

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: P198381

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198381
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-CG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

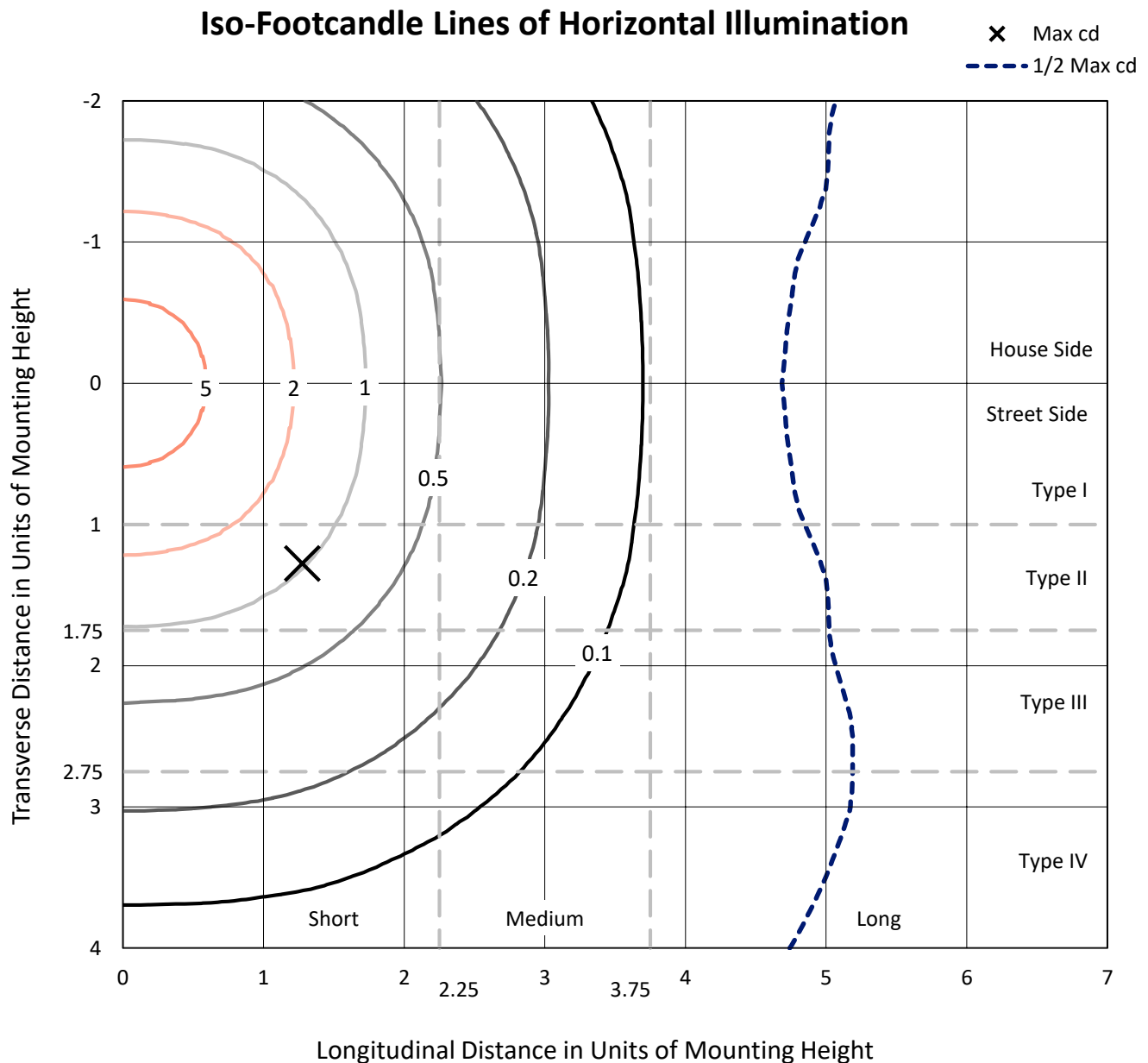
Lumens per Lamp: N/A
Luminaire Lumens: 5074.3 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

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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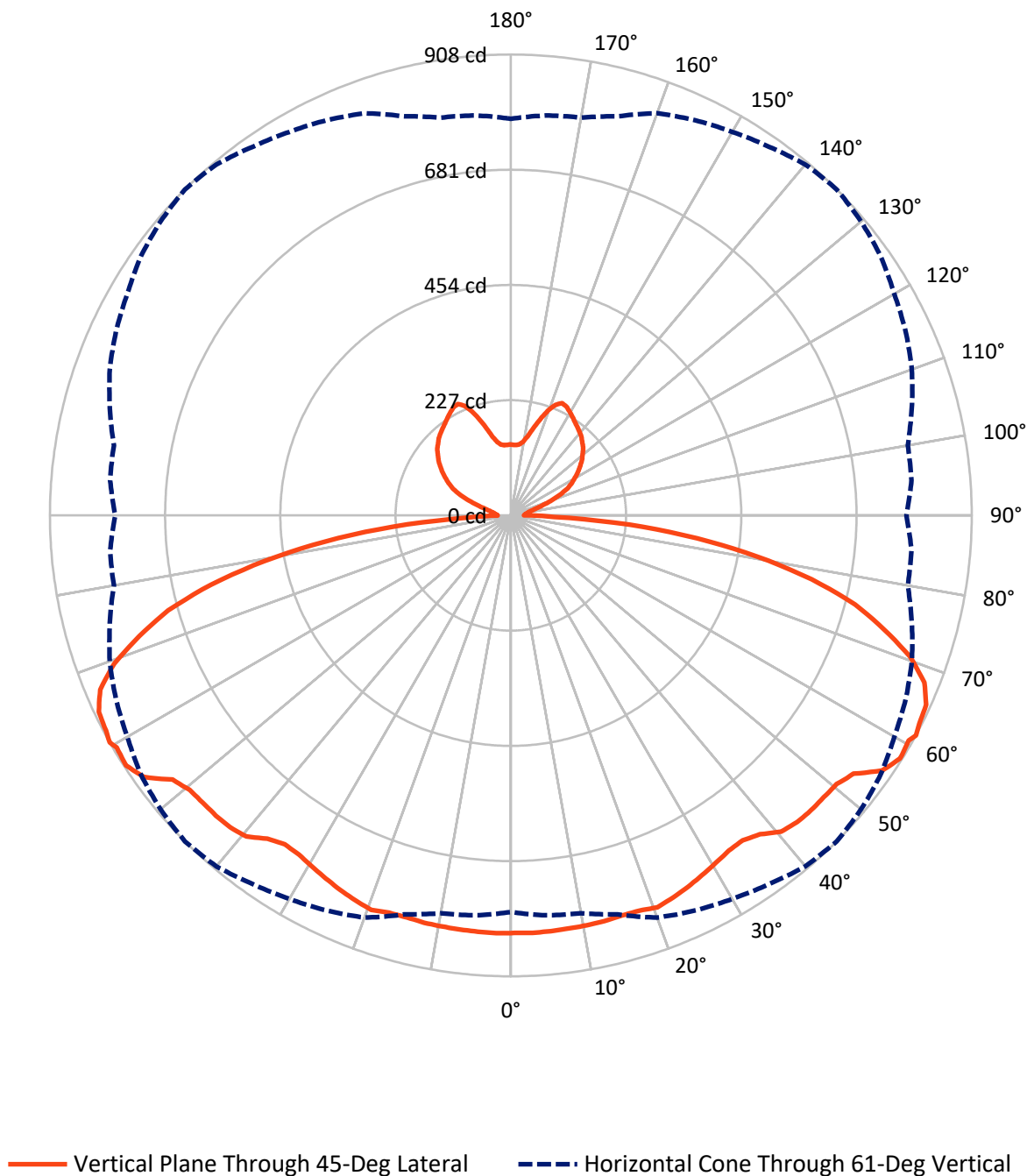


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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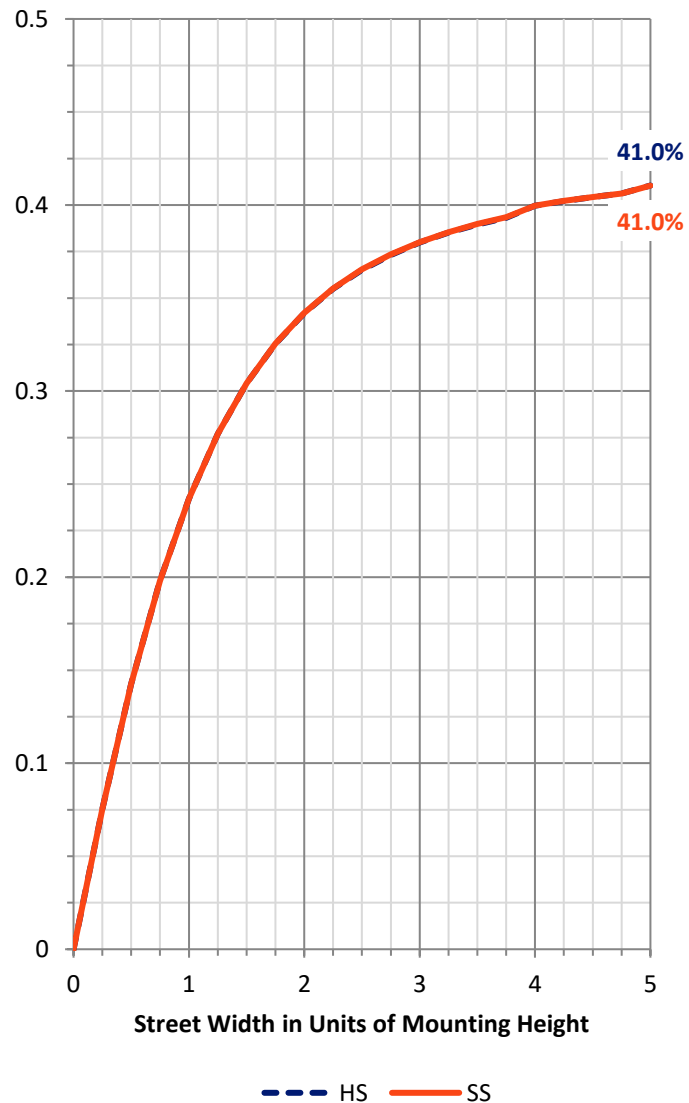
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2125.2	412.0	2537.2
	% Fixture	41.9	8.1	50.0
Street Side	Lumens	2125.2	412.0	2537.2
	% Fixture	41.9	8.1	50.0
Total	Lumens	4250.3	824.0	5074.3
	% Fixture	83.8	16.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.5
10°-20°	232.0	4.6
20°-30°	373.3	7.4
30°-40°	494.5	9.7
40°-50°	624.5	12.3
50°-60°	748.3	14.7
60°-70°	818.2	16.1
70°-80°	655.0	12.9
80°-90°	226.0	4.5
90°-100°	38.3	0.8
100°-110°	59.4	1.2
110°-120°	119.3	2.4
120°-130°	148.7	2.9
130°-140°	153.2	3.0
140°-150°	136.0	2.7
150°-160°	103.7	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4250.3	83.8
