

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: P198317

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198317
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-C2-LED-E1-MQ-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM 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: 4363.7 lumens
Efficiency: N/A
Efficacy: 84.9 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): 51.4
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



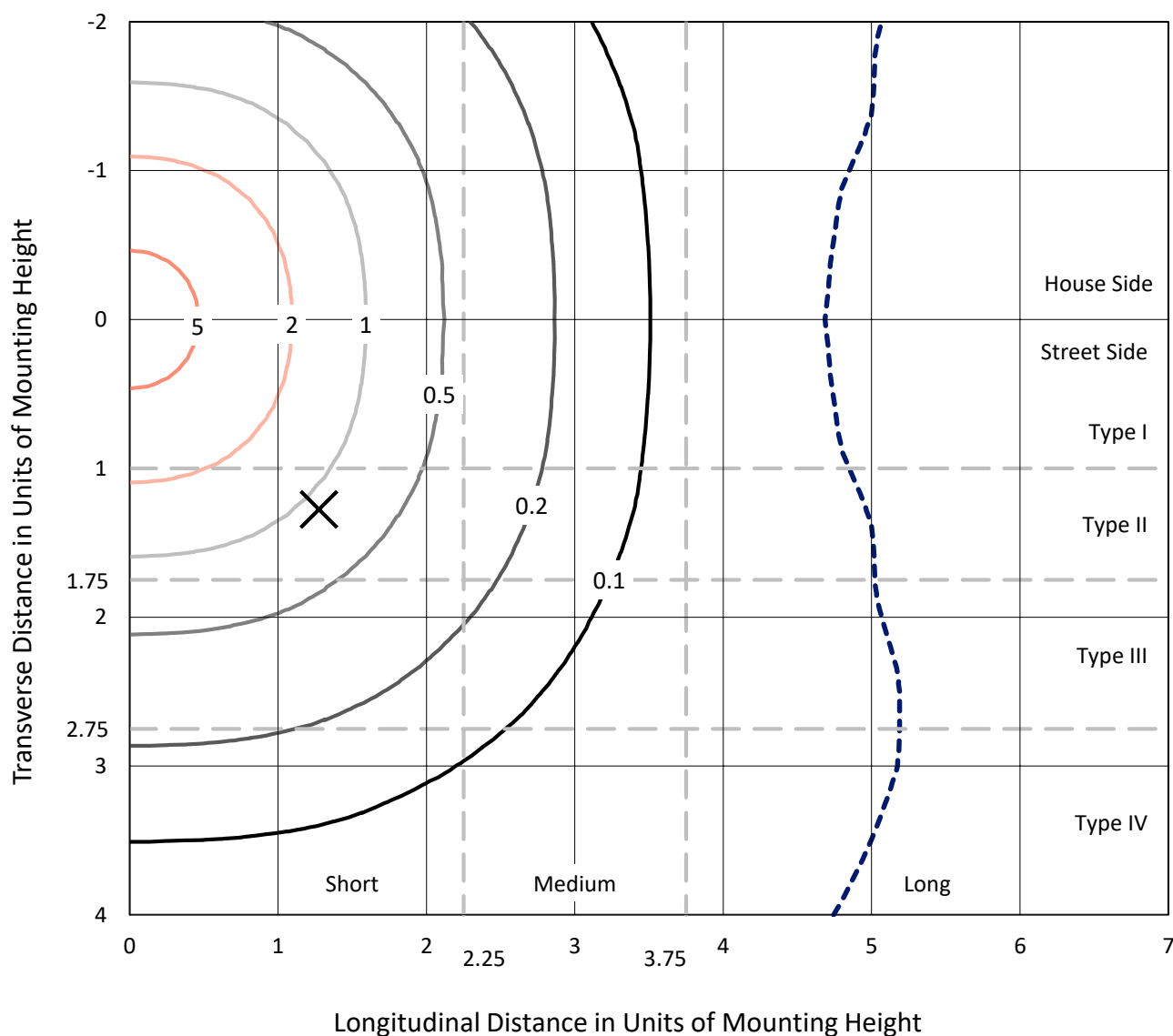
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

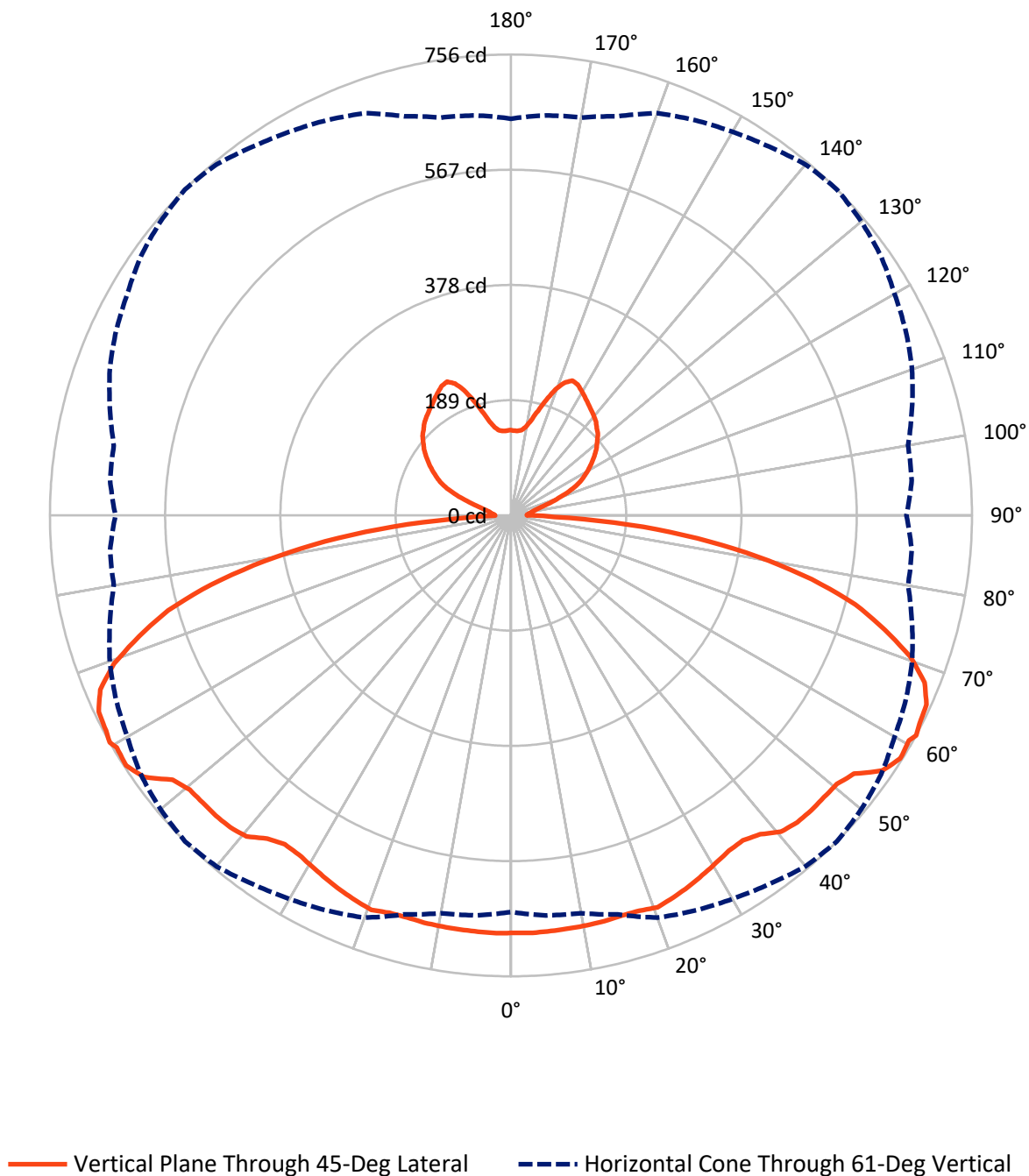


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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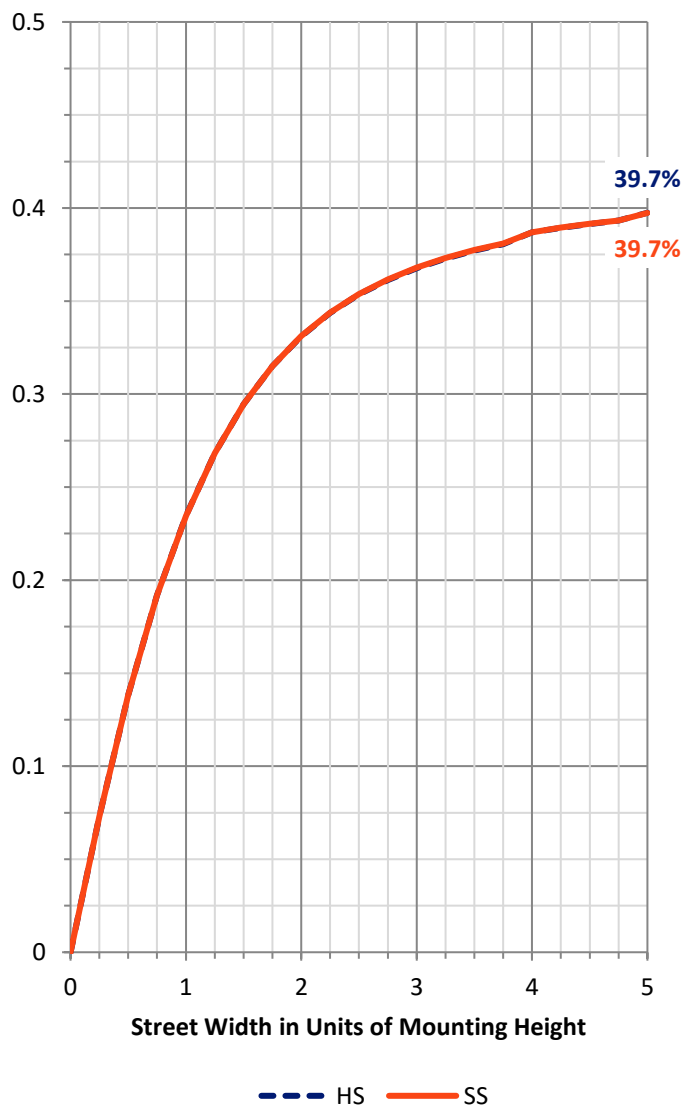
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.9	412.0	2181.9
	% Fixture	40.6	9.4	50.0
Street Side	Lumens	1769.9	412.0	2181.9
	% Fixture	40.6	9.4	50.0
Total	Lumens	3539.8	824.0	4363.7
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.5
10°-20°	193.2	4.4
20°-30°	310.8	7.1
30°-40°	411.8	9.4
40°-50°	520.0	11.9
50°-60°	623.1	14.3
60°-70°	681.3	15.6
70°-80°	545.4	12.5
80°-90°	188.9	4.3
90°-100°	38.3	0.9
100°-110°	59.4	1.4
110°-120°	119.3	2.7
120°-130°	148.7	3.4
130°-140°	153.2	3.5
140°-150°	136.0	3.1
150°-160°	103.7	2.4
160°-170°	51.8	1.2
