

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: P198263

Luminaire Tested: **TT-C1-LED-E1-RW-CG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198263
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-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3282.1 lumens
Efficiency: N/A
Efficacy: 72.3 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): 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

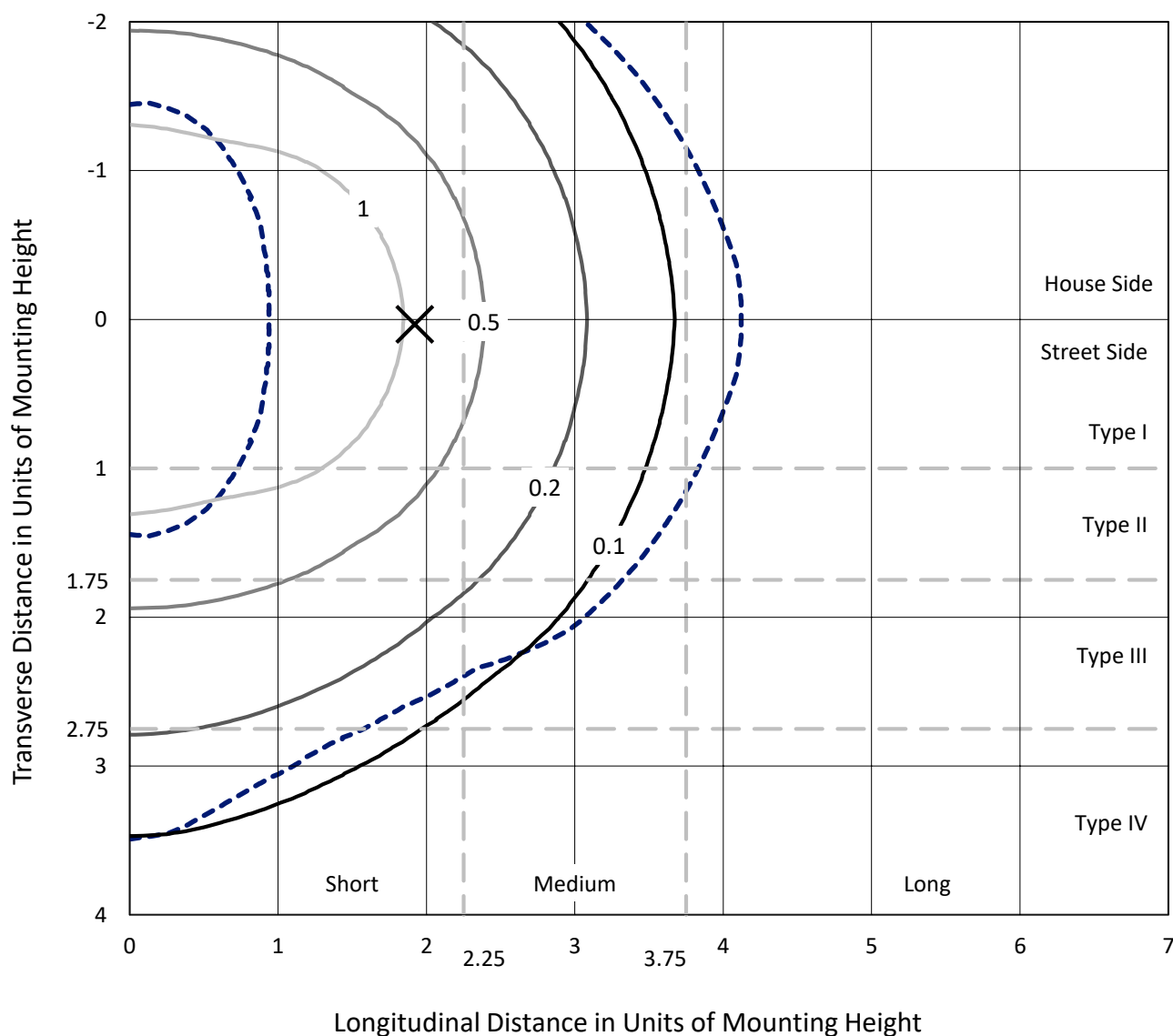


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

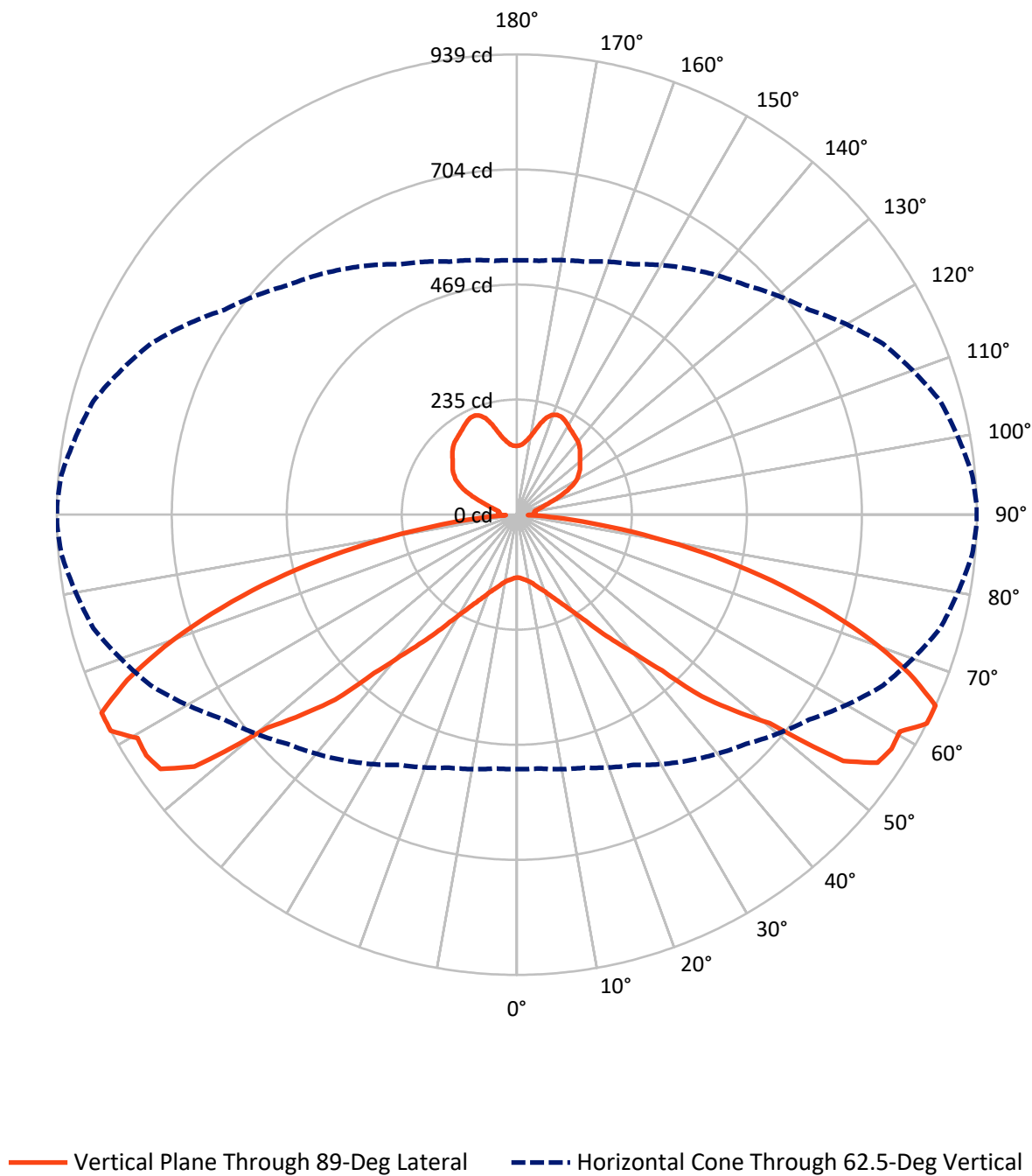


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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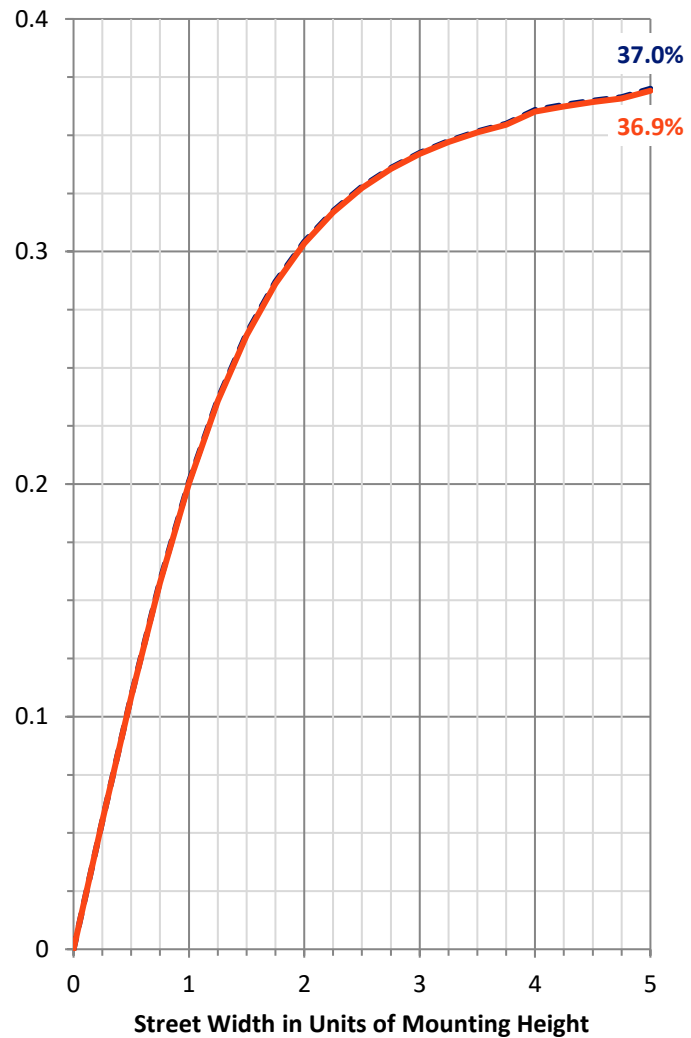
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.4	412.7	1641.0
	% Fixture	37.4	12.6	50.0
Street Side	Lumens	1228.4	412.7	1641.0
	% Fixture	37.4	12.6	50.0
Total	Lumens	2456.7	825.3	3282.1
	% Fixture	74.9	25.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.4
10°-20°	43.6	1.3
20°-30°	92.8	2.8
30°-40°	178.4	5.4
40°-50°	330.2	10.1
50°-60°	557.9	17.0
60°-70°	673.8	20.5
70°-80°	463.9	14.1
80°-90°	103.4	3.1
90°-100°	38.4	1.2
100°-110°	59.5	1.8
110°-120°	119.6	3.6
120°-130°	148.9	4.5
130°-140°	153.3	4.7
140°-150°	136.3	4.2
150°-160°	103.9	3.2
160°-170°	51.8	1.6
170°-180°	13.6	0.4
0°-90°	2456.7	74.9
0°-180°	3282.1	100.0

