

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: P198402

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198402
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-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4944 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - Short - Semi-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

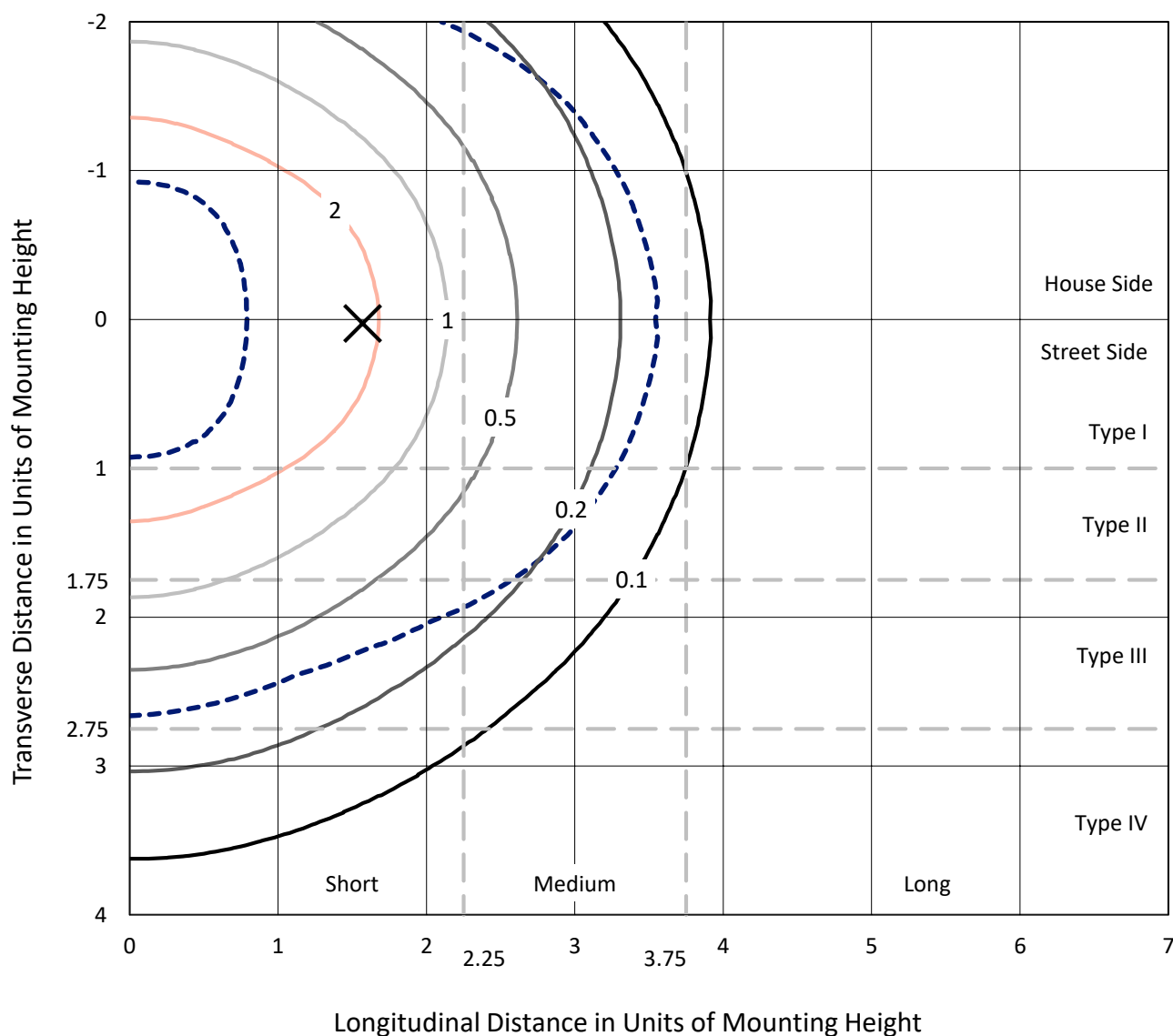


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

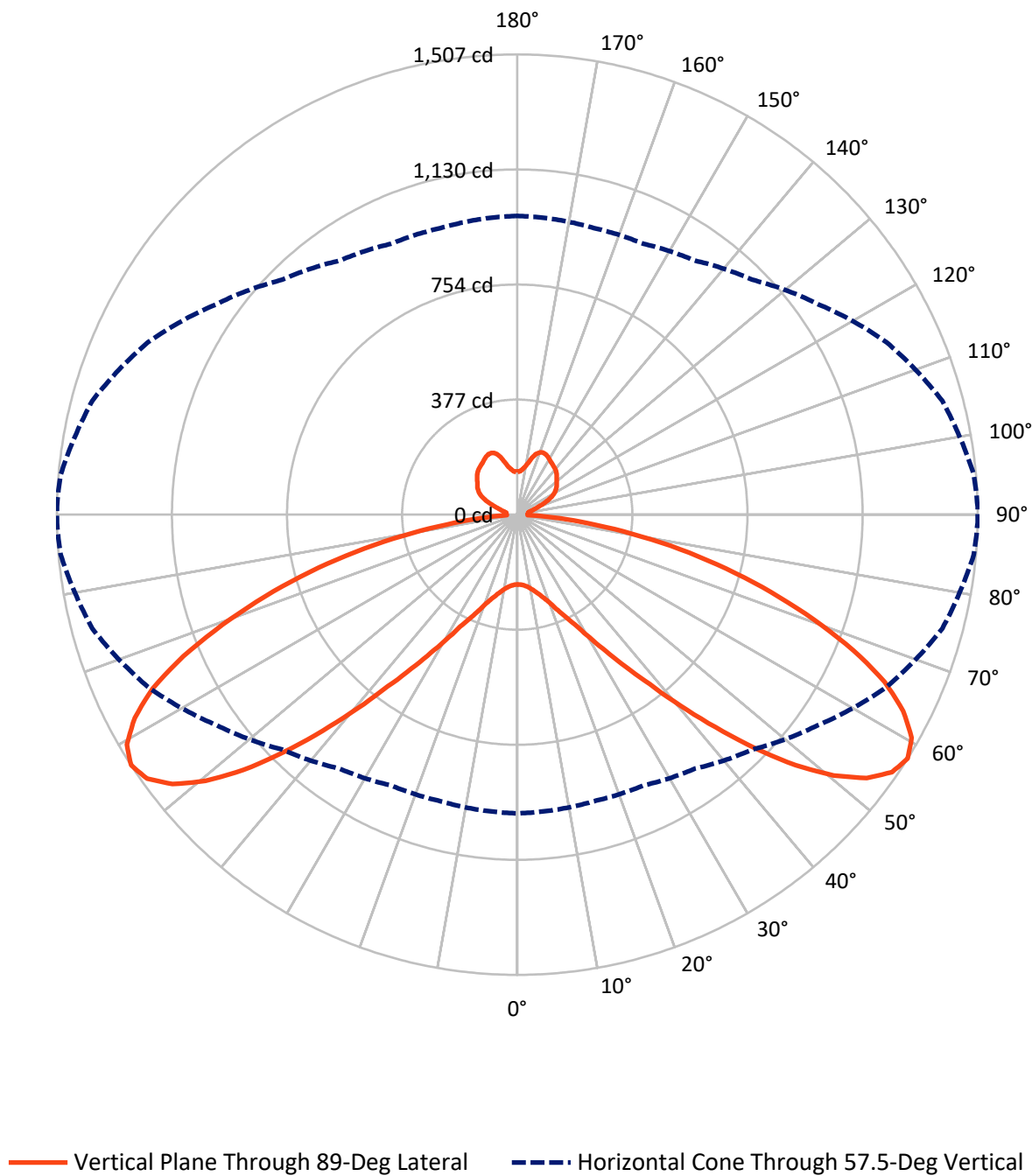


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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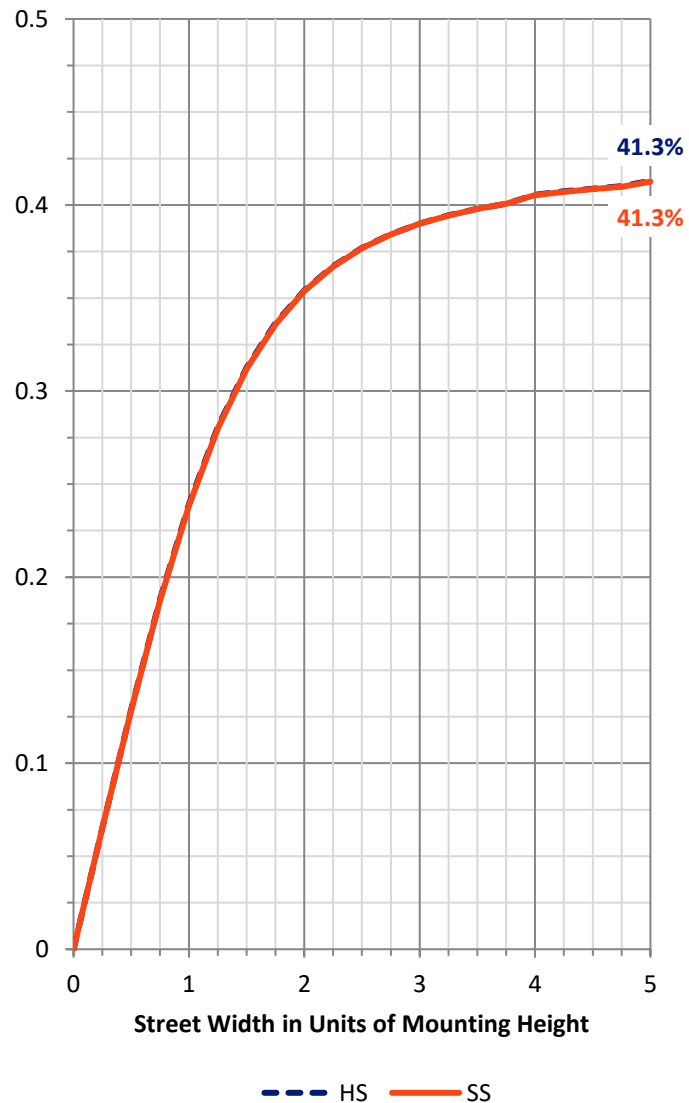
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.3	412.7	2472.0
	% Fixture	41.7	8.3	50.0
Street Side	Lumens	2059.3	412.7	2472.0
	% Fixture	41.7	8.3	50.0
Total	Lumens	4118.7	825.3	4944.0
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	0.5
10°-20°	79.2	1.6
20°-30°	177.5	3.6
30°-40°	367.3	7.4
40°-50°	697.1	14.1
50°-60°	1020.1	20.6
