

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: P833891

Luminaire Tested: **TTN-D3-735-U-MQ-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833891
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-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7305.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

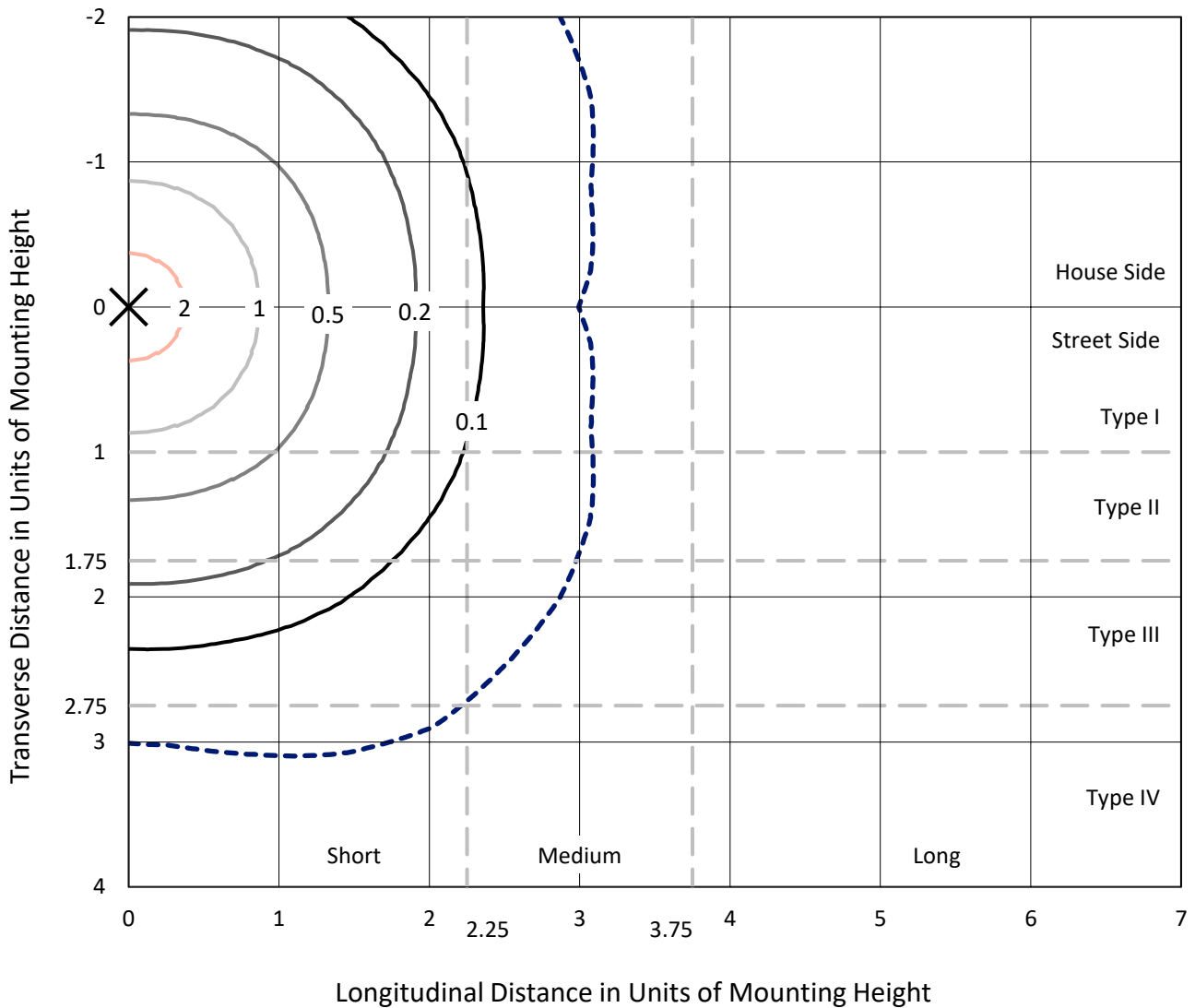
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

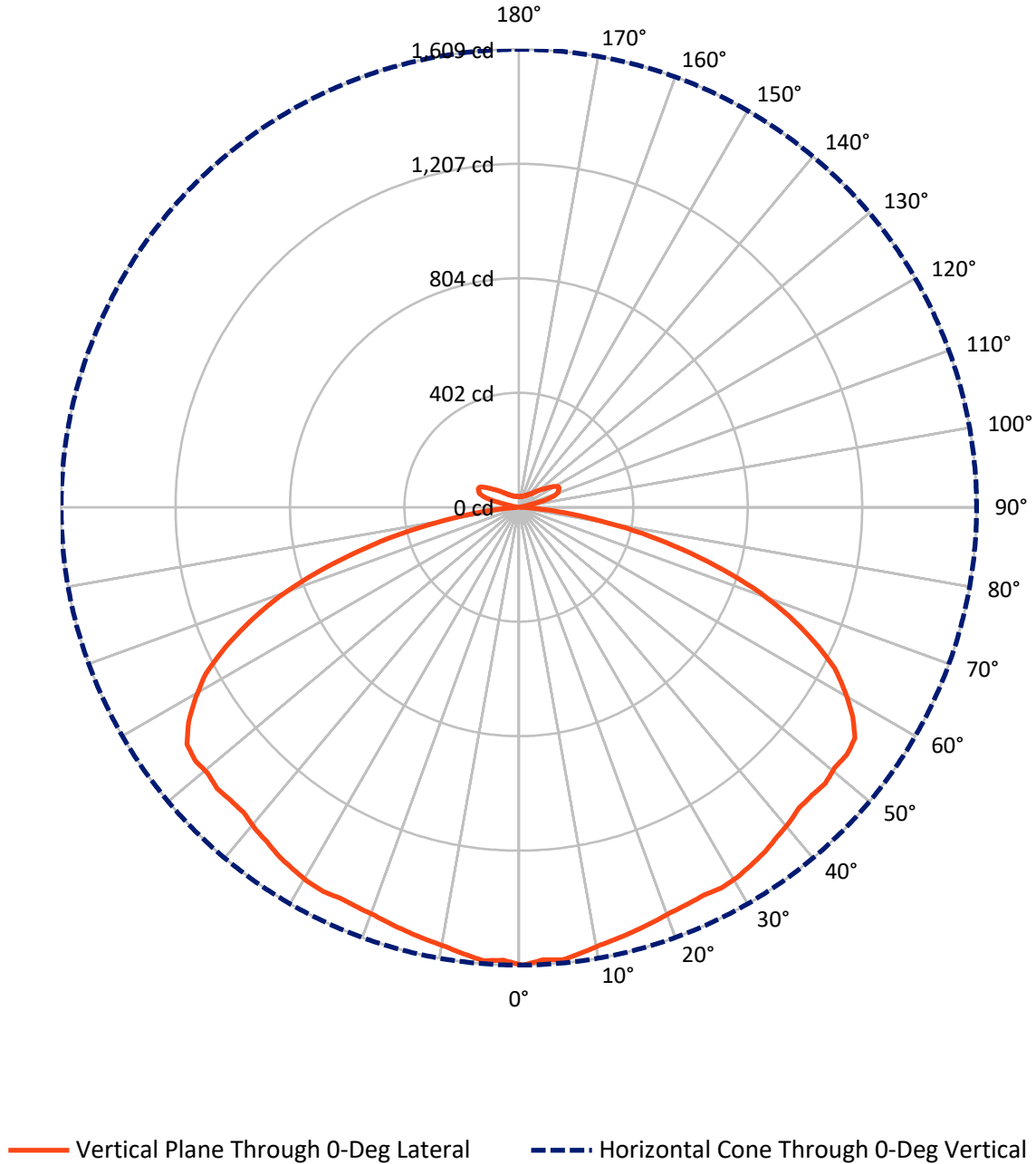
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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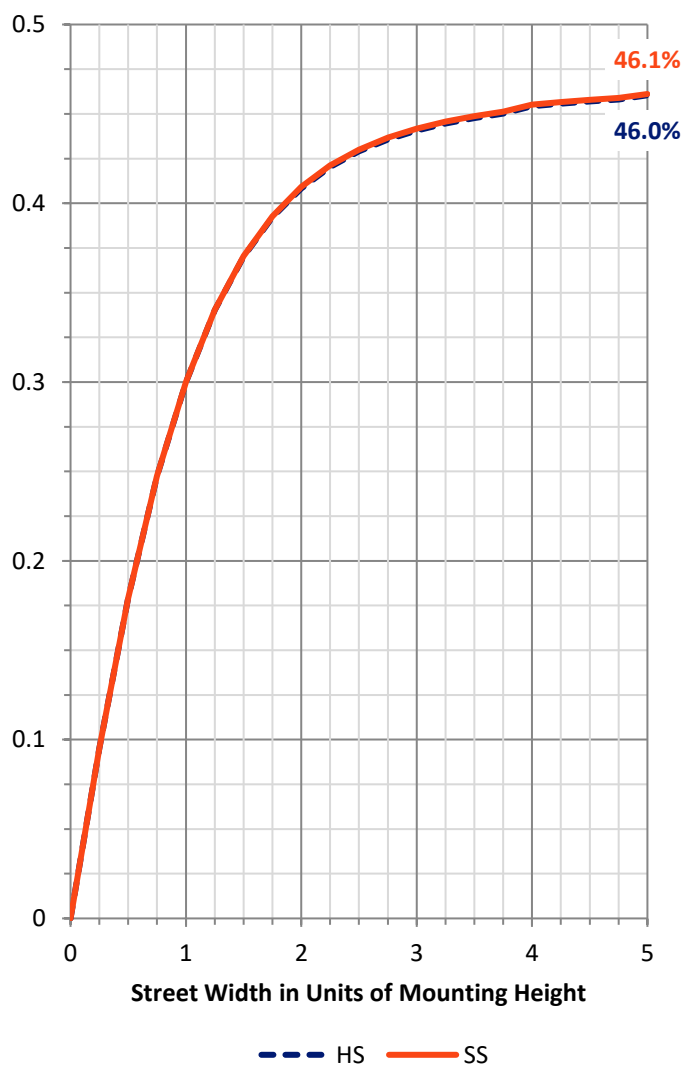
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.4	271.5	3652.9
	% Fixture	46.3	3.7	50.0
Street Side	Lumens	3381.4	271.5	3652.9
	% Fixture	46.3	3.7	50.0
Total	Lumens	6762.8	543.0	7305.8
	% Fixture	92.6	7.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.1
