

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: P198247

Luminaire Tested: **TT-C1-LED-E1-MQ-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198247
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-MQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.6 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G1

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



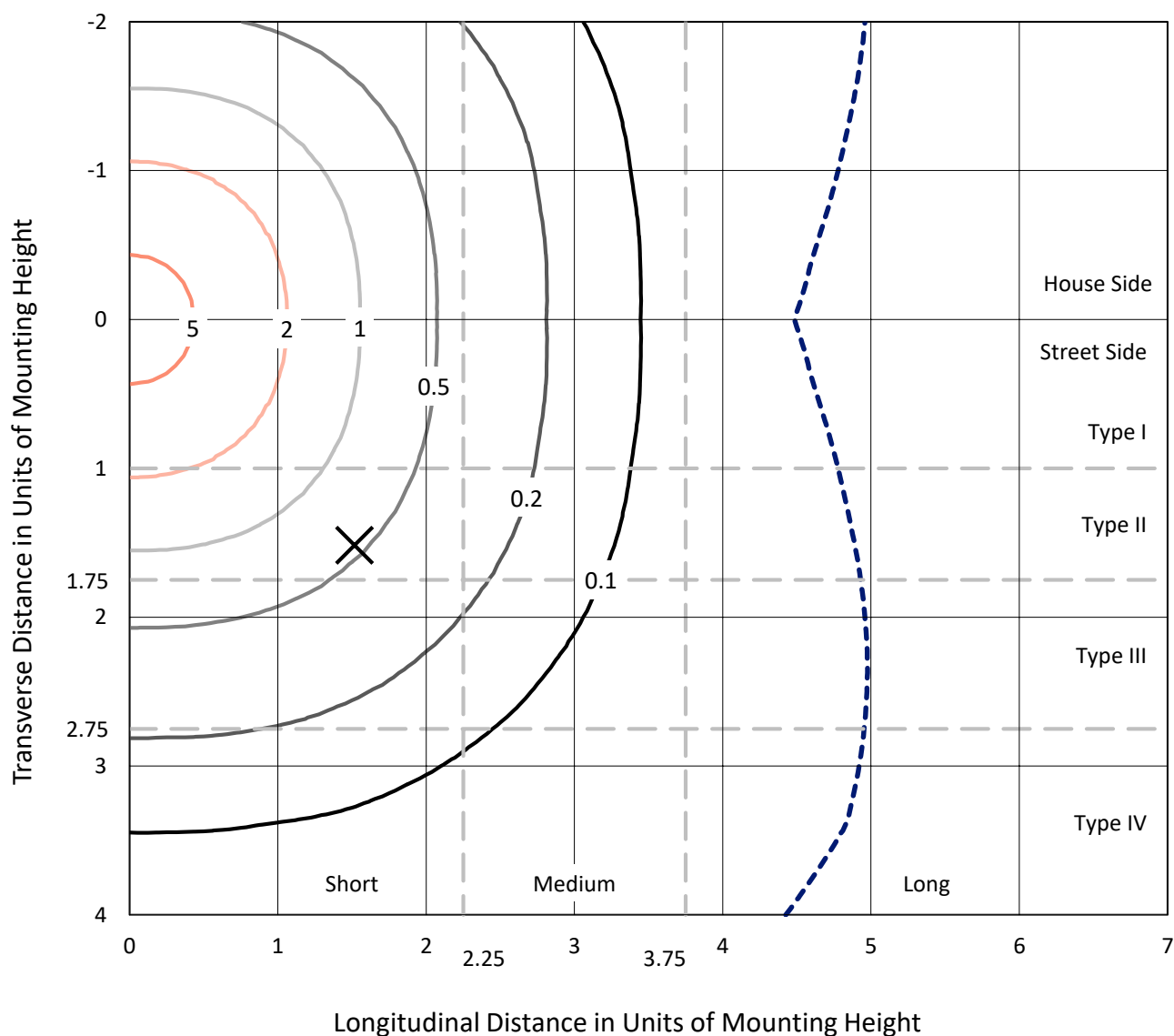
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

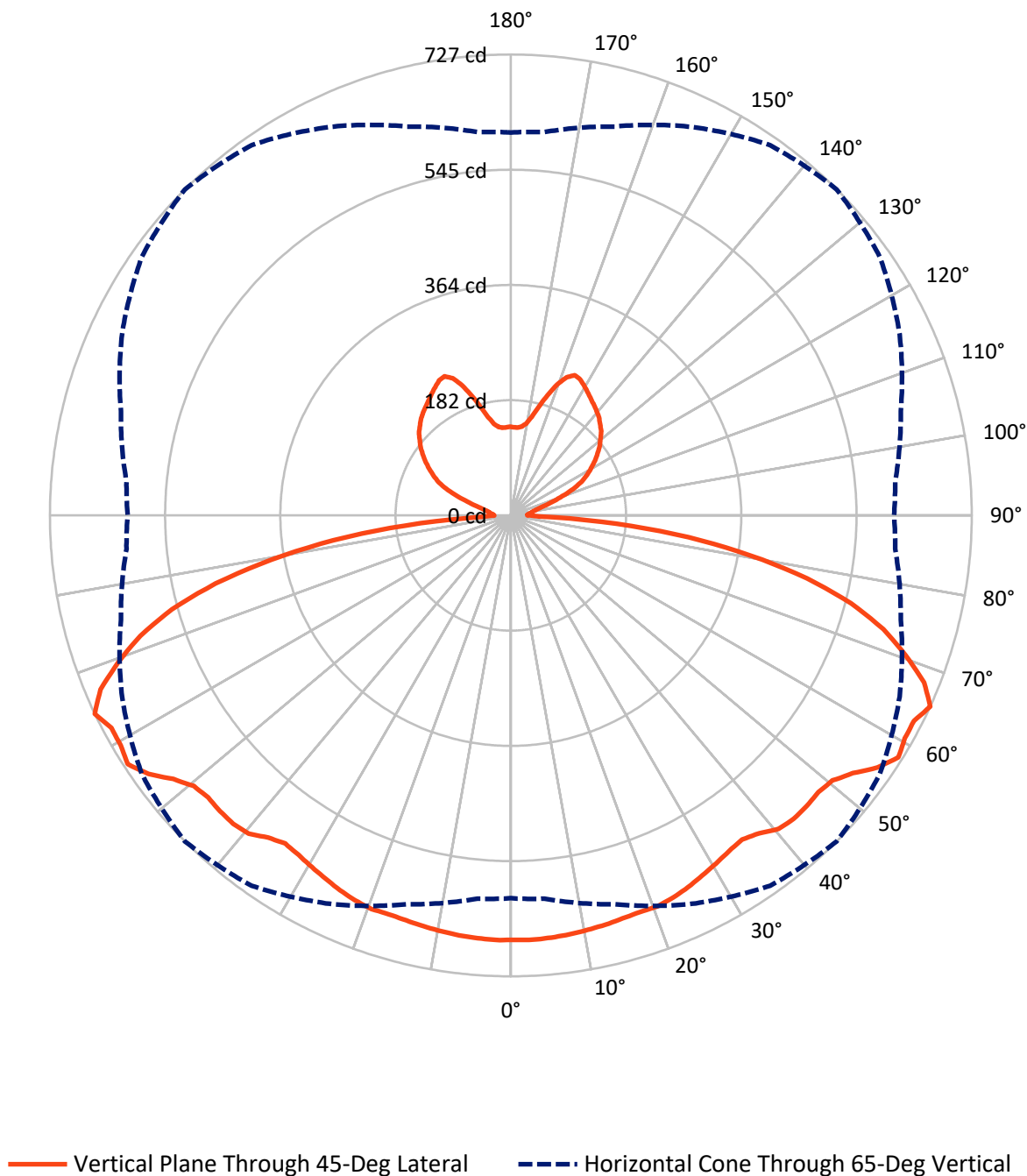


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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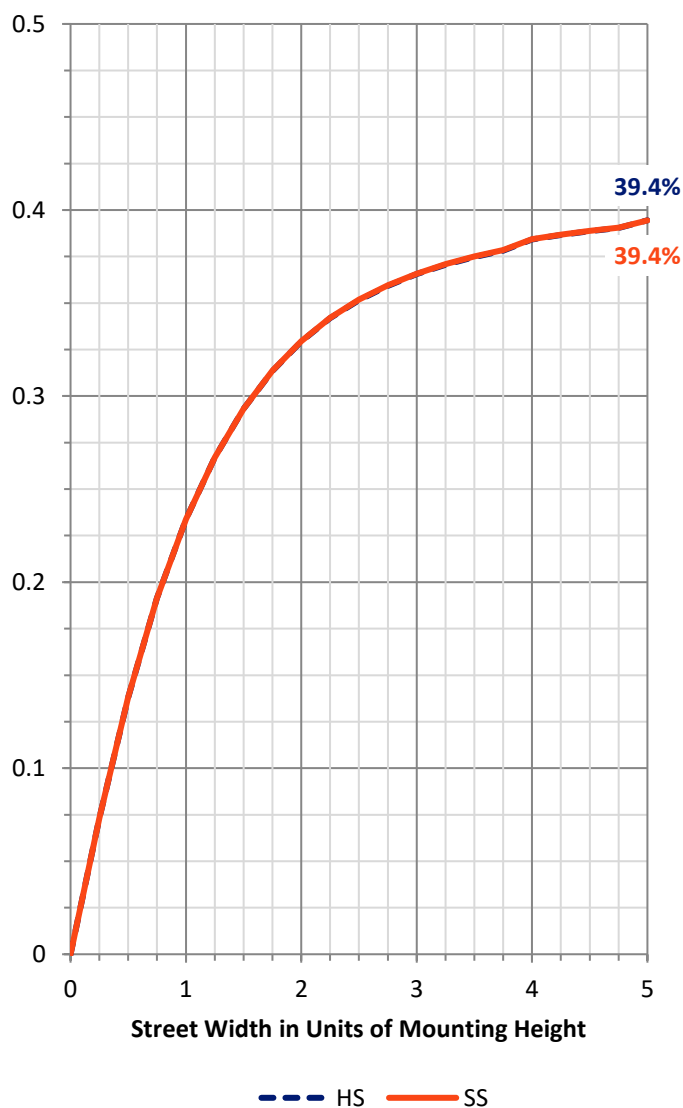
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.6	412.7	2093.3
	% Fixture	40.1	9.9	50.0
Street Side	Lumens	1680.6	412.7	2093.3
	% Fixture	40.1	9.9	50.0
Total	Lumens	3361.2	825.3	4186.6
