

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: P198279

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198279
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C1-LED-E1-WQ-CG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3538.3 lumens
Efficiency: N/A
Efficacy: 77.9 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

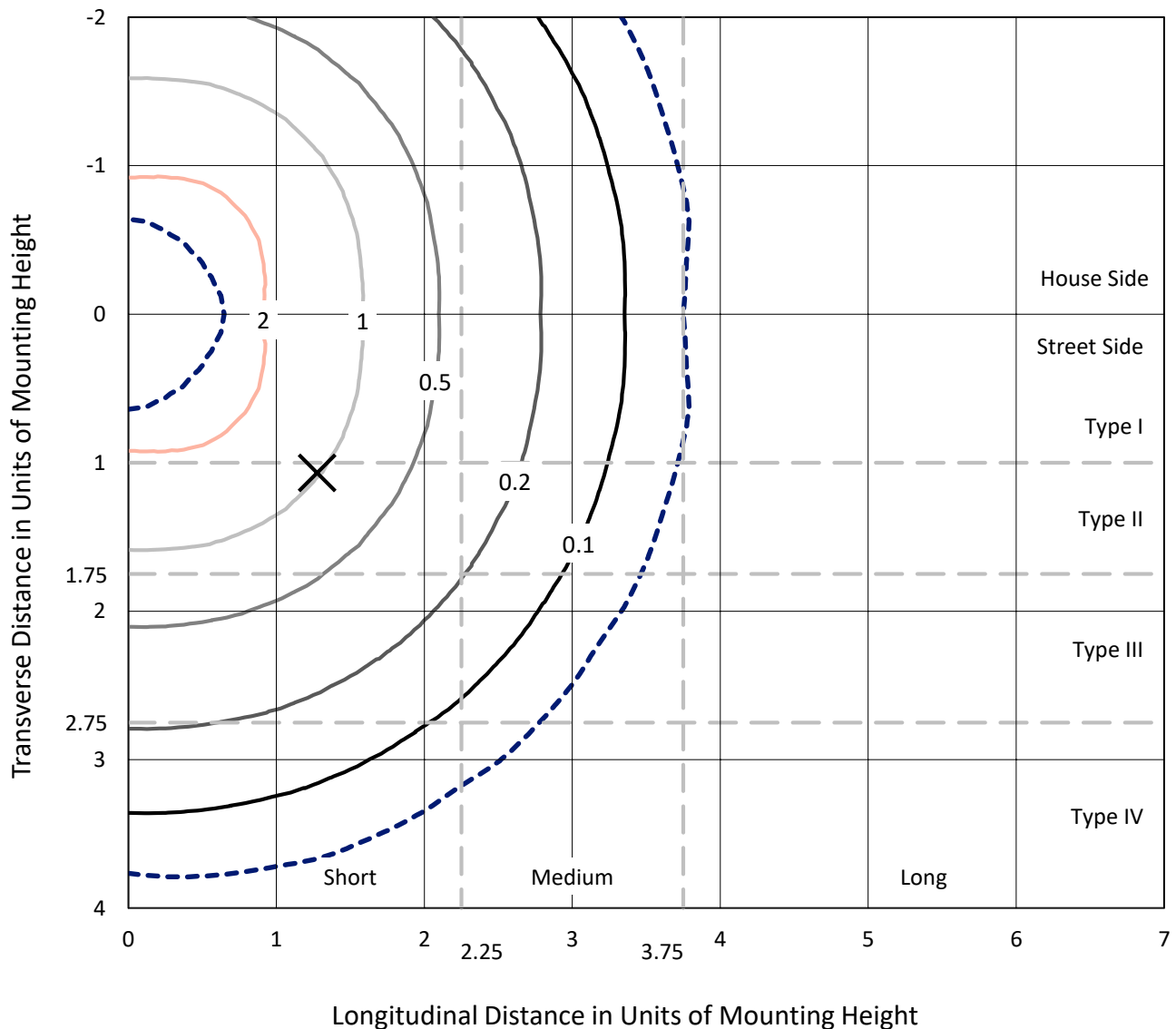


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

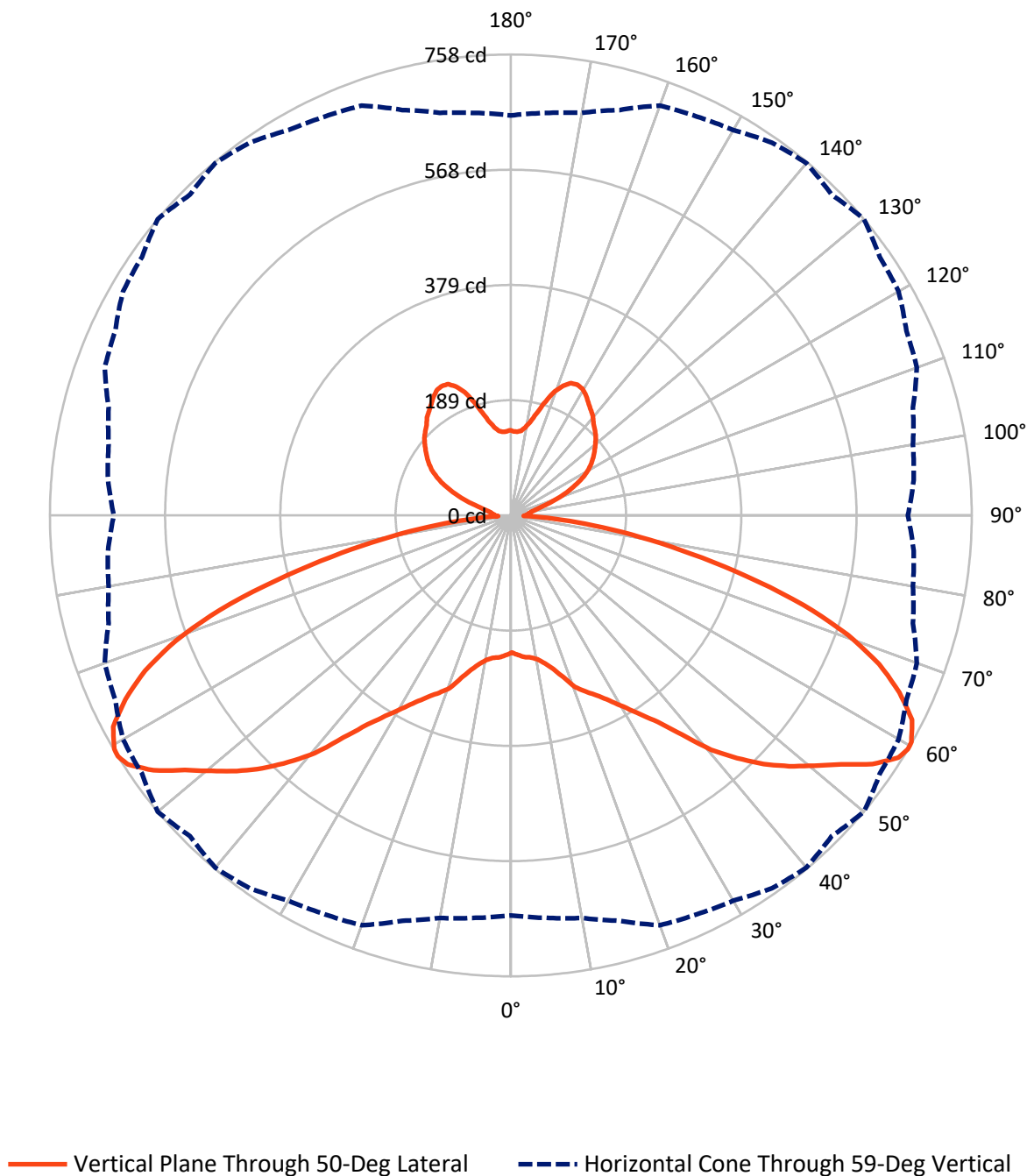


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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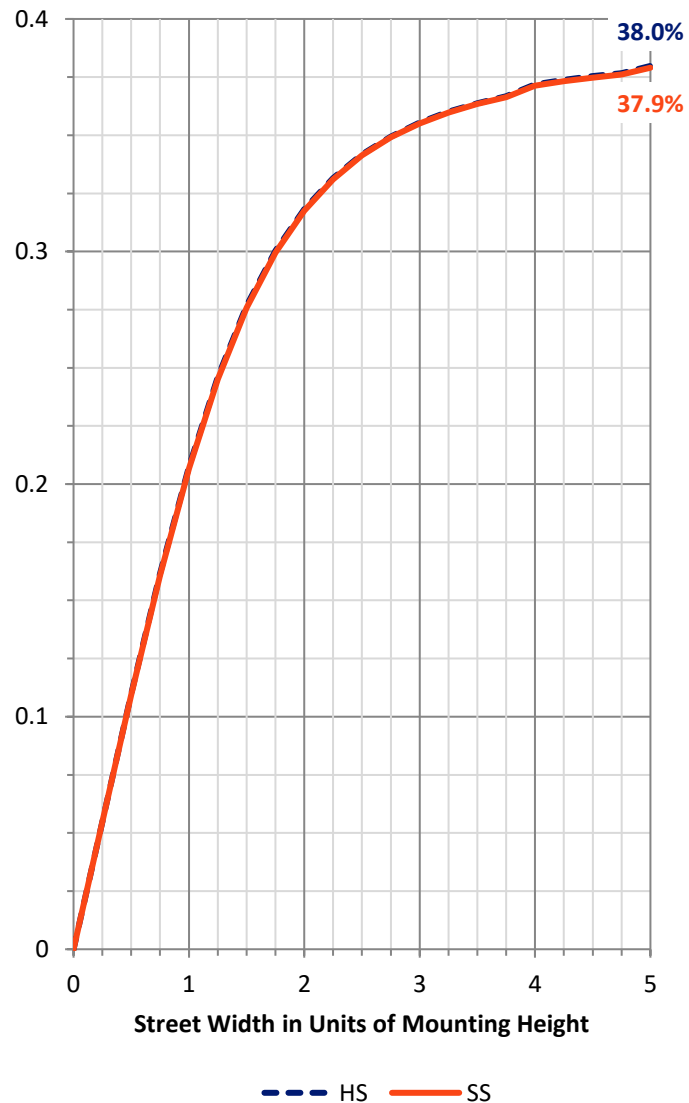
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.2	412.0	1769.1
	% Fixture	38.4	11.6	50.0
Street Side	Lumens	1357.2	412.0	1769.1
	% Fixture	38.4	11.6	50.0
Total	Lumens	2714.3	824.0	3538.3
	% Fixture	76.7	23.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.6
10°-20°	75.7	2.1
20°-30°	152.3	4.3
30°-40°	262.1	7.4
40°-50°	432.7	12.2
50°-60°	609.3	17.2
60°-70°	651.8	18.4
70°-80°	414.0	11.7
80°-90°	93.9	2.7
90°-100°	38.3	1.1
100°-110°	59.4	1.7
110°-120°	119.3	3.4
120°-130°	148.7	4.2
130°-140°	153.2	4.3
140°-150°	136.0	3.8
150°-160°	103.7	2.9
160°-170°	51.8	1.5
170°-180°	13.6	0.4
0°-90°	2714.3	76.7
0°-180°	3538.3	100.0

