

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: P198274

Luminaire Tested: **TT-C1-LED-E1-RW-SG-MS/DIM-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198274
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-RW-SG-MS/DIM-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717 lumens
Efficiency: N/A
Efficacy: 81.9 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): 45.4
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

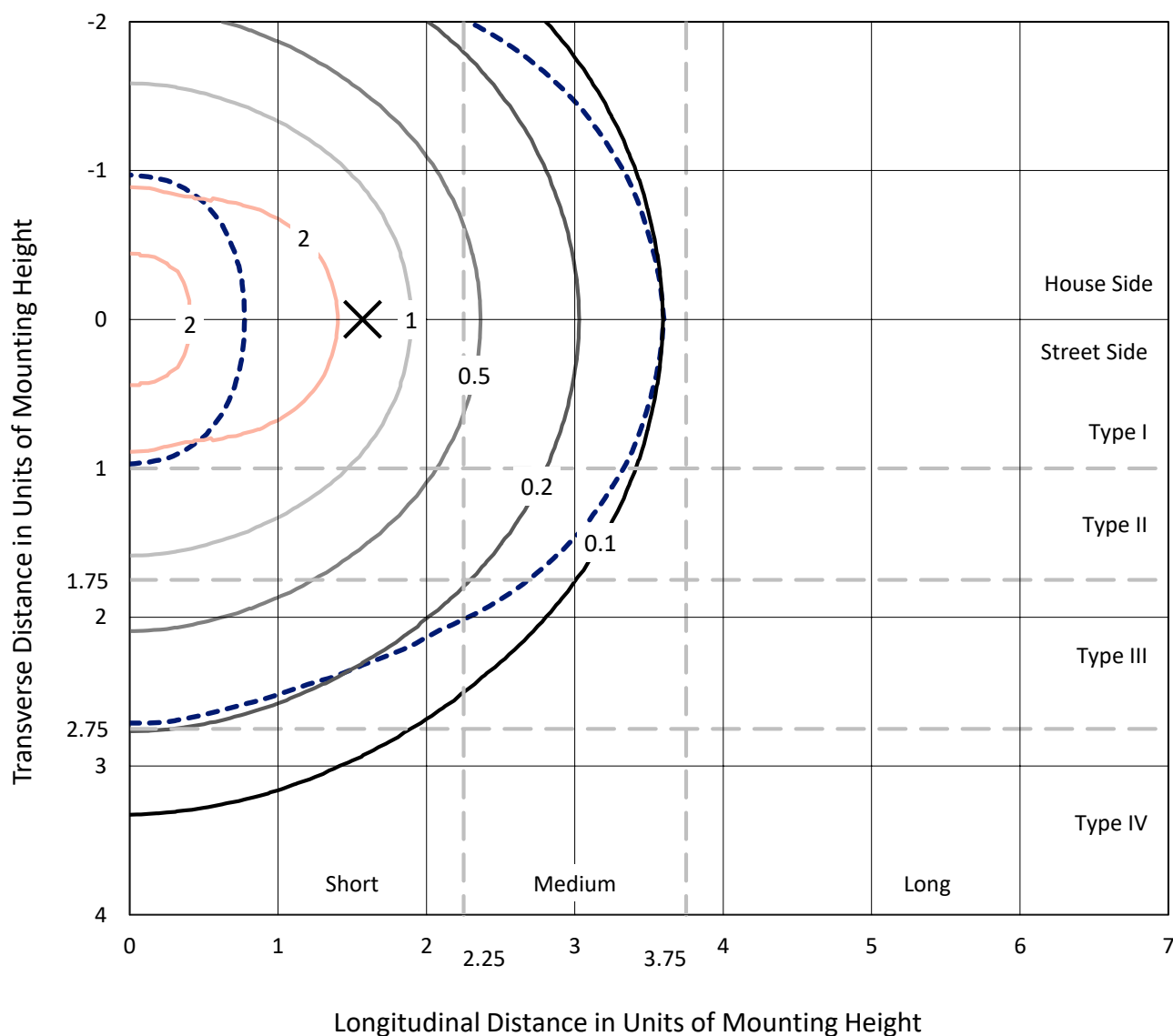


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

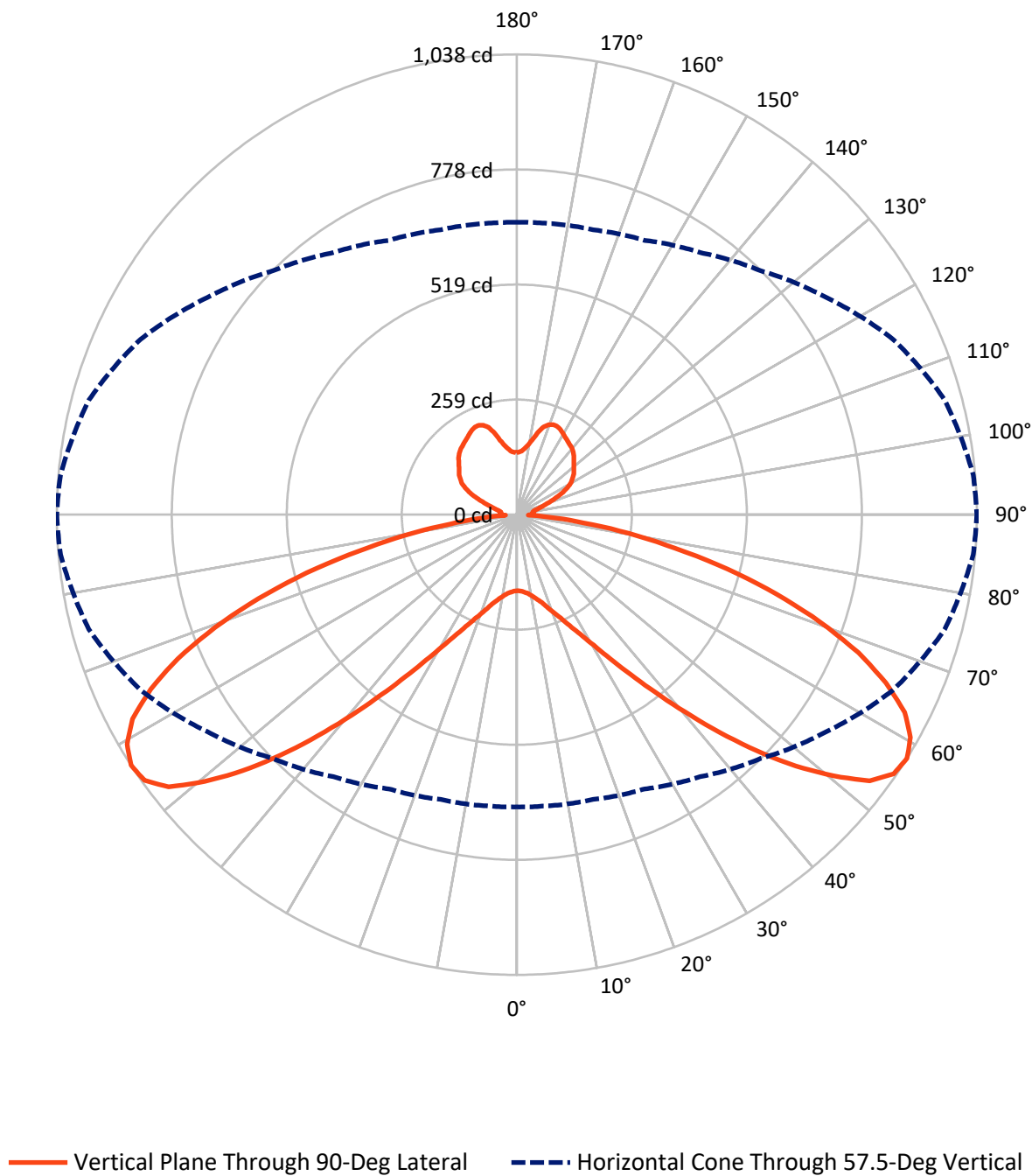


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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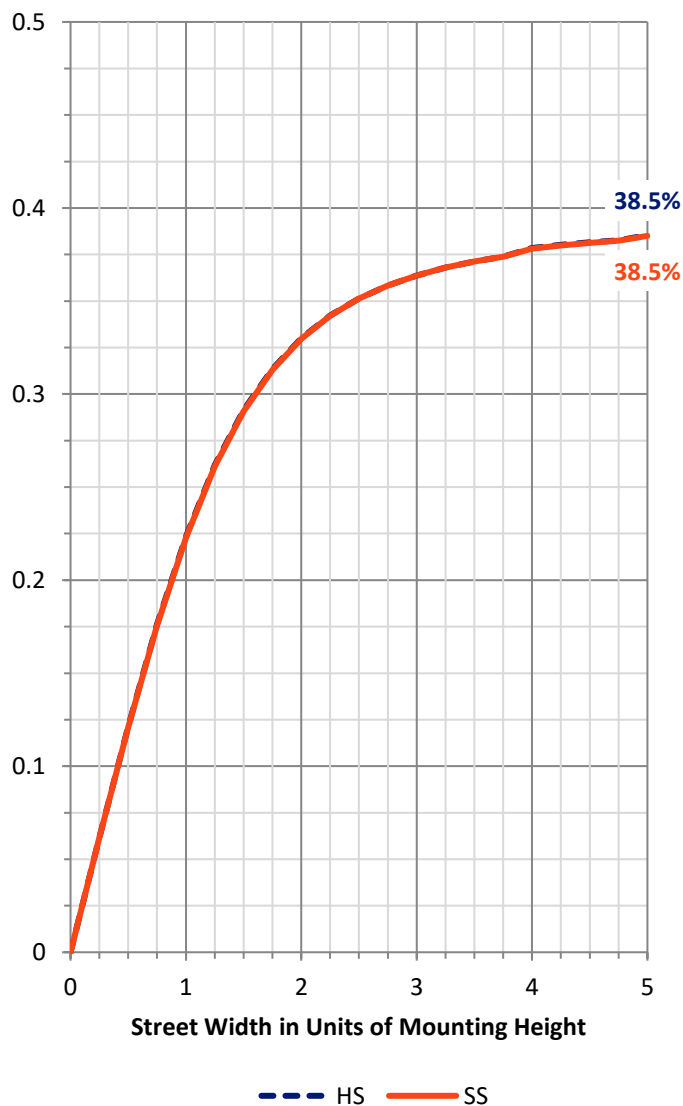
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.9	412.7	1858.5
	% Fixture	38.9	11.1	50.0
Street Side	Lumens	1445.9	412.7	1858.5
	% Fixture	38.9	11.1	50.0
