

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: P834043

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

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834043  
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-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

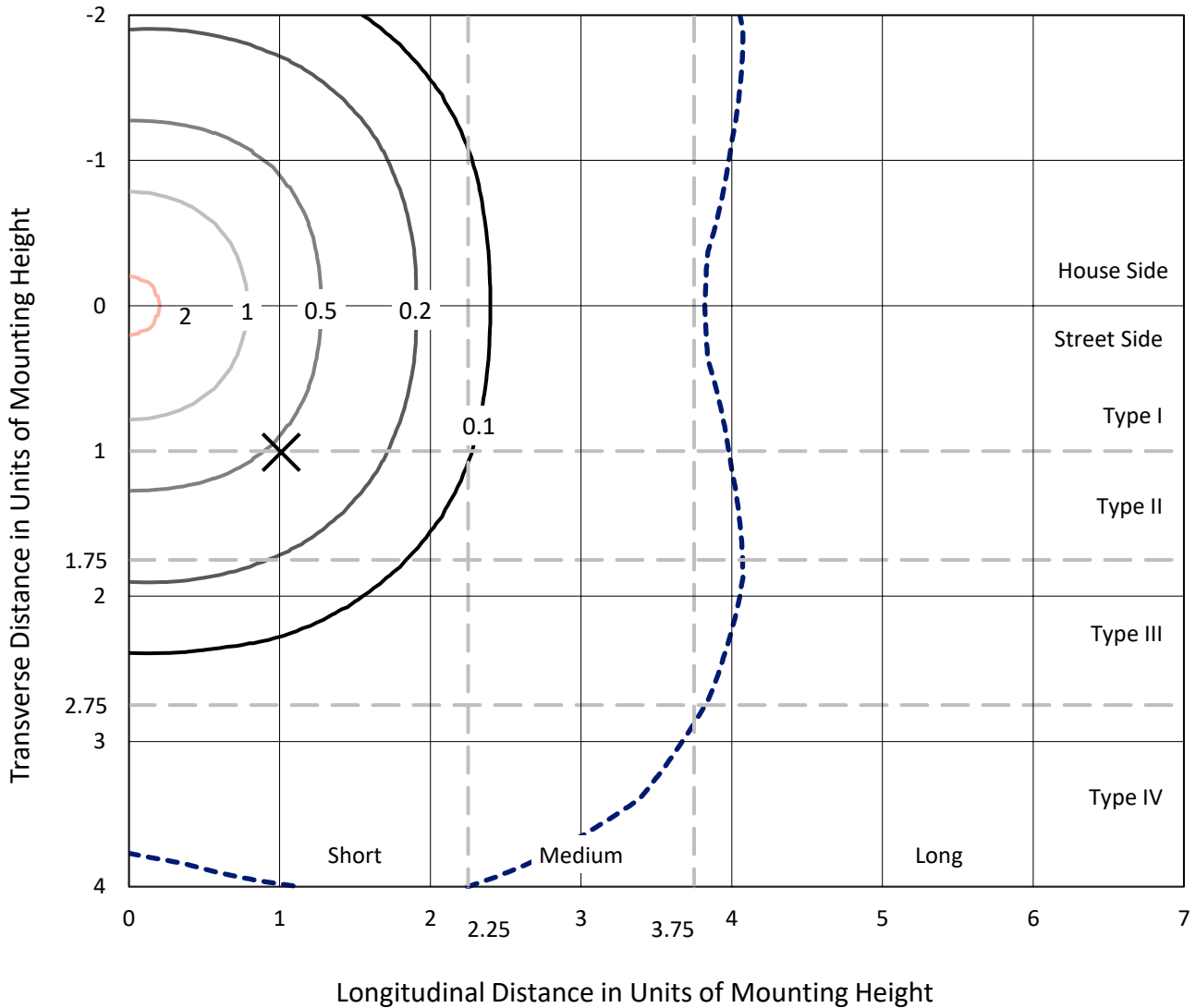
Lumens per Lamp: N/A  
Luminaire Lumens: 6904.9 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G2  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

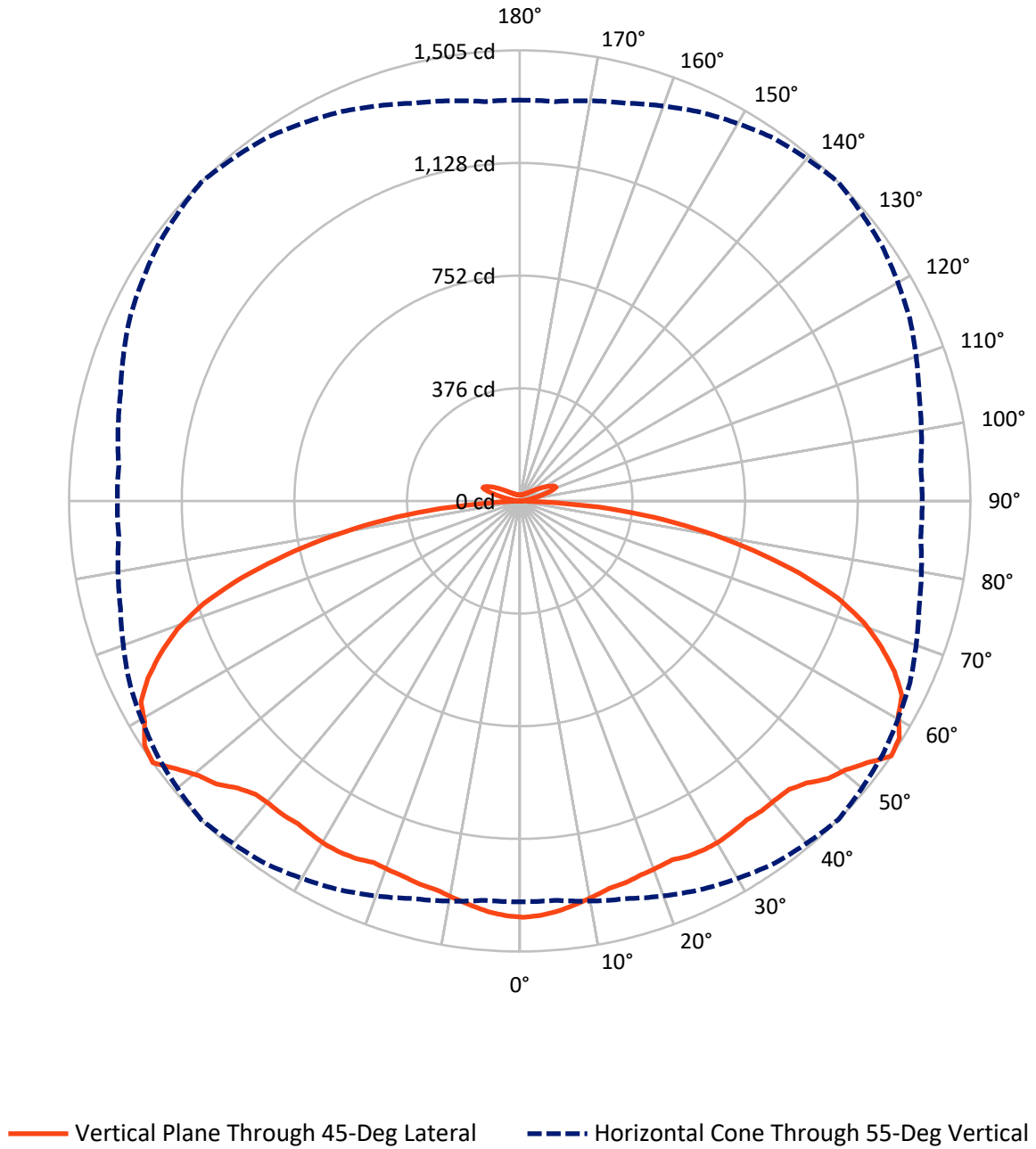
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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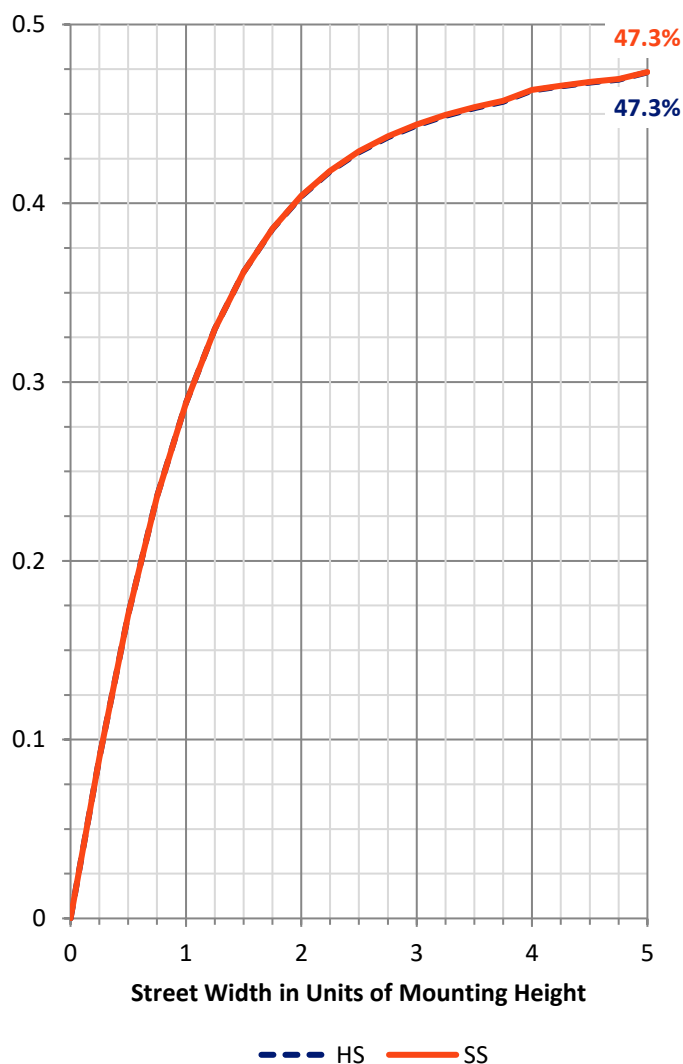
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3304.7	147.7	3452.4
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3304.7	147.7	3452.4
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	6609.4	295.5	6904.9
