

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: P198277

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198277
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-WQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3930.8 lumens
Efficiency: N/A
Efficacy: 86.6 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

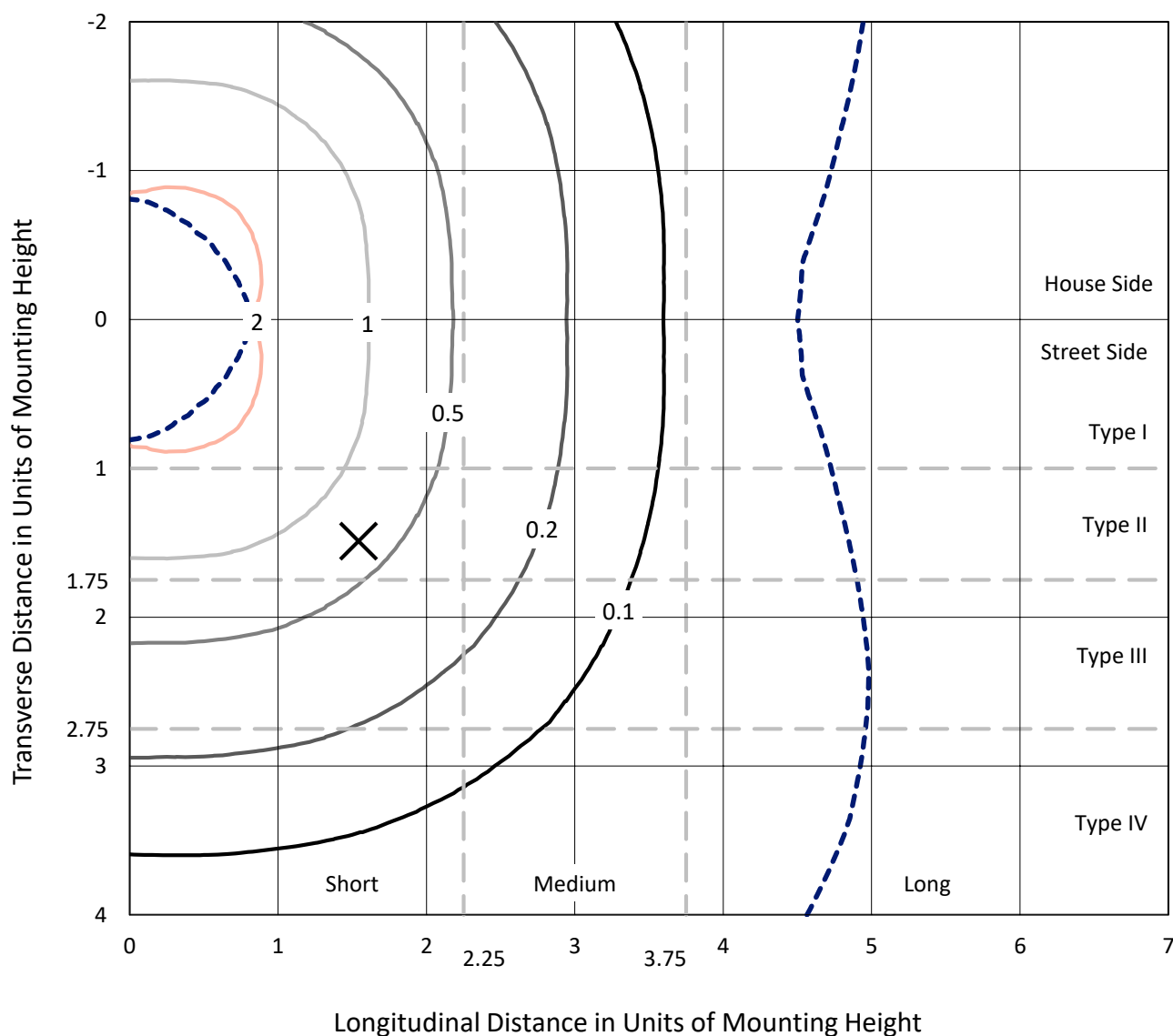


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

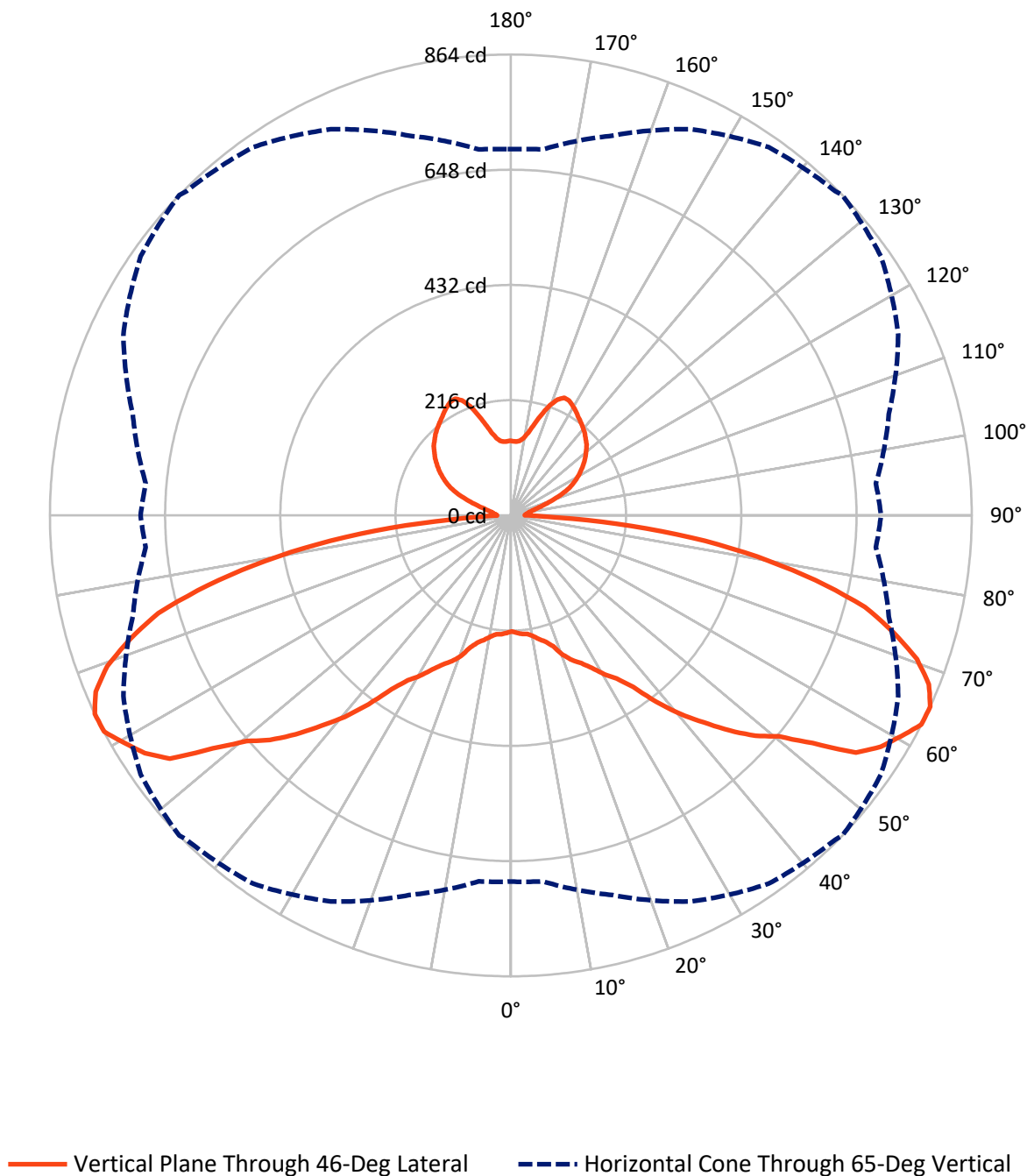


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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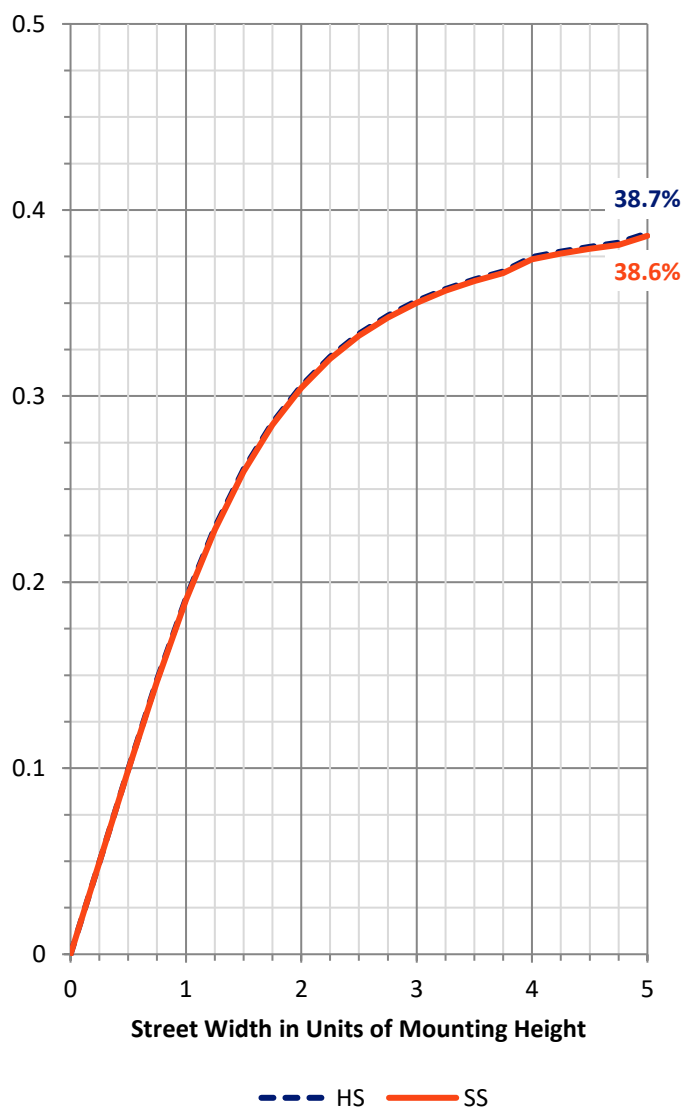
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.8	412.6	1965.4
	% Fixture	39.5	10.5	50.0
Street Side	Lumens	1552.8	412.6	1965.4
	% Fixture	39.5	10.5	50.0
Total	Lumens	3105.5	825.3	3930.8
	% Fixture	79.0	21.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.5
10°-20°	71.6	1.8
20°-30°	144.1	3.7
30°-40°	250.9	6.4
40°-50°	424.3	10.8
50°-60°	632.4	16.1
60°-70°	756.9	19.3
70°-80°	612.8	15.6
80°-90°	191.1	4.9
90°-100°	38.4	1.0
100°-110°	59.5	1.5
110°-120°	119.6	3.0
120°-130°	148.9	3.8
130°-140°	153.3	3.9
140°-150°	136.3	3.5
150°-160°	103.9	2.6
160°-170°	51.8	1.3
170°-180°	13.6	0.3
0°-90°	3105.5	79.0
0°-180°	3930.8	100.0

Coefficient of Utilization



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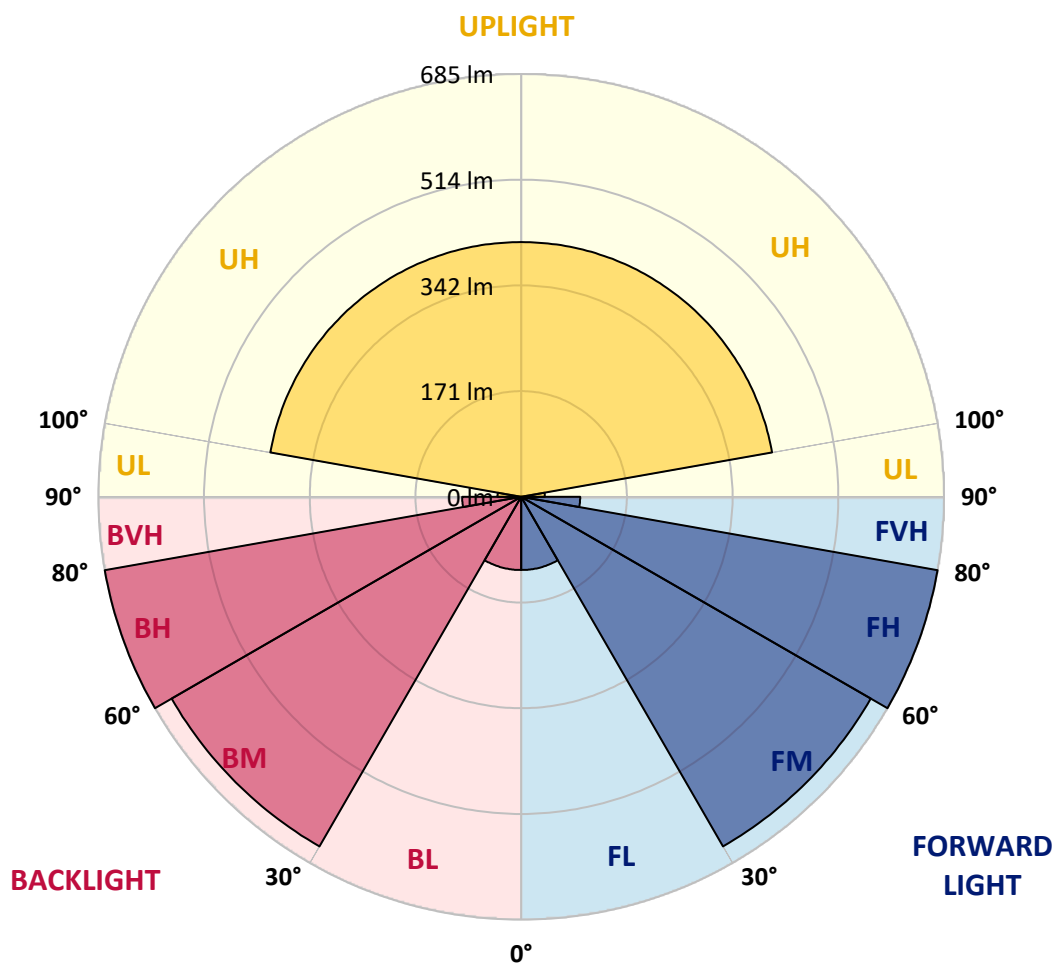
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.6	3.0			
FM	(30°-60°)	653.8	16.6			
FH	(60°-80°)	684.8	17.4			G1/1800
