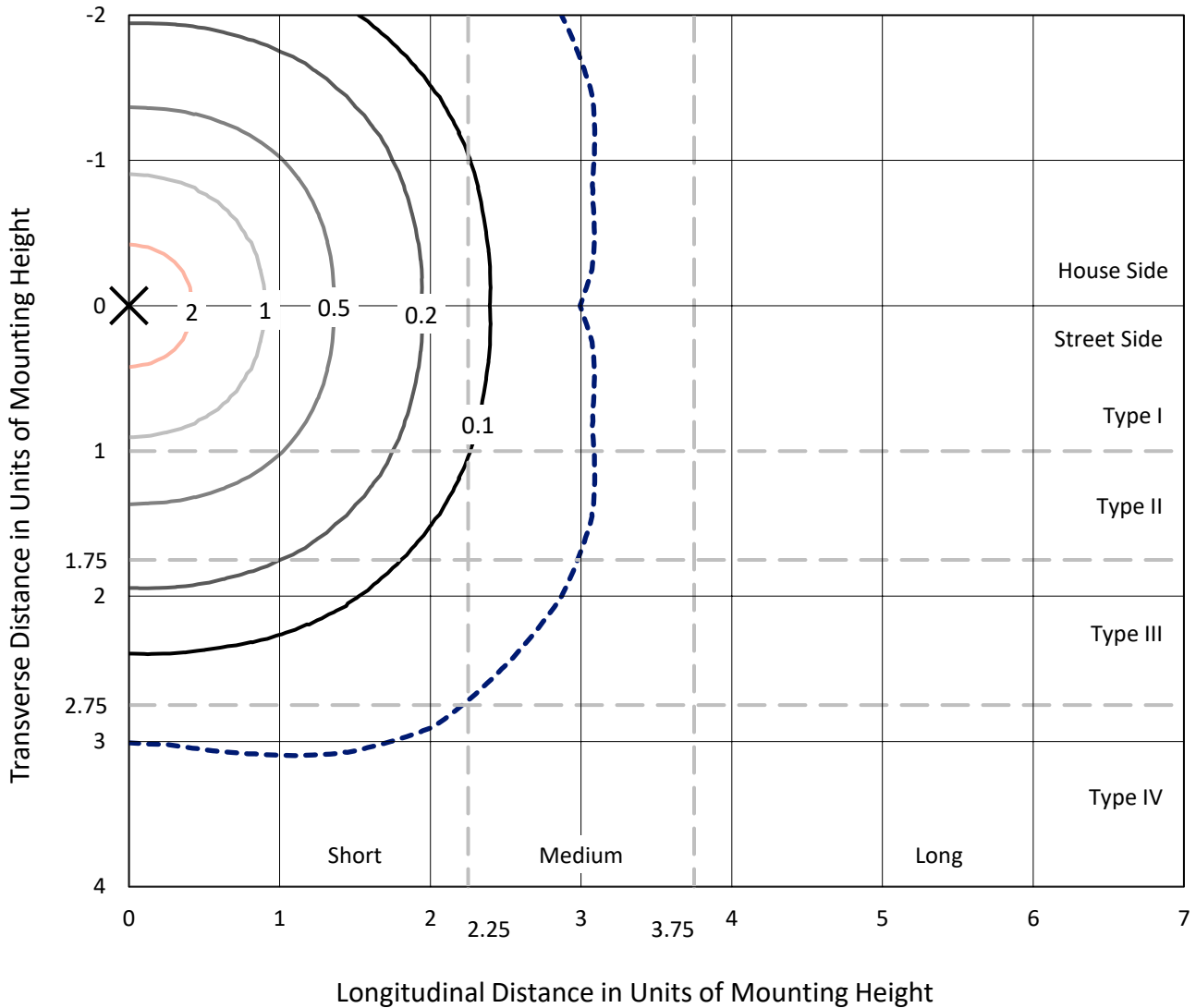
Lumens per Lamp: N/A  
Luminaire Lumens: 7945.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G1  
  
Input Watts (W): 66.2  
Input Voltage (V): NR  
Input Current (Ain): 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

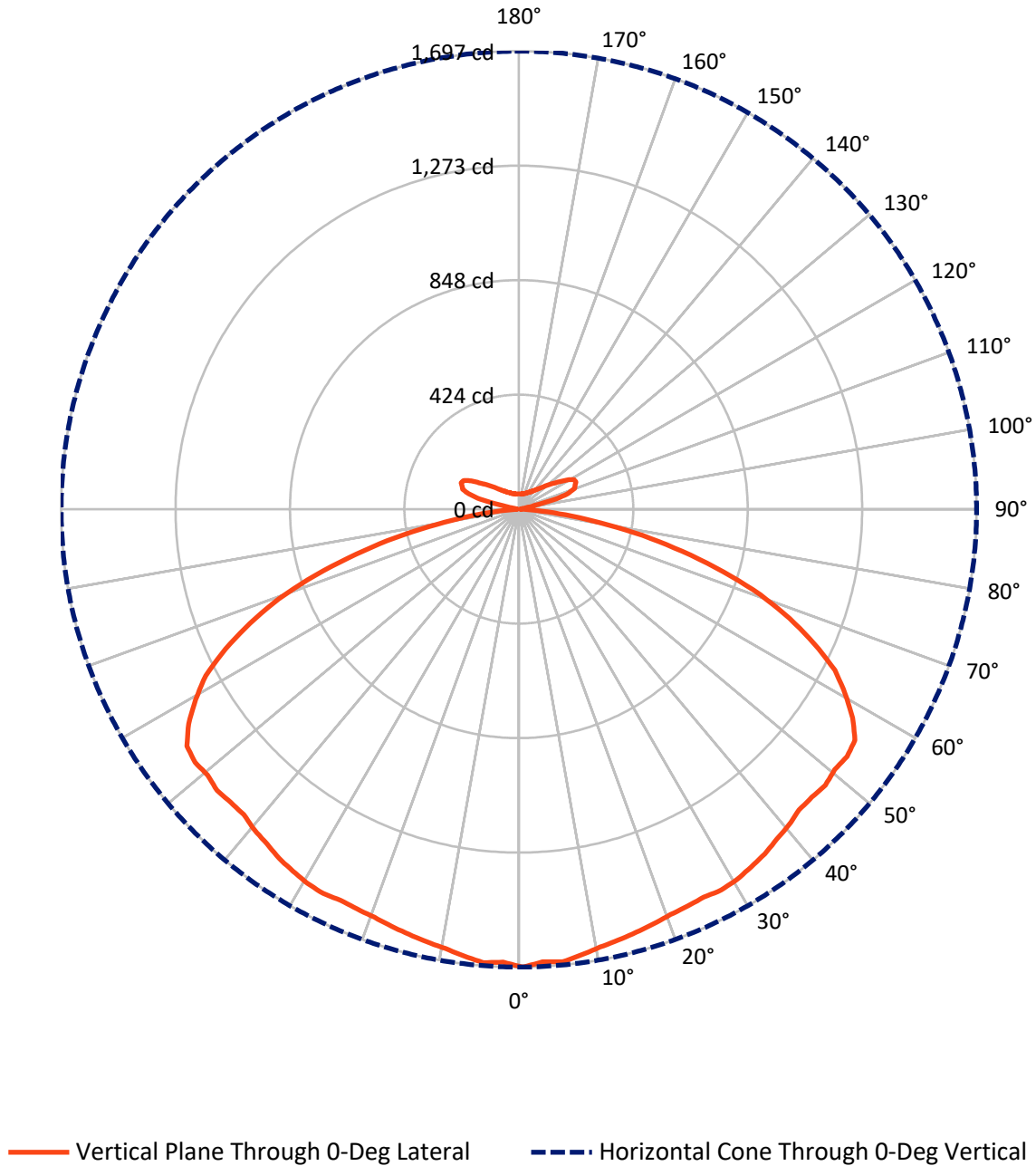
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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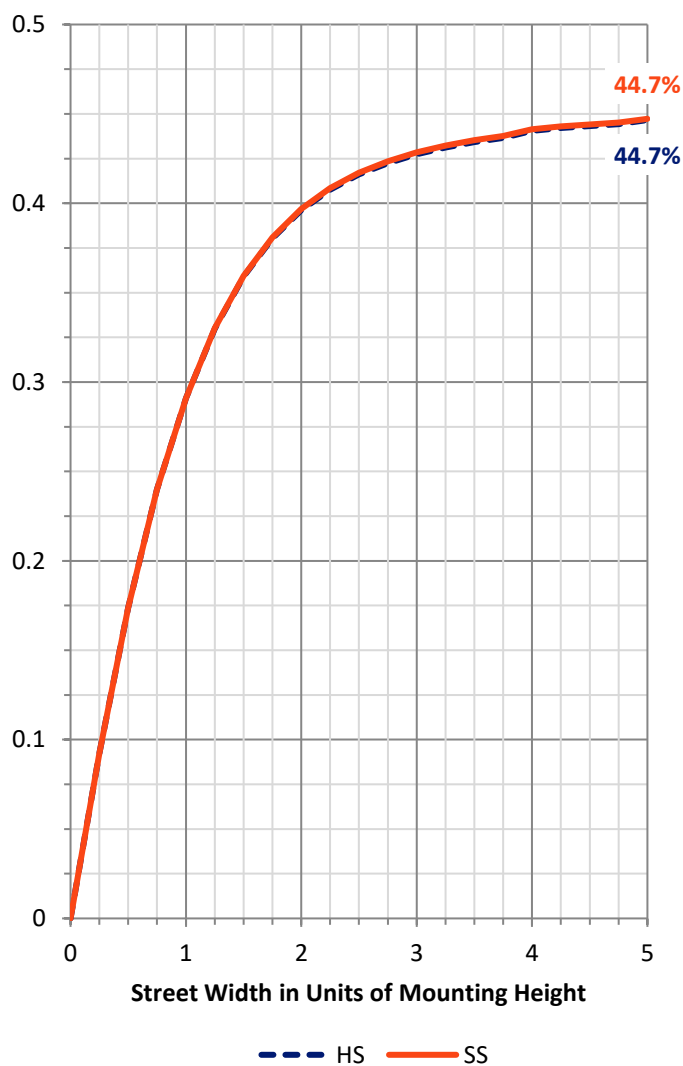
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3567.1	405.8	3972.8
	% Fixture	44.9	5.1	50.0
<b>Street Side</b>	Lumens	3567.1	405.8	3972.8
	% Fixture	44.9	5.1	50.0
<b>Total</b>	Lumens	7134.1	811.5	7945.6
	% Fixture	89.8	10.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	2.0
10°-20°	461.0	5.8
20°-30°	741.6	9.3
30°-40°	990.7	12.5
40°-50°	1203.7	15.1
50°-60°	1398.6	17.6
60°-70°	1290.3	16.2
70°-80°	755.4	9.5
80°-90°	133.4	1.7