	% Fixture	95.7	4.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	1.9
10°-20°	373.6	5.4
20°-30°	603.9	8.7
30°-40°	817.1	11.8
40°-50°	1023.5	14.8
50°-60°	1254.3	18.2
60°-70°	1257.3	18.2
70°-80°	907.3	13.1
80°-90°	242.3	3.5
90°-100°	6.6	0.1
100°-110°	67.0	1.0
110°-120°	98.0	1.4
120°-130°	56.9	0.8
130°-140°	30.1	0.4
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°	6609.4	95.7
0°-180°	6904.9	100.0

**Coefficient of Utilization**



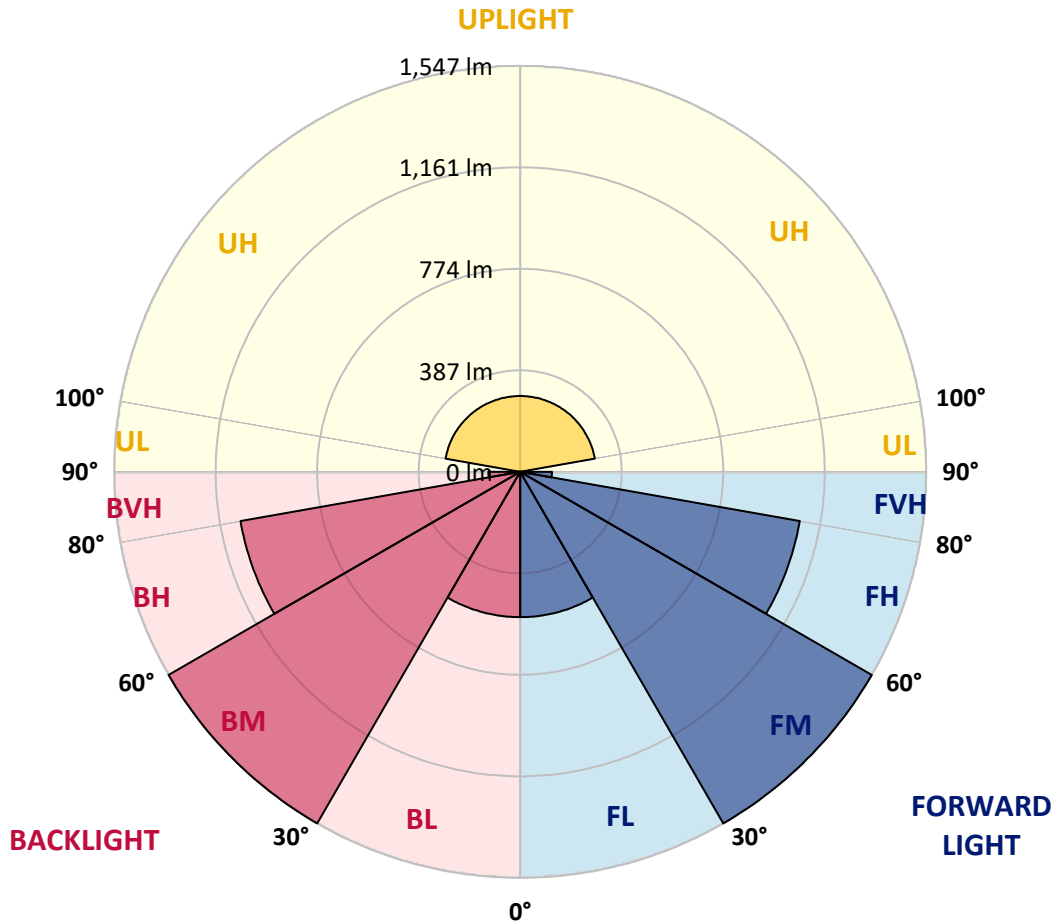
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.8	8.0			
FM (30°-60°)	1547.4	22.4			
FH (60°-80°)	1082.3	15.7			G1/1800
FVH (80°-90°)	121.2	1.8			G2/225
BL (0°-30°)	553.8	8.0	B2/1000		
BM (30°-60°)	1547.4	22.4	B2/2500		
BH (60°-80°)	1082.3	15.7	B3/2500		G1/1800
BVH (80°-90°)	121.2	1.8			G2/225
UL (90°-100°)	6.6	0.1		U1/10	
UH (100°-180°)	288.9	4.2		U3/500	