170°-180°	13.6	0.3
0°-90°	3539.8	81.1
0°-180°	4363.7	100.0

Coefficient of Utilization



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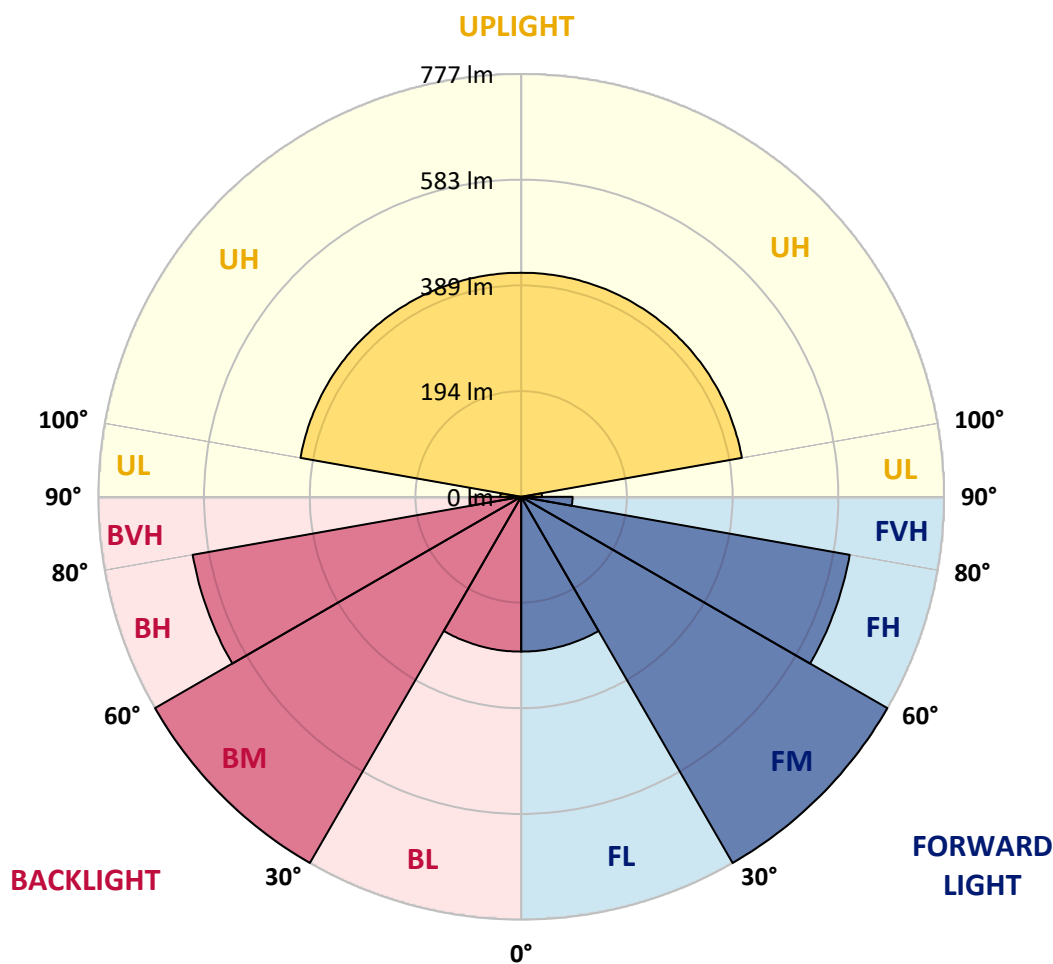
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.7	6.5			
FM	(30°-60°)	777.4	17.8			
FH	(60°-80°)	613.3	14.1			G0/660
FVH	(80°-90°)	94.5	2.2			G1/100
BL	(0°-30°)	284.7	6.5	B1/500		
BM	(30°-60°)	777.4	17.8	B1/1000		
BH	(60°-80°)	613.3	14.1	B2/1000		G0/660
BVH	(80°-90°)	94.5	2.2			G1/100
UL	(90°-100°)	38.3	0.9		U2/50	
UH	(100°-180°)	412.0	9.4		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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	685.6	684.9	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6	685.6
5°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
7.5°	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.9	684.3	684.9
10°	683.0	683.0	683.0	683.0	683.7	683.7	683.7	683.7	683.7	683.7	683.7
12.5°	681.7	681.7	681.7	681.7	682.3	682.3	682.3	682.3	683.0	683.0	682.3
15°	680.3	679.7	679.7	680.3	680.3	681.0	681.0	681.0	681.7	681.0	681.0
17.5°	679.0	678.3	679.0	679.7	679.7	680.3	681.0	681.0	681.7	681.7	681.7
20°	681.0	680.3	681.0	681.7	682.3	683.7	684.3	684.9	685.6	686.3	686.3
22.5°	677.1	676.4	677.1	677.1	677.7	678.3	679.7	680.3	681.0	681.0	681.0
25°	671.1	671.1	671.8	671.8	672.4	673.1	673.8	674.4	674.4	675.1	674.4