10°-20°	437.0	6.0
20°-30°	703.0	9.6
30°-40°	939.2	12.9
40°-50°	1141.1	15.6
50°-60°	1325.8	18.1
60°-70°	1223.2	16.7
70°-80°	716.1	9.8
80°-90°	126.2	1.7
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	0.4
150°-160°	20.2	0.3
160°-170°	11.0	0.2
170°-180°	3.6	0.0
0°-90°	6762.8	92.6
0°-180°	7305.8	100.0

Coefficient of Utilization



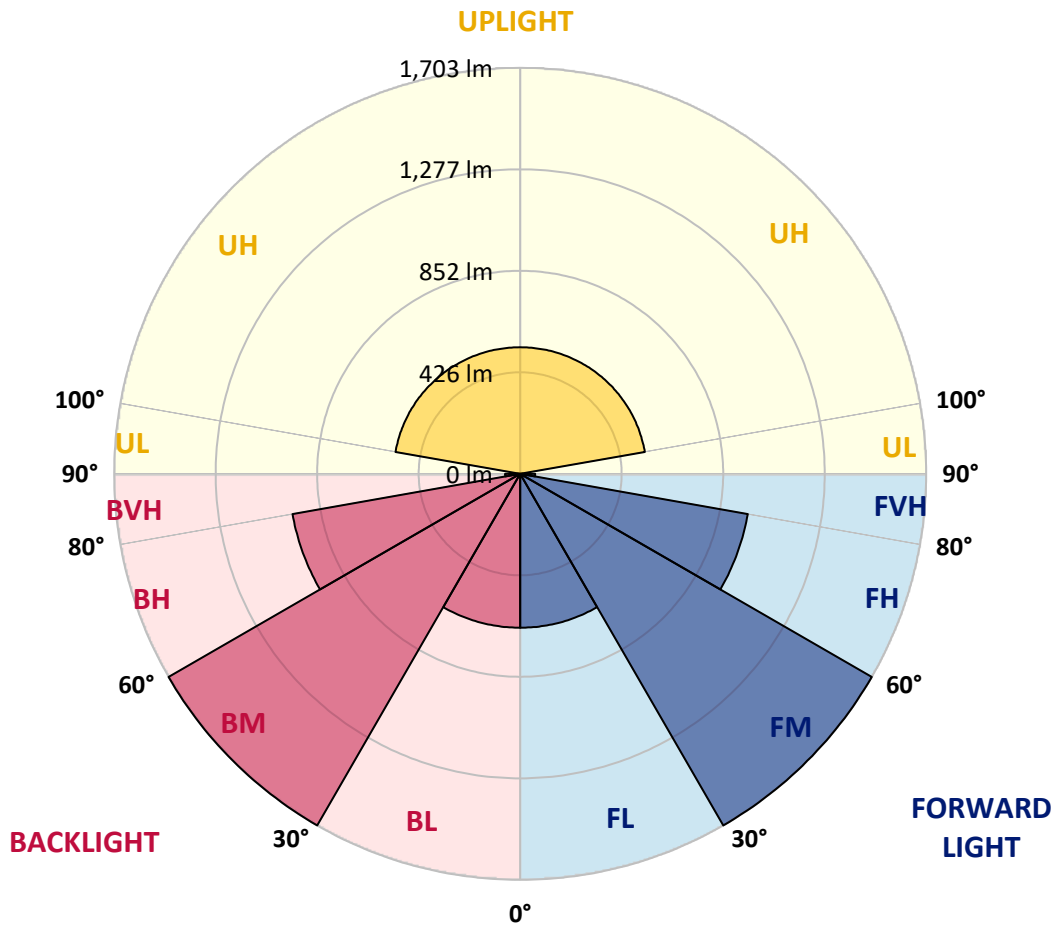
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.6	8.8			
FM (30°-60°)	1703.1	23.3			
FH (60°-80°)	969.7	13.3			G1/1800
FVH (80°-90°)	63.1	0.9			G1/100
BL (0°-30°)	645.6	8.8	B2/1000		
BM (30°-60°)	1703.1	23.3	B2/2500		
BH (60°-80°)	969.7	13.3	B2/1000		G1/1800
BVH (80°-90°)	63.1	0.9			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°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1592.2	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7
5°	1597.7	1597.7	1597.7	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7	1597.7