**BUG Rating: B3-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1385.3	1385.3	1385.3	1380.1	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3
5°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
7.5°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4
10°	1338.6	1338.6	1338.6	1338.6	1343.8	1343.8	1343.8	1343.8	1338.6	1338.6	1338.6
12.5°	1323.0	1323.0	1323.0	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1323.0
15°	1317.8	1317.8	1317.8	1317.8	1323.0	1323.0	1323.0	1323.0	1317.8	1317.8	1317.8
17.5°	1307.5	1307.5	1307.5	1312.7	1312.7	1312.7	1312.7	1312.7	1307.5	1307.5	1307.5
20°	1297.1	1297.1	1302.3	1302.3	1307.5	1307.5	1307.5	1302.3	1302.3	1297.1	1302.3
22.5°	1297.1	1297.1	1297.1	1302.3	1302.3	1302.3	1302.3	1297.1	1297.1	1297.1	1297.1
25°	1297.1	1297.1	1302.3	1307.5	1307.5	1312.7	1307.5	1302.3	1297.1	1297.1	1297.1
27.5°	1302.3	1302.3	1307.5	1312.7	1312.7	1317.8	1312.7	1307.5	1302.3	1302.3	1302.3
30°	1302.3	1302.3	1307.5	1312.7	1312.7	1317.8	1312.7	1307.5	1302.3	1302.3	1302.3
