

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: P834045

Luminaire Tested: **TTN-D3-830-U-MQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834045
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-UPL3
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: 7350.7 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

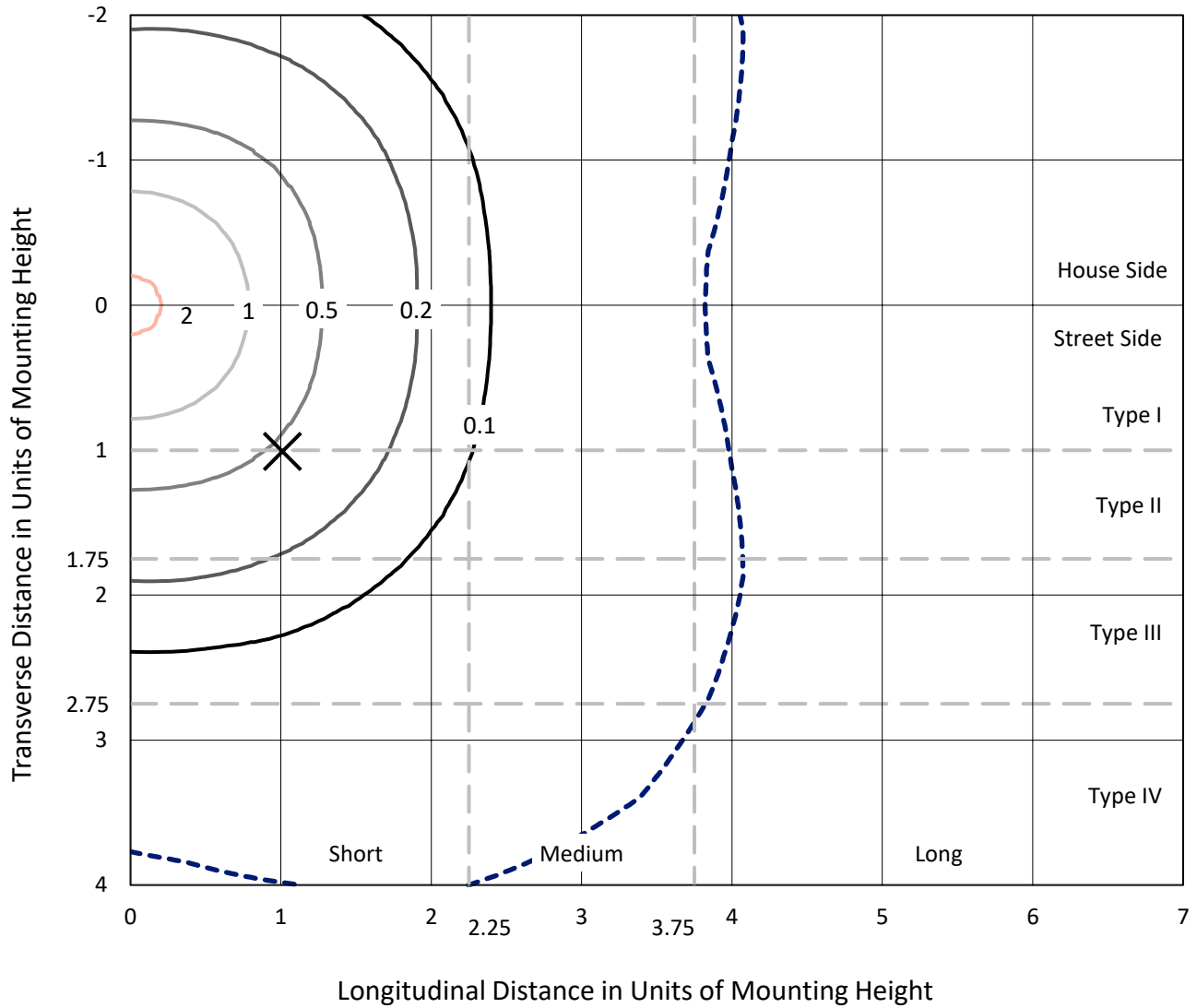
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