60°-70°	1017.0	20.6
70°-80°	605.3	12.2
80°-90°	132.4	2.7
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.4
120°-130°	148.9	3.0
130°-140°	153.3	3.1
140°-150°	136.3	2.8
150°-160°	103.9	2.1
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4118.7	83.3
0°-180°	4944.0	100.0

Coefficient of Utilization



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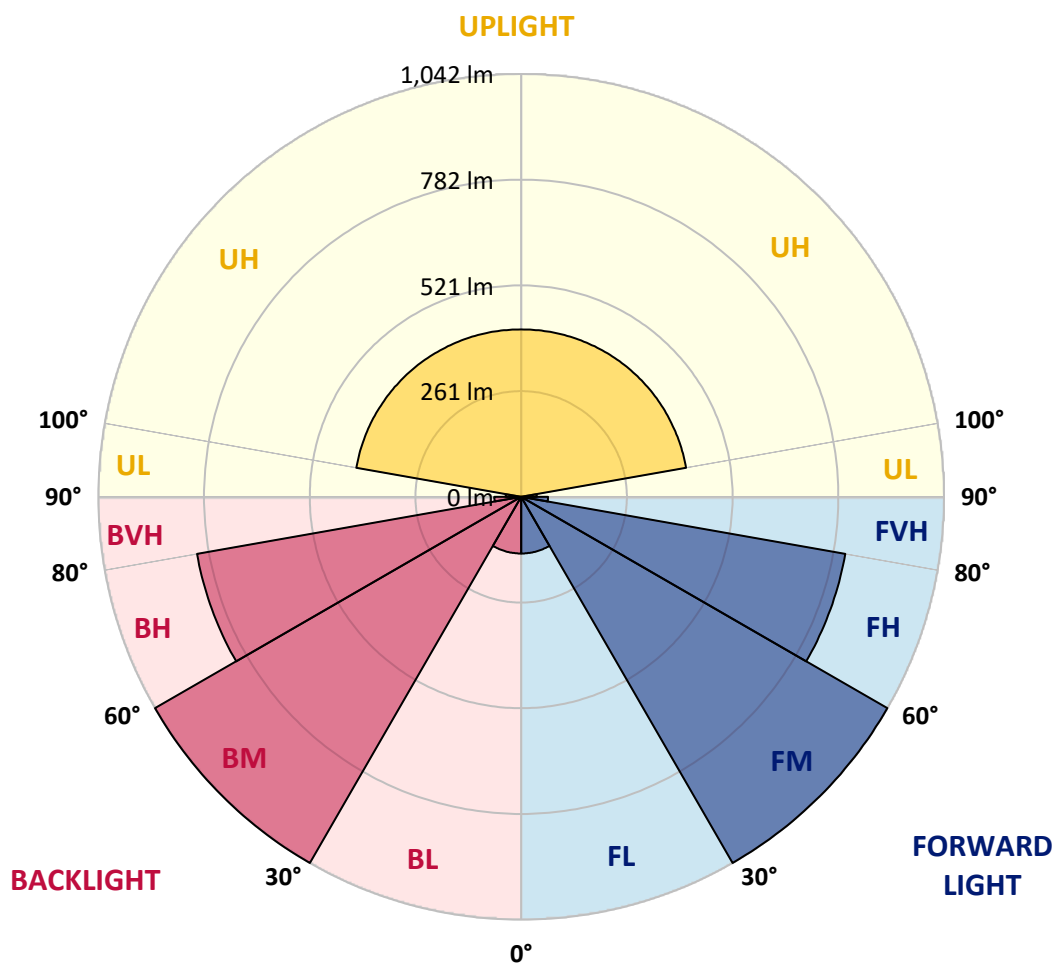
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.7	2.8			
FM	(30°-60°)	1042.3	21.1			
FH	(60°-80°)	811.2	16.4			G1/1800
FVH	(80°-90°)	66.2	1.3			G1/100
BL	(0°-30°)	139.7	2.8	B1/500		
BM	(30°-60°)	1042.3	21.1	B2/2500		
BH	(60°-80°)	811.2	16.4	B2/1000		G2/1000
BVH	(80°-90°)	66.2	1.3			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.3		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°	89°
0°	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5
2.5°	230.2	230.2	230.2	230.2	229.4	229.4	229.4	229.4	229.4	229.4	229.4
5°	233.7	233.7	232.8	233.7	232.8	232.8	232.8	232.8	232.8	232.8	232.8