	% Fixture	80.3	19.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.5
10°-20°	187.0	4.5
20°-30°	299.2	7.1
30°-40°	395.2	9.4
40°-50°	494.0	11.8
50°-60°	593.1	14.2
60°-70°	648.2	15.5
70°-80°	515.0	12.3
80°-90°	165.9	4.0
90°-100°	38.4	0.9
100°-110°	59.5	1.4
110°-120°	119.6	2.9
120°-130°	148.9	3.6
130°-140°	153.3	3.7
140°-150°	136.3	3.3
150°-160°	103.9	2.5
160°-170°	51.8	1.2
170°-180°	13.6	0.3
0°-90°	3361.2	80.3
0°-180°	4186.6	100.0

Coefficient of Utilization



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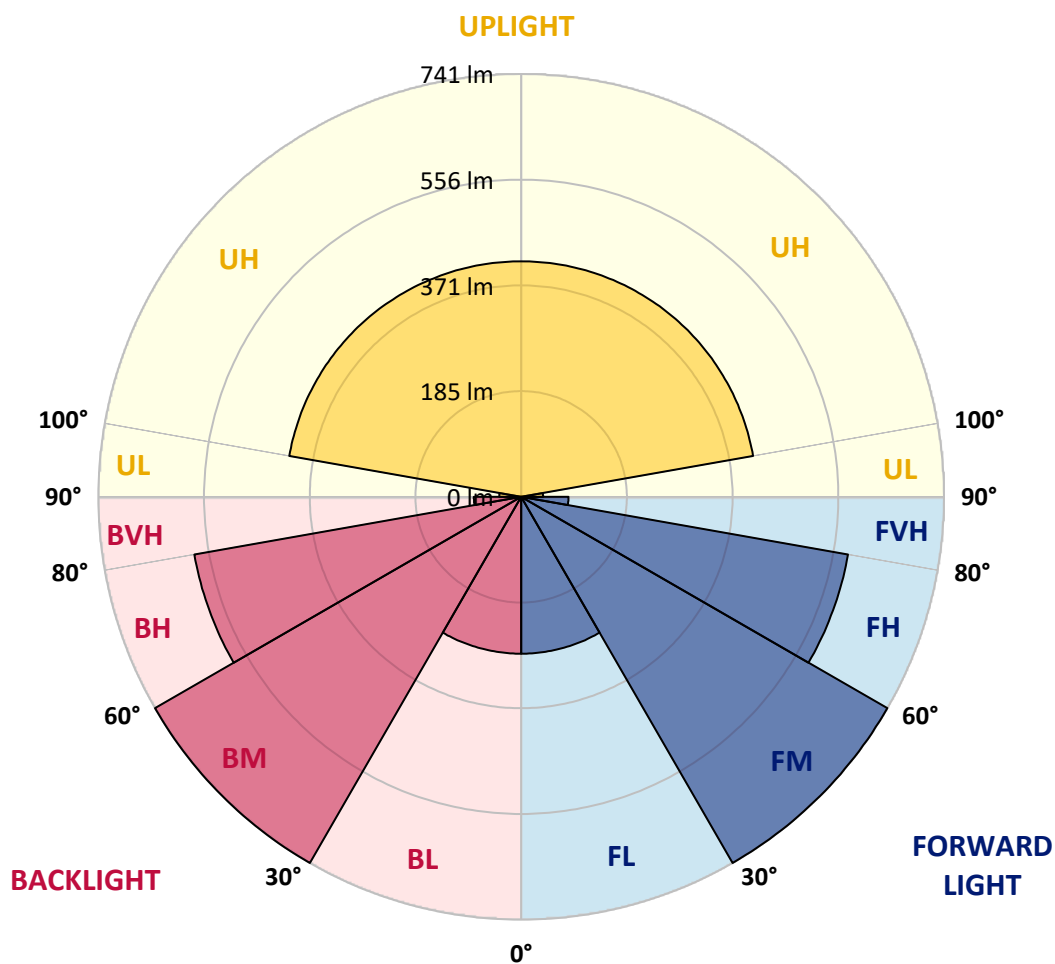
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.9	6.6			
FM	(30°-60°)	741.1	17.7			
FH	(60°-80°)	581.6	13.9			G0/660
FVH	(80°-90°)	83.0	2.0			G1/100
BL	(0°-30°)	274.9	6.6	B1/500		
BM	(30°-60°)	741.1	17.7	B1/1000		
BH	(60°-80°)	581.6	13.9	B2/1000		G0/660
BVH	(80°-90°)	83.0	2.0			G1/100
UL	(90°-100°)	38.4	0.9		U2/50	
