

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: P833893

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833893
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-MQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7293.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

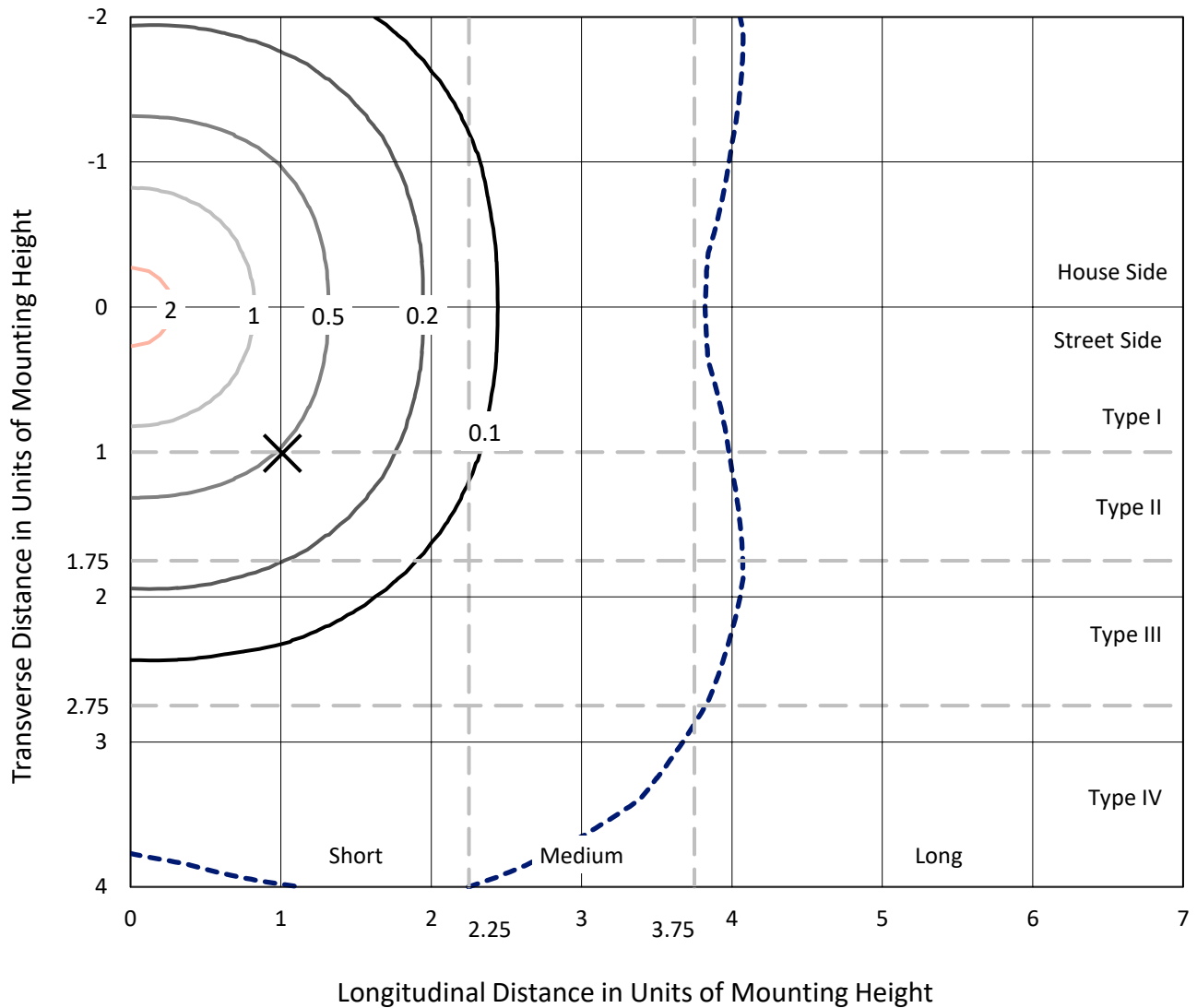
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

