

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: P833890

Luminaire Tested: **TTN-D3-735-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833890  
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-D3-735-U-MQ-CG-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

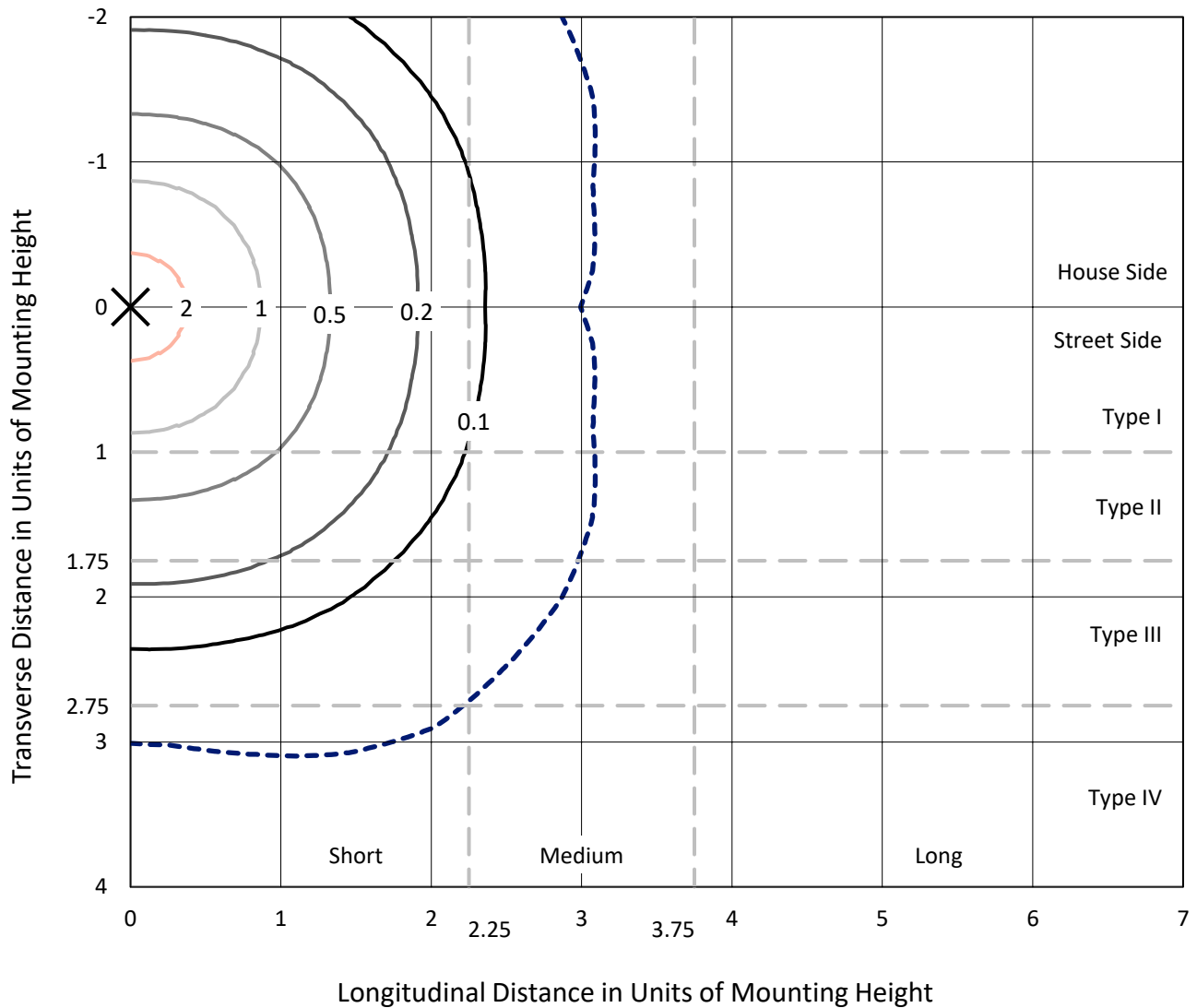
Lumens per Lamp: N/A  
Luminaire Lumens: 7062.9 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

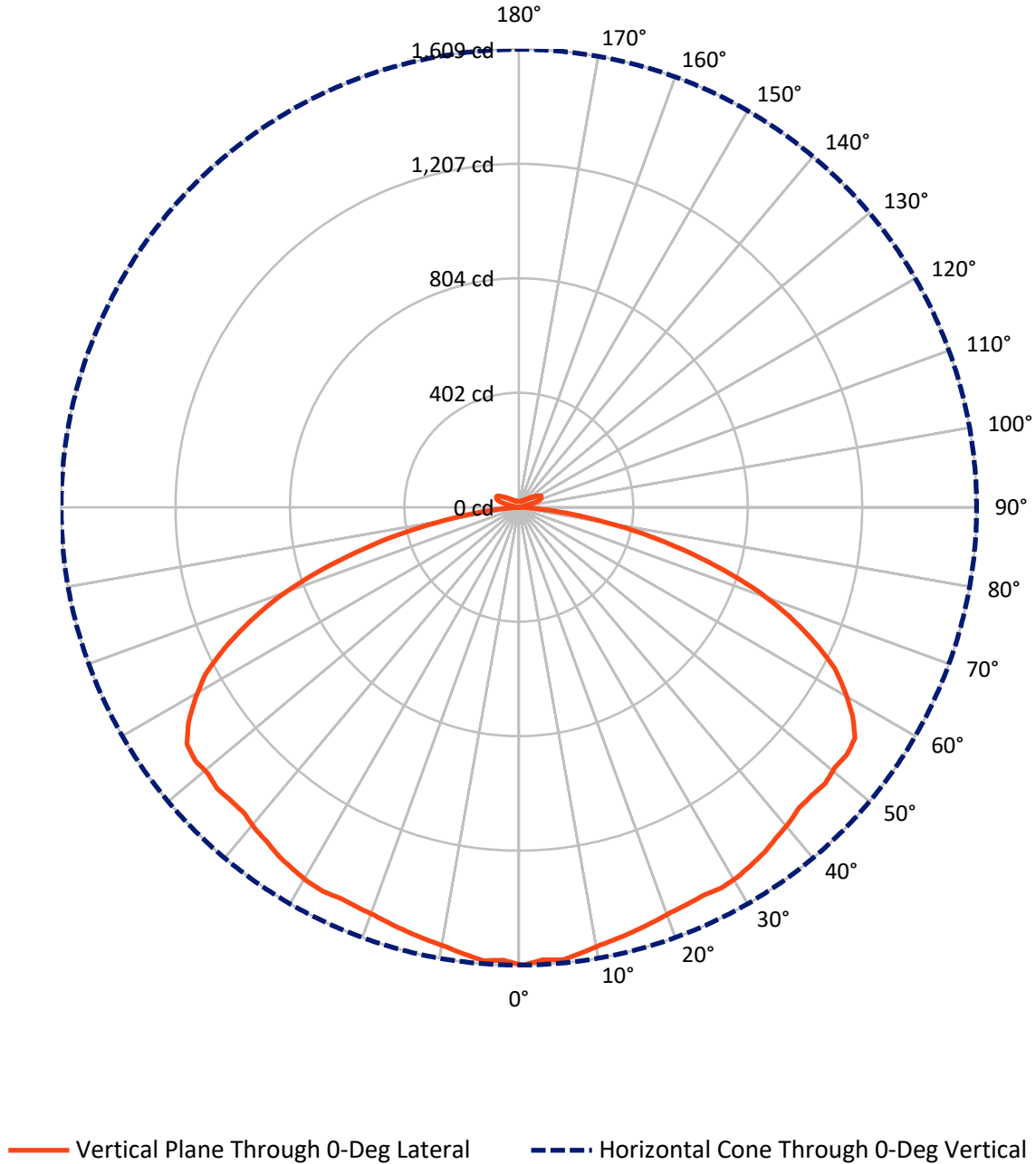
✕ Max cd  
 - - - 1/2 Max cd



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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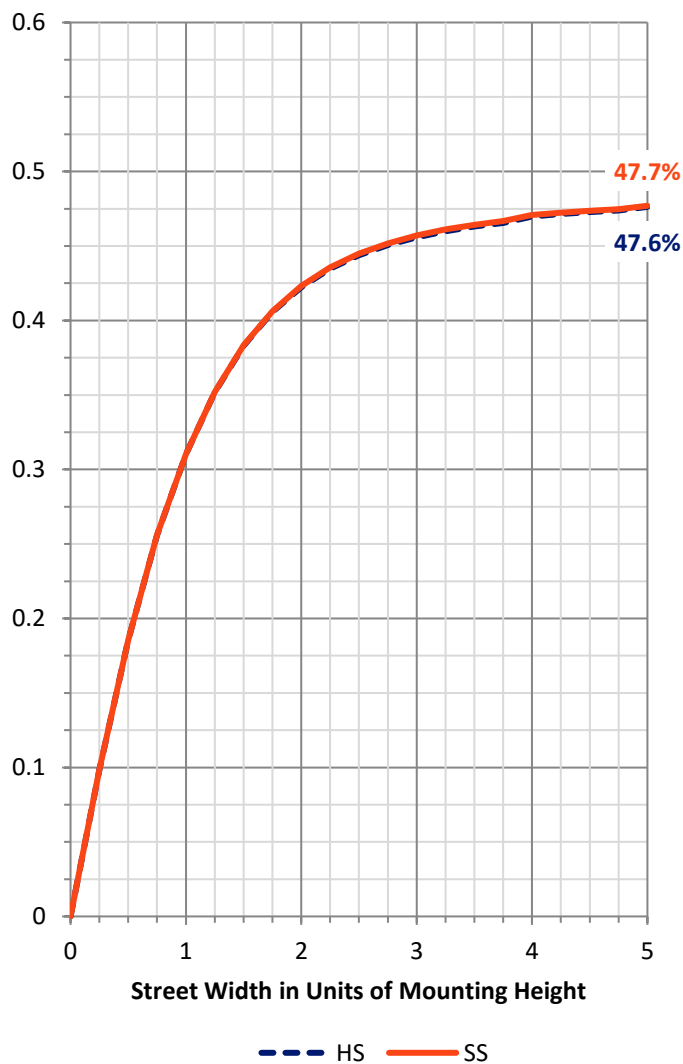
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3381.2	150.2	3531.5
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3381.2	150.2	3531.5
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	6762.4	300.5	7062.9
	% Fixture	95.7	4.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	2.1