FVH	(80°-90°)	95.5	2.4			G1/100
BL	(0°-30°)	118.6	3.0	B1/500		
BM	(30°-60°)	653.8	16.6	B1/1000		
BH	(60°-80°)	684.8	17.4	B2/1000		G1/1800
BVH	(80°-90°)	95.5	2.4			G1/100
UL	(90°-100°)	38.4	1.0		U2/50	
UH	(100°-180°)	412.6	10.5		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	221.0	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	221.0
5°	224.7	224.7	224.2	223.7	223.7	223.1	223.1	223.1	223.7	224.2	224.2
7.5°	226.3	225.8	225.8	225.3	224.7	224.7	224.2	224.7	225.3	225.8	225.8
10°	229.6	230.1	230.6	231.2	231.7	231.2	230.1	231.2	231.2	230.6	229.6
12.5°	237.1	237.1	238.7	240.3	240.3	239.7	238.1	240.3	239.7	238.1	237.1
15°	247.3	247.8	247.8	249.4	248.3	247.3	245.6	248.3	248.3	247.3	246.7
17.5°	261.7	260.7	259.1	260.1	261.2	261.2	258.0	261.2	259.1	258.0	259.6
20°	277.8	277.3	276.8	277.8	282.1	280.5	278.9	281.0	278.4	274.6	275.7
22.5°	290.2	291.2	292.8	294.5	298.7	297.7	294.5	298.2	293.9	292.8	289.6
25°	305.7	305.2	309.5	309.5	312.2	310.5	306.8	312.2	307.9	309.5	304.6
27.5°	321.3	320.7	324.0	324.0	328.8	328.2	323.4	328.8	324.0	322.9	321.3
30°	339.0	337.9	338.4	342.7	349.7	349.7	345.4	348.1	342.7	337.4	336.8
32.5°	357.7	355.6	358.8	365.8	369.5	368.5	364.2	368.5	366.9	357.7	355.6
35°	376.0	378.7	384.6	390.5	397.4	398.5	394.8	396.9	391.0	384.0	378.7
37.5°	406.6	410.8	418.4	432.3	443.0	446.2	443.0	442.0	433.4	417.8	410.3
40°	449.5	450.5	460.7	481.6	492.9	495.1	489.2	490.8	480.6	463.4	447.3
42.5°	484.3	482.7	501.0	519.7	531.5	536.4	529.9	532.1	518.1	501.5	483.8
