

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: P198403

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198403
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-SG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING 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: 4533.1 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - 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



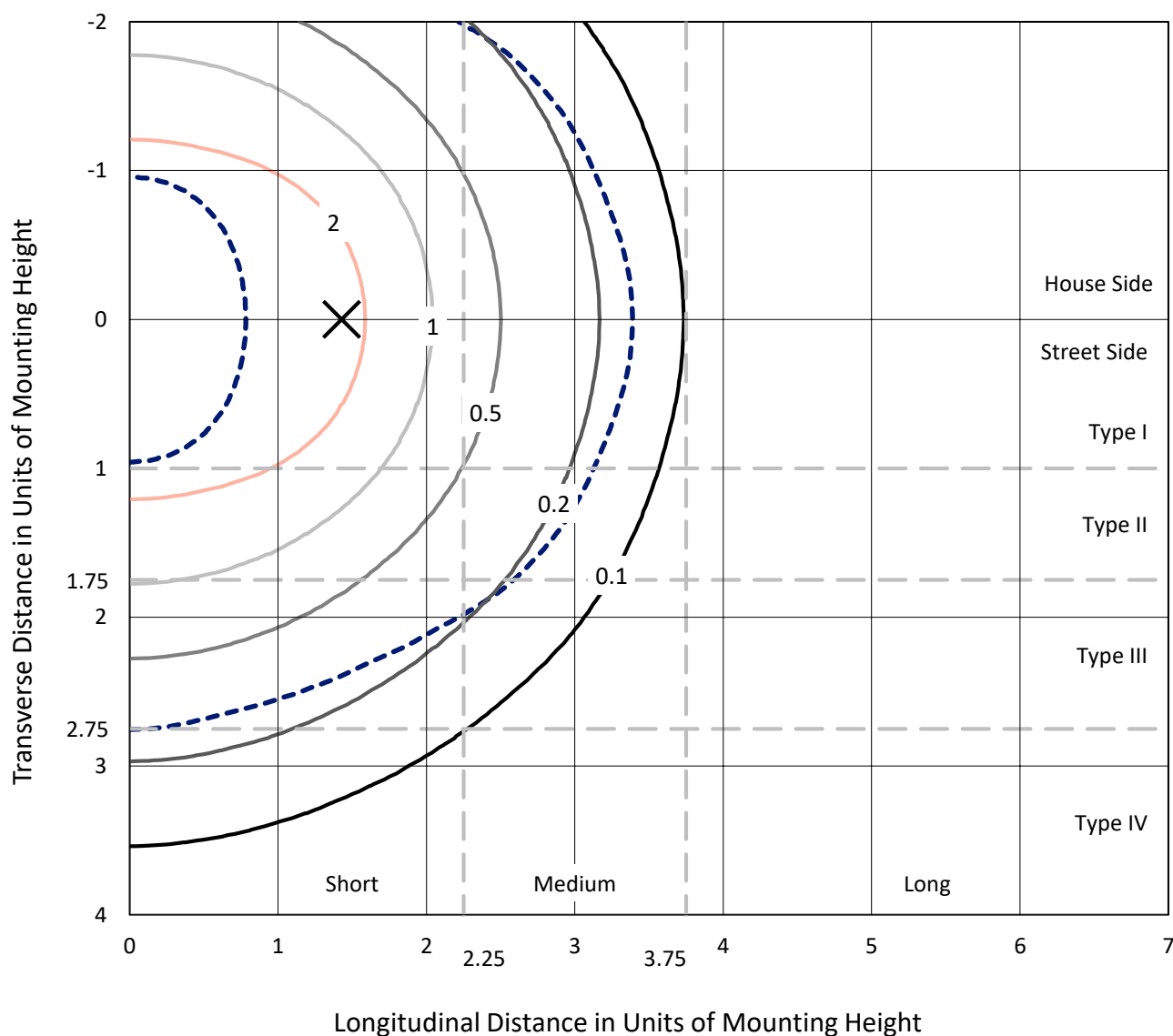
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

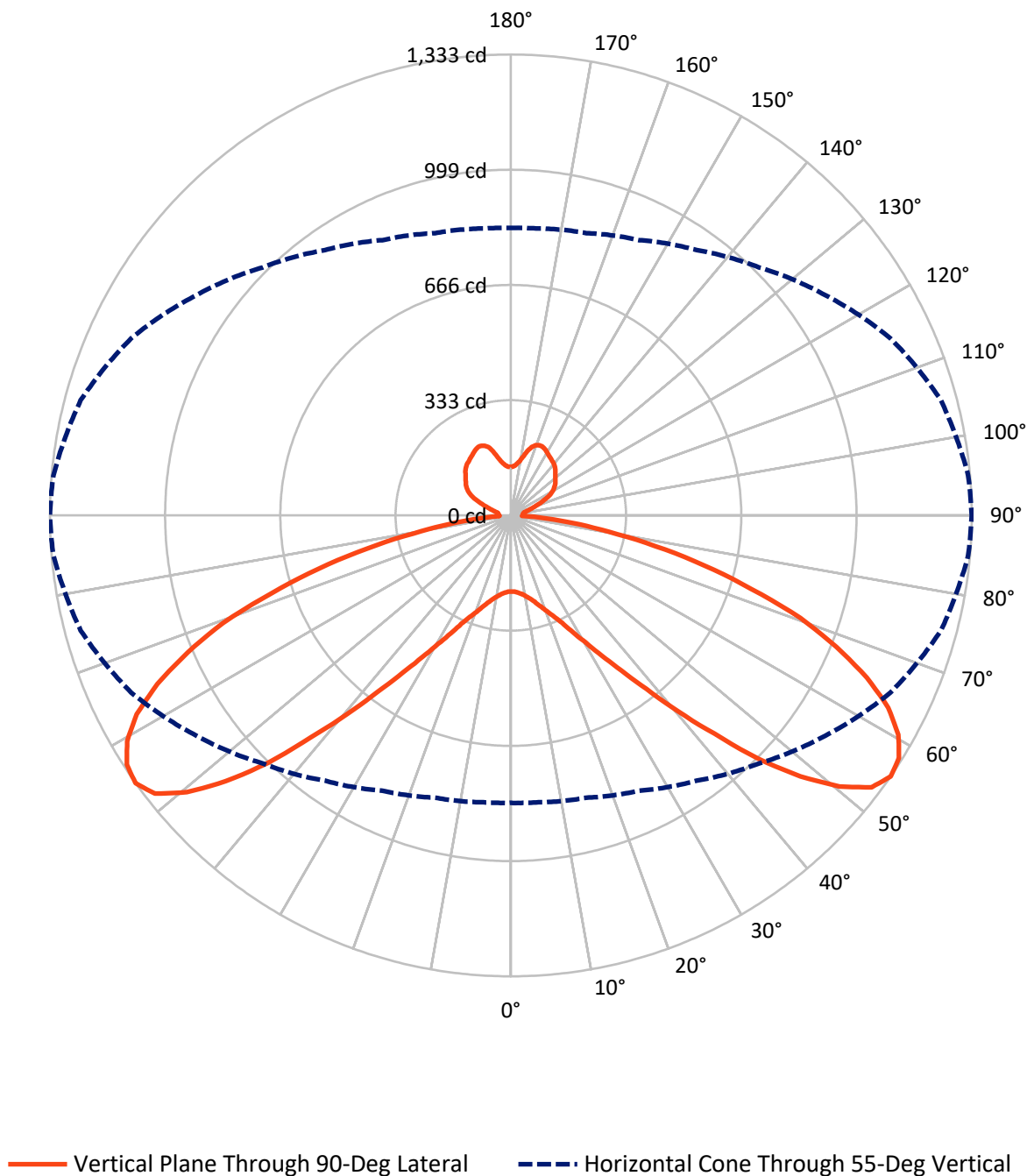


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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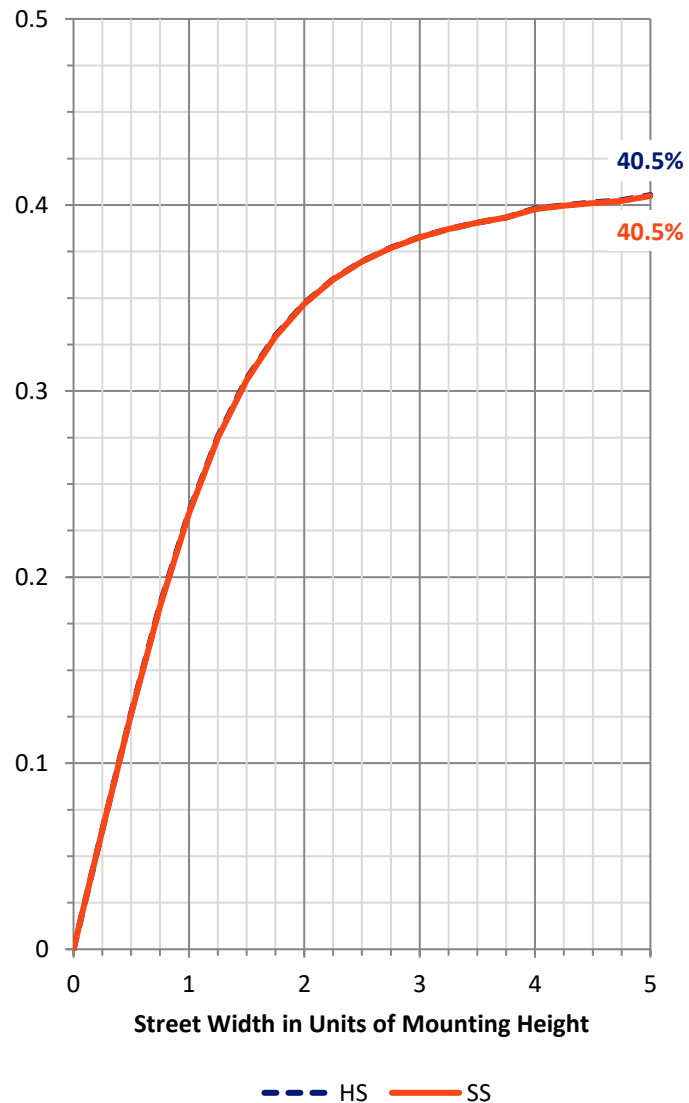
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1853.9	412.7	2266.6
	% Fixture	40.9	9.1	50.0
Street Side	Lumens	1853.9	412.7	2266.6
	% Fixture	40.9	9.1	50.0
