

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: P198334

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198334
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C2-LED-E1-RW-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.3 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

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

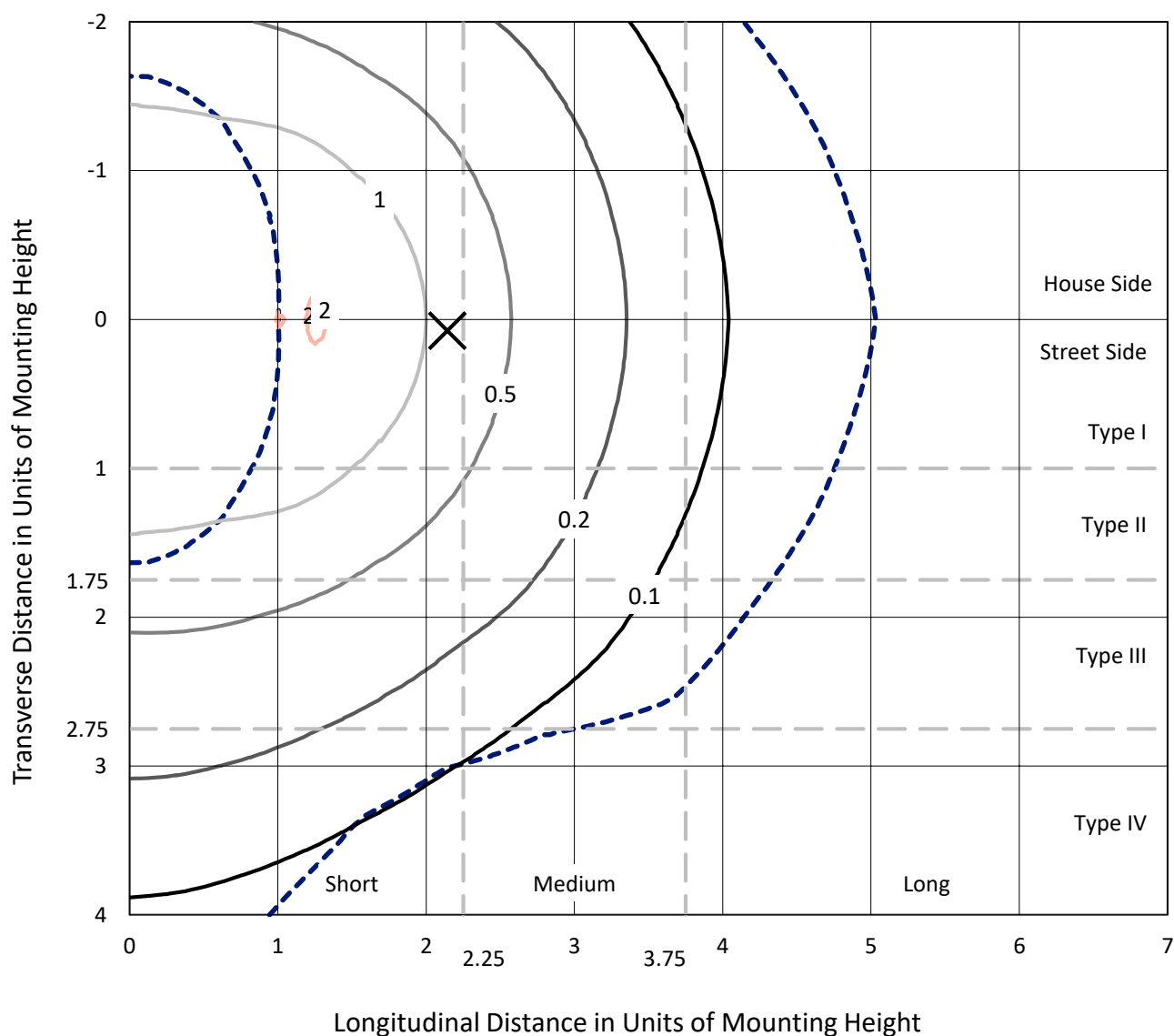


