

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: P834033

Luminaire Tested: **TTN-D3-830-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834033
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-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7081.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

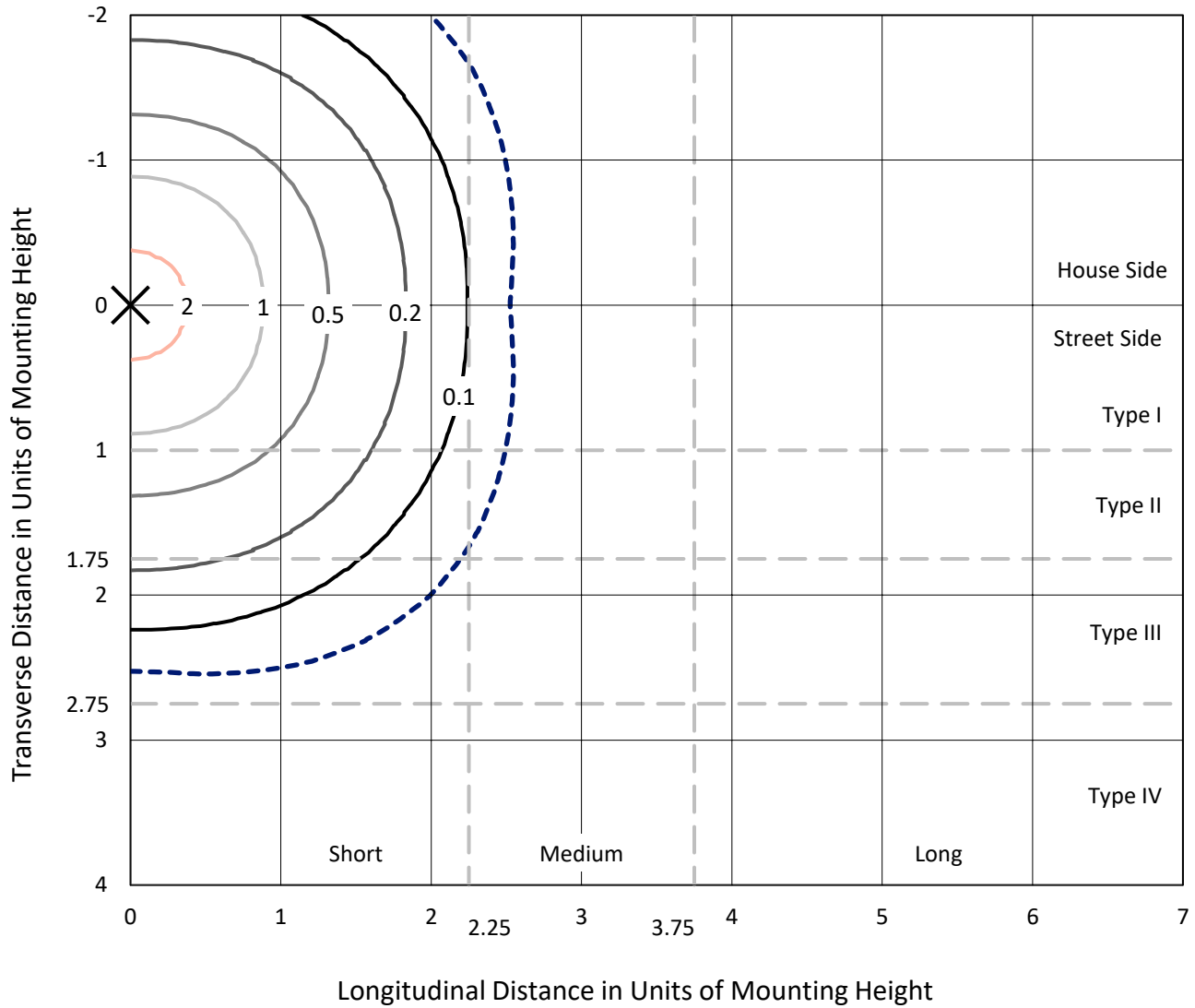
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

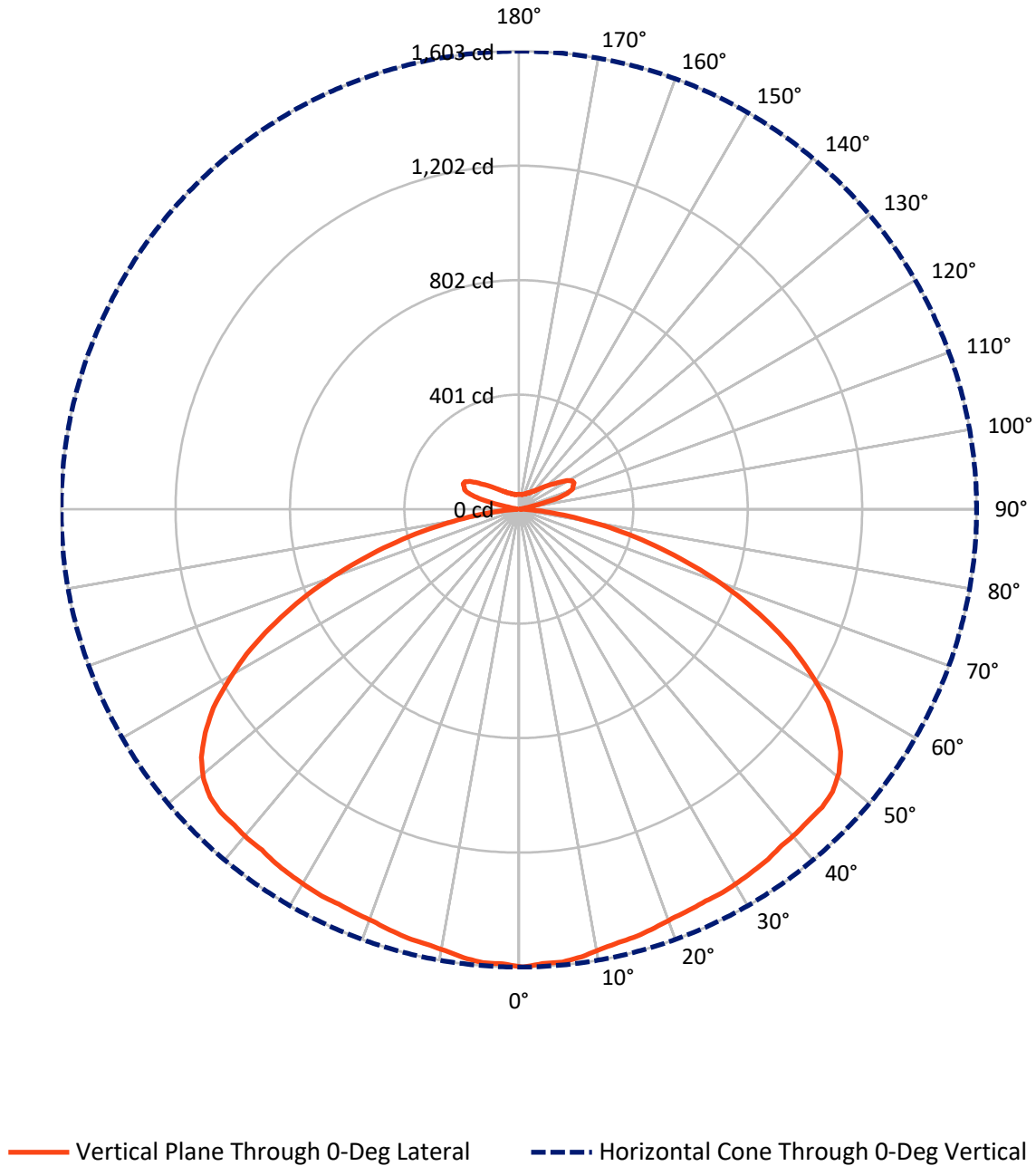
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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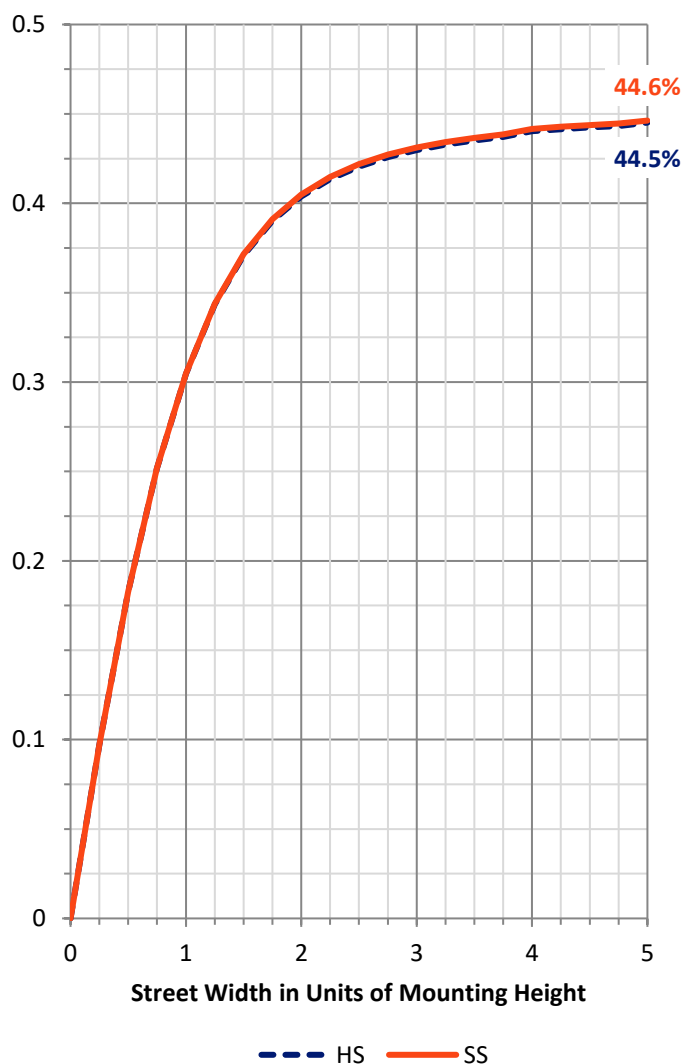
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3170.5	370.3	3540.8
	% Fixture	44.8	5.2	50.0
Street Side	Lumens	3170.5	370.3	3540.8
	% Fixture	44.8	5.2	50.0
Total	Lumens	6341.0	740.7	7081.7
	% Fixture	89.5	10.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.1