90°-100°	18.1	0.2
100°-110°	184.1	2.3
110°-120°	269.1	3.4
120°-130°	156.2	2.0
130°-140°	82.7	1.0
140°-150°	49.1	0.6
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	7134.1	89.8
0°-180°	7945.6	100.0

**Coefficient of Utilization**



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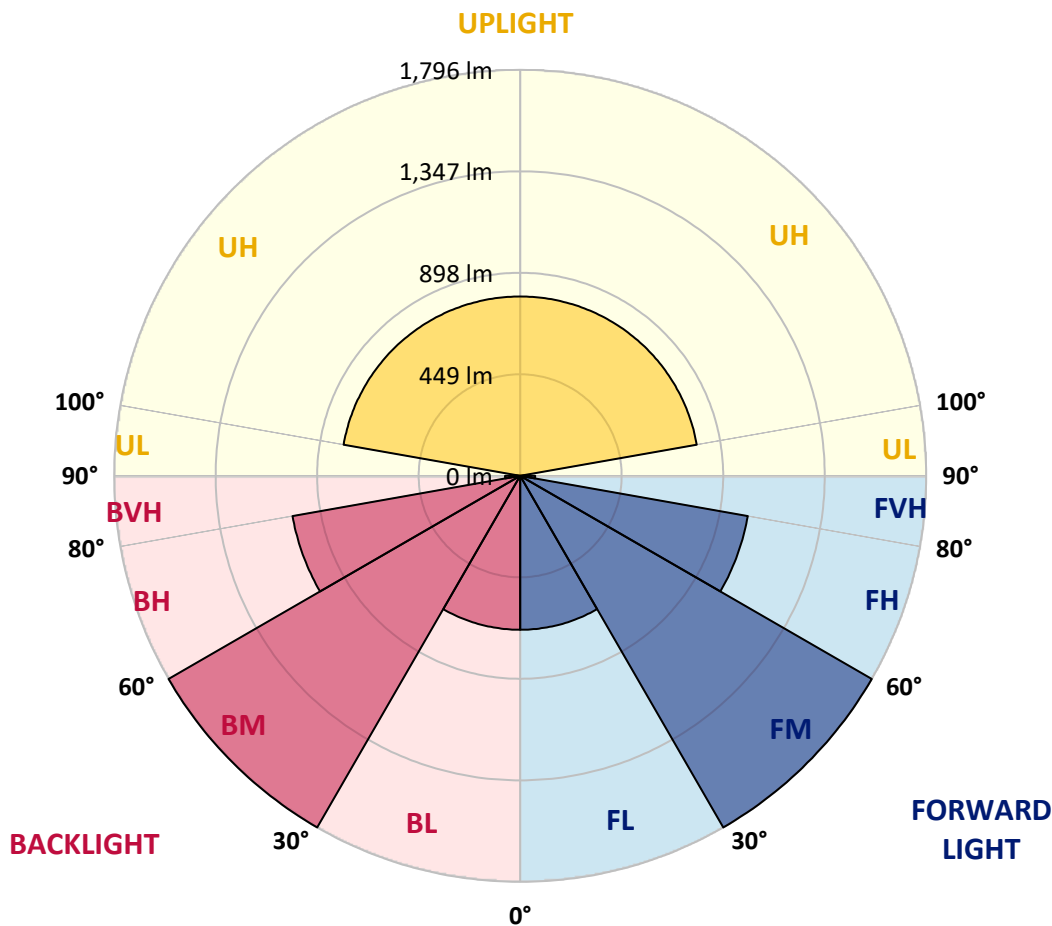
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.0	8.6			
FM (30°-60°)	1796.5	22.6			
FH (60°-80°)	1022.8	12.9			G1/1800
FVH (80°-90°)	66.7	0.8			G1/100
BL (0°-30°)	681.0	8.6	B2/1000		
BM (30°-60°)	1796.5	22.6	B2/2500		
BH (60°-80°)	1022.8	12.9	B3/2500		G1/1800
BVH (80°-90°)	66.7	0.8			G1/100
UL (90°-100°)	18.1	0.2		U2/50	
UH (100°-180°)	793.4	10.0		U4/1000	

**BUG Rating: B3-U4-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9
2.5°	1679.6	1685.3	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1685.3