Total	Lumens	2891.7	825.3	3717.0
	% Fixture	77.8	22.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.5
10°-20°	59.0	1.6
20°-30°	128.6	3.5
30°-40°	258.2	6.9
40°-50°	482.1	13.0
50°-60°	710.1	19.1
60°-70°	715.3	19.2
70°-80°	427.0	11.5
80°-90°	94.4	2.5
90°-100°	38.4	1.0
100°-110°	59.5	1.6
110°-120°	119.6	3.2
120°-130°	148.9	4.0
130°-140°	153.3	4.1
140°-150°	136.3	3.7
150°-160°	103.9	2.8
160°-170°	51.8	1.4
170°-180°	13.6	0.4
0°-90°	2891.7	77.8
0°-180°	3717.0	100.0

Coefficient of Utilization



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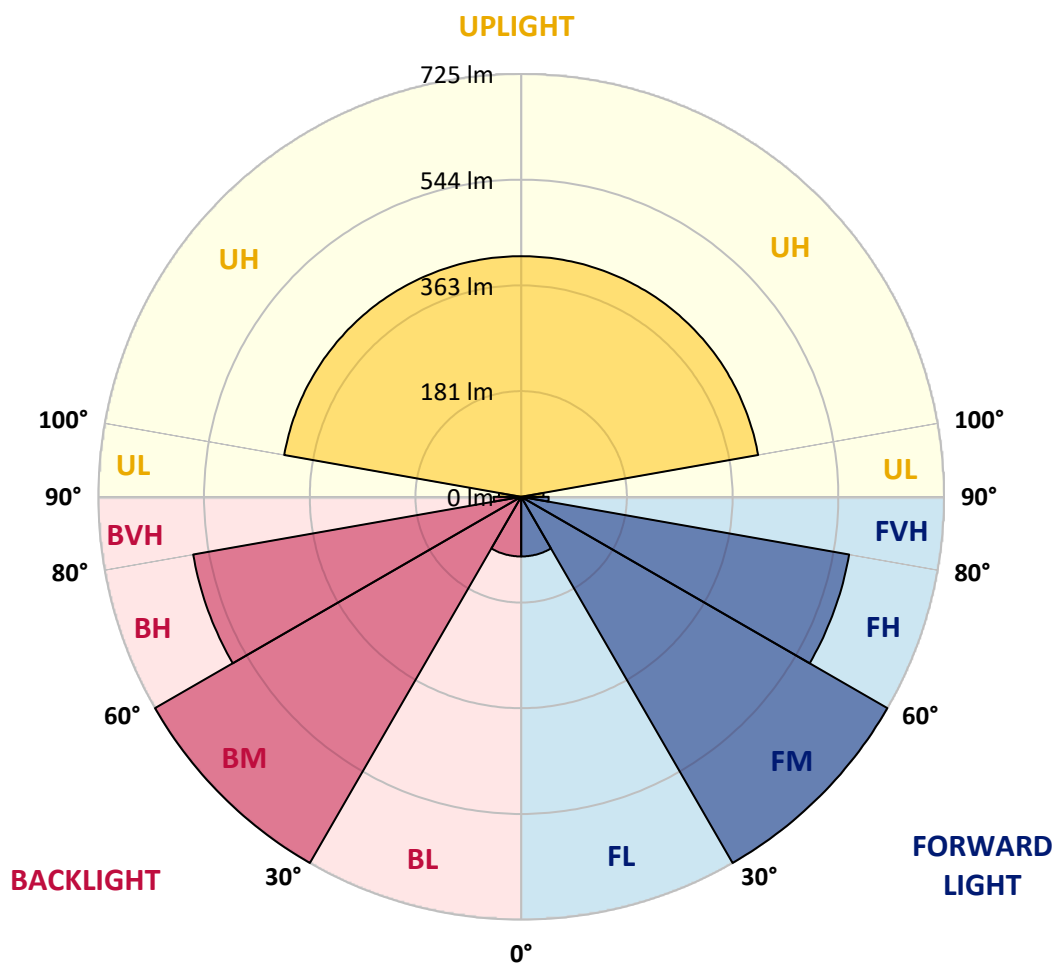
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.3	2.8			
FM	(30°-60°)	725.2	19.5			
FH	(60°-80°)	571.2	15.4			G0/660
FVH	(80°-90°)	47.2	1.3			G1/100
BL	(0°-30°)	102.3	2.8	B0/110		
BM	(30°-60°)	725.2	19.5	B1/1000		
BH	(60°-80°)	571.2	15.4	B2/1000		G2/1000
BVH	(80°-90°)	47.2	1.3			G1/100
