

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: P198291

Luminaire Tested: **TT-C1-LED-E1-WQ-SG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198291
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-SG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING 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: 3695.3 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - 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

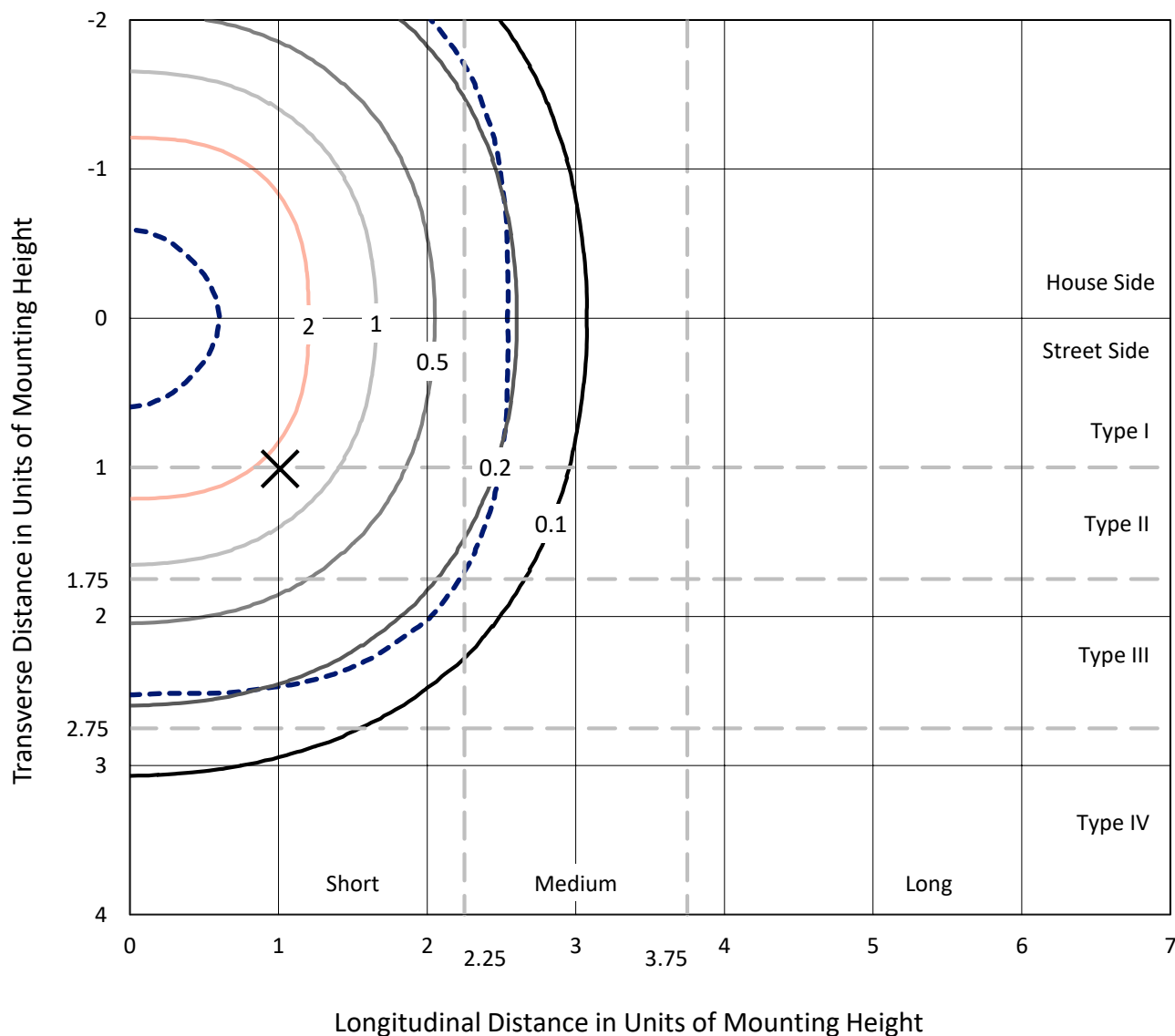


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

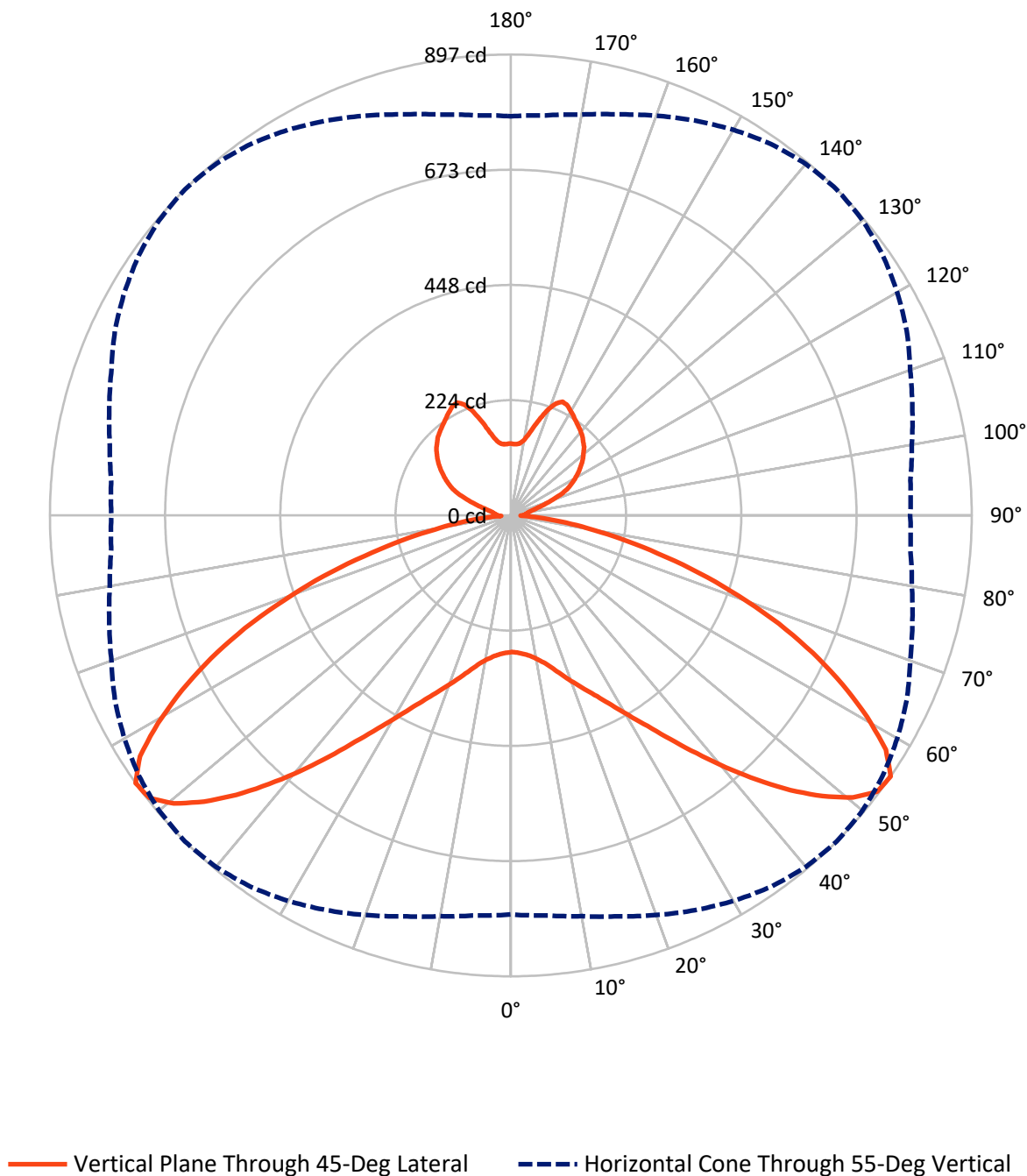


