

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: P833923

Luminaire Tested: **TTN-D3-740-U-MQ-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833923  
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-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

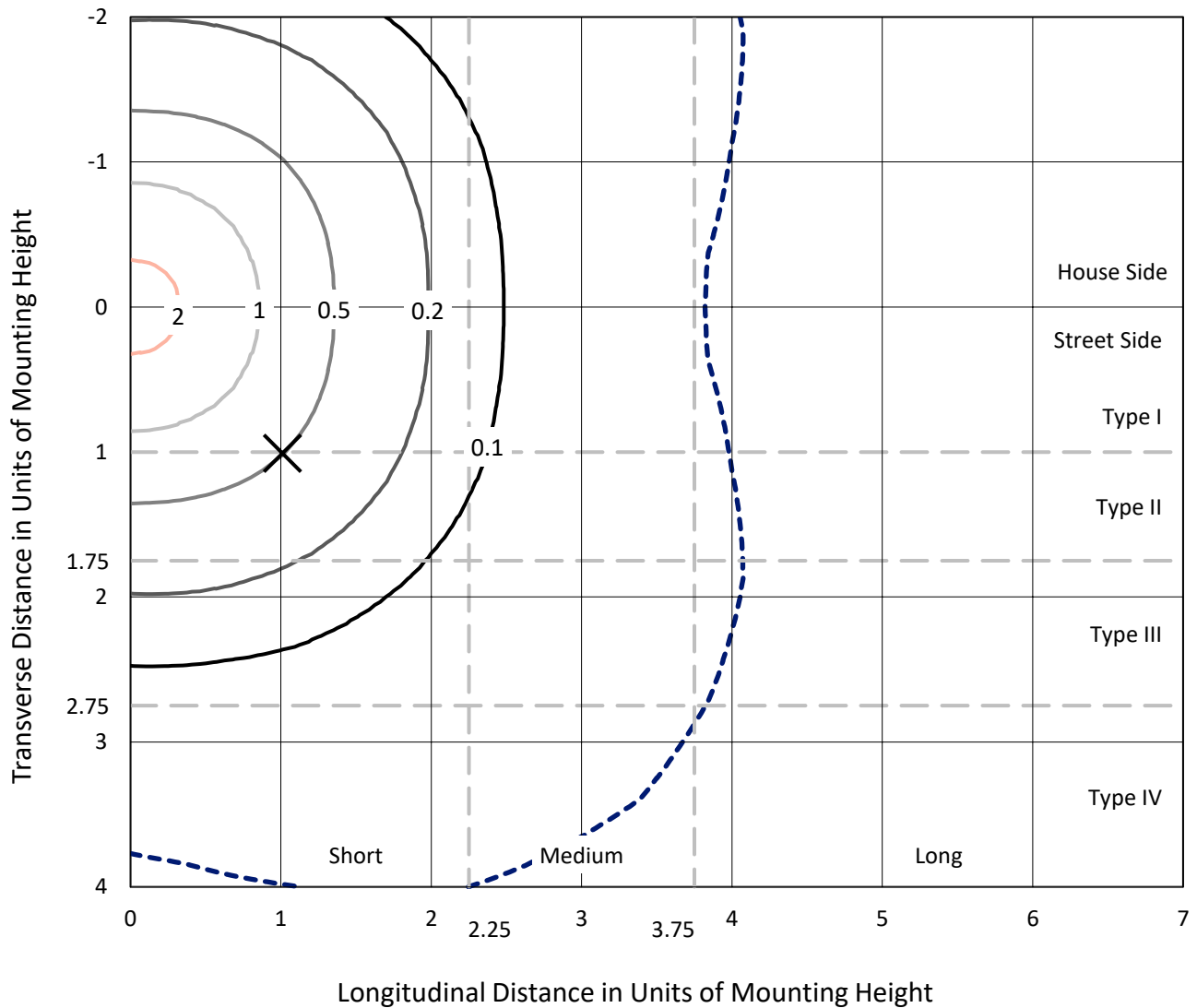
Lumens per Lamp: N/A  
Luminaire Lumens: 7700.9 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G2  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

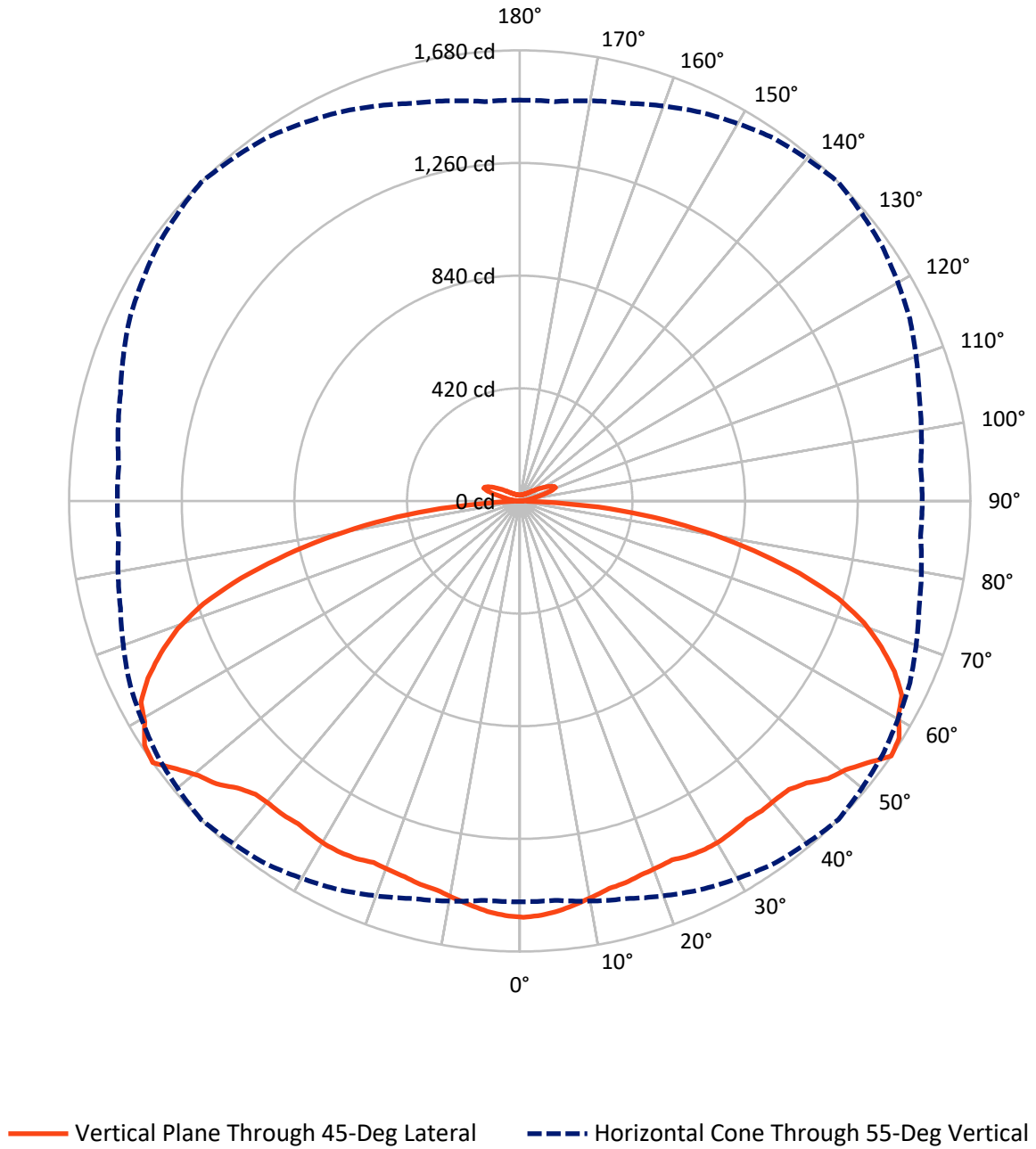
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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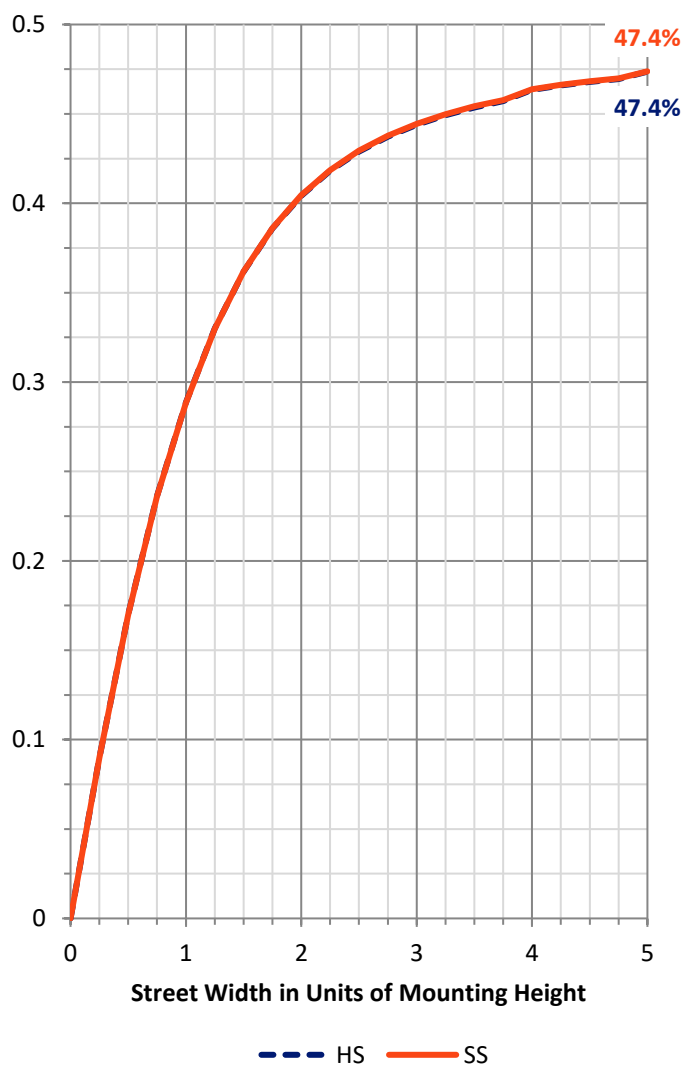
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3688.7	161.7	3850.4
	% Fixture	47.9	2.1	50.0
<b>Street Side</b>	Lumens	3688.7	161.7	3850.4
	% Fixture	47.9	2.1	50.0
<b>Total</b>	Lumens	7377.4	323.4	7700.9
	% Fixture	95.8	4.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	1.9
