

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: P834044

Luminaire Tested: **TTN-D3-830-U-MQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834044
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-MQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7143.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

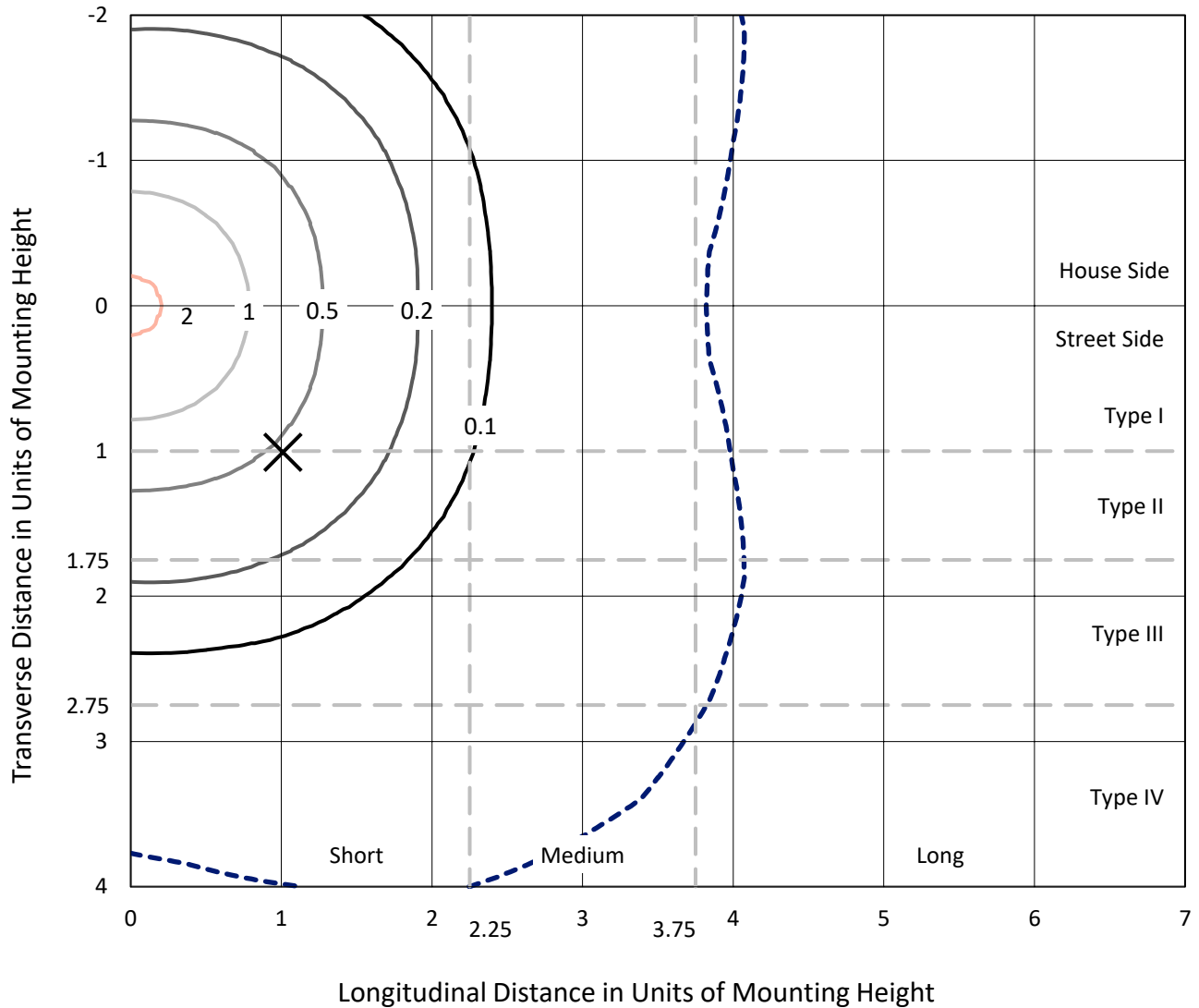
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

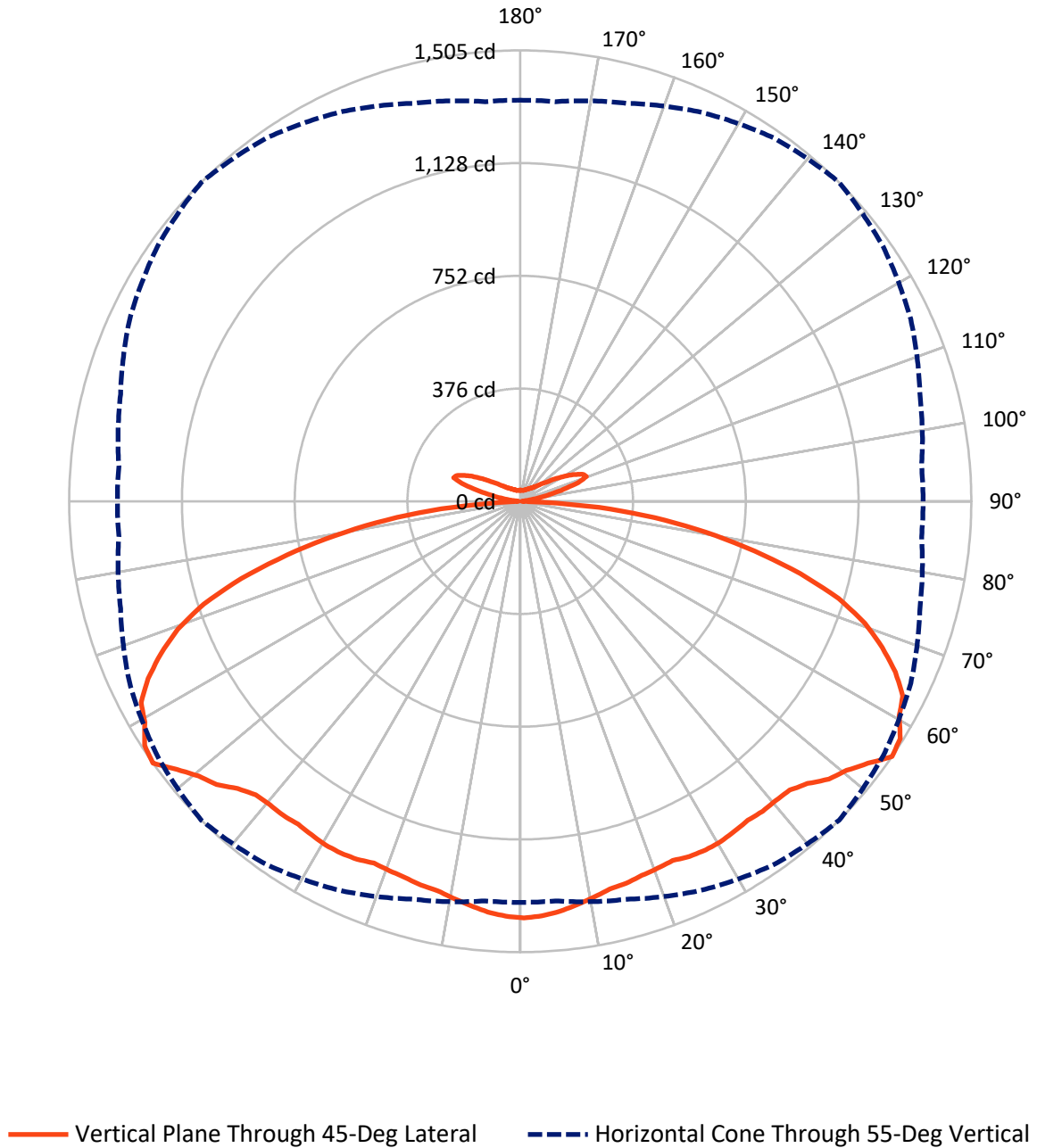
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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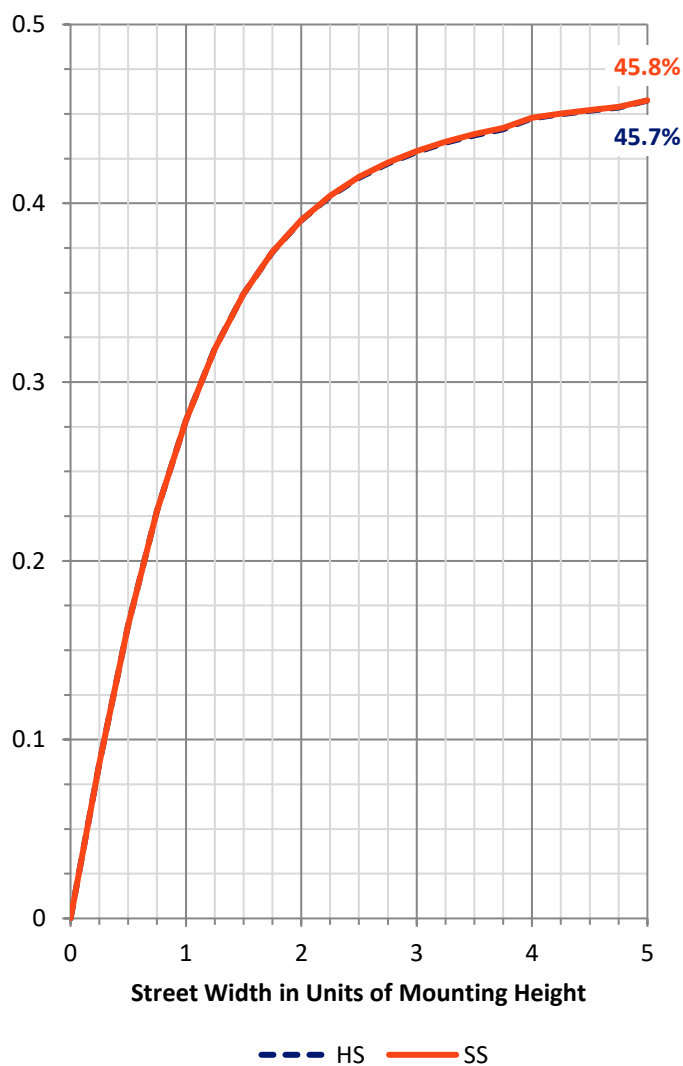
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3304.9	267.0	3571.9
	% Fixture	46.3	3.7	50.0
Street Side	Lumens	3304.9	267.0	3571.9
	% Fixture	46.3	3.7	50.0
Total	Lumens	6609.7	534.0	7143.8
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.8
10°-20°	373.6	5.2
20°-30°	603.9	8.5
30°-40°	817.1	11.4