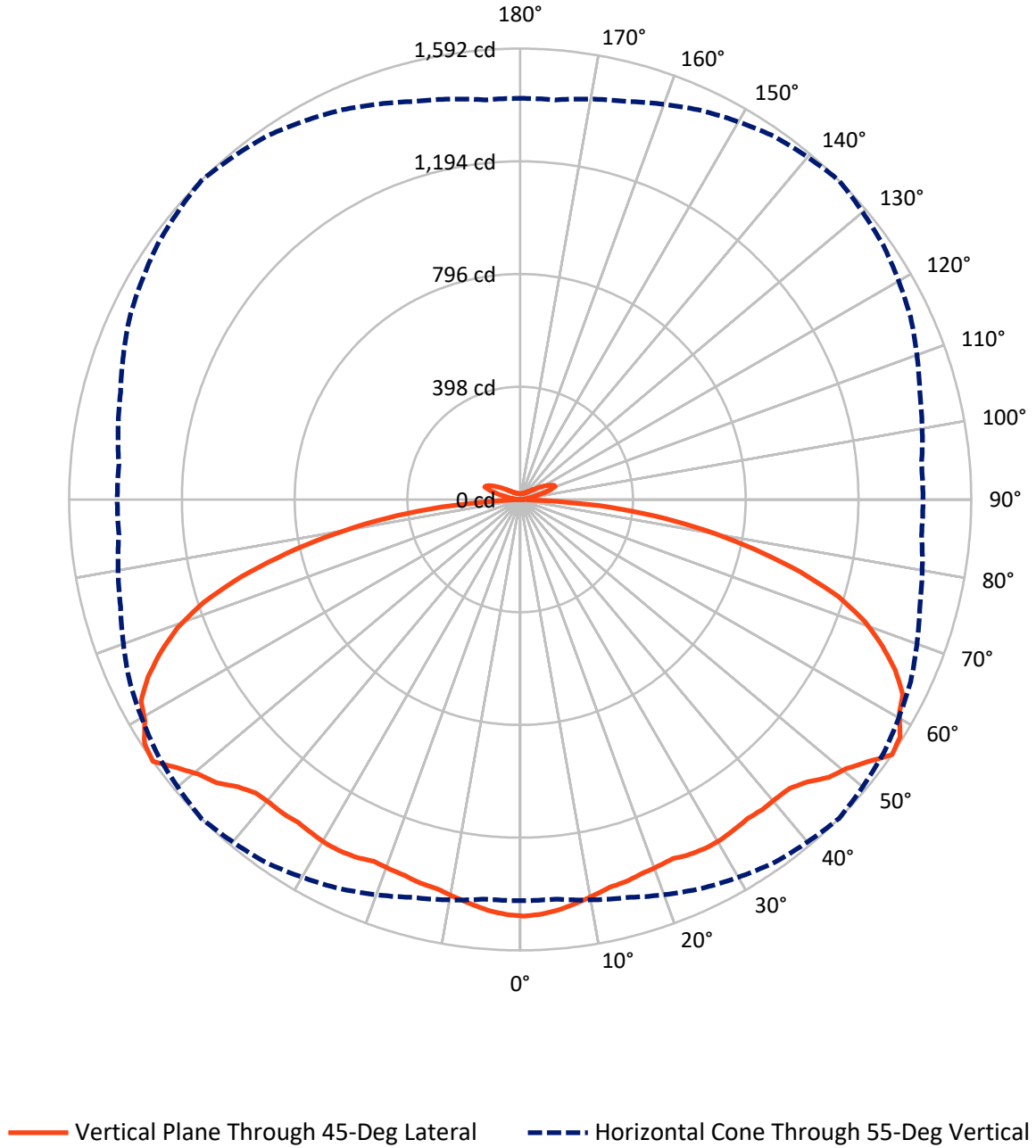
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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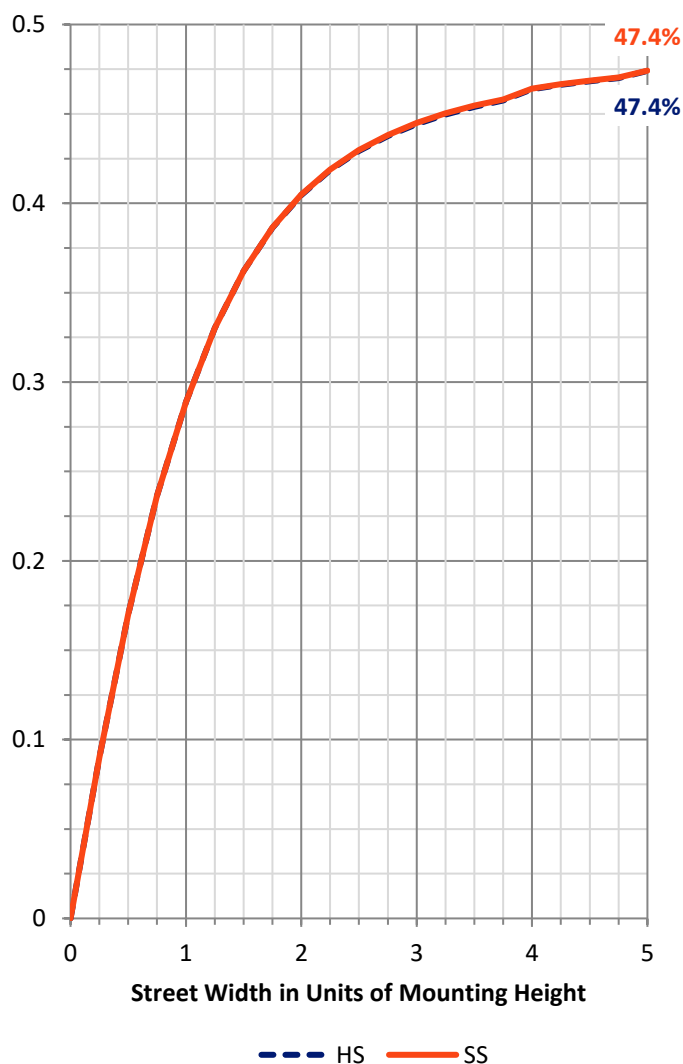
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3496.7	150.2	3646.9
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3496.7	150.2	3646.9
	% Fixture	47.9	2.1	50.0
Total	Lumens	6993.4	300.5	7293.9
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.9
10°-20°	395.3	5.4
20°-30°	638.9	8.8
30°-40°	864.6	11.9
40°-50°	1083.0	14.8
50°-60°	1327.1	18.2
60°-70°	1330.4	18.2
70°-80°	960.0	13.2
80°-90°	256.4	3.5
90°-100°	6.7	0.1
100°-110°	68.2	0.9
110°-120°	99.6	1.4
120°-130°	57.8	0.8
130°-140°	30.6	0.4
140°-150°	18.2	0.2
150°-160°	11.2	0.2
160°-170°	6.1	0.1
170°-180°	2.0	0.0
0°-90°	6993.4	95.9
0°-180°	7293.9	100.0