Coefficient of Utilization



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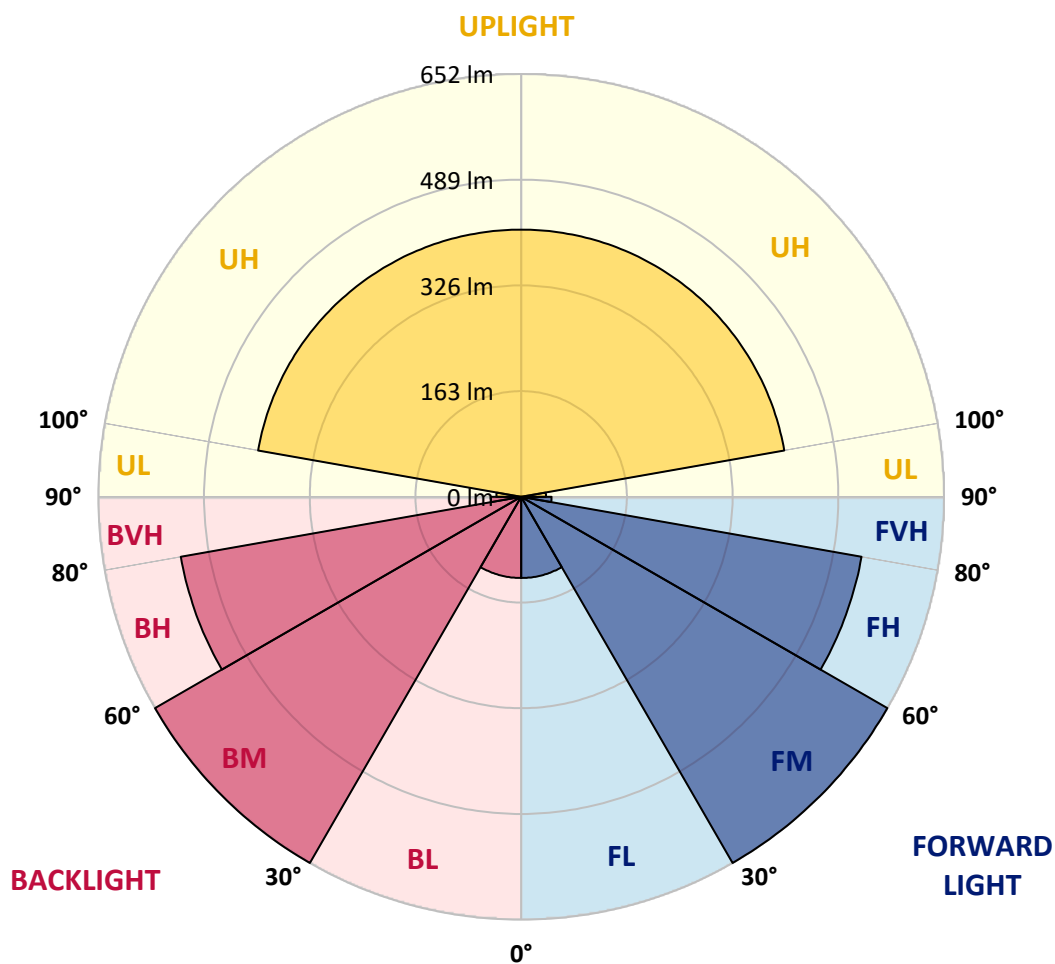
CATALOG NUMBER: TT-C1-LED-E1-WQ-CG-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.2	3.5			
FM	(30°-60°)	652.1	18.4			
FH	(60°-80°)	532.9	15.1			G0/660
FVH	(80°-90°)	46.9	1.3			G1/100
BL	(0°-30°)	125.2	3.5	B1/500		
BM	(30°-60°)	652.1	18.4	B1/1000		
BH	(60°-80°)	532.9	15.1	B2/1000		G0/660
BVH	(80°-90°)	46.9	1.3			G1/100
UL	(90°-100°)	38.3	1.1		U2/50	
UH	(100°-180°)	412.0	11.6		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
2.5°	230.3	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
5°	231.5	231.5	232.1	232.1	232.7	232.7	232.7	233.3	233.3	233.3	233.9
7.5°	233.9	233.3	233.9	233.9	233.9	234.5	234.5	234.5	235.1	235.7	235.7
10°	241.7	241.1	241.7	241.7	241.7	240.5	240.5	241.1	240.5	240.5	240.5
12.5°	250.7	250.7	251.3	251.9	251.9	251.3	250.7	250.1	249.5	249.5	249.5
15°	259.1	259.7	260.3	261.5	262.1	262.1	262.7	263.3	262.7	262.7	262.1
17.5°	272.3	273.5	274.1	274.7	274.7	274.7	275.9	277.7	279.5	280.7	279.5
20°	294.5	295.1	296.3	296.3	295.7	296.3	297.5	298.1	299.3	300.5	301.1
22.5°	309.5	310.7	312.5	312.5	311.9	312.5	313.7	313.7	312.5	313.1	314.3
25°	322.1	322.7	323.9	324.5	325.1	328.1	330.5	329.9	327.5	328.1	327.5