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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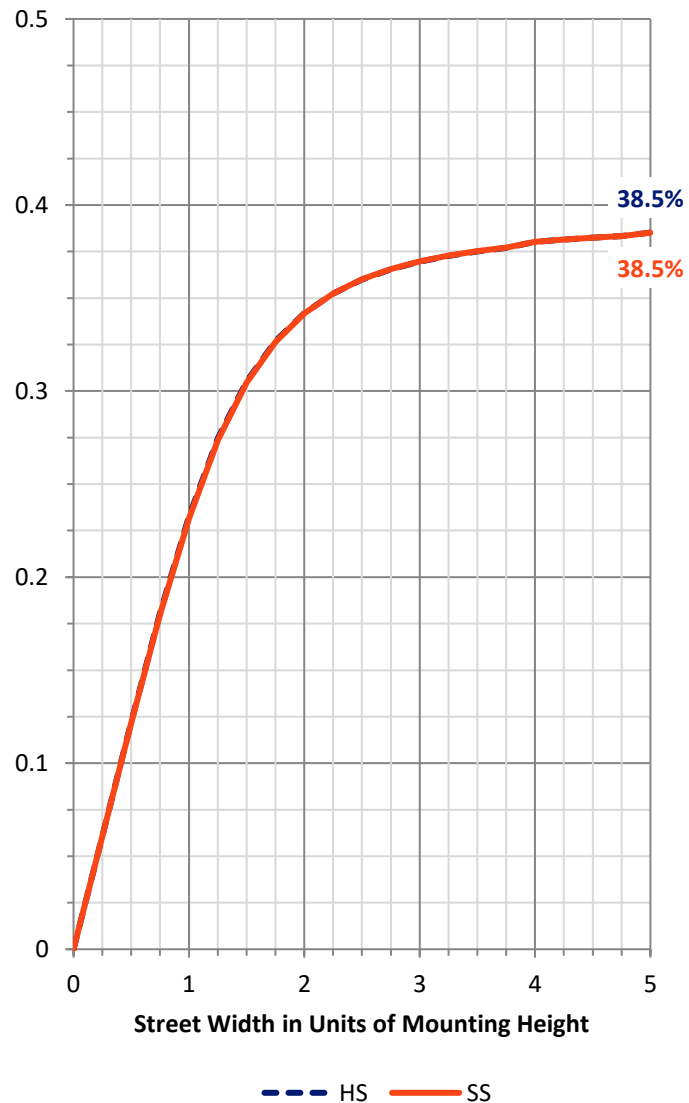
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1435.7	412.0	1847.7
	% Fixture	38.9	11.1	50.0
Street Side	Lumens	1435.7	412.0	1847.7
	% Fixture	38.9	11.1	50.0
Total	Lumens	2871.4	824.0	3695.3
	% Fixture	77.7	22.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.7
10°-20°	89.0	2.4
20°-30°	181.2	4.9
30°-40°	331.0	9.0
40°-50°	562.0	15.2
50°-60°	731.9	19.8
60°-70°	591.9	16.0
70°-80°	290.9	7.9
80°-90°	67.3	1.8
90°-100°	38.3	1.0
100°-110°	59.4	1.6
110°-120°	119.3	3.2
120°-130°	148.7	4.0