Coefficient of Utilization



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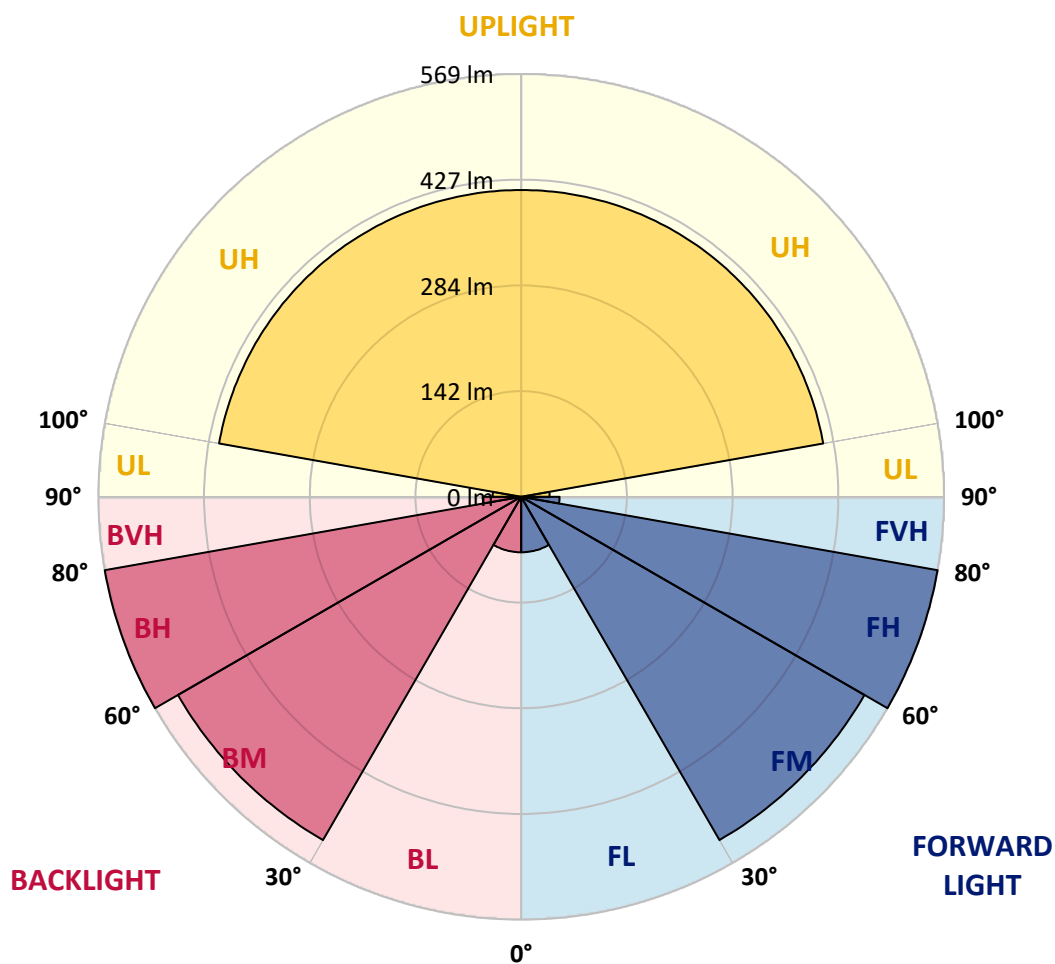
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.6	2.3			
FM	(30°-60°)	533.2	16.2			
FH	(60°-80°)	568.8	17.3			G0/660
FVH	(80°-90°)	51.7	1.6			G1/100
BL	(0°-30°)	74.6	2.3	B0/110		
BM	(30°-60°)	533.2	16.2	B1/1000		
BH	(60°-80°)	568.8	17.3	B2/1000		G2/1000
BVH	(80°-90°)	51.7	1.6			G1/100
UL	(90°-100°)	38.4	1.2		U2/50	
UH	(100°-180°)	412.7	12.6		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°	89°
0°	128.2	128.2	128.2	128.2	128.2	128.2	128.2	128.2	128.2	128.2	128.2
2.5°	129.3	129.3	129.3	129.3	129.8	129.8	129.8	129.8	129.8	129.8	129.3
5°	131.4	130.9	131.4	131.9	131.9	132.5	132.5	132.5	132.5	131.9	131.9
7.5°	134.1	134.1	134.6	135.2	135.7	135.2	135.2	134.6	134.6	134.6	134.6
10°	138.9	138.4	138.9	139.5	138.9	138.9	138.9	138.9	138.9	138.9	138.4
12.5°	144.3	144.3	144.3	144.3	143.7	144.3	143.7	144.3	144.3	144.3	143.7
15°	151.8	151.8	151.8	151.3	150.7	150.7	150.7	150.7	150.7	150.7	151.3
17.5°	162.0	161.4	160.9	159.8	159.3	158.8	158.8	158.8	159.3	159.3	159.3
20°	173.8	172.7	171.6	171.1	170.6	169.5	169.0	169.5	170.0	170.0	168.4
22.5°	188.3	186.7	185.0	184.5	182.4	181.8	181.3	180.8	180.8	181.3	180.8
25°	201.7	202.2	200.6	197.9	197.4	196.3	194.7	195.2	194.7	195.2	194.7
27.5°	218.3	219.4	217.8	215.1	213.5	211.9	210.8	210.8	211.3	212.9	211.3
30°	237.1	237.6	236.0	233.8	231.2	229.0	228.5	231.2	231.2	233.3	232.2
32.5°	256.9	256.4	254.2	253.7	250.5	250.5	251.0	253.2	256.9	258.5	258.0
35°	281.0	277.8	277.3	275.1	272.5	272.5	275.7	281.0	288.0	292.3	292.8
37.5°	303.0	302.0	301.4	298.2	296.6	299.8	306.3	315.9	321.8	330.4	330.4
40°	325.6	328.2	325.6	322.3	324.0	328.8	339.5	351.8	365.3	374.4	374.4
42.5°	347.6	352.4	349.7	347.0	351.3	362.6	376.0	396.9	423.7	435.5	435.0
45°	371.2	374.9	372.2	372.8	381.9	395.8	421.6	466.6	504.2	528.3	528.8
47.5°	396.9	397.4	395.8	398.5	411.9	438.7	473.6	528.8	565.9	594.8	597.0
50°	422.6	420.0	419.4	425.9	450.0	483.8	533.7	587.3	645.8	667.2	668.8
52.5°	445.7	442.5	444.6	455.4	487.0	528.8	591.1	682.2	767.0	830.3	834.6
55°	467.7	463.9	469.3	486.5	528.3	584.6	662.4	776.1	848.0	889.3	893.0
57.5°	486.5	485.4	494.0	515.4	566.9	635.6	720.9	813.6	866.7	897.9	901.6
60°	505.2	505.2	516.5	544.4	601.8	664.5	732.1	813.1	867.8	894.1	897.9