10°-20°	437.0	6.2
20°-30°	703.0	10.0
30°-40°	939.2	13.3
40°-50°	1141.1	16.2
50°-60°	1325.8	18.8
60°-70°	1223.2	17.3
70°-80°	716.1	10.1
80°-90°	125.9	1.8
90°-100°	6.7	0.1
100°-110°	68.2	1.0
110°-120°	99.6	1.4
120°-130°	57.8	0.8
130°-140°	30.6	0.4
140°-150°	18.2	0.3
150°-160°	11.2	0.2
160°-170°	6.1	0.1
170°-180°	2.0	0.0
0°-90°	6762.4	95.7
0°-180°	7062.9	100.0

**Coefficient of Utilization**

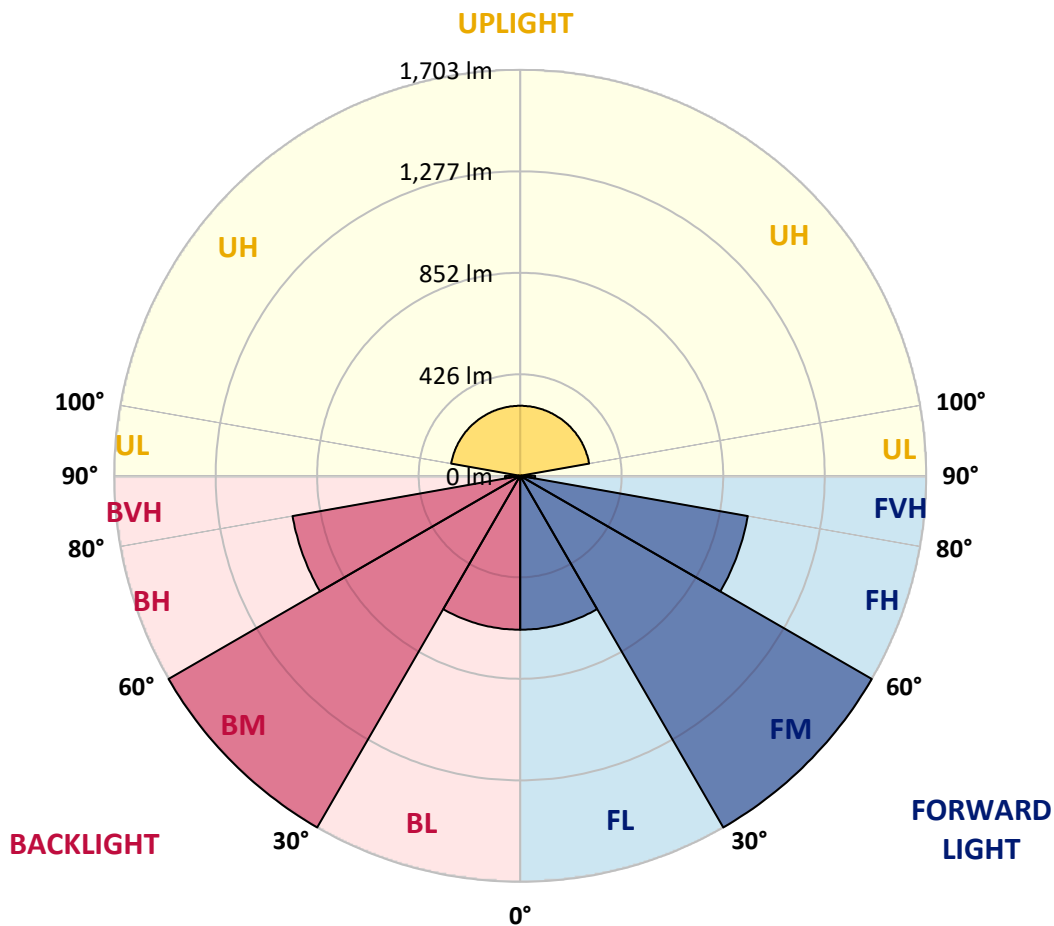


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.6	9.1			
FM (30°-60°)	1703.1	24.1			
FH (60°-80°)	969.7	13.7			G1/1800
FVH (80°-90°)	62.9	0.9			G1/100
BL (0°-30°)	645.6	9.1	B2/1000		
BM (30°-60°)	1703.1	24.1	B2/2500		
BH (60°-80°)	969.7	13.7	B2/1000		G1/1800
BVH (80°-90°)	62.9	0.9			G1/100
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.2		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°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1592.2	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7
