

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: P198393

Luminaire Tested: **TT-C3-LED-E1-RW-CG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198393
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-RW-CG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4486.1 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 62.4
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: 25 FT



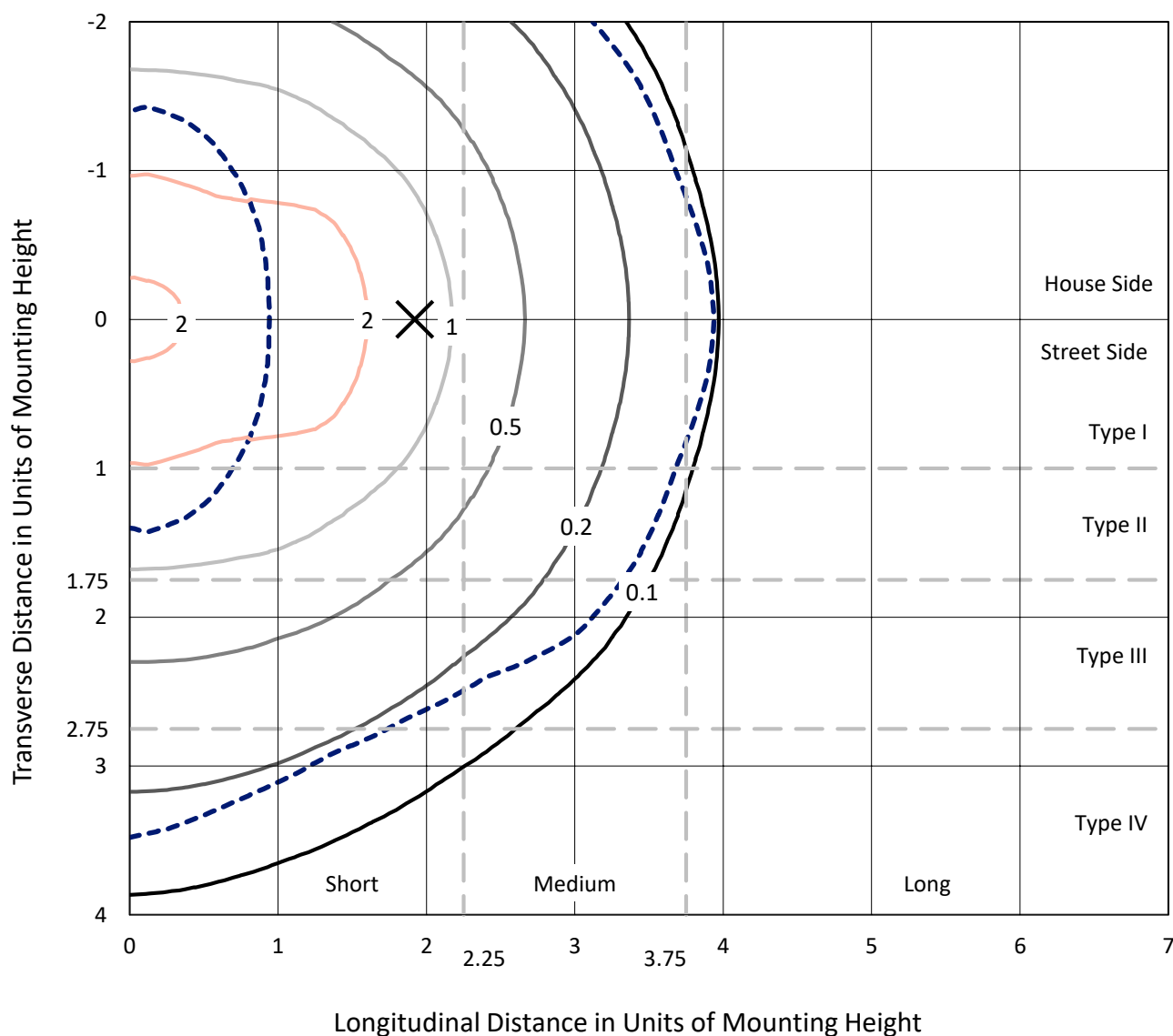
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

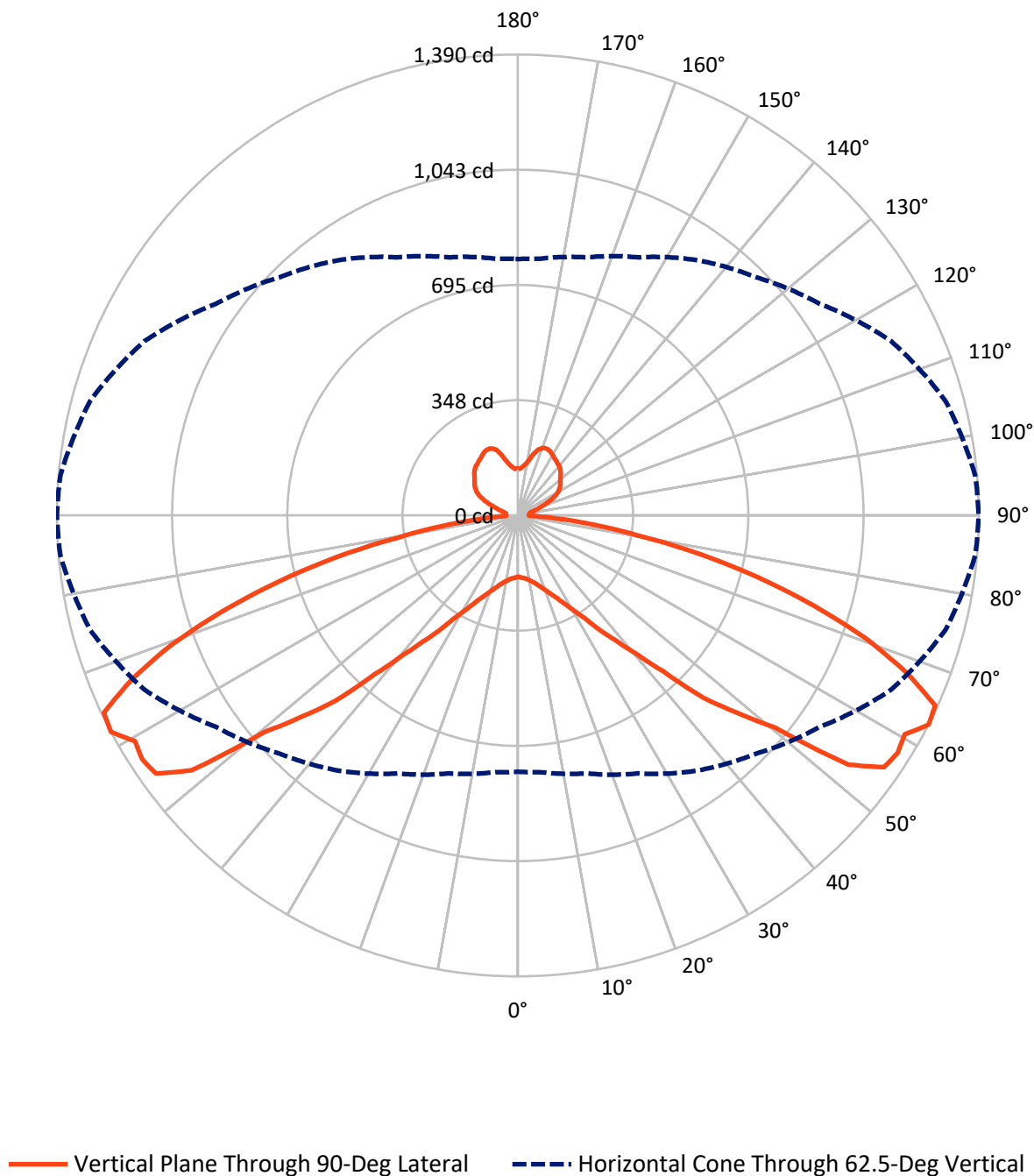


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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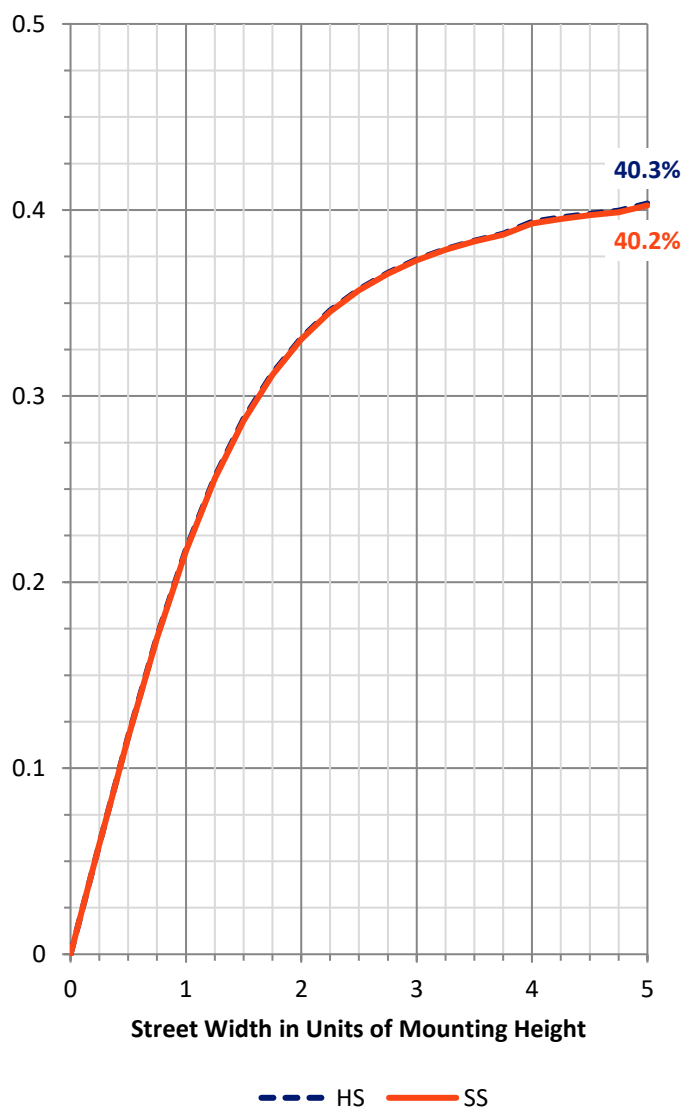
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.4	412.7	2243.0
	% Fixture	40.8	9.2	50.0
Street Side	Lumens	1830.4	412.7	2243.0
	% Fixture	40.8	9.2	50.0
Total	Lumens	3660.7	825.3	4486.1
