

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: P834040

Luminaire Tested: **TTN-D3-830-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834040  
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-MQ-CG-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

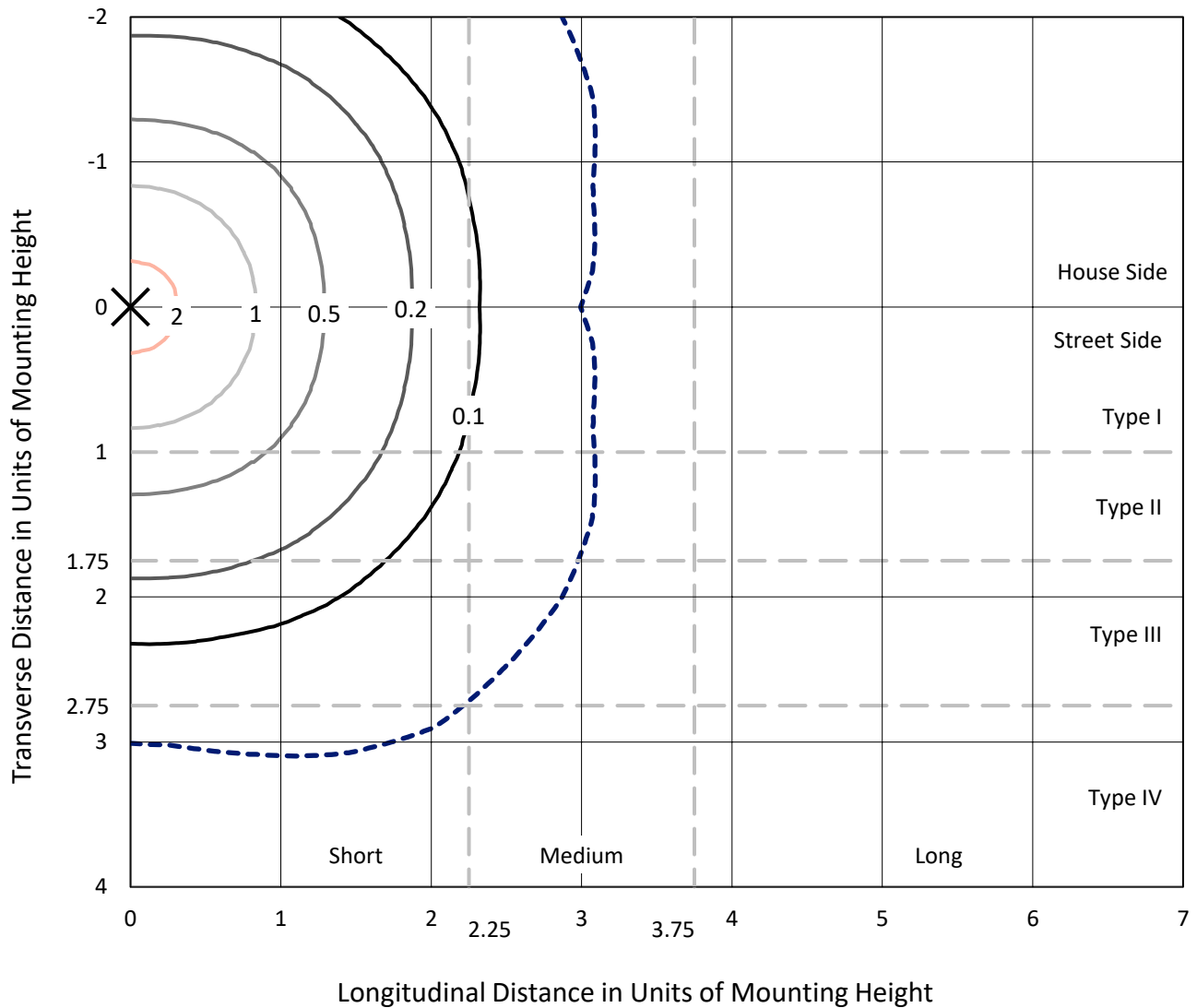
Lumens per Lamp: N/A  
Luminaire Lumens: 6687.9 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

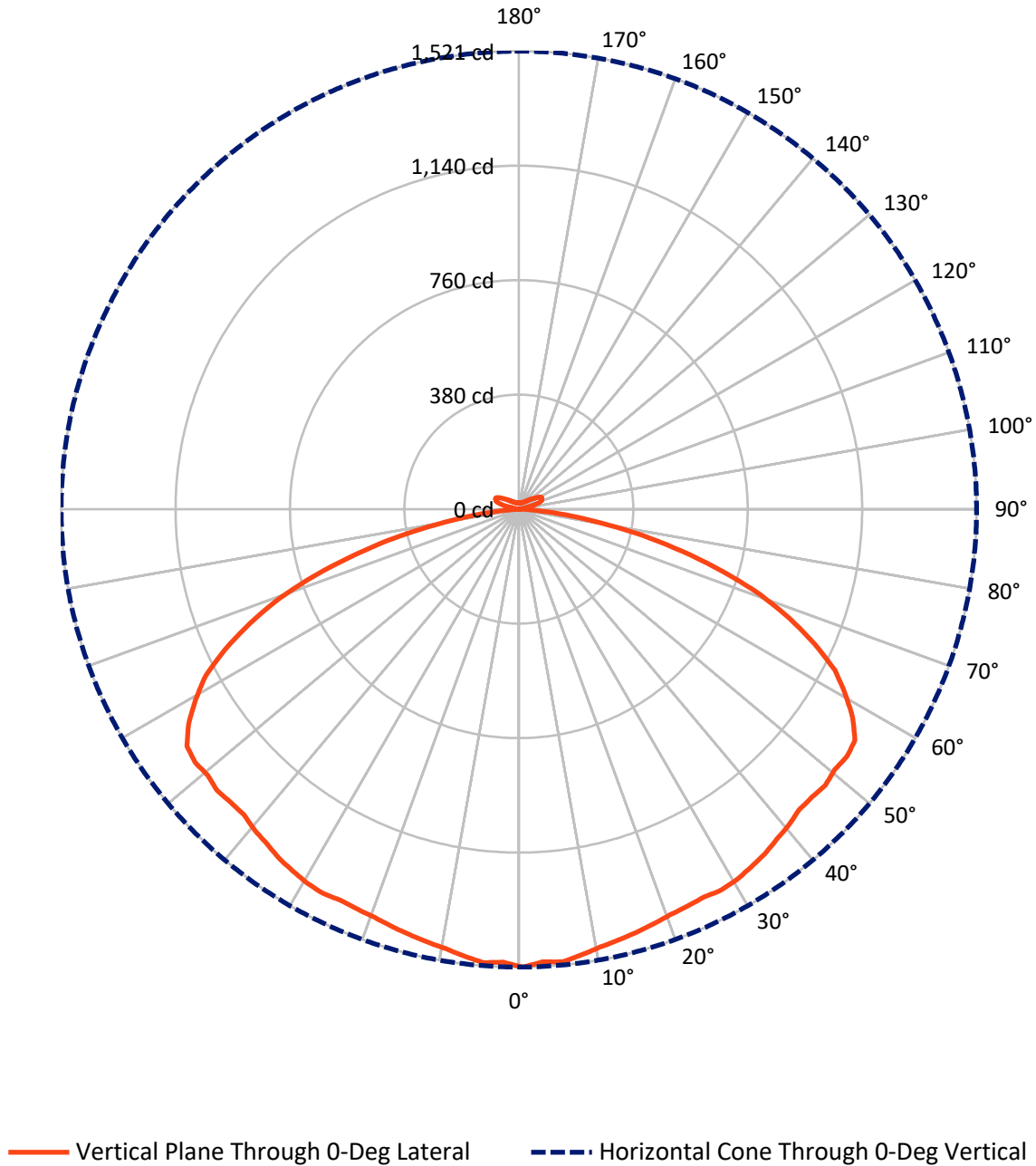
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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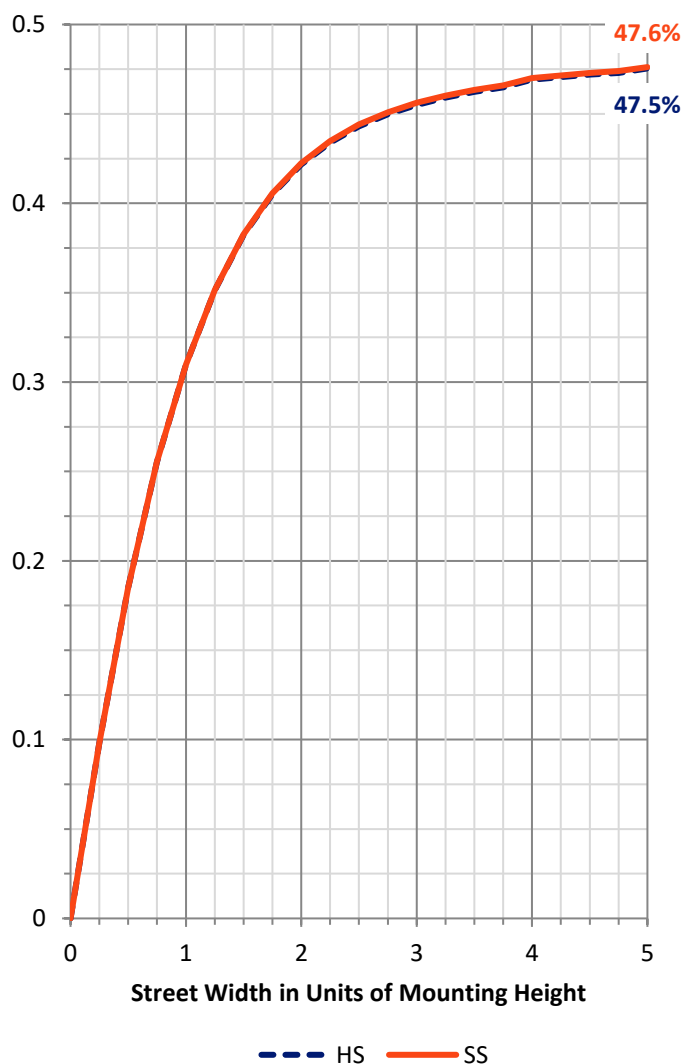
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3196.2	147.7	3343.9
	% Fixture	47.8	2.2	50.0
<b>Street Side</b>	Lumens	3196.2	147.7	3343.9
	% Fixture	47.8	2.2	50.0
<b>Total</b>	Lumens	6392.4	295.5	6687.9
	% Fixture	95.6	4.4	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	2.1
