

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: P833881

Luminaire Tested: **TTN-D3-735-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833881
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-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7008.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

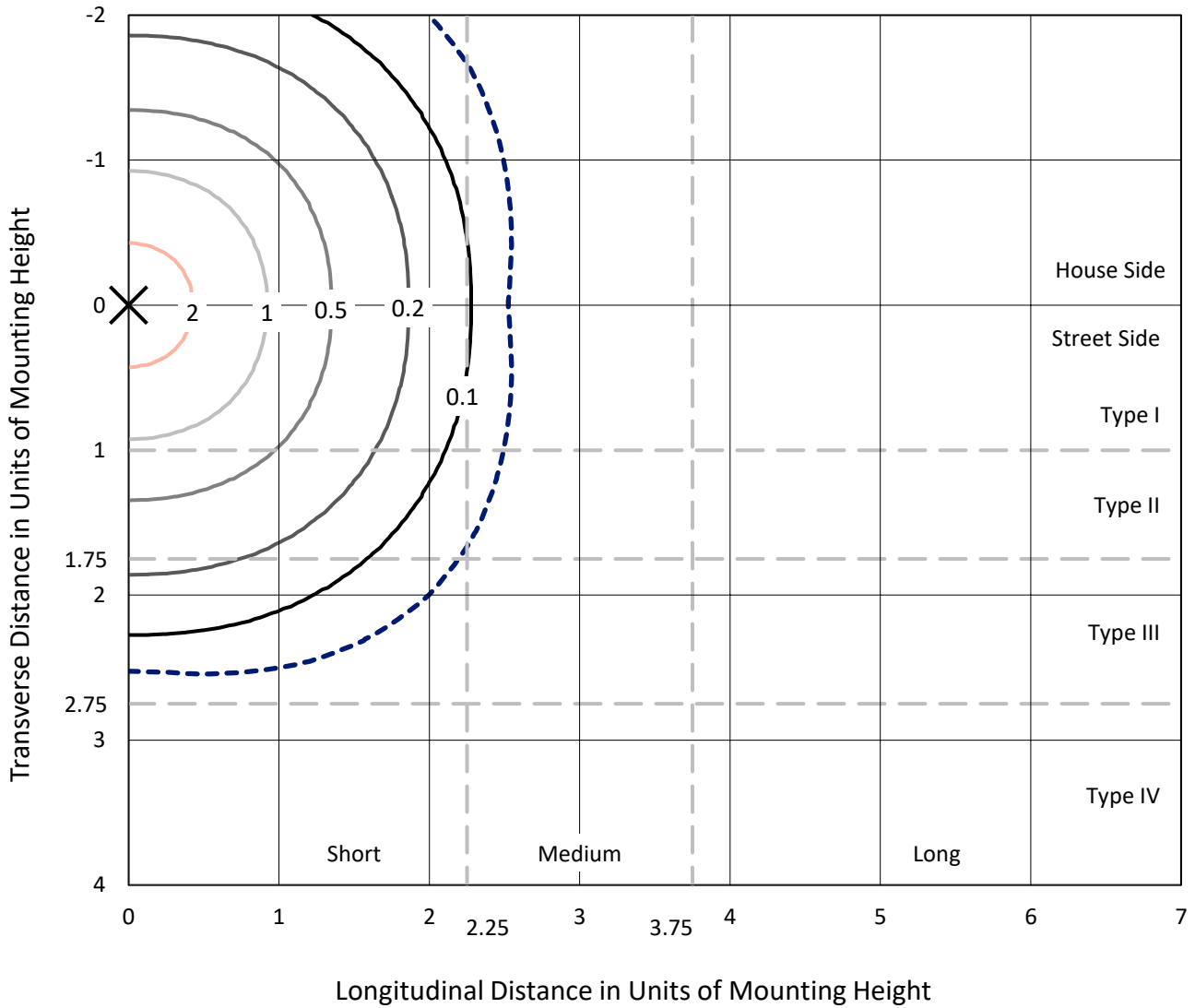
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

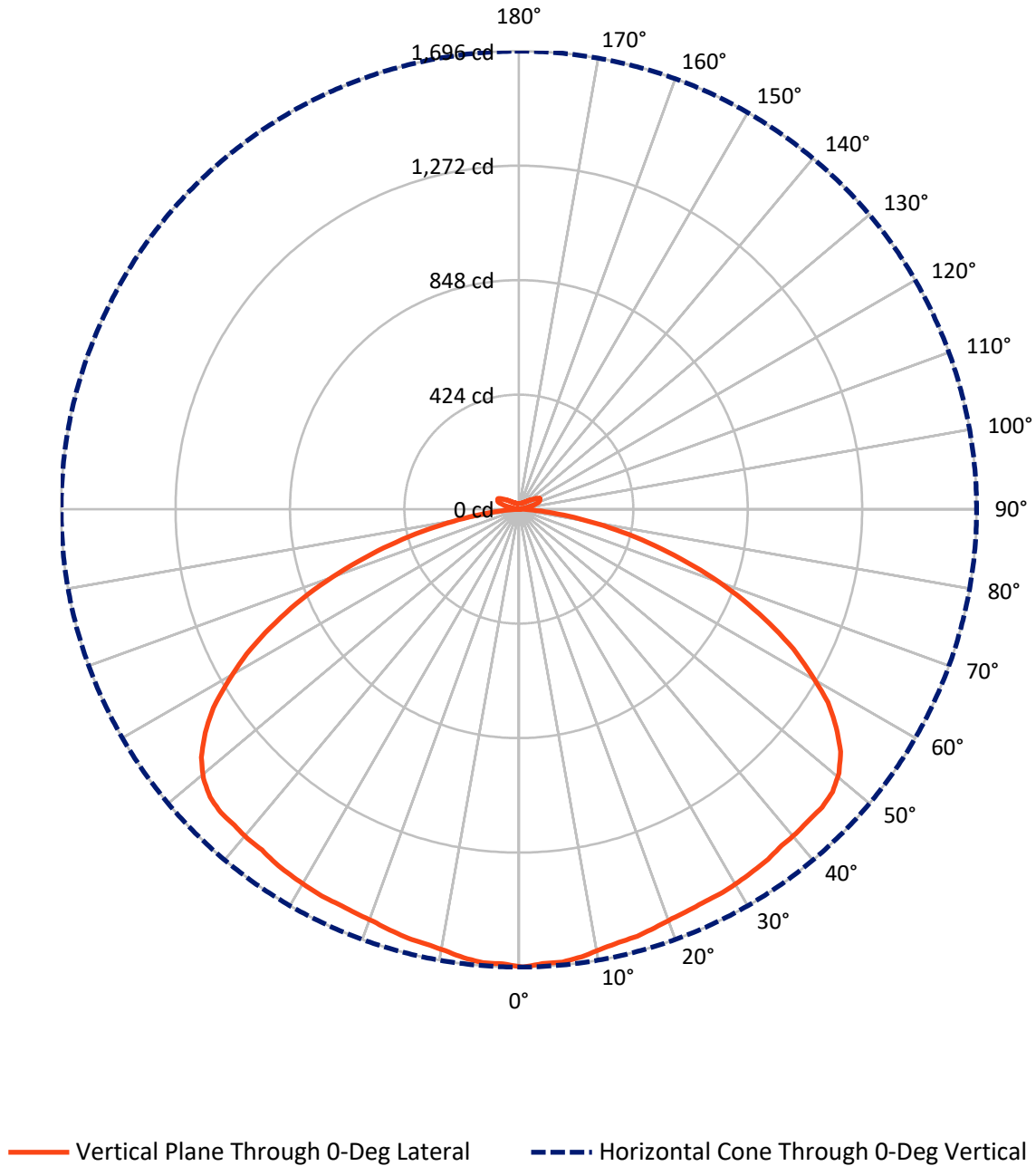
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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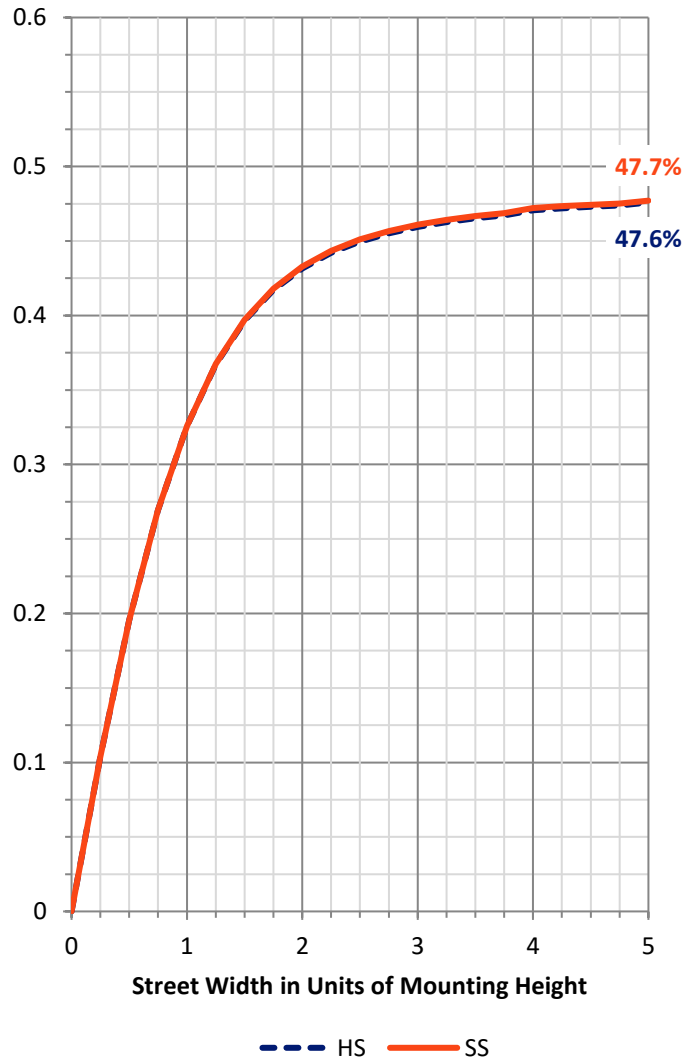
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.2	150.2	3504.5
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3354.2	150.2	3504.5
	% Fixture	47.9	2.1	50.0
Total	Lumens	6708.4	300.5	7008.9
	% Fixture	95.7	4.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.3
10°-20°	464.4	6.6
20°-30°	747.8	10.7
30°-40°	1005.8	14.4
40°-50°	1241.0	17.7
50°-60°	1331.4	19.0
60°-70°	1079.7	15.4
70°-80°	572.2	8.2
80°-90°	106.2	1.5