	% Fixture	81.6	18.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.4
10°-20°	62.9	1.4
20°-30°	134.5	3.0
30°-40°	261.5	5.8
40°-50°	493.1	11.0
50°-60°	842.5	18.8
60°-70°	1014.6	22.6
70°-80°	682.8	15.2
80°-90°	150.5	3.4
90°-100°	38.4	0.9
100°-110°	59.5	1.3
110°-120°	119.6	2.7
120°-130°	148.9	3.3
130°-140°	153.3	3.4
140°-150°	136.3	3.0
150°-160°	103.9	2.3
160°-170°	51.8	1.2
170°-180°	13.6	0.3
0°-90°	3660.7	81.6
0°-180°	4486.1	100.0

Coefficient of Utilization



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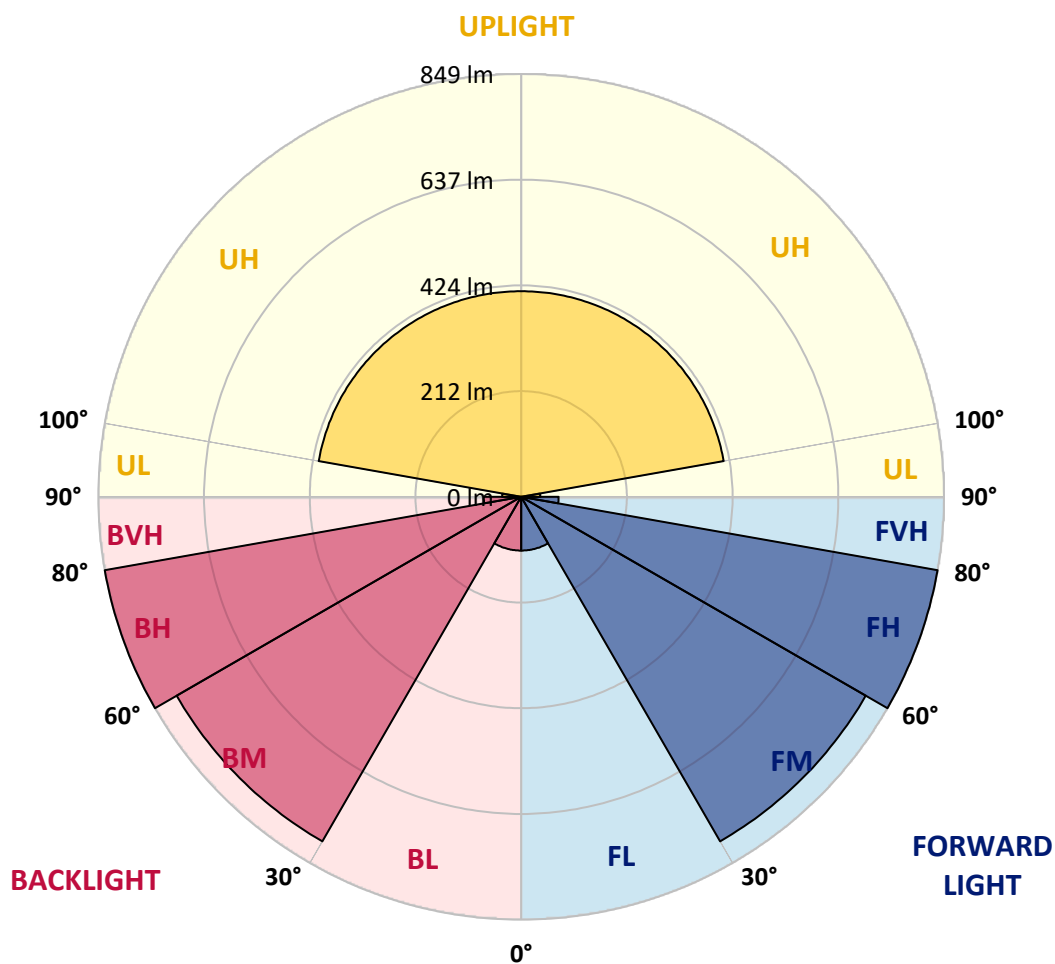
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.9	2.4			
FM	(30°-60°)	798.5	17.8			
FH	(60°-80°)	848.7	18.9			G1/1800
FVH	(80°-90°)	75.2	1.7			G1/100
BL	(0°-30°)	107.9	2.4	B0/110		
BM	(30°-60°)	798.5	17.8	B1/1000		
BH	(60°-80°)	848.7	18.9	B2/1000		G2/1000
BVH	(80°-90°)	75.2	1.7			G1/100
UL	(90°-100°)	38.4	0.9		U2/50	