10°-20°	413.1	6.2
20°-30°	664.6	9.9
30°-40°	887.8	13.3
40°-50°	1078.6	16.1
50°-60°	1253.3	18.7
60°-70°	1156.3	17.3
70°-80°	676.9	10.1
80°-90°	119.0	1.8
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°	6392.4	95.6
0°-180°	6687.9	100.0

**Coefficient of Utilization**

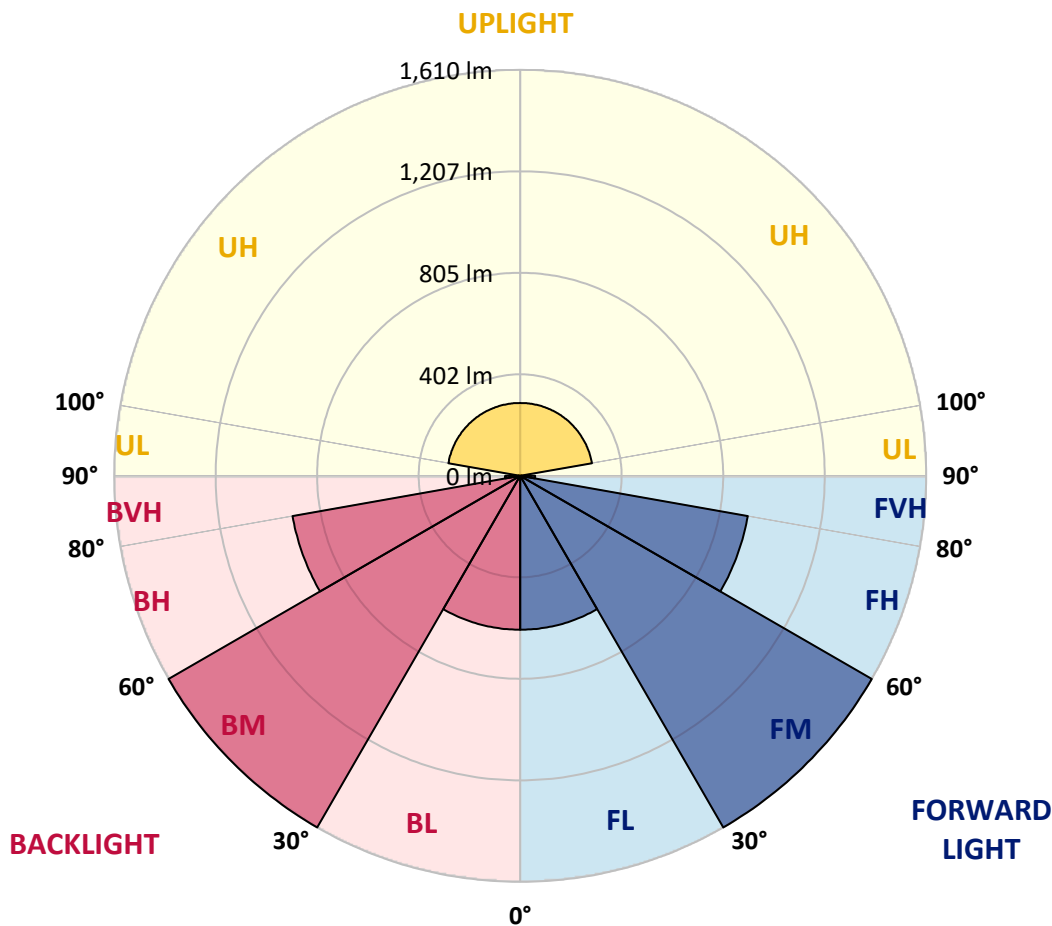


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.3	9.1			
FM (30°-60°)	1609.9	24.1			
FH (60°-80°)	916.6	13.7			G1/1800
FVH (80°-90°)	59.5	0.9			G1/100
BL (0°-30°)	610.3	9.1	B2/1000		
BM (30°-60°)	1609.9	24.1	B2/2500		
BH (60°-80°)	916.6	13.7	B2/1000		G1/1800
BVH (80°-90°)	59.5	0.9			G1/100
UL (90°-100°)	6.6	0.1		U1/10	
UH (100°-180°)	288.9	4.3		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°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1505.1	1510.3	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1510.3