0°-180°	5074.3	100.0

Coefficient of Utilization



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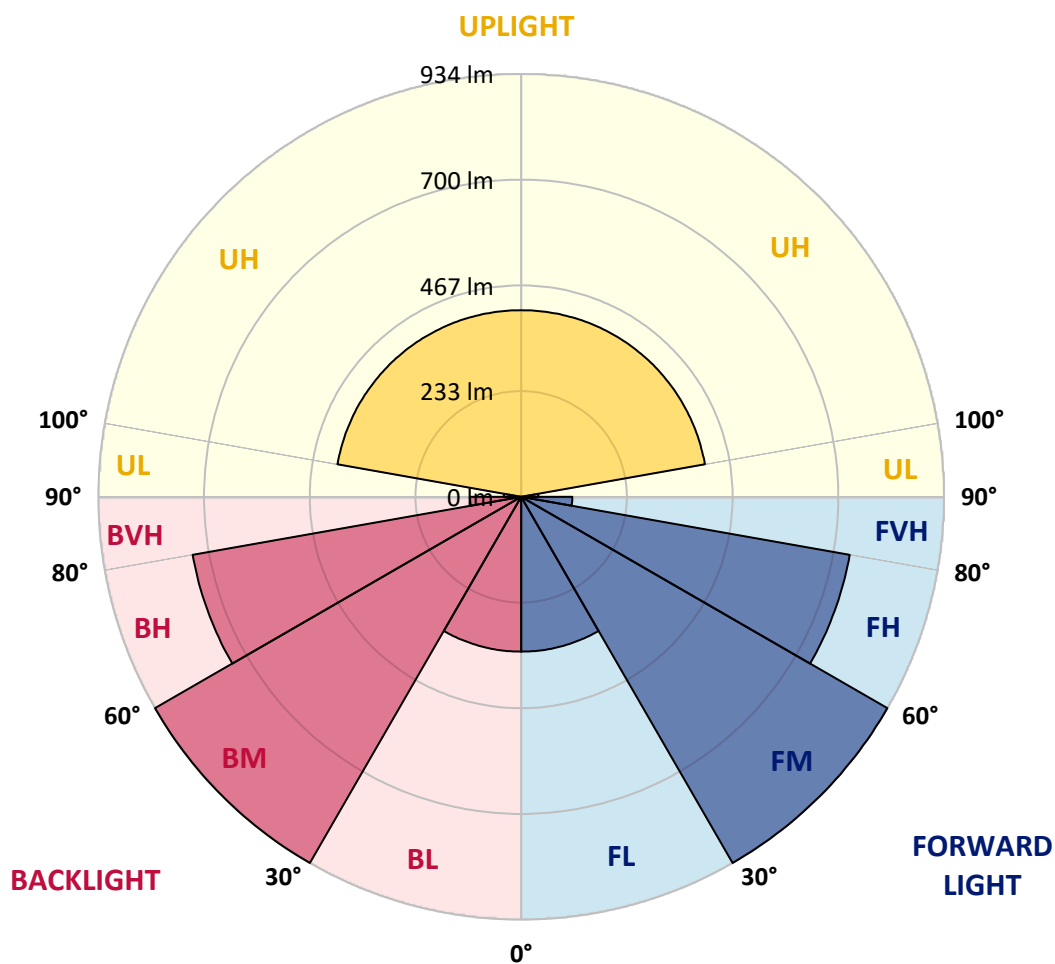
CATALOG NUMBER: TT-C3-LED-E1-MQ-CG-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.9	6.7			
FM	(30°-60°)	933.7	18.4			
FH	(60°-80°)	736.6	14.5			G1/1800
FVH	(80°-90°)	113.0	2.2			G2/225
BL	(0°-30°)	341.9	6.7	B1/500		
BM	(30°-60°)	933.7	18.4	B1/1000		
BH	(60°-80°)	736.6	14.5	B2/1000		G1/1800
BVH	(80°-90°)	113.0	2.2			G2/225
UL	(90°-100°)	38.3	0.8		U2/50	
UH	(100°-180°)	412.0	8.1		U3/500	

BUG Rating: B2-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
2.5°	823.4	822.7	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4
5°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
7.5°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	822.7	821.9	822.7
10°	820.3	820.3	820.3	820.3	821.1	821.1	821.1	821.1	821.1	821.1	821.1
12.5°	818.7	818.7	818.7	818.7	819.5	819.5	819.5	819.5	820.3	820.3	819.5
15°	817.1	816.3	816.3	817.1	817.1	817.9	817.9	817.9	818.7	817.9	817.9
17.5°	815.5	814.7	815.5	816.3	816.3	817.1	817.9	817.9	818.7	818.7	818.7
20°	817.9	817.1	817.9	818.7	819.5	821.1	821.9	822.7	823.4	824.2	824.2
22.5°	813.1	812.3	813.1	813.1	813.9	814.7	816.3	817.1	817.9	817.9	817.9
25°	806.0	806.0	806.8	806.8	807.6	808.4	809.2	810.0	810.0	810.8	810.0