7.5°	238.8	238.8	238.8	238.8	238.8	238.8	237.9	238.8	237.9	237.9	237.9
10°	248.2	247.4	248.2	247.4	247.4	246.5	246.5	246.5	246.5	246.5	246.5
12.5°	260.2	260.2	260.2	259.3	258.5	258.5	257.6	257.6	257.6	256.8	257.6
15°	276.5	277.3	274.7	273.9	273.9	272.2	271.3	272.2	271.3	270.5	271.3
17.5°	296.1	297.0	295.3	293.6	291.9	291.0	290.1	289.3	289.3	289.3	288.4
20°	321.8	321.8	320.1	316.7	314.1	312.4	312.4	311.5	311.5	312.4	309.8
22.5°	350.9	350.1	348.3	346.6	343.2	339.8	338.1	337.2	337.2	338.9	339.8
25°	386.9	387.7	382.6	379.2	375.7	369.7	368.9	369.7	370.6	370.6	372.3
27.5°	423.7	425.4	421.1	416.0	410.8	408.3	406.5	408.3	410.0	412.5	411.7
30°	467.3	466.5	465.6	457.9	451.9	449.3	451.1	456.2	460.5	466.5	467.3
32.5°	514.4	516.1	510.1	504.1	501.5	499.0	501.5	512.7	524.7	528.1	532.4
35°	570.0	566.6	563.2	558.9	554.6	554.6	567.5	580.3	599.1	612.0	612.0
37.5°	626.5	623.9	617.9	612.0	612.0	620.5	633.4	665.0	692.4	711.2	703.5
40°	684.7	681.3	679.6	672.7	673.6	694.1	721.5	760.9	800.3	826.8	821.6
