

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: P833882

Luminaire Tested: **TTN-D3-735-U-CQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833882
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-UPL2
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: 7251.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

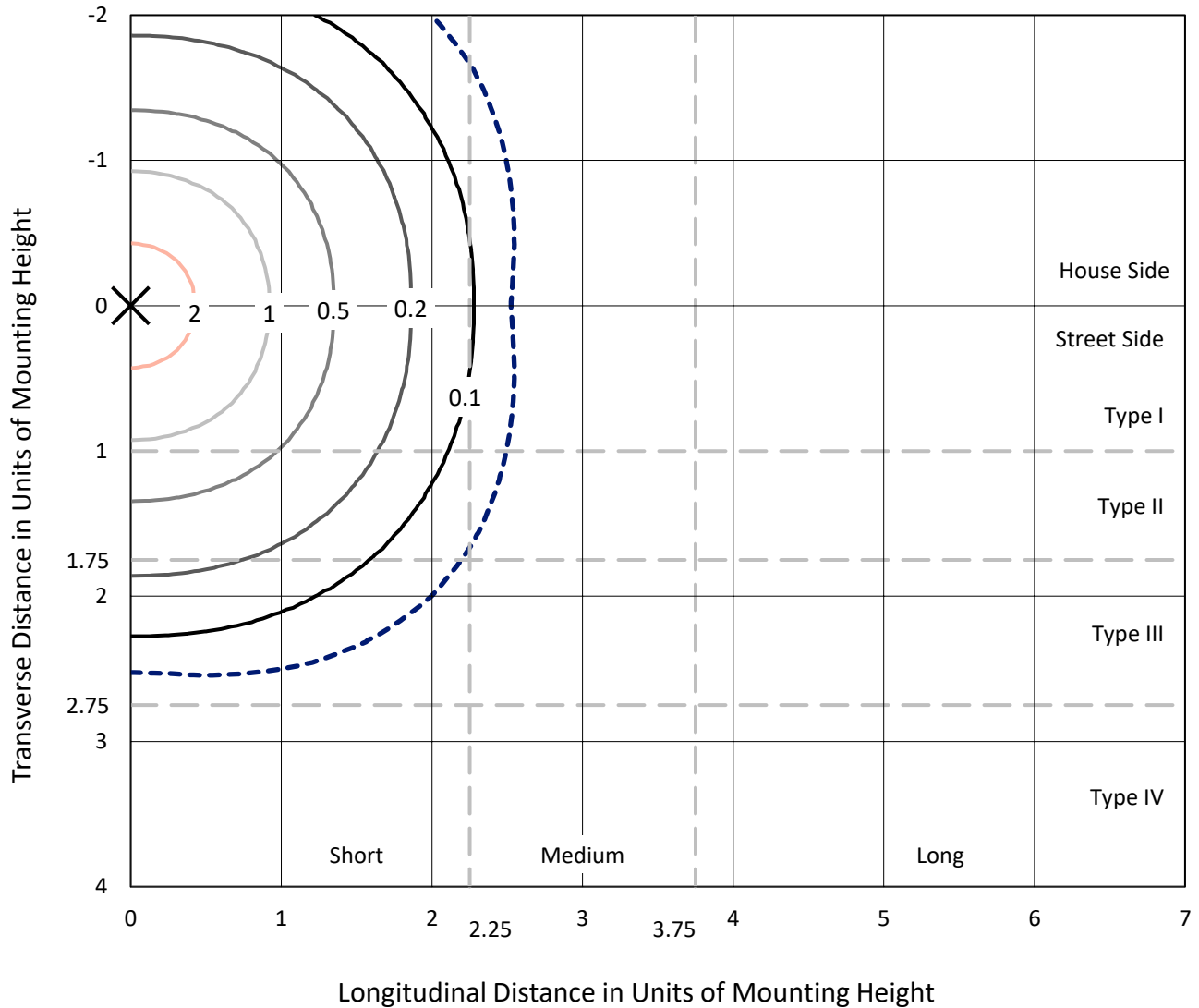
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