10°-20°	417.0	5.4
20°-30°	674.0	8.8
30°-40°	912.1	11.8
40°-50°	1142.4	14.8
50°-60°	1400.0	18.2
60°-70°	1403.4	18.2
70°-80°	1012.7	13.2
80°-90°	270.5	3.5
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.4
120°-130°	62.3	0.8
130°-140°	33.0	0.4
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	7377.4	95.8
0°-180°	7700.9	100.0

**Coefficient of Utilization**



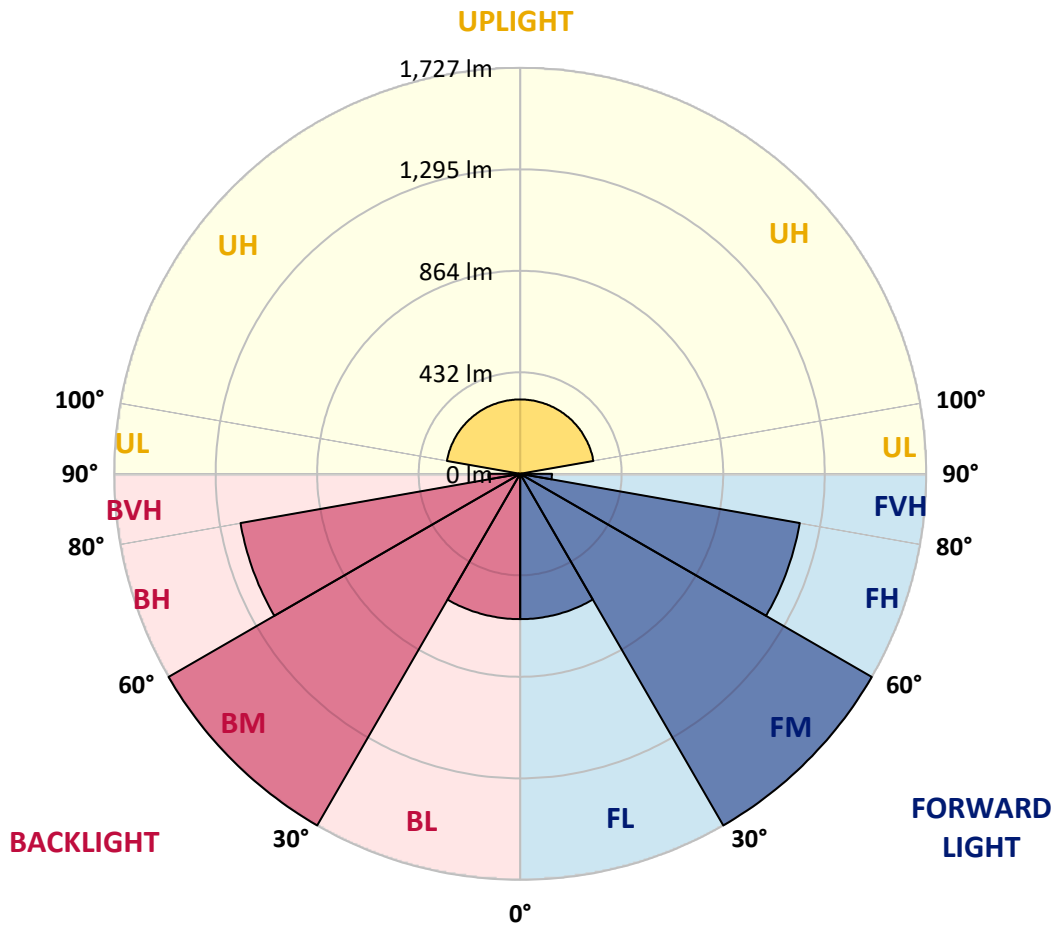
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.2	8.0			
FM (30°-60°)	1727.2	22.4			
FH (60°-80°)	1208.1	15.7			G1/1800
FVH (80°-90°)	135.2	1.8			G2/225
BL (0°-30°)	618.2	8.0	B2/1000		
BM (30°-60°)	1727.2	22.4	B2/2500		
BH (60°-80°)	1208.1	15.7	B3/2500		G1/1800
BVH (80°-90°)	135.2	1.8			G2/225
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.1		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°	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1