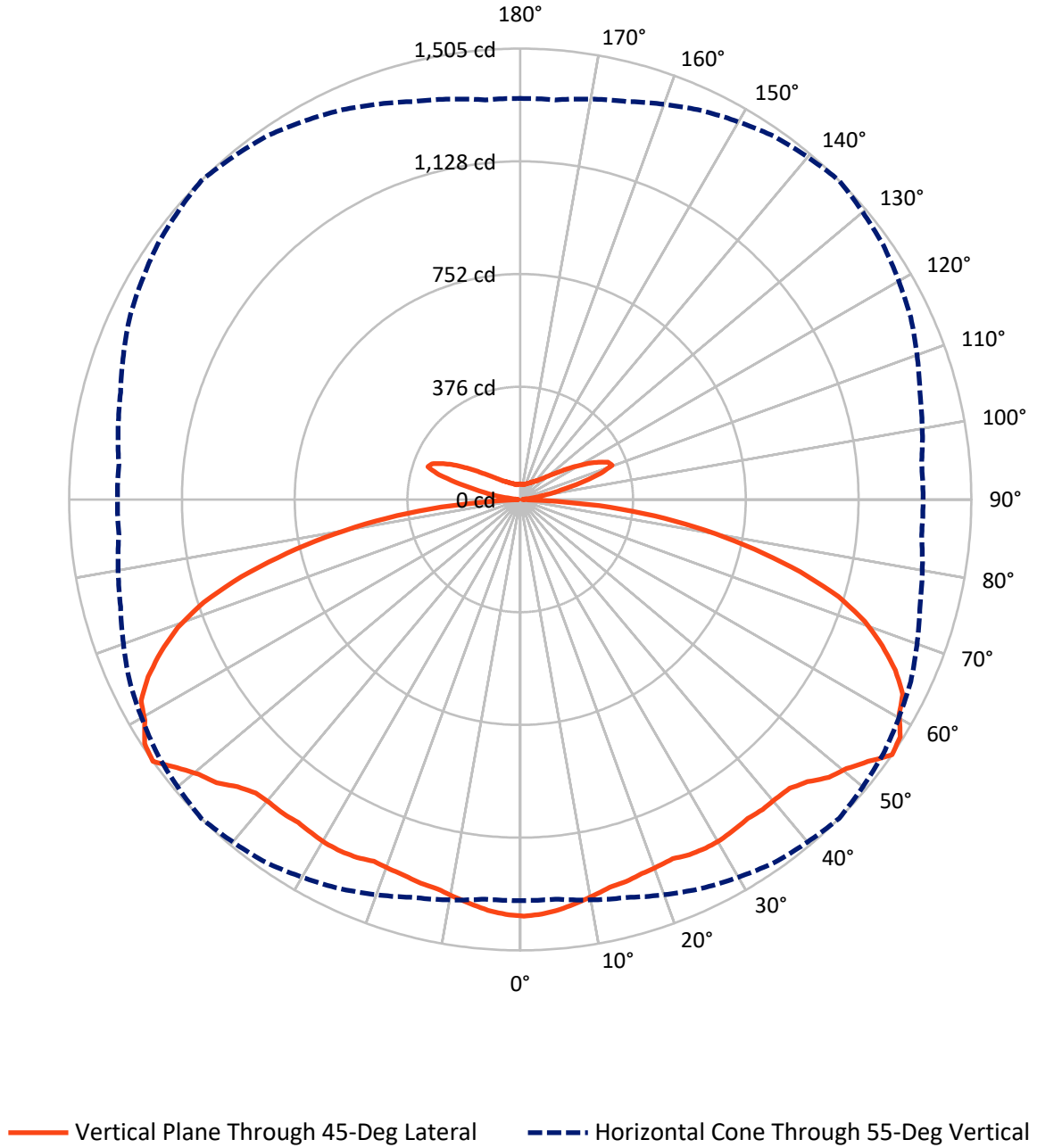
✕ Max cd
 - - - 1/2 Max cd



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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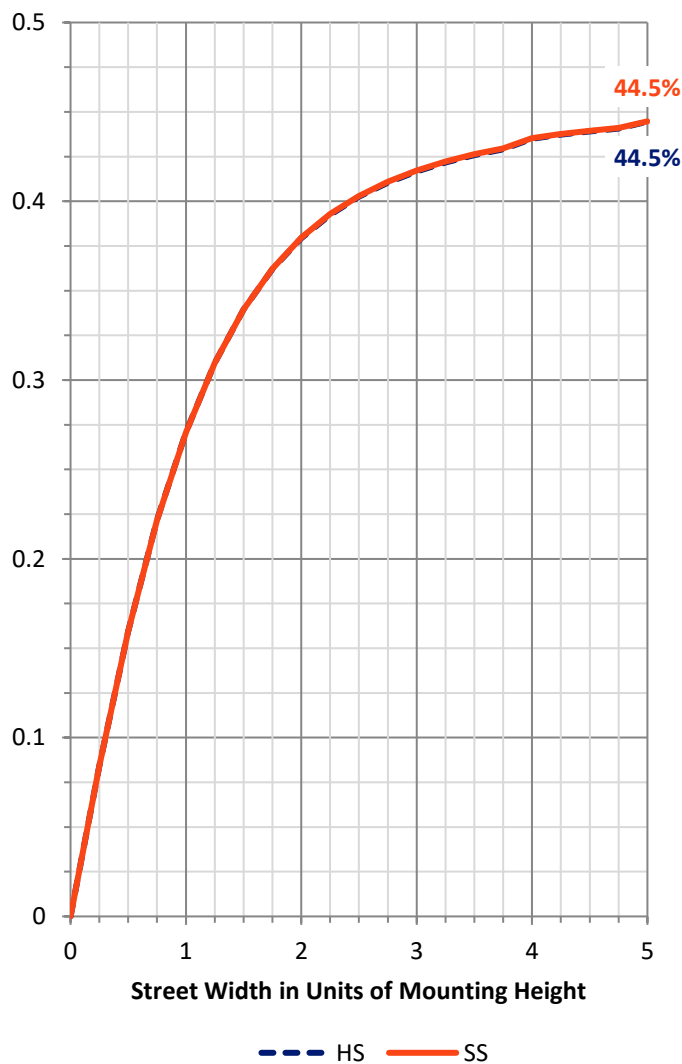
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3305.0	370.3	3675.4
	% Fixture	45.0	5.0	50.0
Street Side	Lumens	3305.0	370.3	3675.4
	% Fixture	45.0	5.0	50.0
Total	Lumens	6610.0	740.7	7350.7
	% Fixture	89.9	10.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.8
10°-20°	373.6	5.1
20°-30°	603.9	8.2
30°-40°	817.1	11.1
40°-50°	1023.5	13.9
50°-60°	1254.3	17.1
60°-70°	1257.3	17.1
70°-80°	907.3	12.3
80°-90°	242.9	3.3
90°-100°	16.5	0.2
100°-110°	168.0	2.3
110°-120°	245.6	3.3
120°-130°	142.5	1.9
130°-140°	75.5	1.0
140°-150°	44.9	0.6
150°-160°	27.6	0.4
160°-170°	15.1	0.2
170°-180°	4.9	0.1
0°-90°	6610.0	89.9
0°-180°	7350.7	100.0