UL	(90°-100°)	38.4	1.0		U2/50	
UH	(100°-180°)	412.7	11.1		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°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	173.0	173.0	173.0	173.0	173.0	172.3	173.0	172.3	172.3	172.3	172.3
5°	174.8	174.8	174.8	175.5	175.5	175.5	175.5	174.8	175.5	174.8	175.5
7.5°	179.2	179.2	179.2	179.2	179.2	179.2	179.9	179.2	179.9	179.2	179.2
10°	184.9	184.9	184.9	184.9	185.5	185.5	185.5	186.1	186.1	186.1	186.1
12.5°	193.0	193.0	193.0	193.0	193.0	193.0	193.6	193.6	194.3	194.3	194.3
15°	203.7	203.7	203.0	203.0	203.0	203.7	203.7	204.9	204.3	204.3	204.3
17.5°	216.8	216.2	216.2	216.2	216.2	216.2	216.2	217.5	217.5	217.5	218.1
20°	231.2	232.5	231.9	230.6	230.6	230.6	231.2	232.5	232.5	234.4	235.0
22.5°	251.3	251.9	250.7	250.0	248.2	248.2	250.0	250.7	253.2	252.5	253.2
25°	272.6	272.0	271.3	270.1	270.1	270.1	271.3	273.2	275.1	277.0	277.0