40°-50°	1023.5	14.3
50°-60°	1254.3	17.6
60°-70°	1257.3	17.6
70°-80°	907.3	12.7
80°-90°	242.6	3.4
90°-100°	11.9	0.2
100°-110°	121.1	1.7
110°-120°	177.1	2.5
120°-130°	102.8	1.4
130°-140°	54.4	0.8
140°-150°	32.3	0.5
150°-160°	19.9	0.3
160°-170°	10.9	0.2
170°-180°	3.5	0.0
0°-90°	6609.7	92.5
0°-180°	7143.8	100.0

Coefficient of Utilization



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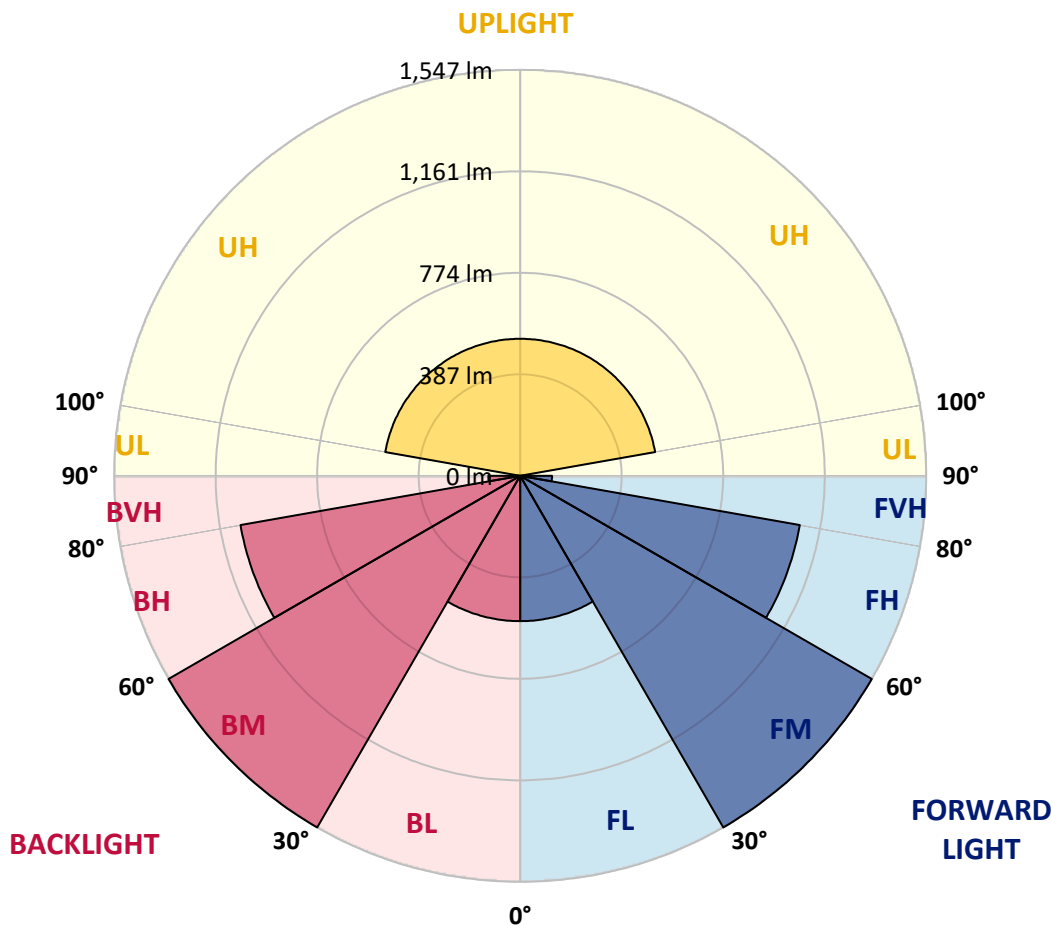
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.8	7.8			
FM (30°-60°)	1547.4	21.7			
FH (60°-80°)	1082.3	15.2			G1/1800
FVH (80°-90°)	121.3	1.7			G2/225
BL (0°-30°)	553.8	7.8	B2/1000		
BM (30°-60°)	1547.4	21.7	B2/2500		
BH (60°-80°)	1082.3	15.2	B3/2500		G1/1800
BVH (80°-90°)	121.3	1.7			G2/225
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	7.3		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1385.3	1385.3	1385.3	1380.1	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3