Coefficient of Utilization



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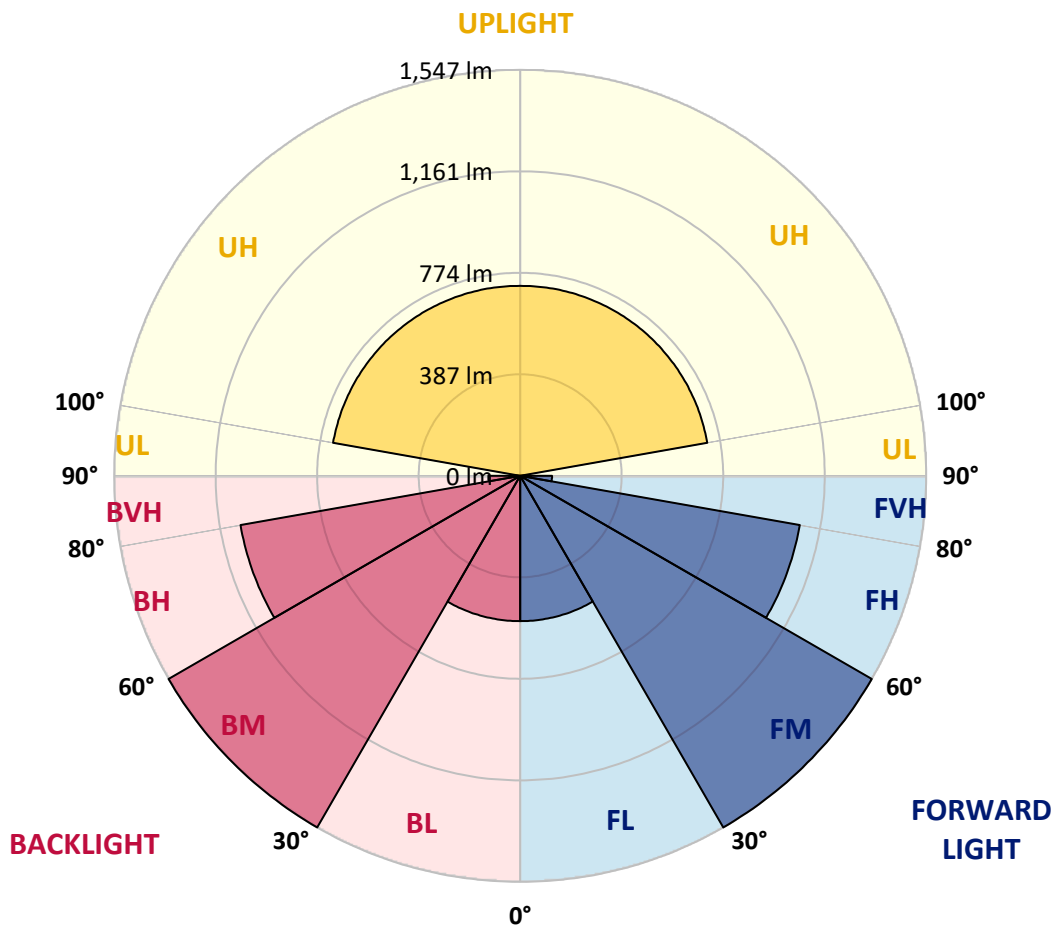
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.8	7.5			
FM (30°-60°)	1547.4	21.1			
FH (60°-80°)	1082.3	14.7			G1/1800
FVH (80°-90°)	121.5	1.7			G2/225
BL (0°-30°)	553.8	7.5	B2/1000		
BM (30°-60°)	1547.4	21.1	B2/2500		
BH (60°-80°)	1082.3	14.7	B3/2500		G1/1800
BVH (80°-90°)	121.5	1.7			G2/225
UL (90°-100°)	16.5	0.2		U2/50	
UH (100°-180°)	724.2	9.9		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°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)