27.5°	664.5	664.5	665.2	665.2	666.5	666.5	667.2	667.9	668.5	668.5	668.5
30°	656.6	656.6	657.3	657.9	659.3	659.9	660.6	661.3	661.9	661.9	661.9
32.5°	649.4	648.7	649.4	650.7	652.7	654.0	655.3	656.0	656.0	656.0	656.6
35°	643.4	644.1	645.4	646.8	649.4	650.7	652.0	654.0	654.7	654.7	654.7
37.5°	644.8	645.4	647.5	650.0	653.4	657.3	659.9	662.6	664.5	663.8	663.2
40°	653.4	654.7	657.9	661.9	667.2	672.4	676.4	679.7	681.7	682.3	681.7
42.5°	654.7	656.0	658.6	664.5	670.5	676.4	681.7	684.9	687.6	688.3	687.6
45°	654.0	654.0	657.9	664.5	670.5	676.4	683.0	687.6	690.3	690.3	690.3
47.5°	649.4	651.4	654.0	660.6	668.5	674.4	681.0	685.6	688.9	690.9	688.9
50°	649.4	649.4	654.0	658.6	665.8	676.4	685.6	690.3	693.5	692.8	693.5
52.5°	648.1	652.0	654.7	661.3	674.4	684.9	692.2	698.8	703.4	704.1	702.7
55°	659.9	660.6	666.5	679.0	691.6	703.4	716.6	726.5	734.4	739.0	732.4
57.5°	669.2	665.8	677.7	688.3	702.7	720.5	740.3	748.2	754.1	752.8	754.8
60°	656.6	661.3	669.8	681.0	704.1	721.8	732.4	741.0	748.2	750.1	747.6
61°	650.7	658.6	662.6	677.7	702.1	715.2	726.5	738.3	751.5	756.1	750.1
62.5°	640.9	653.4	652.0	676.4	691.6	706.7	727.8	741.6	750.8	752.1	750.8
65°	641.5	639.5	654.7	672.4	687.6	714.6	732.4	741.0	746.2	748.9	747.6
67.5°	620.4	613.8	632.3	644.8	670.5	691.6	708.7	721.1	729.1	731.7	728.4