5°	1510.3	1510.3	1510.3	1510.3	1505.1	1505.1	1505.1	1505.1	1505.1	1510.3	1510.3
7.5°	1494.7	1494.7	1494.7	1494.7	1494.7	1489.5	1494.7	1494.7	1494.7	1494.7	1494.7
10°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1
12.5°	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1463.6	1463.6
15°	1458.4	1458.4	1458.4	1458.4	1463.6	1463.6	1458.4	1458.4	1458.4	1458.4	1458.4
17.5°	1448.0	1448.0	1448.0	1448.0	1453.2	1453.2	1453.2	1448.0	1448.0	1448.0	1448.0
20°	1437.6	1437.6	1437.6	1437.6	1442.8	1442.8	1442.8	1442.8	1442.8	1437.6	1437.6
22.5°	1432.4	1432.4	1432.4	1432.4	1437.6	1437.6	1437.6	1437.6	1432.4	1432.4	1432.4
25°	1427.2	1432.4	1432.4	1432.4	1437.6	1442.8	1442.8	1437.6	1432.4	1427.2	1427.2
27.5°	1432.4	1432.4	1432.4	1437.6	1437.6	1442.8	1442.8	1437.6	1432.4	1432.4	1432.4
30°	1427.2	1427.2	1427.2	1432.4	1437.6	1442.8	1437.6	1437.6	1432.4	1427.2	1427.2
32.5°	1416.8	1416.8	1422.0	1427.2	1432.4	1432.4	1432.4	1427.2	1422.0	1416.8	1416.8