45°	512.8	514.4	533.1	551.9	570.7	579.8	575.0	571.2	550.8	532.1	516.5
47.5°	539.0	546.5	559.4	586.8	610.4	620.6	616.8	611.4	590.0	558.9	547.1
50°	572.3	577.1	592.7	628.1	650.1	653.8	650.6	650.6	630.2	594.3	578.2
52.5°	608.2	608.8	631.8	668.3	696.2	711.2	708.5	701.0	668.8	637.2	610.9
55°	651.1	645.2	681.2	719.2	761.1	785.8	784.7	768.6	724.6	682.8	647.9
57.5°	675.3	676.3	709.1	766.4	806.7	813.6	817.4	807.7	774.5	710.1	682.8
60°	680.6	693.5	723.5	786.8	818.5	838.9	839.9	823.8	789.0	727.8	698.9
62.5°	682.8	698.3	735.3	785.8	839.4	859.2	863.0	846.4	790.0	736.9	694.6
65°	686.0	688.1	736.4	798.1	842.1	859.2	863.5	846.4	800.8	733.2	686.5
67.5°	672.6	667.2	709.6	776.6	819.5	839.9	844.8	824.4	778.2	710.7	674.2
70°	624.3	626.5	673.7	737.5	784.7	804.0	807.2	785.2	736.9	678.5	636.1
72.5°	573.4	578.7	618.4	682.8	725.1	743.9	749.8	726.8	686.0	625.9	581.9
75°	502.6	512.8	550.8	608.8	651.1	679.6	685.5	655.4	606.6	554.6	512.2
77.5°	424.3	431.2	467.7	517.6	563.2	577.7	583.0	568.5	520.3	474.1	434.4
80°	333.6	336.3	373.3	413.0	448.4	460.2	468.2	450.0	417.3	375.4	336.8
82.5°	229.0	232.8	259.1	295.5	326.6	331.5	341.7	326.6	296.1	263.9	234.9
85°	119.1	124.4	144.8	164.7	188.8	194.7	197.9	186.7	170.6	144.3	125.0
87.5°	25.7	28.4	31.6	40.8	48.8	55.8	60.6	50.4	40.2	33.8	25.7
90°	36.0	36.0	36.0	34.0	29.0	26.0	26.0	28.0	32.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	27.0	28.0	32.0	35.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	30.0	34.0	37.0	39.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	32.8	33.0	34.