10°-20°	438.9	6.2
20°-30°	706.8	10.0
30°-40°	950.6	13.4
40°-50°	1172.9	16.6
50°-60°	1258.3	17.8
60°-70°	1020.4	14.4
70°-80°	540.8	7.6
80°-90°	101.0	1.4
90°-100°	16.5	0.2
100°-110°	168.0	2.4
110°-120°	245.6	3.5
120°-130°	142.5	2.0
130°-140°	75.5	1.1
140°-150°	44.9	0.6
150°-160°	27.6	0.4
160°-170°	15.1	0.2
170°-180°	4.9	0.1
0°-90°	6341.0	89.5
0°-180°	7081.7	100.0

Coefficient of Utilization

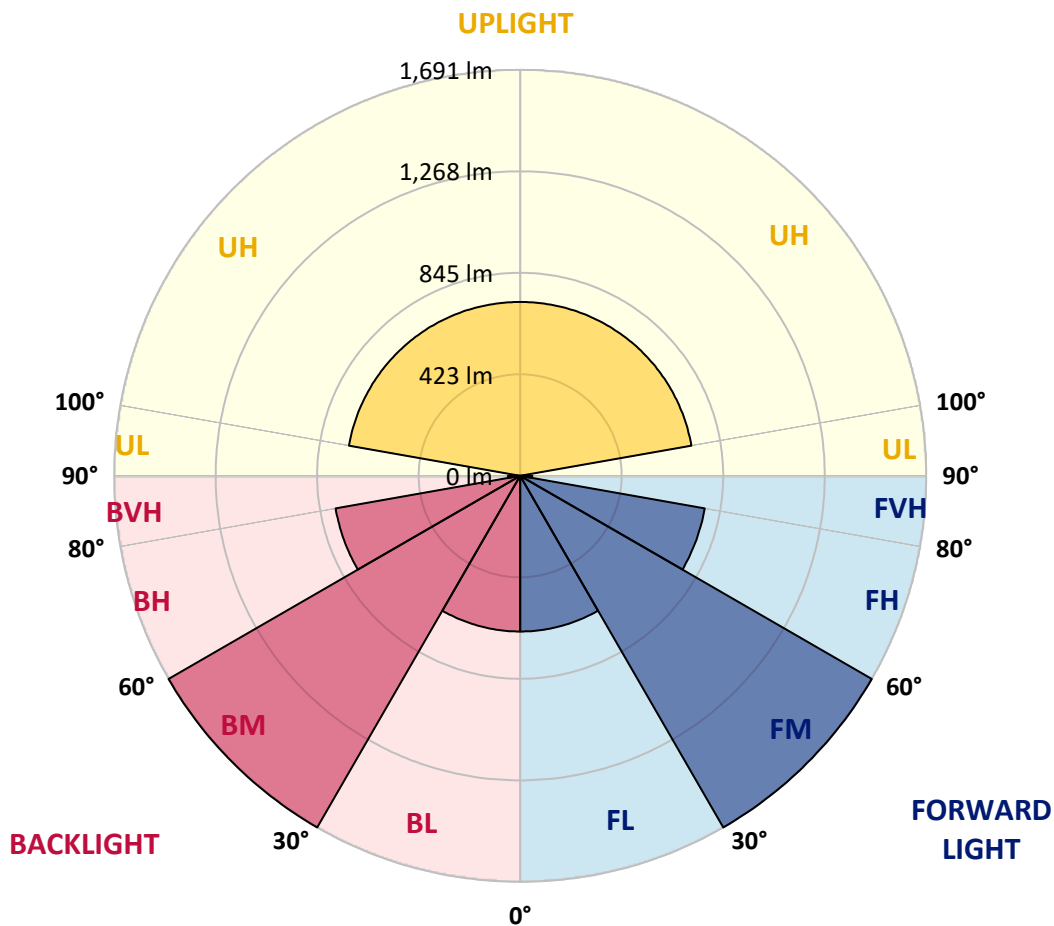


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.4	9.2			
FM (30°-60°)	1690.9	23.9			
FH (60°-80°)	780.6	11.0			G1/1800
FVH (80°-90°)	50.5	0.7			G1/100
BL (0°-30°)	648.4	9.2	B2/1000		
BM (30°-60°)	1690.9	23.9	B2/2500		
BH (60°-80°)	780.6	11.0	B2/1000		G1/1800
BVH (80°-90°)	50.5	0.7			G1/100
UL (90°-100°)	16.5	0.2		U2/50	
UH (100°-180°)	724.2	10.2		U4/1000	

BUG Rating: B2-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1598.0