Total	Lumens	3707.8	825.3	4533.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.5
10°-20°	75.6	1.7
20°-30°	165.1	3.6
30°-40°	332.1	7.3
40°-50°	627.6	13.8
50°-60°	925.8	20.4
60°-70°	911.9	20.1
70°-80°	531.0	11.7
80°-90°	116.8	2.6
90°-100°	38.4	0.8
100°-110°	59.5	1.3
110°-120°	119.6	2.6
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	1.1
170°-180°	13.6	0.3
0°-90°	3707.8	81.8
0°-180°	4533.1	100.0

Coefficient of Utilization



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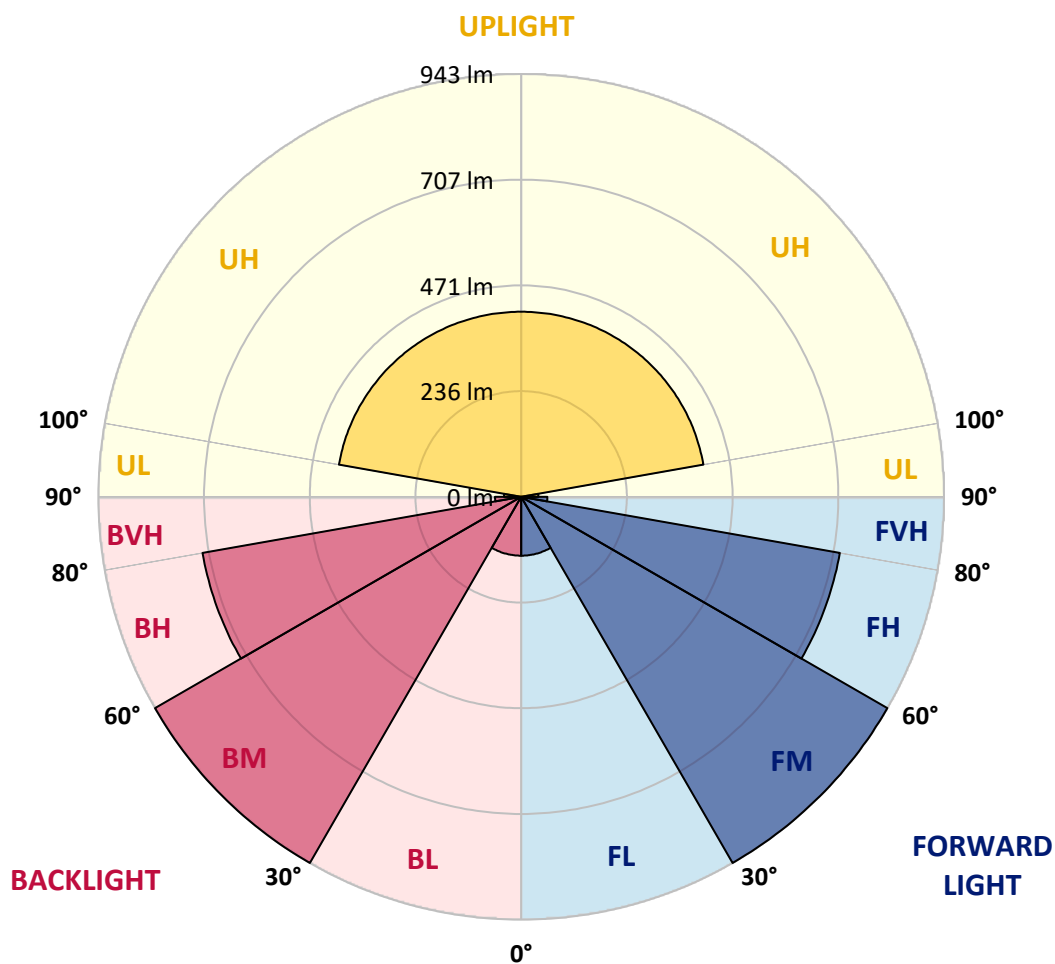
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.3	2.9			
FM	(30°-60°)	942.8	20.8			
FH	(60°-80°)	721.4	15.9			G1/1800
FVH	(80°-90°)	58.4	1.3			G1/100
BL	(0°-30°)	131.3	2.9	B1/500		
BM	(30°-60°)	942.8	20.8	B1/1000		
BH	(60°-80°)	721.4	15.9	B2/1000		G2/1000
BVH	(80°-90°)	58.4	1.3			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	9.1		U3/500	