2.5°	1546.3	1546.3	1546.3	1540.5	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
5°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
7.5°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
10°	1494.2	1494.2	1494.2	1494.2	1499.9	1499.9	1499.9	1499.9	1494.2	1494.2	1494.2
12.5°	1476.8	1476.8	1476.8	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1476.8
15°	1471.0	1471.0	1471.0	1471.0	1476.8	1476.8	1476.8	1476.8	1471.0	1471.0	1471.0
17.5°	1459.4	1459.4	1459.4	1465.2	1465.2	1465.2	1465.2	1465.2	1459.4	1459.4	1459.4
20°	1447.8	1447.8	1453.6	1453.6	1459.4	1459.4	1459.4	1453.6	1453.6	1447.8	1453.6
22.5°	1447.8	1447.8	1447.8	1453.6	1453.6	1453.6	1453.6	1447.8	1447.8	1447.8	1447.8
25°	1447.8	1447.8	1453.6	1459.4	1459.4	1465.2	1459.4	1453.6	1447.8	1447.8	1447.8
27.5°	1453.6	1453.6	1459.4	1465.2	1465.2	1471.0	1465.2	1459.4	1453.6	1453.6	1453.6
30°	1453.6	1453.6	1459.4	1465.2	1465.2	1471.0	1465.2	1459.4	1453.6	1453.6	1453.6