35°	1406.5	1406.5	1406.5	1411.7	1422.0	1422.0	1422.0	1416.8	1411.7	1406.5	1401.3
37.5°	1390.9	1396.1	1396.1	1406.5	1411.7	1416.8	1411.7	1406.5	1396.1	1390.9	1390.9
40°	1380.5	1380.5	1385.7	1396.1	1406.5	1406.5	1401.3	1396.1	1385.7	1380.5	1380.5
42.5°	1364.9	1364.9	1375.3	1385.7	1401.3	1401.3	1396.1	1385.7	1375.3	1364.9	1364.9
45°	1364.9	1364.9	1375.3	1396.1	1406.5	1416.8	1406.5	1396.1	1375.3	1364.9	1359.8
47.5°	1370.1	1370.1	1380.5	1406.5	1427.2	1437.6	1422.0	1401.3	1380.5	1370.1	1364.9
50°	1359.8	1364.9	1385.7	1411.7	1437.6	1442.8	1437.6	1406.5	1385.7	1359.8	1359.8
52.5°	1364.9	1364.9	1390.9	1432.4	1458.4	1468.7	1458.4	1432.4	1385.7	1359.8	1359.8
55°	1354.6	1349.4	1385.7	1432.4	1473.9	1494.7	1473.9	1432.4	1380.5	1349.4	1344.2
57.5°	1307.9	1307.9	1354.6	1401.3	1453.2	1463.6	1448.0	1401.3	1349.4	1307.9	1297.5