BUG Rating: B2-U4-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0
2.5°	221.7	221.7	221.7	221.7	220.8	221.7	220.8	220.8	220.8	220.8	220.8
5°	224.2	225.1	224.2	224.2	224.2	224.2	224.2	224.2	223.4	223.4	224.2
7.5°	230.2	230.2	230.2	230.2	229.4	230.2	229.4	229.4	229.4	229.4	229.4
10°	238.8	238.8	238.8	238.8	237.9	237.9	237.9	237.1	237.1	237.1	237.1
12.5°	249.1	249.9	249.9	249.1	248.2	248.2	247.4	247.4	247.4	247.4	246.5
15°	264.5	263.6	263.6	261.9	261.9	260.2	261.0	260.2	259.3	258.5	259.3
17.5°	279.9	280.7	280.7	279.0	278.2	277.3	275.6	275.6	274.7	275.6	275.6
20°	303.8	303.8	302.1	300.4	297.8	297.0	295.3	295.3	293.6	295.3	295.3
22.5°	327.8	327.8	326.1	325.2	321.8	319.2	318.4	317.5	316.7	318.4	316.7
25°	357.8	357.8	356.0	352.6	349.2	348.3	345.8	345.8	346.6	347.5	344.1
27.5°	388.6	389.4	387.7	385.1	381.7	378.3	378.3	379.2	380.0	383.4	382.6