UH	(100°-180°)	412.7	9.9		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	670.3	670.3	670.3	670.3	669.7	670.3	669.7	669.7	670.3	670.3	670.3
5°	669.1	669.1	669.1	669.1	669.1	669.1	669.1	669.1	669.1	669.1	669.1
7.5°	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4	667.4
10°	665.0	665.6	665.6	665.6	665.0	665.0	665.0	665.6	665.6	665.0	665.0
12.5°	662.7	662.7	663.3	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.1
15°	659.2	659.2	659.8	659.8	659.8	659.8	659.8	659.2	659.2	658.6	658.6
17.5°	656.2	656.2	657.4	657.4	658.0	658.0	658.0	656.8	656.8	655.7	655.7
20°	655.7	655.7	656.2	657.4	658.0	658.6	658.0	656.8	655.7	654.5	654.5
22.5°	651.5	652.1	653.3	653.9	655.1	655.1	655.1	653.3	652.7	651.5	651.5
25°	646.3	645.7	647.4	648.6	649.8	649.8	649.2	648.0	647.4	645.7	645.7
27.5°	638.1	638.6	639.8	641.6	643.3	643.3	642.7	641.6	640.4	639.2	638.6
30°	631.0	631.6	632.8	634.5	635.7	637.5	635.7	634.5	632.8	632.2	631.6
32.5°	623.4	624.0	625.7	628.7	630.4	631.6	630.4	629.3	626.3	624.6	624.0
35°	618.1	618.7	620.5	624.6	628.1	628.1	628.1	625.2	621.6	618.7	618.1
37.5°	618.7	619.9	624.0	629.8	635.7	636.3	635.7	629.8	624.6	619.9	619.3
40°	623.4	624.6	631.6	640.4	648.0	650.4	648.6	640.4	632.2	625.7	624.0
42.5°	622.8	624.6	632.2	643.3	651.0	654.5	651.0	643.3	633.4	626.3	624.0
45°	620.5	621.6	629.8	641.6	651.0	654.5	651.5	642.7	631.6	623.4	621.6
47.5°	616.9	618.1	624.6	638.6	649.2	652.7	649.8	640.4	626.3	619.9	618.7
50°	612.3	615.8	626.3	641.0	655.1	657.4	655.7	642.2	627.5	618.1	613.4
52.5°	616.9	616.4	628.7	655.1	668.0	675.6	669.7	653.9	631.6	619.3	618.1
55°	627.5	632.2	645.7	670.3	691.4	702.0	693.8	672.1	646.9	631.6	628.7
57.5°	626.9	632.8	656.8	681.5	713.7	720.7	711.4	684.4	655.7	635.7	628.1