UH	(100°-180°)	412.7	9.2		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9
2.5°	186.6	186.6	186.6	186.6	186.6	186.6	187.4	187.4	187.4	187.4	187.4
5°	189.2	189.2	190.0	190.0	190.9	190.9	190.9	190.9	190.0	190.0	190.0
7.5°	193.4	193.4	194.3	195.1	195.1	194.3	194.3	193.4	193.4	193.4	193.4
10°	200.3	200.3	201.1	201.1	200.3	200.3	200.3	199.4	199.4	199.4	199.4
12.5°	208.0	208.8	209.7	208.8	208.0	207.1	207.1	206.3	206.3	206.3	206.3
15°	219.1	220.8	220.0	220.0	219.1	217.4	216.5	215.7	215.7	215.7	215.7
17.5°	236.2	236.2	233.7	231.9	230.2	229.4	228.5	227.7	227.7	227.7	227.7
20°	254.2	253.3	250.8	248.2	245.6	244.8	242.2	241.4	242.2	241.4	241.4
22.5°	275.6	274.7	271.3	268.7	265.3	261.9	261.0	258.5	257.6	256.8	257.6
25°	297.0	297.8	295.3	292.7	287.6	284.2	280.7	279.0	277.3	276.5	276.5
27.5°	321.8	323.5	321.8	316.7	311.5	309.0	303.8	302.1	301.3	302.1	302.1