32.5°	1291.9	1297.1	1302.3	1307.5	1312.7	1312.7	1312.7	1307.5	1302.3	1297.1	1297.1
35°	1286.7	1291.9	1297.1	1302.3	1307.5	1307.5	1307.5	1302.3	1297.1	1291.9	1291.9
37.5°	1281.5	1281.5	1291.9	1297.1	1302.3	1312.7	1307.5	1297.1	1291.9	1286.7	1286.7
40°	1276.3	1281.5	1286.7	1297.1	1302.3	1312.7	1307.5	1297.1	1286.7	1281.5	1281.5
42.5°	1276.3	1276.3	1286.7	1297.1	1307.5	1317.8	1312.7	1302.3	1286.7	1281.5	1276.3
45°	1281.5	1286.7	1302.3	1323.0	1333.4	1343.8	1338.6	1323.0	1297.1	1286.7	1281.5
47.5°	1302.3	1307.5	1323.0	1343.8	1369.7	1385.3	1369.7	1343.8	1323.0	1307.5	1302.3
50°	1312.7	1317.8	1343.8	1369.7	1406.0	1411.2	1406.0	1369.7	1343.8	1317.8	1317.8
52.5°	1333.4	1333.4	1364.5	1411.2	1442.4	1452.7	1442.4	1416.4	1364.5	1338.6	1333.4
55°	1338.6	1338.6	1374.9	1432.0	1478.7	1504.6	1478.7	1437.2	1380.1	1343.8	1343.8
57.5°	1307.5	1317.8	1364.5	1421.6	1478.7	1494.3	1478.7	1426.8	1369.7	1323.0	1317.8