27.5°	337.1	338.3	339.5	339.5	339.5	341.3	343.7	344.9	346.7	346.1	344.3
30°	356.9	358.7	359.3	358.7	359.9	361.7	361.1	362.3	365.3	368.3	364.7
32.5°	372.5	374.3	376.1	378.5	382.7	385.1	383.9	384.5	386.3	388.7	388.7
35°	395.9	398.9	400.1	400.7	404.9	409.7	413.3	416.3	415.7	413.9	416.9
37.5°	431.3	434.3	435.5	437.9	443.3	444.5	449.9	457.1	459.5	457.1	457.1
40°	469.1	472.1	478.1	483.5	491.9	493.7	500.3	503.3	509.3	509.9	506.3
42.5°	500.3	503.9	505.1	514.1	525.5	533.9	541.1	541.7	545.9	549.5	545.3
45°	533.9	536.9	538.7	547.1	553.0	563.2	574.6	579.4	581.2	580.6	583.0
47.5°	565.0	569.2	571.0	577.6	584.8	593.2	599.8	613.6	616.6	610.6	616.0
50°	584.2	589.0	593.2	607.6	620.2	626.8	632.2	643.6	650.2	644.8	646.6
52.5°	614.2	615.4	619.0	625.0	643.6	665.8	671.8	675.4	685.0	688.0	679.6
55°	655.0	659.2	662.2	670.0	677.8	693.4	719.8	724.6	722.2	736.6	721.6
57.5°	661.0	668.8	677.8	695.2	710.8	715.6	731.2	749.8	748.0	749.8	751.0
59°	657.4	664.0	671.8	689.8	716.8	723.4	731.2	748.0	755.8	745.6	757.6
60°	658.6	663.4	667.6	682.0	710.8	725.8	730.6	740.8	755.8	742.0	756.4
62.5°	653.8	659.8	664.6	673.0	686.8	707.8	726.4	721.6	743.2	732.4	740.2
65°	628.0	634.6	644.2	656.2	672.4	678.4	697.0	707.2	702.4	714.4	701.8
67.5°	584.8	590.8	596.8	611.2	629.2	637.0	641.8	660.4	653.8	667.6	653.2