27.5°	296.4	295.8	295.2	294.5	293.3	295.2	296.4	300.8	302.1	306.4	305.2
30°	322.7	323.4	322.1	321.5	320.9	321.5	326.5	332.8	337.8	340.9	341.5
32.5°	352.2	352.8	352.2	350.9	352.2	355.3	361.6	369.7	379.8	385.4	387.3
35°	384.8	386.0	384.8	386.0	387.3	392.9	404.2	416.7	434.3	439.3	442.4
37.5°	419.9	418.6	418.0	419.9	425.5	437.4	453.1	475.0	493.2	508.2	508.2
40°	455.0	455.6	456.2	456.2	466.9	483.2	508.9	538.3	565.3	584.7	585.3
42.5°	492.6	492.6	492.6	498.2	511.4	537.1	570.3	613.5	650.5	668.6	671.2
45°	530.8	533.3	534.5	542.1	561.5	594.1	637.9	690.0	737.0	761.4	760.1
47.5°	568.4	571.5	574.0	585.3	611.6	646.7	701.2	763.9	817.2	844.7	847.2
50°	607.2	605.4	610.4	624.2	653.6	698.7	757.0	829.1	889.9	923.7	926.2
52.5°	632.9	632.3	637.3	651.7	686.2	737.0	804.0	886.1	951.9	987.0	997.0
55°	651.1	650.5	656.1	673.0	710.6	764.5	837.2	923.7	990.1	1026.5	1031.5
57.5°	659.2	659.9	664.9	682.4	721.3	777.7	852.9	936.2	999.5	1033.4	1037.8