5°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
7.5°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4
10°	1338.6	1338.6	1338.6	1338.6	1343.8	1343.8	1343.8	1343.8	1338.6	1338.6	1338.6
12.5°	1323.0	1323.0	1323.0	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1323.0
15°	1317.8	1317.8	1317.8	1317.8	1323.0	1323.0	1323.0	1323.0	1317.8	1317.8	1317.8
17.5°	1307.5	1307.5	1307.5	1312.7	1312.7	1312.7	1312.7	1312.7	1307.5	1307.5	1307.5
20°	1297.1	1297.1	1302.3	1302.3	1307.5	1307.5	1307.5	1302.3	1302.3	1297.1	1302.3
22.5°	1297.1	1297.1	1297.1	1302.3	1302.3	1302.3	1302.3	1297.1	1297.1	1297.1	1297.1
25°	1297.1	1297.1	1302.3	1307.5	1307.5	1312.7	1307.5	1302.3	1297.1	1297.1	1297.1
27.5°	1302.3	1302.3	1307.5	1312.7	1312.7	1317.8	1312.7	1307.5	1302.3	1302.3	1302.3
30°	1302.3	1302.3	1307.5	1312.7	1312.7	1317.8	1312.7	1307.5	1302.3	1302.3	1302.3
32.5°	1291.9	1297.1	1302.3	1307.5	1312.7	1312.7	1312.7	1307.5	1302.3	1297.1	1297.1
35°	1286.7	1291.9	1297.1	1302.3	1307.5	1307.5	1307.5	1302.3	1297.1	1291.9	1291.9
37.5°	1281.5	1281.5	1291.9	1297.1	1302.3	1312.7	1307.5	1297.1	1291.9	1286.7	1286.7
40°	1276.3	1281.5	1286.7	1297.1	1302.3	1312.7	1307.5	1297.1	1286.7	1281.5	1281.5
42.5°	1276.3	1276.3	1286.7	1297.1	1307.5	1317.8	1312.7	1302.3	1286.7	1281.5	1276.3
45°	1281.5	1286.7	1302.3	1323.0	1333.4	1343.8	1338.6	1323.0	1297.1	1286.7	1281.5
47.5°	1302.3	1307.5	1323.0	1343.8	1369.7	1385.3	1369.7	1343.8	1323.0	1307.5	1302.3
50°	1312.7	1317.8	1343.8	1369.7	1406.0	1411.2	1406.0	1369.7	1343.8	1317.8	1317.8
52.5°	1333.4	1333.4	1364.5	1411.2	1442.4	1452.7	1442.4	1416.4	1364.5	1338.6	1333.4
55°	1338.6	1338.6	1374.9	1432.0	1478.7	1504.6	1478.7	1437.2	1380.1	1343.8	1343.8
57.5°	1307.5	1317.8	1364.5	1421.6	1478.7	1494.3	1478.7	1426.8	1369.7	1323.0	1317.8
60°	1271.2	1286.7	1328.2	1395.7	1437.2	1452.7	1442.4	1395.7	1333.4	1286.7	1281.5