60°	623.4	625.7	643.9	687.9	706.1	714.3	706.1	685.0	648.6	626.3	626.3
62.5°	611.7	615.8	644.5	675.0	700.8	713.7	703.7	677.4	643.9	619.9	612.3
65°	604.0	607.0	635.1	676.2	713.1	727.2	710.8	676.8	636.9	608.7	604.6
67.5°	580.0	585.3	611.7	656.2	692.0	703.2	696.7	655.1	611.7	585.9	579.4
70°	538.9	541.9	578.2	620.5	653.3	660.9	651.5	624.6	574.7	546.0	537.2
72.5°	488.5	492.6	526.0	573.0	604.6	614.6	603.5	574.7	523.1	497.3	489.1
75°	437.5	441.6	463.3	514.3	540.7	554.8	541.9	510.8	464.5	439.3	435.7
77.5°	364.2	370.6	404.1	438.1	463.3	478.0	466.8	438.1	401.7	371.8	360.7
80°	286.2	290.9	322.0	351.9	374.7	384.1	378.8	351.9	322.5	292.1	286.8
82.5°	200.6	203.5	230.5	254.5	282.7	282.7	276.8	259.2	229.9	203.5	204.7
85°	107.3	110.8	131.4	150.1	167.7	167.7	162.4	151.3	130.8	110.3	107.9
87.5°	21.7	24.0	31.7	34.6	41.1	44.0	39.9	36.4	31.7	25.2	25.2
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)