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	35.8	36.0	38.0	38.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	42.0	43.0	44.0	42.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	52.0	54.0	53.0	49.0	48.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	68.0	66.0	60.0	59.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	86.8	84.0	84.0	78.0	74.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	106.2	102.0	105.0	100.0	95.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	123.2	121.0	125.0	123.0	116.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	135.8	138.0	141.0	139.0	133.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	147.2	150.0	153.0	148.0	145.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	158.0	159.0	162.0	155.0	153.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.8	167.0	168.0	163.0	160.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	177.4	176.0	175.0	173.0	166.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	185.4	183.0	183.0	184.0	171.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	194.2	190.0	192.0	192.0	179.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	200.2	196.0	201.0	199.0	185.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	207.0	203.0	210.0	204.0	191.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.8	212.0	217.0	209.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	218.0	220.0	223.0	211.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	223.4	230.0	227.0	211.0	201.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	229.8	239.0	229.0	212.0	204.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	235.8	242.0	232.0	214.0	210.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	241.0	242.0	235.0	219.0	215.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	242.2	238.0	234.0	224.0	220.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	234.0	228.0	229.0	226.0	222.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	218.4	215.0	219.0	221.0	218.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	197.6	196.0	200.0	204.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.6	176.0	181.0	185.0	190.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	158.8	160.0	165.0	168.0	172.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	147.0	148.0	152.0	155.0	159.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	140.8	141.0	145.0	146.0	149.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.8	138.0	141.0	141.0	143.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.8	138.0	140.0	140.0	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°	217.2
2.5°	220.4
5°	224.2
7.5°	225.8
10°	229.6
12.5°	236.5
15°	247.3
17.5°	260.7
20°	275.1
22.5°	288.0
25°	303.6
27.5°	321.3
30°	339.5
32.5°	354.5
35°	375.4
37.5°	409.8
40°	451.1
42.5°	484.3
45°	511.7
47.5°	542.3
50°	572.8
52.5°	612.0
55°	650.6
57.5°	670.4
60°	682.8
62.5°	692.4
65°	693.5
67.5°	665.6
70°	623.2
72.5°	575.0
75°	504.2
77.5°	429.6
80°	333.6
82.5°	234.4
85°	122.8
87.5°	24.1
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)