130°-140°	153.2	4.1
140°-150°	136.0	3.7
150°-160°	103.7	2.8
160°-170°	51.8	1.4
170°-180°	13.6	0.4
0°-90°	2871.4	77.7
0°-180°	3695.3	100.0

Coefficient of Utilization



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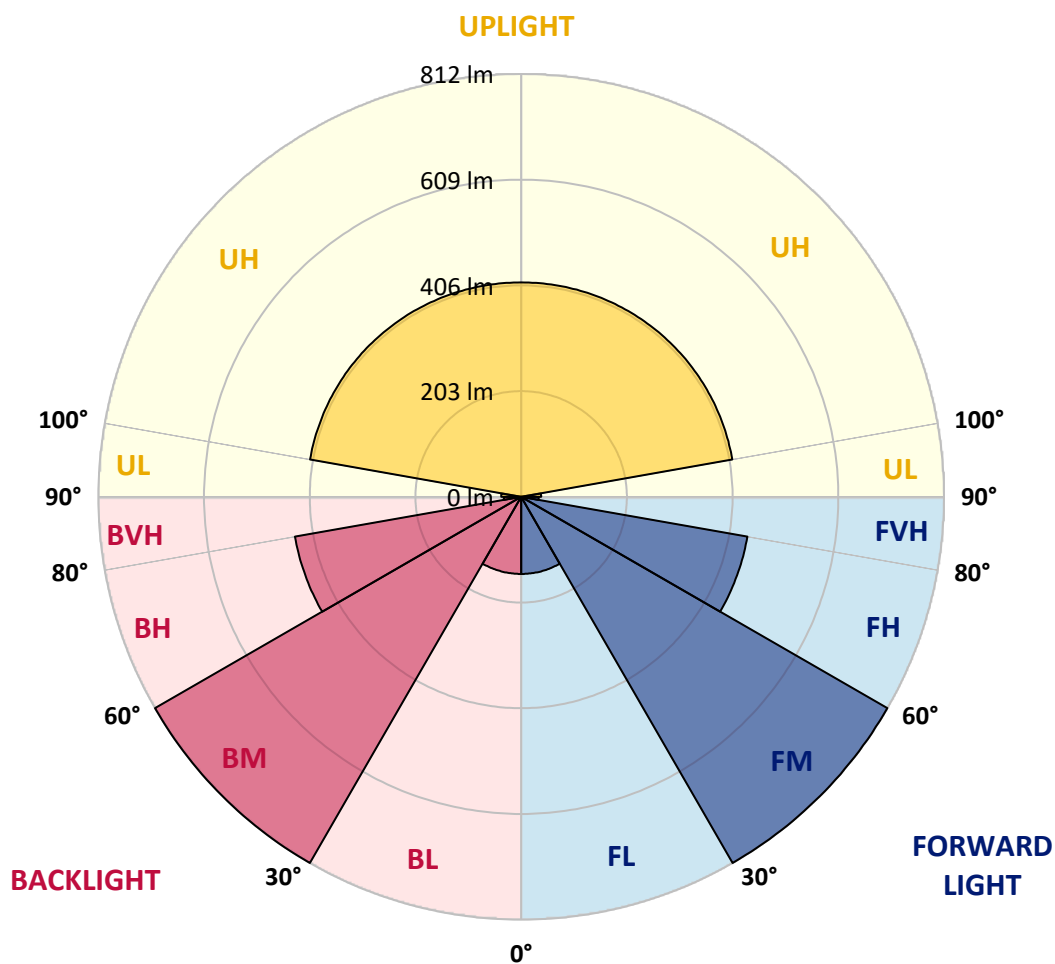
CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.2	4.0			
FM	(30°-60°)	812.4	22.0			
FH	(60°-80°)	441.4	11.9			G0/660
FVH	(80°-90°)	33.7	0.9			G1/100
BL	(0°-30°)	148.2	4.0	B1/500		
BM	(30°-60°)	812.4	22.0	B1/1000		
BH	(60°-80°)	441.4	11.9	B1/500		G0/660
BVH	(80°-90°)	33.7	0.9			G1/100
UL	(90°-100°)	38.3	1.0		U2/50	
UH	(100°-180°)	412.0	11.1		U3/500	