32.5°	1442.0	1447.8	1453.6	1459.4	1465.2	1465.2	1465.2	1459.4	1453.6	1447.8	1447.8
35°	1436.2	1442.0	1447.8	1453.6	1459.4	1459.4	1459.4	1453.6	1447.8	1442.0	1442.0
37.5°	1430.4	1430.4	1442.0	1447.8	1453.6	1465.2	1459.4	1447.8	1442.0	1436.2	1436.2
40°	1424.7	1430.4	1436.2	1447.8	1453.6	1465.2	1459.4	1447.8	1436.2	1430.4	1430.4
42.5°	1424.7	1424.7	1436.2	1447.8	1459.4	1471.0	1465.2	1453.6	1436.2	1430.4	1424.7
45°	1430.4	1436.2	1453.6	1476.8	1488.4	1499.9	1494.2	1476.8	1447.8	1436.2	1430.4
47.5°	1453.6	1459.4	1476.8	1499.9	1528.9	1546.3	1528.9	1499.9	1476.8	1459.4	1453.6
50°	1465.2	1471.0	1499.9	1528.9	1569.4	1575.2	1569.4	1528.9	1499.9	1471.0	1471.0
52.5°	1488.4	1488.4	1523.1	1575.2	1610.0	1621.6	1610.0	1581.0	1523.1	1494.2	1488.4
55°	1494.2	1494.2	1534.7	1598.4	1650.5	1679.5	1650.5	1604.2	1540.5	1499.9	1499.9
57.5°	1459.4	1471.0	1523.1	1586.8	1650.5	1667.9	1650.5	1592.6	1528.9	1476.8	1471.0