42.5°	743.8	744.6	738.6	736.1	743.8	766.9	814.8	867.9	917.5	950.9	951.7
45°	804.5	804.5	800.3	798.5	813.1	848.2	908.1	980.8	1047.6	1086.1	1090.4
47.5°	860.2	859.3	855.9	855.0	879.9	921.8	997.1	1090.4	1172.6	1215.4	1226.5
50°	908.1	909.0	903.8	908.1	930.3	986.0	1076.7	1189.7	1283.8	1337.7	1342.9
52.5°	945.8	946.6	940.6	944.0	974.0	1038.2	1139.2	1265.9	1368.6	1425.9	1432.8
55°	971.4	968.0	963.7	968.9	1003.1	1074.1	1184.5	1316.4	1423.3	1483.2	1488.4
57.5°	978.3	975.7	971.4	978.3	1015.1	1087.8	1201.7	1334.3	1440.5	1500.4	1507.2
60°	968.0	968.0	962.9	970.6	1007.4	1078.4	1189.7	1318.1	1419.1	1473.8	1483.2
62.5°	941.5	941.5	935.5	941.5	976.6	1042.5	1148.6	1267.6	1359.1	1407.1	1418.2
65°	891.8	891.0	887.6	889.3	918.4	980.8	1077.6	1185.4	1265.0	1307.8	1322.3
67.5°	819.9	817.4	813.9	817.4	838.8	894.4	983.4	1077.6	1143.5	1184.5	1188.0
70°	728.4	725.8	721.5	719.8	742.1	786.6	858.5	941.5	996.3	1026.2	1029.6
72.5°	619.7	623.1	619.7	614.5	629.1	668.4	728.4	791.7	837.1	864.4	868.7