5°	1685.3	1685.3	1685.3	1685.3	1679.6	1679.6	1679.6	1679.6	1679.6	1685.3	1685.3
7.5°	1668.0	1668.0	1668.0	1668.0	1668.0	1662.2	1668.0	1668.0	1668.0	1668.0	1668.0
10°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
12.5°	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1633.2	1633.2
15°	1627.4	1627.4	1627.4	1627.4	1633.2	1633.2	1627.4	1627.4	1627.4	1627.4	1627.4
17.5°	1615.8	1615.8	1615.8	1615.8	1621.6	1621.6	1621.6	1615.8	1615.8	1615.8	1615.8
20°	1604.3	1604.3	1604.3	1604.3	1610.1	1610.1	1610.1	1610.1	1610.1	1604.3	1604.3
22.5°	1598.5	1598.5	1598.5	1598.5	1604.3	1604.3	1604.3	1604.3	1598.5	1598.5	1598.5
25°	1592.7	1598.5	1598.5	1598.5	1604.3	1610.1	1610.1	1604.3	1598.5	1592.7	1592.7
27.5°	1598.5	1598.5	1598.5	1604.3	1604.3	1610.1	1610.1	1604.3	1598.5	1598.5	1598.5
30°	1592.7	1592.7	1592.7	1598.5	1604.3	1610.1	1604.3	1604.3	1598.5	1592.7	1592.7
32.5°	1581.1	1581.1	1586.9	1592.7	1598.5	1598.5	1598.5	1592.7	1586.9	1581.1	1581.1