30°	348.3	349.2	346.6	344.1	338.9	332.9	329.5	330.4	330.4	332.9	332.1
32.5°	380.9	380.0	376.6	374.9	369.7	364.6	362.9	363.8	367.2	368.9	368.9
35°	416.8	414.2	410.8	407.4	403.1	399.7	400.6	407.4	417.7	420.2	422.0
37.5°	452.8	448.5	448.5	443.3	439.9	442.5	447.6	460.5	468.2	480.2	477.6
40°	486.1	487.0	485.3	481.0	480.2	488.7	499.8	516.1	535.8	547.8	546.9
42.5°	517.0	524.7	519.5	520.4	524.7	538.4	556.3	588.0	627.4	642.8	642.8
45°	551.2	560.6	556.3	558.9	570.9	592.3	630.8	693.3	747.2	784.0	784.0
47.5°	586.3	594.8	593.1	598.3	619.7	657.3	716.4	794.3	848.2	884.1	889.3
50°	630.8	627.4	628.2	641.1	677.9	732.6	808.0	885.0	974.0	995.4	1005.7
52.5°	669.3	659.0	665.0	686.4	739.5	803.7	897.0	1033.1	1156.3	1241.9	1248.7
55°	701.0	693.3	705.2	735.2	803.7	888.4	1009.9	1176.8	1278.7	1330.9	1340.3
57.5°	728.4	724.9	744.6	783.1	870.4	974.0	1097.2	1232.5	1303.5	1343.7	1350.6