Coefficient of Utilization

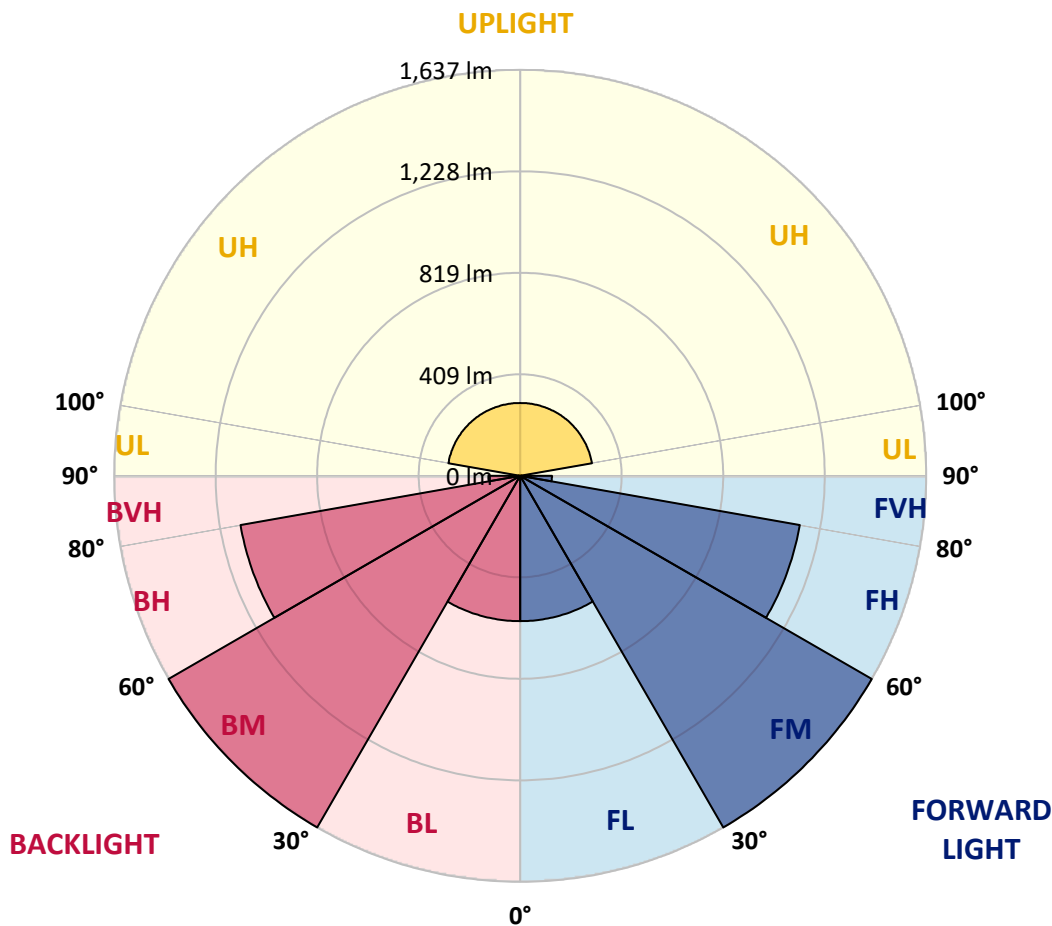


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.0	8.0			
FM (30°-60°)	1637.3	22.4			
FH (60°-80°)	1145.2	15.7			G1/1800
FVH (80°-90°)	128.2	1.8			G2/225
BL (0°-30°)	586.0	8.0	B2/1000		
BM (30°-60°)	1637.3	22.4	B2/2500		
BH (60°-80°)	1145.2	15.7	B3/2500		G1/1800
BVH (80°-90°)	128.2	1.8			G2/225
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.0		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°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1465.8	1465.8	1465.8	1460.3	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8
5°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
7.5°	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3
10°	1416.4	1416.4	1416.4	1416.4	1421.9	1421.9	1421.9	1421.9	1416.4	1416.4	1416.4
12.5°	1399.9	1399.9	1399.9	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1399.9
15°	1394.4	1394.4	1394.4	1394.4	1399.9	1399.9	1399.9	1399.9	1394.4	1394.4	1394.4
17.5°	1383.4	1383.4	1383.4	1388.9	1388.9	1388.9	1388.9	1388.9	1383.4	1383.4	1383.4
20°	1372.5	1372.5	1377.9	1377.9	1383.4	1383.4	1383.4	1377.9	1377.9	1372.5	1377.9
22.5°	1372.5	1372.5	1372.5	1377.9	1377.9	1377.9	1377.9	1372.5	1372.5	1372.5	1372.5
25°	1372.5	1372.5	1377.9	1383.4	1383.4	1388.9	1383.4	1377.9	1372.5	1372.5	1372.5
27.5°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
30°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
32.5°	1367.0	1372.5	1377.9	1383.4	1388.9	1388.9	1388.9	1383.4	1377.9	1372.5	1372.5
35°	1361.5	1367.0	1372.5	1377.9	1383.4	1383.4	1383.4	1377.9	1372.5	1367.0	1367.0
37.5°	1356.0	1356.0	1367.0	1372.5	1377.9	1388.9	1383.4	1372.5	1367.0	1361.5	1361.5