5°	1597.7	1597.7	1597.7	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7	1597.7
7.5°	1581.2	1581.2	1581.2	1581.2	1581.2	1575.7	1581.2	1581.2	1581.2	1581.2	1581.2
10°	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7
12.5°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1548.3	1548.3
15°	1542.8	1542.8	1542.8	1542.8	1548.3	1548.3	1542.8	1542.8	1542.8	1542.8	1542.8
17.5°	1531.8	1531.8	1531.8	1531.8	1537.3	1537.3	1537.3	1531.8	1531.8	1531.8	1531.8
20°	1520.8	1520.8	1520.8	1520.8	1526.3	1526.3	1526.3	1526.3	1526.3	1520.8	1520.8
22.5°	1515.3	1515.3	1515.3	1515.3	1520.8	1520.8	1520.8	1520.8	1515.3	1515.3	1515.3
25°	1509.8	1515.3	1515.3	1515.3	1520.8	1526.3	1526.3	1520.8	1515.3	1509.8	1509.8
27.5°	1515.3	1515.3	1515.3	1520.8	1520.8	1526.3	1526.3	1520.8	1515.3	1515.3	1515.3
30°	1509.8	1509.8	1509.8	1515.3	1520.8	1526.3	1520.8	1520.8	1515.3	1509.8	1509.8