7.5°	1581.2	1581.2	1581.2	1581.2	1581.2	1575.7	1581.2	1581.2	1581.2	1581.2	1581.2
10°	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7
12.5°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1548.3	1548.3
15°	1542.8	1542.8	1542.8	1542.8	1548.3	1548.3	1542.8	1542.8	1542.8	1542.8	1542.8
17.5°	1531.8	1531.8	1531.8	1531.8	1537.3	1537.3	1537.3	1531.8	1531.8	1531.8	1531.8
20°	1520.8	1520.8	1520.8	1520.8	1526.3	1526.3	1526.3	1526.3	1526.3	1520.8	1520.8
22.5°	1515.3	1515.3	1515.3	1515.3	1520.8	1520.8	1520.8	1520.8	1515.3	1515.3	1515.3
25°	1509.8	1515.3	1515.3	1515.3	1520.8	1526.3	1526.3	1520.8	1515.3	1509.8	1509.8
27.5°	1515.3	1515.3	1515.3	1520.8	1520.8	1526.3	1526.3	1520.8	1515.3	1515.3	1515.3
30°	1509.8	1509.8	1509.8	1515.3	1520.8	1526.3	1520.8	1520.8	1515.3	1509.8	1509.8
32.5°	1498.9	1498.9	1504.4	1509.8	1515.3	1515.3	1515.3	1509.8	1504.4	1498.9	1498.9