75°	512.7	513.5	505.0	503.3	514.4	539.2	588.0	636.8	676.1	699.3	706.1
77.5°	397.1	397.1	389.4	385.1	391.1	412.5	445.9	485.3	517.8	532.4	544.3
80°	285.9	285.9	279.0	268.7	274.7	285.9	315.8	337.2	362.9	379.2	380.9
82.5°	178.9	176.3	178.0	170.3	172.0	175.5	194.3	208.8	224.2	232.8	233.7
85°	93.3	89.9	88.2	83.9	81.3	87.3	95.9	106.1	109.6	117.3	114.7
87.5°	29.1	27.4	26.5	26.5	24.0	25.7	26.5	28.2	32.5	32.5	34.2
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	38.2
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°	228.5
2.5°	229.4
5°	232.8
7.5°	237.9
10°	246.5
12.5°	256.8
15°	271.3
17.5°	289.3
20°	309.8
22.5°	337.2
25°	370.6
27.5°	410.0
30°	466.5
32.5°	529.8
35°	606.8
37.5°	712.1
40°	820.8
42.5°	957.7
45°	1090.4
47.5°	1226.5
50°	1340.3
52.5°	1430.2
55°	1491.0
57.5°	1507.2
60°	1480.7
62.5°	1415.6
65°	1320.6
67.5°	1188.0
70°	1034.8
72.5°	866.2
75°	698.4
77.5°	540.9
80°	380.9
82.5°	240.5
85°	114.7
87.5°	36.8
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)