BUG Rating: B1-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7
2.5°	266.8	266.8	266.8	266.8	266.8	266.8	267.4	267.4	267.4	267.4	267.4
5°	270.3	270.3	270.3	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9
7.5°	275.6	275.0	275.6	275.6	275.6	276.2	276.2	275.6	276.2	276.2	276.2
10°	283.2	282.6	283.2	283.2	283.2	283.8	283.8	283.8	283.8	284.4	284.4
12.5°	294.4	293.8	294.4	295.0	294.4	295.0	295.0	295.0	295.0	295.0	295.0
15°	308.5	307.9	308.5	309.0	308.5	309.6	309.6	309.0	309.0	309.6	309.6
17.5°	325.5	324.3	324.9	325.5	325.5	326.7	326.7	326.1	326.7	327.2	326.7
20°	343.0	341.9	342.5	344.2	344.2	344.8	346.0	345.4	346.0	346.6	346.0
22.5°	362.4	361.8	362.4	364.1	364.1	364.7	366.5	366.5	366.5	367.1	366.5
25°	383.5	382.9	383.5	385.3	385.3	386.5	388.8	388.8	389.4	390.0	389.4
27.5°	408.2	407.6	408.7	410.5	411.1	412.9	415.8	416.4	416.9	417.5	416.4
30°	436.9	435.7	437.4	440.4	441.6	443.9	447.5	448.6	449.2	450.9	449.8
32.5°	469.7	468.6	470.9	474.4	476.2	479.7	484.4	485.6	487.3	488.5	486.8
35°	508.4	507.9	510.2	515.5	518.4	522.5	529.0	530.7	531.9	534.3	531.9
37.5°	551.2	550.6	554.8	560.6	565.9	572.3	579.4	582.3	584.1	587.0	584.1
40°	598.7	598.1	603.4	610.5	616.9	625.1	633.9	638.0	641.6	644.5	641.0
42.5°	647.4	647.4	653.9	661.5	670.9	680.9	690.8	695.5	701.4	703.1	699.0
45°	694.3	694.9	701.4	710.7	724.2	737.1	748.3	754.2	760.6	762.4	757.1
47.5°	738.9	739.5	745.3	757.7	772.9	787.6	801.1	809.3	815.7	816.3	812.2
50°	775.3	777.6	785.2	796.4	812.2	827.4	843.9	854.4	860.9	862.7	858.5
52.5°	789.4	793.4	802.3	816.3	834.5	850.3	868.5	882.0	889.6	892.5	889.0
55°	776.4	781.1	791.7	807.5	827.4	847.4	866.1	882.0	892.5	896.7	893.1
57.5°	747.7	748.3	758.8	774.7	792.8	813.4	831.5	846.2	856.2	860.3	859.7
60°	697.8	697.8	707.8	723.1	737.1	758.2	773.5	784.6	791.7	796.4	795.2
62.5°	631.0	631.0	639.8	655.6	669.7	687.9	702.6	714.3	718.9	724.2	725.4
65°	556.5	556.5	564.7	580.6	593.5	609.9	623.9	635.1	639.8	646.2	645.0
67.5°	477.3	476.8	484.4	497.8	510.2	525.4	538.9	549.5	554.8	562.4	557.1
70°	395.8	395.8	402.3	412.9	421.6	436.9	449.8	460.4	464.4	470.9	468.0
72.5°	318.4	317.8	323.1	331.3	338.4	351.9	359.5	371.2	374.7	383.5	378.8
75°	248.6	247.5	251.6	257.4	262.1	270.9	276.8	286.2	289.1	295.0	292.7
77.5°	187.1	186.5	188.2	192.4	195.8	202.9	205.3	209.9	212.3	218.2	213.5
80°	134.3	132.6	134.3	136.6	137.8	143.1	143.7	145.5	146.6	150.7	146.0