35°	1569.5	1569.5	1569.5	1575.3	1586.9	1586.9	1586.9	1581.1	1575.3	1569.5	1563.7
37.5°	1552.1	1557.9	1557.9	1569.5	1575.3	1581.1	1575.3	1569.5	1557.9	1552.1	1552.1
40°	1540.6	1540.6	1546.3	1557.9	1569.5	1569.5	1563.7	1557.9	1546.3	1540.6	1540.6
42.5°	1523.2	1523.2	1534.8	1546.3	1563.7	1563.7	1557.9	1546.3	1534.8	1523.2	1523.2
45°	1523.2	1523.2	1534.8	1557.9	1569.5	1581.1	1569.5	1557.9	1534.8	1523.2	1517.4
47.5°	1529.0	1529.0	1540.6	1569.5	1592.7	1604.3	1586.9	1563.7	1540.6	1529.0	1523.2
50°	1517.4	1523.2	1546.3	1575.3	1604.3	1610.1	1604.3	1569.5	1546.3	1517.4	1517.4
52.5°	1523.2	1523.2	1552.1	1598.5	1627.4	1639.0	1627.4	1598.5	1546.3	1517.4	1517.4
55°	1511.6	1505.8	1546.3	1598.5	1644.8	1668.0	1644.8	1598.5	1540.6	1505.8	1500.0
57.5°	1459.5	1459.5	1511.6	1563.7	1621.6	1633.2	1615.8	1563.7	1505.8	1459.5	1447.9
60°	1390.0	1395.8	1447.9	1505.8	1557.9	1563.7	1552.1	1505.8	1447.9	1395.8	1378.4