35°	1487.9	1487.9	1487.9	1493.4	1504.4	1504.4	1504.4	1498.9	1493.4	1487.9	1482.4
37.5°	1471.4	1476.9	1476.9	1487.9	1493.4	1498.9	1493.4	1487.9	1476.9	1471.4	1471.4
40°	1460.4	1460.4	1465.9	1476.9	1487.9	1487.9	1482.4	1476.9	1465.9	1460.4	1460.4
42.5°	1444.0	1444.0	1454.9	1465.9	1482.4	1482.4	1476.9	1465.9	1454.9	1444.0	1444.0
45°	1444.0	1444.0	1454.9	1476.9	1487.9	1498.9	1487.9	1476.9	1454.9	1444.0	1438.5
47.5°	1449.4	1449.4	1460.4	1487.9	1509.8	1520.8	1504.4	1482.4	1460.4	1449.4	1444.0
50°	1438.5	1444.0	1465.9	1493.4	1520.8	1526.3	1520.8	1487.9	1465.9	1438.5	1438.5
52.5°	1444.0	1444.0	1471.4	1515.3	1542.8	1553.8	1542.8	1515.3	1465.9	1438.5	1438.5
55°	1433.0	1427.5	1465.9	1515.3	1559.3	1581.2	1559.3	1515.3	1460.4	1427.5	1422.0
57.5°	1383.6	1383.6	1433.0	1482.4	1537.3	1548.3	1531.8	1482.4	1427.5	1383.6	1372.6
60°	1317.7	1323.2	1372.6	1427.5	1476.9	1482.4	1471.4	1427.5	1372.6	1323.2	1306.7