70°	527.3	533.9	542.3	550.1	566.2	572.8	578.2	586.6	589.0	589.0	587.8
72.5°	458.3	463.7	469.1	476.9	486.5	492.5	494.9	496.7	506.3	502.7	503.3
75°	380.3	385.7	388.1	391.1	397.7	397.1	399.5	398.3	404.3	401.9	400.7
77.5°	297.5	299.3	305.9	305.9	304.1	307.1	304.1	302.3	301.1	302.3	302.3
80°	206.3	211.7	215.9	218.9	220.1	218.9	219.5	217.1	217.1	215.3	215.9
82.5°	127.2	132.6	134.4	137.4	138.0	138.0	138.0	136.2	136.8	135.0	136.2
85°	62.4	62.4	64.8	67.8	68.4	69.6	69.6	69.6	69.6	69.6	70.2
87.5°	15.6	15.6	16.8	18.6	18.6	19.2	19.8	20.4	20.4	21.0	21.0
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
2.5°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
5°	233.9	233.3	233.3	232.7	232.7	232.1	232.1	232.1
7.5°	236.3	236.3	235.7	235.1	234.5	234.5	235.1	235.1
10°	241.1	242.3	242.9	242.9	242.3	242.3	241.7	241.7
12.5°	248.9	250.1	251.3	252.5	252.5	251.9	250.7	250.1
15°	260.9	260.9	261.5	262.1	262.1	260.9	258.5	258.5
17.5°	277.1	275.9	274.1	274.7	275.3	274.7	272.3	273.5
20°	299.3	296.9	295.7	294.5	296.9	296.9	293.3	293.3
22.5°	315.5	313.7	310.7	310.1	311.9	313.1	310.1	308.3
25°	329.3	329.9	326.3	324.5	325.1	325.7	321.5	322.1
27.5°	344.3	344.9	343.1	340.1	338.9	340.7	337.7	336.5
30°	362.3	361.7	362.9	359.3	356.3	358.1	358.1	355.1
32.5°	385.7	383.9	384.5	380.3	376.7	376.1	373.7	370.1