27.5°	798.1	798.1	798.9	798.9	800.5	800.5	801.3	802.0	802.8	802.8	802.8
30°	788.6	788.6	789.4	790.2	791.7	792.5	793.3	794.1	794.9	794.9	794.9
32.5°	780.0	779.2	780.0	781.5	783.9	785.5	787.0	787.8	787.8	787.8	788.6
35°	772.8	773.6	775.2	776.8	780.0	781.5	783.1	785.5	786.2	786.2	786.2
37.5°	774.4	775.2	777.6	780.7	784.7	789.4	792.5	795.7	798.1	797.3	796.5
40°	784.7	786.2	790.2	794.9	801.3	807.6	812.3	816.3	818.7	819.5	818.7
42.5°	786.2	787.8	790.9	798.1	805.2	812.3	818.7	822.7	825.8	826.6	825.8
45°	785.5	785.5	790.2	798.1	805.2	812.3	820.3	825.8	829.0	829.0	829.0
47.5°	780.0	782.3	785.5	793.3	802.8	810.0	817.9	823.4	827.4	829.8	827.4
50°	780.0	780.0	785.5	790.9	799.7	812.3	823.4	829.0	833.0	832.2	833.0
52.5°	778.4	783.1	786.2	794.1	810.0	822.7	831.4	839.2	844.7	845.5	844.0
55°	792.5	793.3	800.5	815.5	830.6	844.7	860.6	872.5	881.9	887.5	879.6
57.5°	803.6	799.7	813.9	826.6	844.0	865.4	889.0	898.5	905.7	904.1	906.5
60°	788.6	794.1	804.4	817.9	845.5	866.9	879.6	889.8	898.5	900.9	897.8
61°	781.5	790.9	795.7	813.9	843.2	859.0	872.5	886.7	902.5	908.1	900.9
62.5°	769.6	784.7	783.1	812.3	830.6	848.7	874.1	890.6	901.7	903.3	901.7
65°	770.4	768.1	786.2	807.6	825.8	858.2	879.6	889.8	896.2	899.3	897.8
67.5°	745.1	737.2	759.3	774.4	805.2	830.6	851.1	866.1	875.7	878.8	874.9