5°	1592.8	1592.8	1592.8	1592.8	1587.6	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
7.5°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
10°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
12.5°	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5	1556.5
15°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1546.1	1546.1
17.5°	1540.9	1540.9	1540.9	1540.9	1546.1	1546.1	1546.1	1540.9	1540.9	1540.9	1540.9
20°	1530.5	1530.5	1530.5	1535.7	1535.7	1535.7	1535.7	1535.7	1530.5	1530.5	1530.5
22.5°	1525.3	1525.3	1525.3	1525.3	1530.5	1530.5	1530.5	1530.5	1525.3	1525.3	1525.3
25°	1520.1	1520.1	1525.3	1525.3	1530.5	1530.5	1530.5	1525.3	1525.3	1520.1	1520.1
27.5°	1520.1	1520.1	1525.3	1525.3	1530.5	1530.5	1530.5	1530.5	1525.3	1520.1	1520.1
30°	1515.0	1520.1	1520.1	1525.3	1530.5	1530.5	1530.5	1525.3	1520.1	1515.0	1515.0
32.5°	1509.8	1509.8	1515.0	1520.1	1525.3	1525.3	1525.3	1520.1	1515.0	1509.8	1504.6
35°	1504.6	1504.6	1504.6	1515.0	1520.1	1520.1	1520.1	1515.0	1504.6	1499.4	1499.4
37.5°	1494.2	1499.4	1504.6	1509.8	1520.1	1520.1	1520.1	1509.8	1499.4	1494.2	1489.0
40°	1494.2	1494.2	1504.6	1509.8	1525.3	1525.3	1520.1	1509.8	1499.4	1489.0	1483.8
42.5°	1489.0	1494.2	1504.6	1520.1	1535.7	1535.7	1530.5	1515.0	1499.4	1489.0	1483.8
45°	1489.0	1489.0	1504.6	1525.3	1546.1	1551.3	1540.9	1525.3	1504.6	1483.8	1483.8
47.5°	1478.6	1478.6	1499.4	1525.3	1551.3	1556.5	1551.3	1525.3	1499.4	1483.8	1478.6
50°	1452.7	1452.7	1478.6	1509.8	1540.9	1551.3	1540.9	1520.1	1483.8	1463.1	1457.9
52.5°	1411.2	1411.2	1437.1	1478.6	1509.8	1525.3	1515.0	1489.0	1452.7	1421.6	1416.4
55°	1348.9	1354.1	1380.1	1426.8	1463.1	1478.6	1468.3	1437.1	1395.6	1364.5	1354.1
57.5°	1276.3	1276.3	1312.6	1359.3	1395.6	1411.2	1400.8	1369.7	1323.0	1291.9	1281.5