62.5°	1314.7	1326.3	1378.4	1436.3	1500.0	1511.6	1494.2	1436.3	1366.8	1332.1	1303.1
65°	1204.6	1222.0	1279.9	1343.6	1413.1	1407.3	1407.3	1337.9	1285.7	1227.8	1198.9
67.5°	1083.0	1100.4	1140.9	1227.8	1285.7	1279.9	1274.1	1227.8	1140.9	1100.4	1083.0
70°	949.8	961.4	1001.9	1088.8	1140.9	1146.7	1129.4	1083.0	1001.9	973.0	944.0
72.5°	793.4	799.2	857.2	926.6	978.8	973.0	967.2	926.6	851.4	822.4	787.7
75°	625.5	631.3	683.4	747.1	787.7	781.9	776.1	747.1	683.4	648.7	619.7
77.5°	469.1	463.3	515.4	561.8	584.9	590.7	579.2	556.0	509.7	480.7	463.3
80°	307.0	301.2	347.5	382.2	399.6	399.6	393.8	376.5	341.7	318.5	307.0
82.5°	173.7	168.0	196.9	220.1	237.5	231.7	225.9	214.3	196.9	179.5	168.0
85°	63.7	63.7	81.1	92.7	104.2	104.2	98.5	92.7	75.3	69.5	63.7
87.5°	5.8	5.8	11.6	17.4	17.4	17.4	11.6	11.6	5.8	5.8	5.8
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)