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

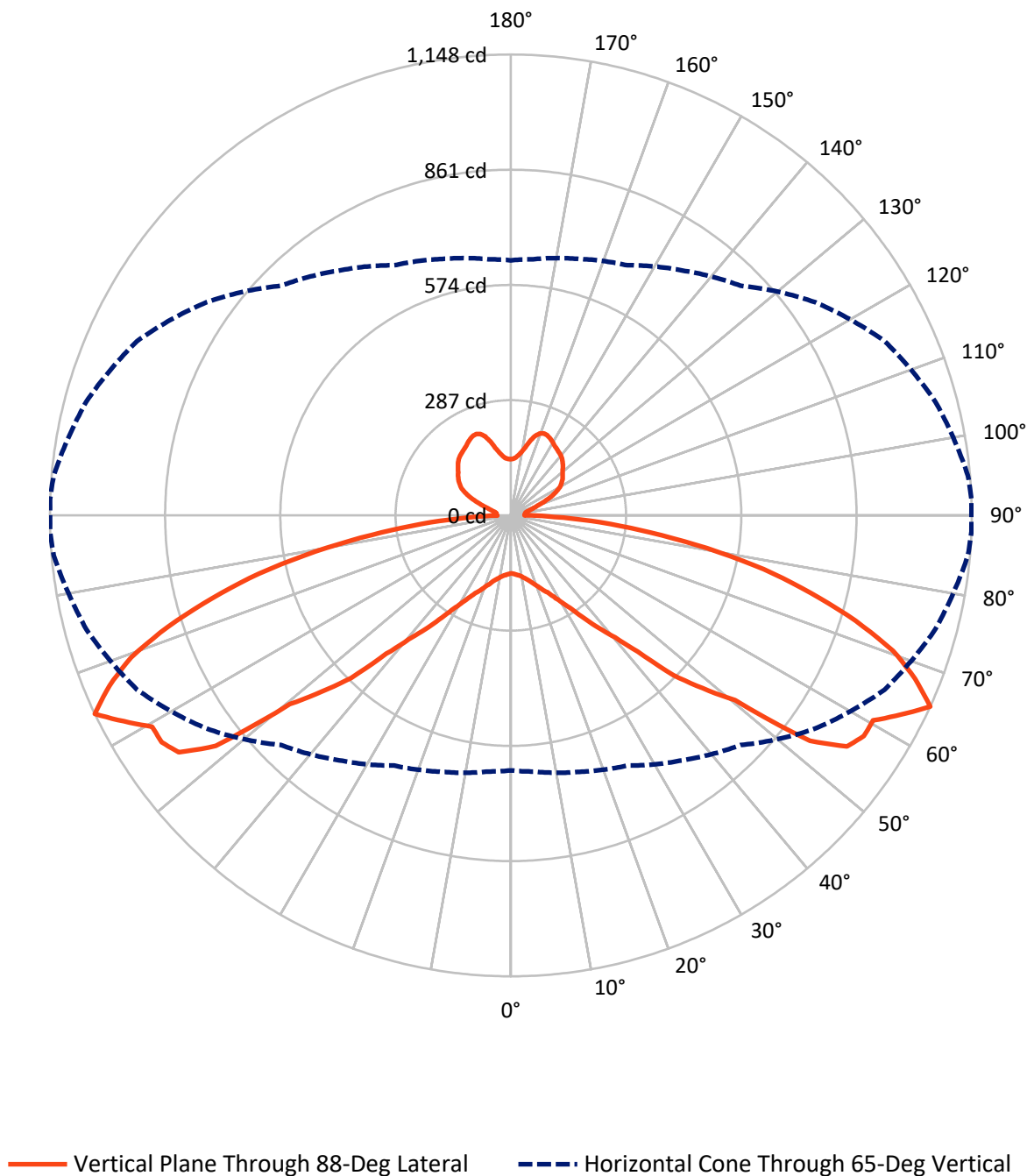


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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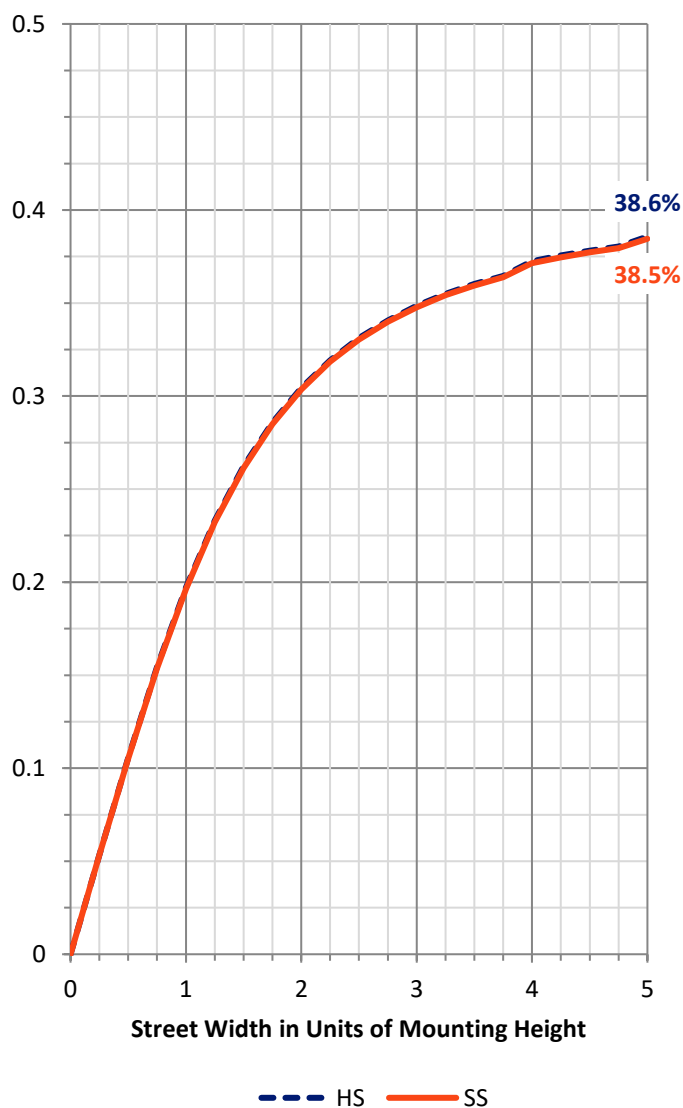
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.5	412.7	1961.2
	% Fixture	39.5	10.5	50.0
Street Side	Lumens	1548.5	412.7	1961.2
	% Fixture	39.5	10.5	50.0
Total	Lumens	3097.0	825.3	3922.3
	% Fixture	79.0	21.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.4
10°-20°	49.3	1.3
20°-30°	104.7	2.7
30°-40°	200.0	5.1
40°-50°	367.7	9.4
50°-60°	636.8	16.2
60°-70°	828.5	21.1
70°-80°	679.0	17.3
80°-90°	216.7	5.5
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°	3097.0	79.0
0°-180°	3922.3	100.0