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°	6708.4	95.7
0°-180°	7008.9	100.0

Coefficient of Utilization



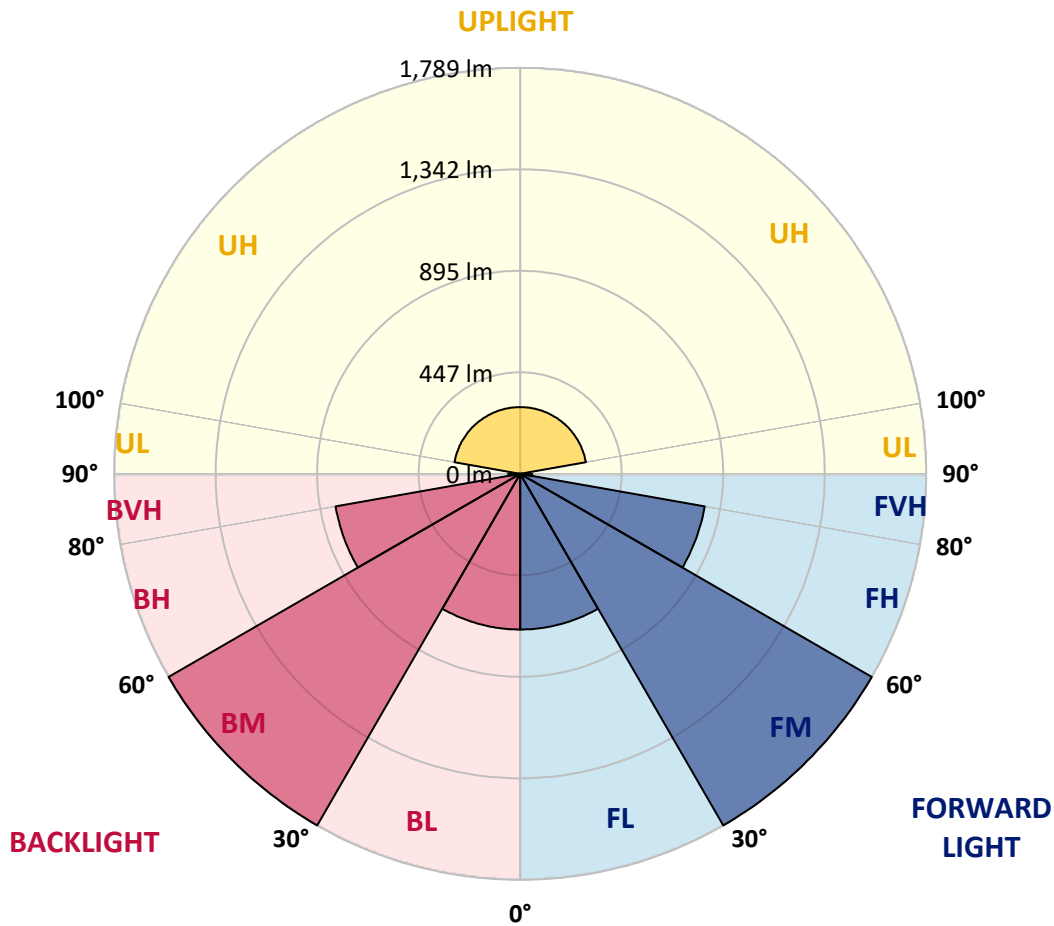
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.1	9.8			
FM (30°-60°)	1789.1	25.5			
FH (60°-80°)	825.9	11.8			G1/1800
FVH (80°-90°)	53.1	0.8			G1/100
BL (0°-30°)	686.1	9.8	B2/1000		
BM (30°-60°)	1789.1	25.5	B2/2500		
BH (60°-80°)	825.9	11.8	B2/1000		G1/1800
BVH (80°-90°)	53.1	0.8			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°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1690.7
5°	1685.2	1685.2	1685.2	1685.2	1679.7	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
7.5°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
10°	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8
12.5°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
15°	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1635.8	1635.8
17.5°	1630.3	1630.3	1630.3	1630.3	1635.8	1635.8	1635.8	1630.3	1630.3	1630.3	1630.3
20°	1619.4	1619.4	1619.4	1624.9	1624.9	1624.9	1624.9	1624.9	1619.4	1619.4	1619.4