62.5°	518.7	519.7	534.2	563.2	612.0	661.3	728.4	824.4	894.6	932.7	938.6
65°	526.2	528.3	543.9	563.2	607.7	658.1	752.5	833.5	891.4	931.6	938.6
67.5°	527.2	531.5	539.0	553.5	591.1	634.0	713.9	779.9	828.1	858.7	863.5
70°	522.4	520.8	520.3	524.0	542.8	573.9	644.2	696.2	743.9	763.2	767.0
72.5°	498.3	497.7	479.0	467.2	472.0	493.4	555.7	595.9	627.0	651.7	654.3
75°	450.0	445.7	414.6	390.5	385.6	404.9	451.6	481.1	509.0	532.1	538.0
77.5°	375.4	364.7	333.1	304.6	295.5	310.0	344.9	365.3	385.6	412.5	412.5
80°	272.5	267.1	239.7	216.7	207.6	216.1	240.8	249.4	260.1	284.3	284.8
82.5°	175.9	170.0	151.8	137.3	129.3	134.6	144.8	148.6	157.7	172.2	171.6
85°	85.8	85.8	76.7	68.7	61.1	62.2	68.7	70.8	78.3	82.1	81.0
87.5°	21.5	23.6	20.9	19.3	17.2	17.2	19.3	19.3	23.6	23.6	22.5
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	38.2
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	48.8
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.8
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.2
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.6
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.8
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.6
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.6
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.4
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.6
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.4
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.6
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.2
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.2
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	201.8
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.6
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.8
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.8
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.2
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.6
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.6
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	191.6
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.6
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.8
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.6
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.8
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