Coefficient of Utilization



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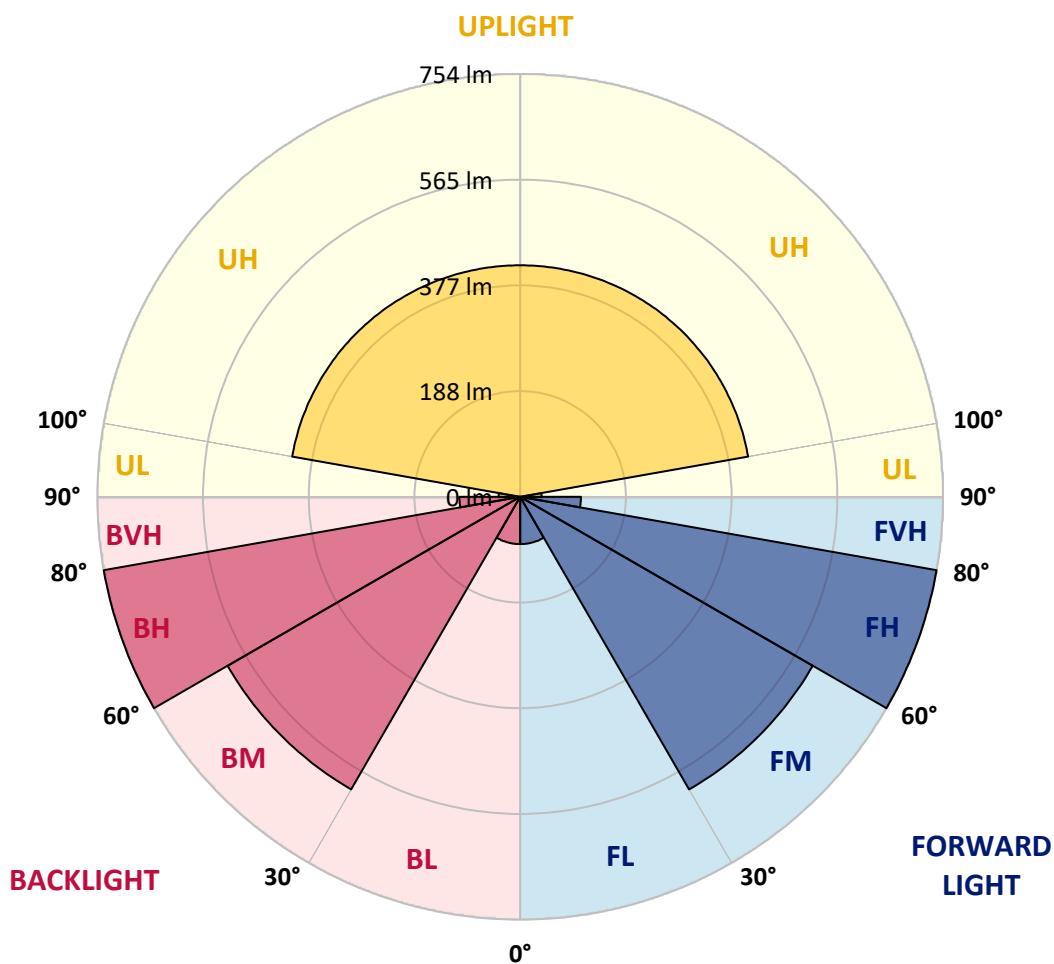
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.2	2.1			
FM	(30°-60°)	602.3	15.4			
FH	(60°-80°)	753.7	19.2			G1/1800
FVH	(80°-90°)	108.3	2.8			G2/225
BL	(0°-30°)	84.2	2.1	B0/110		
BM	(30°-60°)	602.3	15.4	B1/1000		
BH	(60°-80°)	753.7	19.2	B2/1000		G2/1000
BVH	(80°-90°)	108.3	2.8			G2/225
UL	(90°-100°)	38.4	1.0		U2/50	
UH	(100°-180°)	412.7	10.5		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5
2.5°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
5°	148.4	148.4	148.4	149.1	149.1	149.1	149.1	149.1	148.4	148.4	148.4
7.5°	151.7	151.7	152.3	152.3	152.3	152.3	151.7	151.7	151.0	151.0	151.0
10°	156.9	156.9	157.5	157.5	156.9	156.2	156.2	156.2	155.6	155.6	155.6
12.5°	164.0	164.0	164.7	164.0	163.4	162.7	162.7	162.1	161.4	161.4	161.4
15°	173.8	173.8	173.1	171.8	170.5	170.5	168.6	168.6	168.6	168.6	167.9
17.5°	186.8	186.2	183.6	182.9	181.0	179.7	178.4	177.7	177.1	177.1	177.7
20°	201.1	199.8	196.6	196.6	193.3	191.4	190.1	188.8	188.8	188.1	187.5
22.5°	218.1	216.8	212.9	211.6	208.3	205.0	203.7	200.5	199.8	199.8	200.5
25°	235.0	235.6	232.4	229.8	225.2	222.0	217.4	215.5	213.5	213.5	212.2
27.5°	254.5	255.2	251.3	248.0	244.1	237.6	235.0	232.4	230.4	231.7	230.4
30°	275.3	276.6	273.4	269.5	263.6	257.1	253.9	253.2	251.3	252.6	251.9
32.5°	299.4	298.8	296.8	292.9	285.1	279.9	277.3	276.6	277.9	278.6	277.9
35°	327.4	324.8	322.9	317.0	309.8	305.9	303.3	305.9	311.8	315.7	314.4
37.5°	356.7	352.8	350.9	344.3	337.8	335.9	339.1	344.3	350.2	355.4	355.4
40°	380.8	382.1	377.5	371.7	366.5	368.4	374.3	383.4	395.1	400.3	399.7
42.5°	404.9	408.8	404.2	398.4	399.0	404.9	413.3	430.3	456.3	464.1	463.5
45°	426.4	434.8	430.9	427.0	432.9	442.6	465.4	503.2	539.0	565.7	567.6
47.5°	454.3	458.9	457.0	457.0	466.1	488.8	523.3	576.1	613.8	639.2	643.1
50°	486.2	481.7	482.3	488.2	511.0	544.8	591.7	641.2	708.9	720.6	723.8
52.5°	512.9	505.1	509.7	520.7	553.9	596.9	655.5	757.0	843.6	921.7	932.8
55°	540.3	531.2	540.3	557.8	606.7	666.6	752.5	870.3	961.4	1010.2	1016.1
57.5°	561.1	559.8	572.8	598.2	658.1	738.2	835.1	936.0	997.2	1031.7	1036.9
60°	587.1	588.4	603.4	637.3	708.9	785.7	857.9	950.4	1010.9	1031.1	1036.9
62.5°	611.9	617.1	634.7	673.1	735.6	794.1	863.8	975.7	1052.6	1096.2	1092.3
65°	635.3	640.5	661.3	687.4	744.7	809.1	925.6	1027.2	1094.9	1143.0	1148.2
67.5°	658.7	665.3	673.7	694.5	749.9	810.4	911.3	996.6	1051.3	1084.5	1086.4
70°	678.9	678.3	676.3	682.2	716.7	763.5	857.3	925.0	976.4	1003.7	1010.2