62.5°	1234.8	1255.6	1302.3	1354.2	1416.4	1432.0	1416.4	1354.2	1302.3	1255.6	1234.8
65°	1157.0	1177.8	1245.2	1307.5	1364.5	1374.9	1369.7	1307.5	1245.2	1177.8	1167.4
67.5°	1079.2	1094.7	1141.4	1240.0	1286.7	1302.3	1291.9	1234.8	1146.6	1094.7	1089.6
70°	996.2	1011.7	1053.2	1146.6	1193.3	1219.3	1198.5	1146.6	1053.2	1011.7	1006.5
72.5°	887.2	908.0	954.7	1037.7	1084.4	1110.3	1089.6	1037.7	954.7	902.8	892.4
75°	757.5	773.1	830.1	897.6	944.3	965.0	949.5	902.8	830.1	773.1	767.9
77.5°	617.4	633.0	684.9	752.3	778.3	799.0	783.4	747.1	684.9	633.0	627.8
80°	467.0	482.5	529.2	581.1	607.0	627.8	612.2	575.9	529.2	482.5	477.3
82.5°	306.1	321.7	363.2	404.7	430.6	451.4	435.8	399.5	368.4	321.7	316.5
85°	129.7	145.3	181.6	223.1	243.9	264.6	249.0	217.9	181.6	150.5	145.3
87.5°	10.4	15.6	15.6	20.8	15.6	25.9	15.6	15.6	15.6	15.6	15.6
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)