32.5°	1498.9	1498.9	1504.4	1509.8	1515.3	1515.3	1515.3	1509.8	1504.4	1498.9	1498.9
35°	1487.9	1487.9	1487.9	1493.4	1504.4	1504.4	1504.4	1498.9	1493.4	1487.9	1482.4
37.5°	1471.4	1476.9	1476.9	1487.9	1493.4	1498.9	1493.4	1487.9	1476.9	1471.4	1471.4
40°	1460.4	1460.4	1465.9	1476.9	1487.9	1487.9	1482.4	1476.9	1465.9	1460.4	1460.4
42.5°	1444.0	1444.0	1454.9	1465.9	1482.4	1482.4	1476.9	1465.9	1454.9	1444.0	1444.0
45°	1444.0	1444.0	1454.9	1476.9	1487.9	1498.9	1487.9	1476.9	1454.9	1444.0	1438.5
47.5°	1449.4	1449.4	1460.4	1487.9	1509.8	1520.8	1504.4	1482.4	1460.4	1449.4	1444.0
50°	1438.5	1444.0	1465.9	1493.4	1520.8	1526.3	1520.8	1487.9	1465.9	1438.5	1438.5
52.5°	1444.0	1444.0	1471.4	1515.3	1542.8	1553.8	1542.8	1515.3	1465.9	1438.5	1438.5
55°	1433.0	1427.5	1465.9	1515.3	1559.3	1581.2	1559.3	1515.3	1460.4	1427.5	1422.0
57.5°	1383.6	1383.6	1433.0	1482.4	1537.3	1548.3	1531.8	1482.4	1427.5	1383.6	1372.6