60°	1271.2	1286.7	1328.2	1395.7	1437.2	1452.7	1442.4	1395.7	1333.4	1286.7	1281.5
62.5°	1234.8	1255.6	1302.3	1354.2	1416.4	1432.0	1416.4	1354.2	1302.3	1255.6	1234.8
65°	1157.0	1177.8	1245.2	1307.5	1364.5	1374.9	1369.7	1307.5	1245.2	1177.8	1167.4
67.5°	1079.2	1094.7	1141.4	1240.0	1286.7	1302.3	1291.9	1234.8	1146.6	1094.7	1089.6
70°	996.2	1011.7	1053.2	1146.6	1193.3	1219.3	1198.5	1146.6	1053.2	1011.7	1006.5
72.5°	887.2	908.0	954.7	1037.7	1084.4	1110.3	1089.6	1037.7	954.7	902.8	892.4
75°	757.5	773.1	830.1	897.6	944.3	965.0	949.5	902.8	830.1	773.1	767.9
77.5°	617.4	633.0	684.9	752.3	778.3	799.0	783.4	747.1	684.9	633.0	627.8
80°	467.0	482.5	529.2	581.1	607.0	627.8	612.2	575.9	529.2	482.5	477.3
82.5°	306.1	321.7	363.2	404.7	430.6	451.4	435.8	399.5	368.4	321.7	316.5
85°	129.7	145.3	181.6	223.1	243.9	264.6	249.0	217.9	181.6	150.5	145.3
87.5°	10.4	15.6	15.6	20.8	15.6	25.9	15.6	15.6	15.6	15.6	15.6
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)