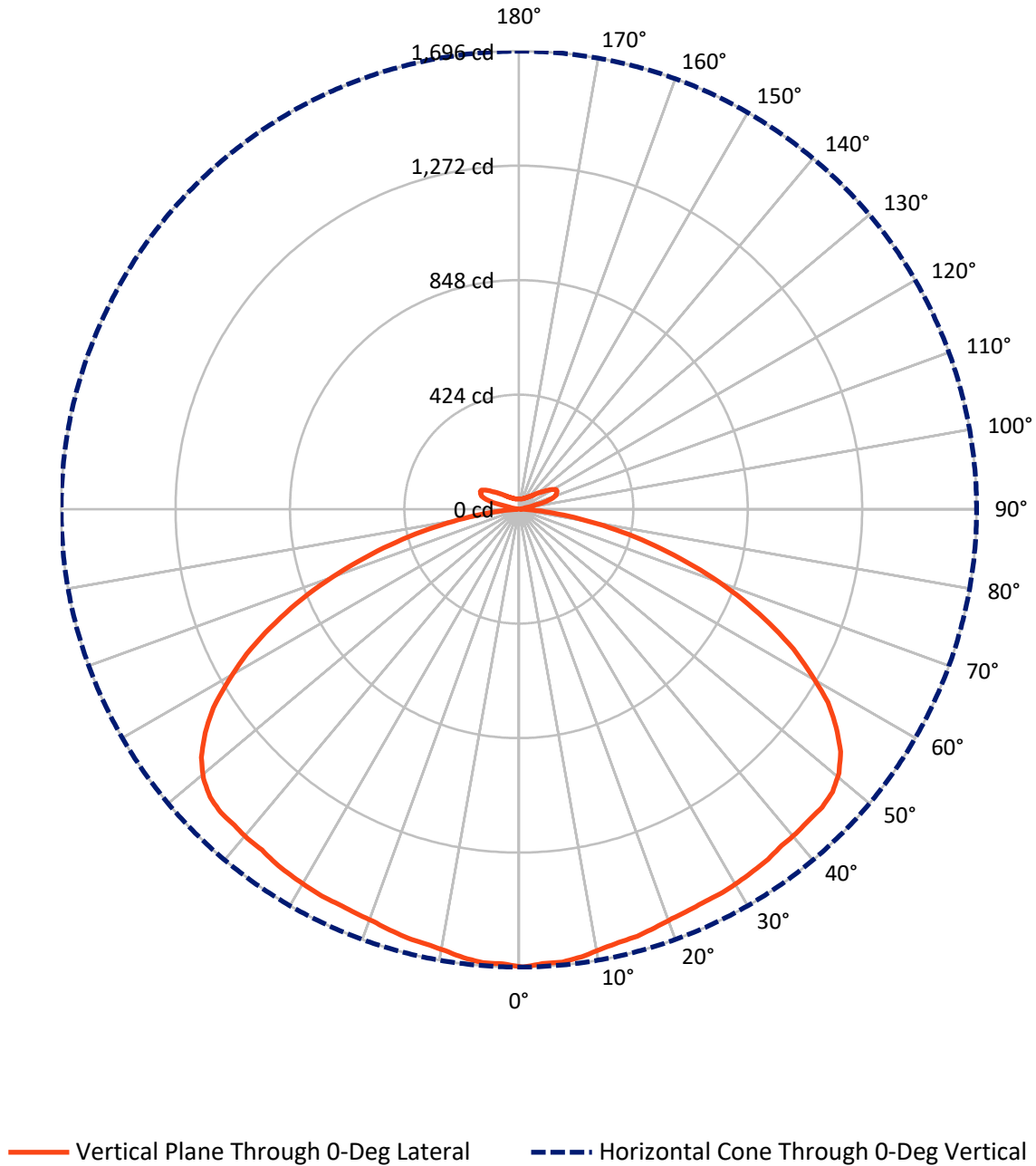
✕ Max cd
 - - - 1/2 Max cd



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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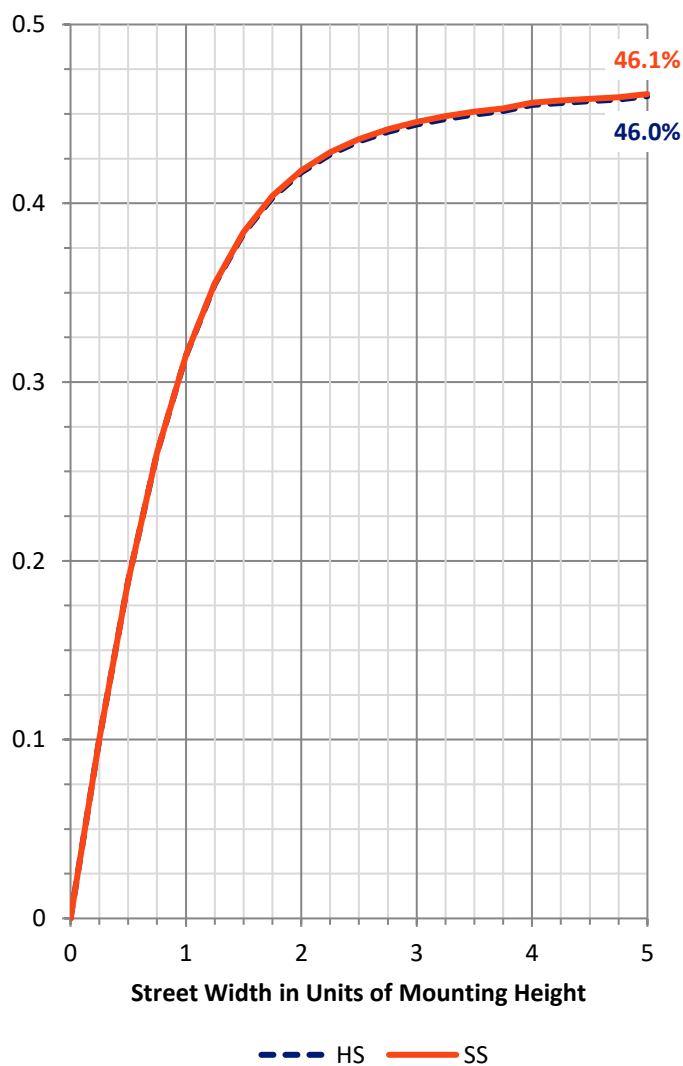
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.4	271.5	3625.9
	% Fixture	46.3	3.7	50.0
Street Side	Lumens	3354.4	271.5	3625.9
	% Fixture	46.3	3.7	50.0
Total	Lumens	6708.8	543.0	7251.8
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.2
10°-20°	464.4	6.4
20°-30°	747.8	10.3
30°-40°	1005.8	13.9
40°-50°	1241.0	17.1
50°-60°	1331.4	18.4
60°-70°	1079.7	14.9
70°-80°	572.2	7.9
80°-90°	106.6	1.5
90°-100°	12.1	0.2
100°-110°	123.2	1.7
110°-120°	180.1	2.5
120°-130°	104.5	1.4
130°-140°	55.4	0.8
140°-150°	32.9	0.5
150°-160°	20.2	0.3
160°-170°	11.0	0.2
170°-180°	3.6	0.0
0°-90°	6708.8	92.5
0°-180°	7251.8	100.0