60°	1418.9	1436.2	1482.6	1557.9	1604.2	1621.6	1610.0	1557.9	1488.4	1436.2	1430.4
62.5°	1378.3	1401.5	1453.6	1511.5	1581.0	1598.4	1581.0	1511.5	1453.6	1401.5	1378.3
65°	1291.5	1314.6	1389.9	1459.4	1523.1	1534.7	1528.9	1459.4	1389.9	1314.6	1303.0
67.5°	1204.6	1222.0	1274.1	1384.1	1436.2	1453.6	1442.0	1378.3	1279.9	1222.0	1216.2
70°	1111.9	1129.3	1175.6	1279.9	1332.0	1361.0	1337.8	1279.9	1175.6	1129.3	1123.5
72.5°	990.3	1013.5	1065.6	1158.3	1210.4	1239.3	1216.2	1158.3	1065.6	1007.7	996.1
75°	845.5	862.9	926.6	1001.9	1054.0	1077.2	1059.8	1007.7	926.6	862.9	857.1
77.5°	689.2	706.5	764.4	839.7	868.7	891.9	874.5	833.9	764.4	706.5	700.7
80°	521.2	538.6	590.7	648.6	677.6	700.7	683.4	642.8	590.7	538.6	532.8
82.5°	341.7	359.1	405.4	451.7	480.7	503.8	486.5	445.9	411.2	359.1	353.3
85°	144.8	162.2	202.7	249.0	272.2	295.4	278.0	243.2	202.7	167.9	162.2
87.5°	11.6	17.4	17.4	23.2	17.4	29.0	17.4	17.4	17.4	17.4	17.4
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)