60°	1177.7	1182.9	1214.0	1276.3	1312.6	1328.2	1317.8	1281.5	1229.6	1193.3	1182.9
62.5°	1079.1	1084.3	1115.5	1167.3	1208.9	1219.2	1208.9	1172.5	1125.8	1089.5	1079.1
65°	965.0	970.2	1006.5	1053.2	1084.3	1099.9	1084.3	1053.2	1011.7	975.4	970.2
67.5°	845.7	850.9	887.2	928.7	959.8	970.2	954.6	928.7	887.2	856.1	845.7
70°	721.2	726.4	757.5	793.8	819.7	830.1	819.7	788.6	757.5	726.4	721.2
72.5°	591.5	596.6	627.8	658.9	679.7	690.0	674.5	653.7	622.6	596.6	591.5
75°	466.9	466.9	492.9	518.8	539.6	544.8	534.4	518.8	492.9	472.1	461.8
77.5°	347.6	347.6	373.6	389.1	399.5	409.9	399.5	383.9	368.4	347.6	347.6
80°	233.5	233.5	254.2	264.6	275.0	280.2	275.0	264.6	254.2	238.7	233.5
82.5°	140.1	140.1	150.5	160.8	160.8	166.0	166.0	160.8	150.5	140.1	140.1
85°	62.3	57.1	67.4	72.6	72.6	77.8	77.8	72.6	67.4	62.3	62.3
87.5°	5.2	10.4	10.4	15.6	15.6	15.6	15.6	15.6	10.4	10.4	10.4
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)