72.5°	681.5	679.6	656.8	639.9	650.9	688.0	777.9	831.9	870.9	893.7	898.3
75°	660.0	649.0	604.1	567.6	565.7	602.8	678.3	717.3	740.8	770.1	772.0
77.5°	590.4	578.0	527.9	478.4	478.4	502.5	565.7	586.5	615.8	637.9	643.8
80°	475.8	474.5	422.5	383.4	369.1	389.3	440.7	448.5	470.6	489.5	495.4
82.5°	344.3	334.6	305.9	272.7	261.0	274.0	309.2	317.0	325.5	342.4	349.6
85°	208.3	208.9	189.4	170.5	155.6	160.1	187.5	198.5	209.6	220.7	224.6
87.5°	74.9	86.6	67.7	59.9	52.1	49.5	57.9	71.6	84.0	99.6	108.1
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.4
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	48.6
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.6
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.4
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	114.2
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	130.6
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	143.2
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	151.2
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.8
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	164.2
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.8
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	177.2
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.4
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.4
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	201.6
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.2
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.6
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.6
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.4
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	220.2
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	216.2
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	191.2
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.2
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.6
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.2
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.6
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	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°	144.5
2.5°	145.8
5°	147.8
7.5°	151.0
10°	155.6
12.5°	161.4
15°	167.9
17.5°	176.4
20°	187.5
22.5°	199.2
25°	212.9
27.5°	231.7
30°	251.3
32.5°	277.9
35°	317.7
37.5°	355.4
40°	401.6
42.5°	466.1
45°	570.2
47.5°	642.5
50°	729.7
52.5°	923.7
55°	1018.1
57.5°	1038.2
60°	1036.9
62.5°	1102.7
65°	1147.6
67.5°	1087.7
70°	1012.8
72.5°	896.3
75°	776.6
77.5°	647.0
80°	498.0
82.5°	346.9
85°	233.7
87.5°	96.3
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)