35°	417.5	412.7	409.1	406.7	400.1	398.9	398.9	394.7
37.5°	458.9	451.7	445.1	445.1	434.9	431.9	433.7	428.3
40°	505.1	502.7	492.5	490.7	479.9	472.7	472.7	466.1
42.5°	538.7	541.7	529.7	522.5	515.3	503.9	505.1	496.7
45°	575.2	573.4	563.2	550.7	548.3	536.3	537.5	529.1
47.5°	610.0	599.2	594.4	581.8	576.4	562.6	566.8	560.2
50°	643.6	631.6	626.8	611.8	604.6	589.6	590.2	578.2
52.5°	678.4	667.6	660.4	641.2	628.6	617.8	615.4	610.0
55°	723.4	712.0	694.6	676.6	667.0	651.4	653.2	644.8
57.5°	740.8	733.6	715.0	704.2	686.2	670.6	667.0	652.0
59°	740.2	736.0	717.4	710.2	684.4	671.2	664.6	652.6
60°	736.0	734.8	716.2	707.2	680.2	668.2	662.2	654.4
62.5°	723.4	722.8	701.8	691.0	668.8	659.2	655.6	645.4
65°	704.8	694.6	678.4	671.2	648.4	641.2	631.0	620.8
67.5°	660.4	637.6	635.2	626.2	606.4	597.4	590.8	581.2
70°	587.2	572.2	572.2	560.8	547.1	542.9	533.9	523.1
72.5°	496.1	492.5	494.3	481.1	474.5	472.1	464.3	454.7
75°	396.5	397.1	395.3	392.3	390.5	391.1	382.7	378.5
77.5°	300.5	305.9	304.7	300.5	304.7	304.1	296.9	295.1
80°	214.1	216.5	217.7	215.3	217.7	215.9	209.9	209.3
82.5°	135.0	135.6	136.8	134.4	135.0	134.4	130.2	130.2
85°	69.0	71.4	68.4	66.0	66.0	63.6	62.4	63.0
87.5°	20.4	21.6	19.2	19.2	18.0	16.8	16.2	16.2
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)