60°	658.0	658.6	663.0	679.9	718.2	772.7	845.4	923.7	983.9	1015.2	1020.2
62.5°	644.8	644.2	648.0	662.4	696.2	747.0	816.5	890.5	947.5	976.3	982.0
65°	617.3	616.6	616.6	629.2	658.0	701.2	767.0	832.8	886.1	913.7	914.9
67.5°	572.1	572.1	570.9	578.4	599.7	641.7	698.1	758.3	801.5	827.2	831.0
70°	511.4	512.6	508.2	512.6	530.2	563.4	613.5	661.8	695.6	725.0	726.9
72.5°	444.9	439.9	438.0	439.3	452.5	473.8	517.0	557.7	589.1	609.1	612.9
75°	359.1	359.1	357.8	355.9	363.5	384.8	413.6	446.8	473.1	486.9	491.9
77.5°	275.1	277.6	273.9	273.9	279.5	295.8	320.9	339.0	357.8	367.2	364.7
80°	195.5	194.9	193.0	191.8	198.0	207.4	227.5	238.1	243.8	252.5	256.3
82.5°	120.9	122.2	124.1	118.4	120.9	129.7	140.4	146.0	148.5	152.3	151.7
85°	59.5	60.2	60.8	61.4	61.4	64.5	70.8	73.3	75.2	77.1	75.8
87.5°	21.9	20.7	20.1	20.1	20.1	20.7	23.8	23.2	24.4	24.4	25.7
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)