70°	686.6	692.1	707.9	730.9	756.2	787.0	806.0	825.8	833.7	834.4	834.4
72.5°	630.4	633.6	649.4	670.8	700.0	726.9	745.9	761.7	768.9	769.6	771.2
75°	556.0	559.2	577.4	597.1	626.5	649.4	662.8	681.9	692.1	700.8	693.7
77.5°	469.8	475.4	489.6	511.0	537.9	550.5	574.3	596.4	603.5	605.9	603.5
80°	372.5	379.7	392.4	420.8	432.7	453.2	476.2	485.7	492.0	493.6	494.4
82.5°	268.1	273.7	287.1	306.9	320.3	337.0	352.8	364.6	371.7	370.2	369.4
85°	158.2	159.8	174.0	187.5	197.8	208.1	220.6	229.4	231.0	234.1	233.3
87.5°	47.5	48.3	54.6	61.7	66.5	71.2	79.1	89.4	91.7	85.4	86.2
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°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
2.5°	823.4	823.4	823.4	823.4	823.4	823.4	822.7	823.4
5°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
7.5°	822.7	821.9	821.9	821.9	821.9	821.9	821.9	821.9
10°	821.1	821.1	821.1	821.1	820.3	820.3	820.3	820.3
12.5°	819.5	819.5	819.5	819.5	818.7	818.7	818.7	818.7
15°	817.9	817.9	817.9	817.9	817.1	817.1	817.1	817.1
17.5°	818.7	817.9	817.1	817.1	816.3	815.5	815.5	815.5
20°	823.4	822.7	821.1	819.5	818.7	817.9	817.9	817.9
22.5°	817.1	816.3	814.7	813.9	813.9	813.1	812.3	812.3
25°	810.0	808.4	808.4	807.6	807.6	806.0	806.0	805.2
27.5°	802.0	801.3	800.5	799.7	799.7	798.9	798.1	797.3
30°	794.9	793.3	791.7	790.9	790.2	789.4	789.4	789.4