82.5°	90.3	88.0	89.1	90.9	90.9	93.8	94.4	93.8	96.2	97.4	95.0
85°	51.6	49.8	50.4	51.6	51.0	52.8	52.8	52.2	53.9	53.9	52.8
87.5°	17.0	15.8	16.4	17.0	17.0	17.6	18.2	17.6	18.8	18.8	17.6
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
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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°	265.7	265.7	265.7	265.7	265.7	265.7	265.7	265.7
2.5°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4
5°	270.9	270.9	270.9	270.9	270.9	270.3	270.3	270.3
7.5°	276.2	276.2	276.2	276.2	276.2	275.6	275.6	275.6
10°	284.4	283.8	283.8	283.8	283.8	283.2	283.8	283.2
12.5°	295.0	295.5	295.5	295.0	295.5	294.4	294.4	294.4
15°	309.6	309.0	309.0	309.0	309.0	308.5	308.5	308.5
17.5°	326.1	326.1	325.5	325.5	324.9	324.3	324.3	324.3
20°	345.4	344.8	344.2	343.6	343.0	341.9	341.3	341.3
22.5°	365.3	364.7	364.1	363.6	363.0	361.8	360.7	360.7
25°	387.6	386.5	385.9	384.7	383.5	382.3	381.8	381.2
27.5°	414.6	413.5	411.7	409.9	407.6	407.0	405.8	405.8
30°	446.9	445.1	442.7	439.8	437.4	435.1	434.0	433.4
32.5°	484.4	482.1	477.9	474.4	470.3	468.0	466.2	465.0
35°	528.4	524.8	520.2	514.9	509.6	505.5	502.6	502.6
37.5°	580.0	574.7	567.7	561.2	553.6	548.9	545.4	543.0
40°	636.3	628.7	619.9	611.6	602.9	596.4	591.1	591.7
42.5°	692.0	685.5	675.0	665.0	653.9	645.0	638.6	638.0
45°	750.6	742.4	729.5	716.6	703.7	693.1	685.5	684.3
47.5°	805.1	796.4	781.1	765.3	751.2	739.5	731.3	730.1
50°	849.8	839.2	823.4	806.3	791.1	778.2	769.4	767.0
52.5°	878.5	866.7	849.8	829.2	812.8	798.1	787.6	784.6
55°	883.2	867.9	849.8	826.8	808.7	792.2	780.5	777.0
57.5°	850.9	834.5	818.1	798.1	779.9	762.4	753.0	748.3
60°	788.2	775.3	761.8	743.6	729.0	712.5	704.9	702.6
62.5°	716.0	704.9	692.5	673.8	661.5	646.8	639.8	636.9
65°	638.6	625.7	614.0	598.7	585.2	572.9	563.0	561.8
67.5°	553.0	539.5	529.5	516.1	502.6	490.8	484.4	480.9
70°	462.7	451.5	441.6	426.9	418.1	407.0	402.3	398.8
72.5°	373.0	366.5	354.2	344.8	334.9	326.1	323.1	319.6
75°	288.5	280.9	271.5	265.7	258.0	253.4	251.0	248.6
77.5°	211.7	205.3	200.0	197.6	194.1	189.4	187.7	185.9
80°	146.6	143.7	140.2	139.6	137.2	133.7	133.1	132.6
82.5°	95.0	93.3	92.1	92.1	90.9	88.5	88.0	88.0
85°	52.8	52.2	52.8	52.2	51.0	49.8	49.8	49.8
87.5°	17.6	17.6	18.2	18.8	17.0	17.0	16.4	16.4
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
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
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)