70°	571.7	576.3	589.5	608.6	629.6	655.3	671.1	687.6	694.2	694.8	694.8
72.5°	524.9	527.5	540.7	558.5	582.9	605.3	621.0	634.2	640.2	640.9	642.1
75°	463.0	465.6	480.8	497.3	521.6	540.7	551.9	567.7	576.3	583.6	577.6
77.5°	391.2	395.8	407.7	425.5	447.9	458.4	478.1	496.6	502.5	504.5	502.5
80°	310.2	316.1	326.6	350.4	360.3	377.4	396.5	404.4	409.7	411.0	411.7
82.5°	223.3	227.9	239.1	255.5	266.8	280.6	293.7	303.7	309.6	308.2	307.6
85°	131.8	133.0	144.9	156.1	164.7	173.2	183.7	191.0	192.3	195.0	194.3
87.5°	39.5	40.1	45.5	51.4	55.3	59.3	65.9	74.5	76.4	71.1	71.8
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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	685.6	685.6	685.6	685.6	685.6	685.6	684.9	685.6
5°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
7.5°	684.9	684.3	684.3	684.3	684.3	684.3	684.3	684.3
10°	683.7	683.7	683.7	683.7	683.0	683.0	683.0	683.0
12.5°	682.3	682.3	682.3	682.3	681.7	681.7	681.7	681.7
15°	681.0	681.0	681.0	681.0	680.3	680.3	680.3	680.3
17.5°	681.7	681.0	680.3	680.3	679.7	679.0	679.0	679.0
20°	685.6	684.9	683.7	682.3	681.7	681.0	681.0	681.0
22.5°	680.3	679.7	678.3	677.7	677.7	677.1	676.4	676.4
25°	674.4	673.1	673.1	672.4	672.4	671.1	671.1	670.5
27.5°	667.9	667.2	666.5	665.8	665.8	665.2	664.5	663.8
30°	661.9	660.6	659.3	658.6	657.9	657.3	657.3	657.3