32.5°	787.8	786.2	785.5	783.1	781.5	780.7	780.0	780.0
35°	785.5	783.1	781.5	779.2	776.8	775.2	774.4	772.8
37.5°	794.9	791.7	789.4	785.5	780.0	777.6	775.2	774.4
40°	815.5	812.3	807.6	801.3	794.9	790.2	786.2	784.7
42.5°	822.7	818.7	812.3	806.0	798.1	790.9	787.8	786.2
45°	825.0	821.1	812.3	804.4	797.3	790.9	786.2	784.7
47.5°	822.7	817.1	809.2	802.8	792.5	784.7	781.5	779.2
50°	828.2	823.4	813.1	798.9	790.2	785.5	780.0	779.2
52.5°	839.2	830.6	821.1	810.8	794.1	784.7	781.5	777.6
55°	872.5	860.6	844.0	827.4	817.1	802.0	792.5	792.5
57.5°	897.8	888.2	866.9	844.7	825.8	814.7	800.5	801.3
60°	890.6	878.0	867.7	845.5	818.7	803.6	798.1	787.8
61°	889.8	872.5	858.2	840.8	817.9	794.1	792.5	779.2
62.5°	891.4	875.7	848.7	830.6	813.1	782.3	781.5	768.9
65°	889.8	874.9	861.4	827.4	803.6	790.9	764.1	774.4
67.5°	865.4	851.9	827.4	808.4	772.0	756.2	741.1	741.1
70°	826.6	806.8	783.1	759.3	734.9	707.9	694.4	686.6
72.5°	761.7	745.1	726.2	700.8	670.8	646.2	633.6	628.1
75°	680.3	662.0	645.4	626.5	594.9	574.3	560.8	556.8
77.5°	594.9	579.0	549.7	531.6	510.2	486.5	474.6	469.8
80°	485.7	477.0	456.4	427.1	416.8	387.6	379.7	372.5
82.5°	364.6	355.2	336.2	315.6	303.0	286.3	272.1	270.5
85°	229.4	223.0	211.2	196.2	180.3	170.8	158.2	161.4
87.5°	85.4	81.4	74.3	64.9	57.8	51.4	45.1	47.5
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)