22.5°	1613.9	1613.9	1613.9	1613.9	1619.4	1619.4	1619.4	1619.4	1613.9	1613.9	1613.9
25°	1608.4	1608.4	1613.9	1613.9	1619.4	1619.4	1619.4	1613.9	1613.9	1608.4	1608.4
27.5°	1608.4	1608.4	1613.9	1613.9	1619.4	1619.4	1619.4	1619.4	1613.9	1608.4	1608.4
30°	1602.9	1608.4	1608.4	1613.9	1619.4	1619.4	1619.4	1613.9	1608.4	1602.9	1602.9
32.5°	1597.4	1597.4	1602.9	1608.4	1613.9	1613.9	1613.9	1608.4	1602.9	1597.4	1591.9
35°	1591.9	1591.9	1591.9	1602.9	1608.4	1608.4	1608.4	1602.9	1591.9	1586.4	1586.4
37.5°	1580.9	1586.4	1591.9	1597.4	1608.4	1608.4	1608.4	1597.4	1586.4	1580.9	1575.4
40°	1580.9	1580.9	1591.9	1597.4	1613.9	1613.9	1608.4	1597.4	1586.4	1575.4	1570.0
42.5°	1575.4	1580.9	1591.9	1608.4	1624.9	1624.9	1619.4	1602.9	1586.4	1575.4	1570.0
45°	1575.4	1575.4	1591.9	1613.9	1635.8	1641.3	1630.3	1613.9	1591.9	1570.0	1570.0
47.5°	1564.5	1564.5	1586.4	1613.9	1641.3	1646.8	1641.3	1613.9	1586.4	1570.0	1564.5
50°	1537.0	1537.0	1564.5	1597.4	1630.3	1641.3	1630.3	1608.4	1570.0	1548.0	1542.5
52.5°	1493.1	1493.1	1520.6	1564.5	1597.4	1613.9	1602.9	1575.4	1537.0	1504.1	1498.6