60°	1245.6	1250.8	1297.5	1349.4	1396.1	1401.3	1390.9	1349.4	1297.5	1250.8	1235.2
62.5°	1178.1	1188.5	1235.2	1287.1	1344.2	1354.6	1339.0	1287.1	1224.8	1193.7	1167.7
65°	1079.5	1095.1	1147.0	1204.1	1266.3	1261.1	1261.1	1198.9	1152.2	1100.3	1074.3
67.5°	970.5	986.1	1022.4	1100.3	1152.2	1147.0	1141.8	1100.3	1022.4	986.1	970.5
70°	851.1	861.5	897.9	975.7	1022.4	1027.6	1012.0	970.5	897.9	871.9	846.0
72.5°	711.0	716.2	768.1	830.4	877.1	871.9	866.7	830.4	762.9	737.0	705.8
75°	560.5	565.7	612.4	669.5	705.8	700.6	695.4	669.5	612.4	581.3	555.3
77.5°	420.4	415.2	461.9	503.4	524.2	529.4	519.0	498.2	456.7	430.8	415.2
80°	275.1	269.9	311.4	342.5	358.1	358.1	352.9	337.3	306.2	285.4	275.1
82.5°	155.7	150.5	176.5	197.2	212.8	207.6	202.4	192.0	176.5	160.9	150.5
85°	57.1	57.1	72.7	83.0	93.4	93.4	88.2	83.0	67.5	62.3	57.1
87.5°	5.2	5.2	10.4	15.6	15.6	15.6	10.4	10.4	5.2	5.2	5.2
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)