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CANDELA DISTRIBUTION (continued):

	90°
0°	128.2
2.5°	129.3
5°	131.9
7.5°	134.6
10°	138.4
12.5°	144.3
15°	150.7
17.5°	159.8
20°	170.0
22.5°	180.8
25°	194.7
27.5°	212.9
30°	233.3
32.5°	257.4
35°	290.7
37.5°	330.4
40°	374.9
42.5°	435.5
45°	529.9
47.5°	594.8
50°	667.2
52.5°	831.9
55°	892.5
57.5°	902.1
60°	898.9
62.5°	938.6
65°	937.5
67.5°	862.5
70°	768.6
72.5°	658.6
75°	540.1
77.5°	409.8
80°	296.1
82.5°	172.7
85°	82.1
87.5°	24.7
90°	34.0
92.5°	36.0
95°	38.0
97.5°	36.0
100°	37.0
102.5°	41.0
105°	49.0
107.5°	60.0
110°	75.0

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CANDELA DISTRIBUTION (continued):

	90°
112.5°	94.0
115°	113.0
117.5°	129.0
120°	142.0
122.5°	150.0
125°	158.0
127.5°	163.0
130°	169.0
132.5°	176.0
135°	184.0
137.5°	190.0
140°	195.0
142.5°	198.0
145°	202.0
147.5°	206.0
150°	211.0
152.5°	216.0
155°	219.0
157.5°	219.0
160°	215.0
162.5°	207.0
165°	192.0
167.5°	174.0
170°	160.0
172.5°	151.0
175°	144.0
177.5°	141.0
180°	140.0

(END OF REPORT)