60°	1317.7	1323.2	1372.6	1427.5	1476.9	1482.4	1471.4	1427.5	1372.6	1323.2	1306.7
62.5°	1246.3	1257.3	1306.7	1361.6	1422.0	1433.0	1416.5	1361.6	1295.7	1262.8	1235.3
65°	1142.0	1158.5	1213.4	1273.8	1339.6	1334.2	1334.2	1268.3	1218.9	1164.0	1136.5
67.5°	1026.7	1043.2	1081.6	1164.0	1218.9	1213.4	1207.9	1164.0	1081.6	1043.2	1026.7
70°	900.4	911.4	949.8	1032.2	1081.6	1087.1	1070.6	1026.7	949.8	922.4	894.9
72.5°	752.2	757.7	812.6	878.5	927.9	922.4	916.9	878.5	807.1	779.6	746.7
75°	593.0	598.4	647.9	708.3	746.7	741.2	735.7	708.3	647.9	614.9	587.5
77.5°	444.7	439.2	488.6	532.6	554.5	560.0	549.0	527.1	483.1	455.7	439.2
80°	291.0	285.5	329.4	362.4	378.8	378.8	373.3	356.9	323.9	302.0	291.0
82.5°	164.7	159.2	186.7	208.6	225.1	219.6	214.1	203.1	186.7	170.2	159.2
85°	60.4	60.4	76.9	87.8	98.8	98.8	93.3	87.8	71.4	65.9	60.4
87.5°	5.5	5.5	11.0	16.5	16.5	16.5	11.0	11.0	5.5	5.5	5.5
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)