55°	1427.2	1432.7	1460.2	1509.6	1548.0	1564.5	1553.5	1520.6	1476.6	1443.7	1432.7
57.5°	1350.4	1350.4	1388.8	1438.2	1476.6	1493.1	1482.1	1449.2	1399.8	1366.9	1355.9
60°	1246.1	1251.6	1284.5	1350.4	1388.8	1405.3	1394.3	1355.9	1301.0	1262.6	1251.6
62.5°	1141.8	1147.3	1180.2	1235.1	1279.0	1290.0	1279.0	1240.6	1191.2	1152.8	1141.8
65°	1021.0	1026.5	1064.9	1114.3	1147.3	1163.7	1147.3	1114.3	1070.4	1032.0	1026.5
67.5°	894.8	900.3	938.7	982.6	1015.5	1026.5	1010.0	982.6	938.7	905.7	894.8
70°	763.0	768.5	801.4	839.9	867.3	878.3	867.3	834.4	801.4	768.5	763.0
72.5°	625.8	631.3	664.2	697.1	719.1	730.1	713.6	691.7	658.7	631.3	625.8
75°	494.0	494.0	521.5	548.9	570.9	576.4	565.4	548.9	521.5	499.5	488.6
77.5°	367.8	367.8	395.2	411.7	422.7	433.7	422.7	406.2	389.7	367.8	367.8
80°	247.0	247.0	269.0	280.0	290.9	296.4	290.9	280.0	269.0	252.5	247.0
82.5°	148.2	148.2	159.2	170.2	170.2	175.7	175.7	170.2	159.2	148.2	148.2
85°	65.9	60.4	71.4	76.9	76.9	82.3	82.3	76.9	71.4	65.9	65.9
87.5°	5.5	11.0	11.0	16.5	16.5	16.5	16.5	16.5	11.0	11.0	11.0
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)