32.5°	656.0	654.7	654.0	652.0	650.7	650.0	649.4	649.4
35°	654.0	652.0	650.7	648.7	646.8	645.4	644.8	643.4
37.5°	661.9	659.3	657.3	654.0	649.4	647.5	645.4	644.8
40°	679.0	676.4	672.4	667.2	661.9	657.9	654.7	653.4
42.5°	684.9	681.7	676.4	671.1	664.5	658.6	656.0	654.7
45°	686.9	683.7	676.4	669.8	663.8	658.6	654.7	653.4
47.5°	684.9	680.3	673.8	668.5	659.9	653.4	650.7	648.7
50°	689.6	685.6	677.1	665.2	657.9	654.0	649.4	648.7
52.5°	698.8	691.6	683.7	675.1	661.3	653.4	650.7	647.5
55°	726.5	716.6	702.7	688.9	680.3	667.9	659.9	659.9
57.5°	747.6	739.6	721.8	703.4	687.6	678.3	666.5	667.2
60°	741.6	731.1	722.5	704.1	681.7	669.2	664.5	656.0
61°	741.0	726.5	714.6	700.1	681.0	661.3	659.9	648.7
62.5°	742.2	729.1	706.7	691.6	677.1	651.4	650.7	640.2
65°	741.0	728.4	717.2	688.9	669.2	658.6	636.2	644.8
67.5°	720.5	709.3	688.9	673.1	642.8	629.6	617.1	617.1
70°	688.3	671.8	652.0	632.3	611.9	589.5	578.2	571.7
72.5°	634.2	620.4	604.6	583.6	558.5	538.1	527.5	522.9
75°	566.4	551.3	537.4	521.6	495.3	478.1	467.0	463.6
77.5°	495.3	482.1	457.7	442.6	424.8	405.0	395.2	391.2
80°	404.4	397.2	380.0	355.6	347.1	322.7	316.1	310.2
82.5°	303.7	295.7	279.9	262.8	252.3	238.4	226.5	225.3
85°	191.0	185.7	175.8	163.3	150.2	142.2	131.8	134.3
87.5°	71.1	67.8	61.9	54.0	48.0	42.8	37.6	39.5
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)