30°	426.2	425.4	422.8	419.4	417.7	415.1	416.0	419.4	422.8	426.2	426.2
32.5°	464.7	463.9	463.0	459.6	458.8	457.9	462.2	469.0	475.9	478.4	482.7
35°	505.8	505.8	505.0	502.4	504.1	508.4	515.2	528.1	538.4	550.3	550.3
37.5°	551.2	549.5	550.3	550.3	554.6	562.3	578.6	603.4	624.8	636.8	636.8
40°	598.3	595.7	596.6	600.8	608.5	627.4	655.6	689.8	724.1	739.5	744.6
42.5°	643.6	641.1	644.5	648.8	667.6	696.7	738.6	790.8	839.6	863.6	862.7
45°	685.6	687.3	691.6	701.8	729.2	772.0	831.9	902.1	965.4	993.7	1004.0
47.5°	727.5	728.4	734.3	752.3	790.8	844.8	917.5	1010.8	1081.0	1114.4	1127.2
50°	766.9	768.6	778.9	804.5	849.9	914.9	1004.8	1104.1	1181.1	1220.5	1231.6
52.5°	802.0	803.7	815.7	847.3	901.2	976.6	1070.7	1172.6	1253.9	1299.2	1306.1
55°	831.1	832.8	844.8	878.1	936.3	1014.2	1110.1	1211.1	1287.3	1327.5	1332.6
57.5°	848.2	849.0	861.9	896.1	953.5	1026.2	1118.6	1216.2	1283.0	1318.9	1323.2