Coefficient of Utilization



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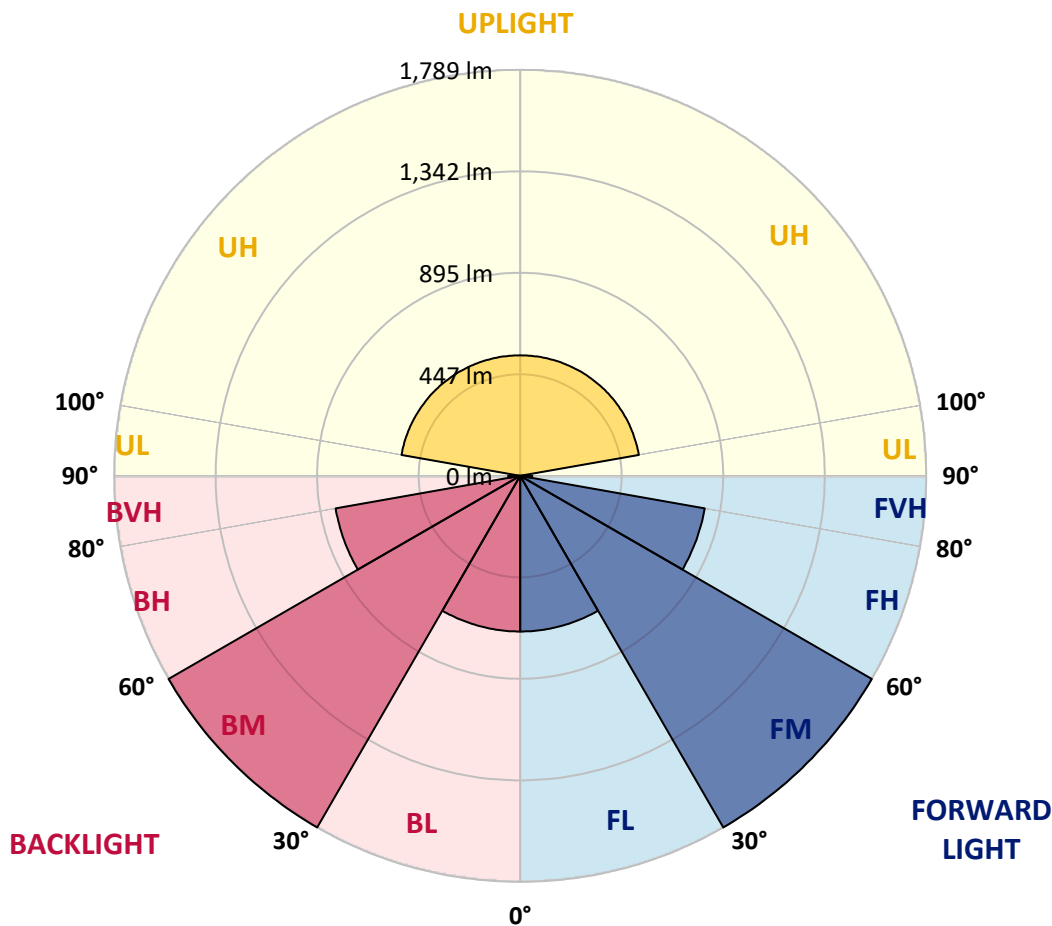
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.1	9.5			
FM (30°-60°)	1789.1	24.7			
FH (60°-80°)	825.9	11.4			G1/1800
FVH (80°-90°)	53.3	0.7			G1/100
BL (0°-30°)	686.1	9.5	B2/1000		
BM (30°-60°)	1789.1	24.7	B2/2500		
BH (60°-80°)	825.9	11.4	B2/1000		G1/1800
BVH (80°-90°)	53.3	0.7			G1/100
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	7.3		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°	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°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	189.5
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	183.0
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	159.8
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	142.1
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	125.4
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	110.6
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	98.5
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	89.2
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	79.9
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	71.5
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	66.9
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	60.4
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	56.7
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	53.0
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	50.2
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	47.4
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	46.5
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	42.7
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	41.8
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	40.9
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	39.0
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	39.0
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.1
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	38.1
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	37.2
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

(END OF REPORT)