40°	1350.5	1356.0	1361.5	1372.5	1377.9	1388.9	1383.4	1372.5	1361.5	1356.0	1356.0
42.5°	1350.5	1350.5	1361.5	1372.5	1383.4	1394.4	1388.9	1377.9	1361.5	1356.0	1350.5
45°	1356.0	1361.5	1377.9	1399.9	1410.9	1421.9	1416.4	1399.9	1372.5	1361.5	1356.0
47.5°	1377.9	1383.4	1399.9	1421.9	1449.3	1465.8	1449.3	1421.9	1399.9	1383.4	1377.9
50°	1388.9	1394.4	1421.9	1449.3	1487.7	1493.2	1487.7	1449.3	1421.9	1394.4	1394.4
52.5°	1410.9	1410.9	1443.8	1493.2	1526.2	1537.2	1526.2	1498.7	1443.8	1416.4	1410.9
55°	1416.4	1416.4	1454.8	1515.2	1564.6	1592.0	1564.6	1520.7	1460.3	1421.9	1421.9
57.5°	1383.4	1394.4	1443.8	1504.2	1564.6	1581.1	1564.6	1509.7	1449.3	1399.9	1394.4
60°	1345.0	1361.5	1405.4	1476.8	1520.7	1537.2	1526.2	1476.8	1410.9	1361.5	1356.0
62.5°	1306.6	1328.5	1377.9	1432.8	1498.7	1515.2	1498.7	1432.8	1377.9	1328.5	1306.6
65°	1224.2	1246.2	1317.6	1383.4	1443.8	1454.8	1449.3	1383.4	1317.6	1246.2	1235.2
67.5°	1141.9	1158.4	1207.8	1312.1	1361.5	1377.9	1367.0	1306.6	1213.3	1158.4	1152.9
70°	1054.0	1070.5	1114.4	1213.3	1262.7	1290.1	1268.1	1213.3	1114.4	1070.5	1065.0
72.5°	938.8	960.7	1010.1	1098.0	1147.4	1174.8	1152.9	1098.0	1010.1	955.2	944.3
75°	801.5	818.0	878.4	949.7	999.1	1021.1	1004.6	955.2	878.4	818.0	812.5
77.5°	653.3	669.8	724.7	796.0	823.5	845.4	829.0	790.5	724.7	669.8	664.3
80°	494.1	510.6	560.0	614.9	642.3	664.3	647.8	609.4	560.0	510.6	505.1
82.5°	323.9	340.4	384.3	428.2	455.7	477.6	461.1	422.7	389.8	340.4	334.9
85°	137.2	153.7	192.1	236.1	258.0	280.0	263.5	230.6	192.1	159.2	153.7
87.5°	11.0	16.5	16.5	22.0	16.5	27.4	16.5	16.5	16.5	16.5	16.5
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)