60°	849.0	850.7	862.7	893.5	946.6	1013.4	1101.5	1188.8	1249.6	1282.1	1287.3
62.5°	833.6	834.5	844.8	868.7	914.1	972.3	1053.6	1132.3	1187.1	1218.8	1224.8
65°	798.5	798.5	803.7	821.6	856.7	906.4	975.7	1048.5	1099.0	1128.1	1131.5
67.5°	740.3	740.3	741.2	753.2	777.1	816.5	875.6	936.3	981.7	1010.8	1015.1
70°	665.9	665.0	658.2	665.9	681.3	714.7	766.9	813.1	849.9	873.0	888.4
72.5°	571.7	568.3	563.2	561.5	576.9	606.0	648.8	680.4	701.0	725.8	727.5
75°	462.2	460.5	453.6	453.6	469.0	492.1	526.4	547.8	558.0	574.3	577.7
77.5°	344.9	344.1	346.6	347.5	356.0	380.9	400.6	416.0	413.4	423.7	427.1
80°	241.4	243.1	243.1	242.2	250.8	260.2	281.6	285.9	282.4	285.9	285.9
82.5°	153.2	152.3	150.6	153.2	160.1	167.8	176.3	177.2	179.7	177.2	178.9
85°	77.0	76.2	77.9	78.7	82.2	86.4	94.1	95.9	91.6	91.6	89.9
87.5°	26.5	28.2	26.5	27.4	27.4	31.7	30.8	30.8	30.8	30.8	32.5
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)