60°	753.2	755.7	777.1	828.5	922.6	1017.6	1116.9	1230.8	1301.8	1333.5	1340.3
62.5°	772.9	777.1	805.4	858.5	939.8	1015.9	1111.8	1242.7	1335.2	1384.8	1390.0
65°	785.7	790.0	821.6	858.5	934.6	1008.2	1143.5	1254.7	1323.2	1373.7	1383.1
67.5°	787.4	793.4	812.2	843.0	907.2	972.3	1088.7	1169.1	1223.9	1254.7	1263.3
70°	777.1	775.4	782.3	795.1	833.6	878.1	976.6	1036.5	1075.8	1107.5	1115.2
72.5°	737.8	735.2	718.9	704.4	718.9	754.0	838.8	879.0	905.5	931.2	936.3
75°	662.5	650.5	610.2	589.7	585.4	616.2	681.3	707.0	717.2	746.3	749.8
77.5°	529.8	524.7	490.4	454.5	451.1	469.9	519.5	530.6	522.1	553.8	563.2
80°	386.9	380.0	347.5	321.0	314.1	326.9	356.0	358.6	352.6	368.0	368.0
82.5°	247.4	240.5	226.8	207.1	192.6	200.3	222.5	222.5	222.5	226.8	229.4
85°	127.5	125.0	114.7	105.3	100.1	101.9	109.6	110.4	114.7	117.3	113.8
87.5°	35.9	37.7	35.9	31.7	30.8	30.0	33.4	34.2	36.8	38.5	40.2
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)