62.5°	1246.3	1257.3	1306.7	1361.6	1422.0	1433.0	1416.5	1361.6	1295.7	1262.8	1235.3
65°	1142.0	1158.5	1213.4	1273.8	1339.6	1334.2	1334.2	1268.3	1218.9	1164.0	1136.5
67.5°	1026.7	1043.2	1081.6	1164.0	1218.9	1213.4	1207.9	1164.0	1081.6	1043.2	1026.7
70°	900.4	911.4	949.8	1032.2	1081.6	1087.1	1070.6	1026.7	949.8	922.4	894.9
72.5°	752.2	757.7	812.6	878.5	927.9	922.4	916.9	878.5	807.1	779.6	746.7
75°	593.0	598.4	647.9	708.3	746.7	741.2	735.7	708.3	647.9	614.9	587.5
77.5°	444.7	439.2	488.6	532.6	554.5	560.0	549.0	527.1	483.1	455.7	439.2
80°	291.0	285.5	329.4	362.4	378.8	378.8	373.3	356.9	323.9	302.0	291.0
82.5°	164.7	159.2	186.7	208.6	225.1	219.6	214.1	203.1	186.7	170.2	159.2
85°	60.4	60.4	76.9	87.8	98.8	98.8	93.3	87.8	71.4	65.9	60.4
87.5°	5.5	5.5	11.0	16.5	16.5	16.5	11.0	11.0	5.5	5.5	5.5
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)