

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: P198260

Luminaire Tested: **TT-C1-LED-E1-RW-CG-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198260
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C1-LED-E1-RW-CG-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3452.3 lumens
Efficiency: N/A
Efficacy: 76.0 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): 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



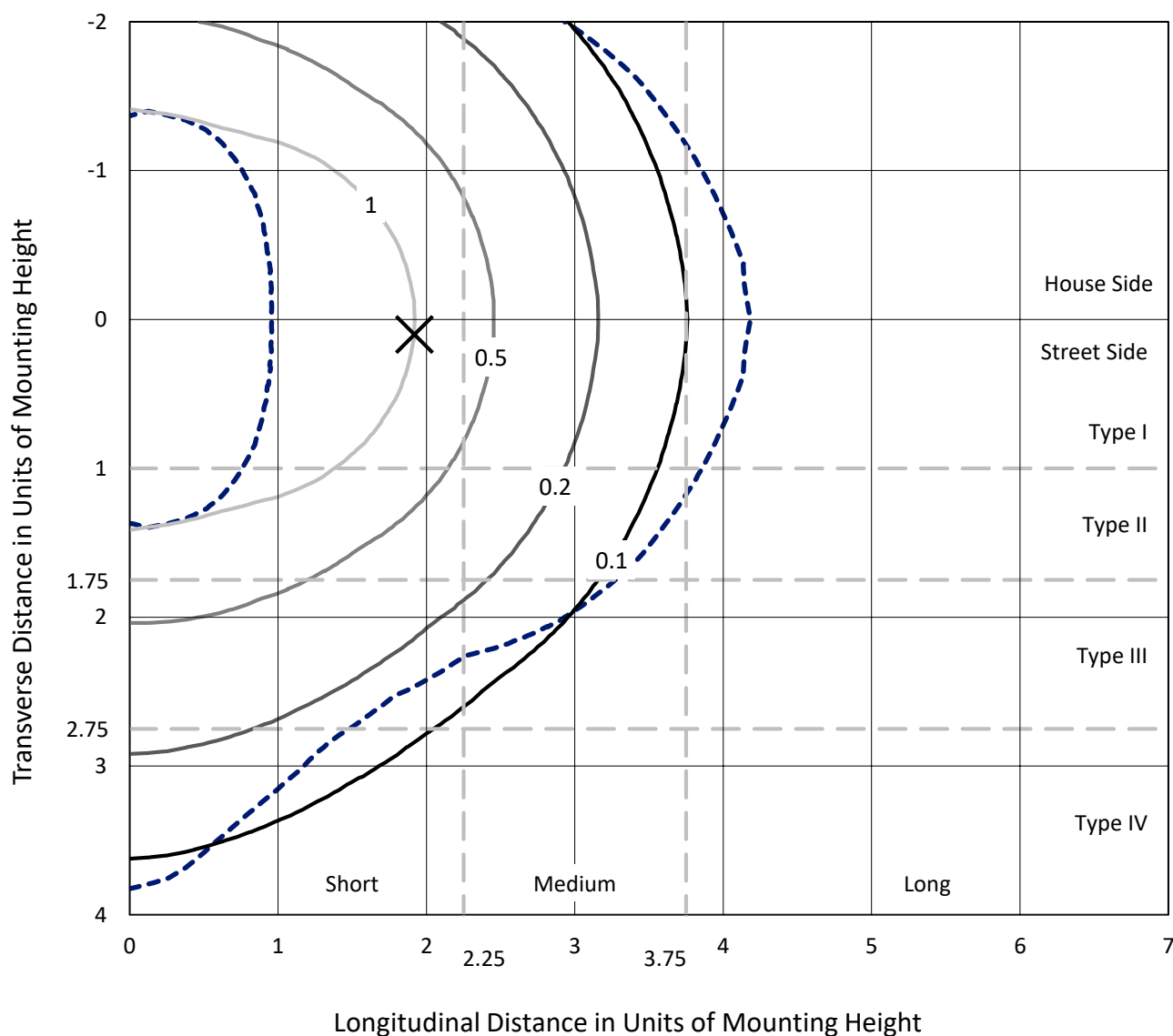
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

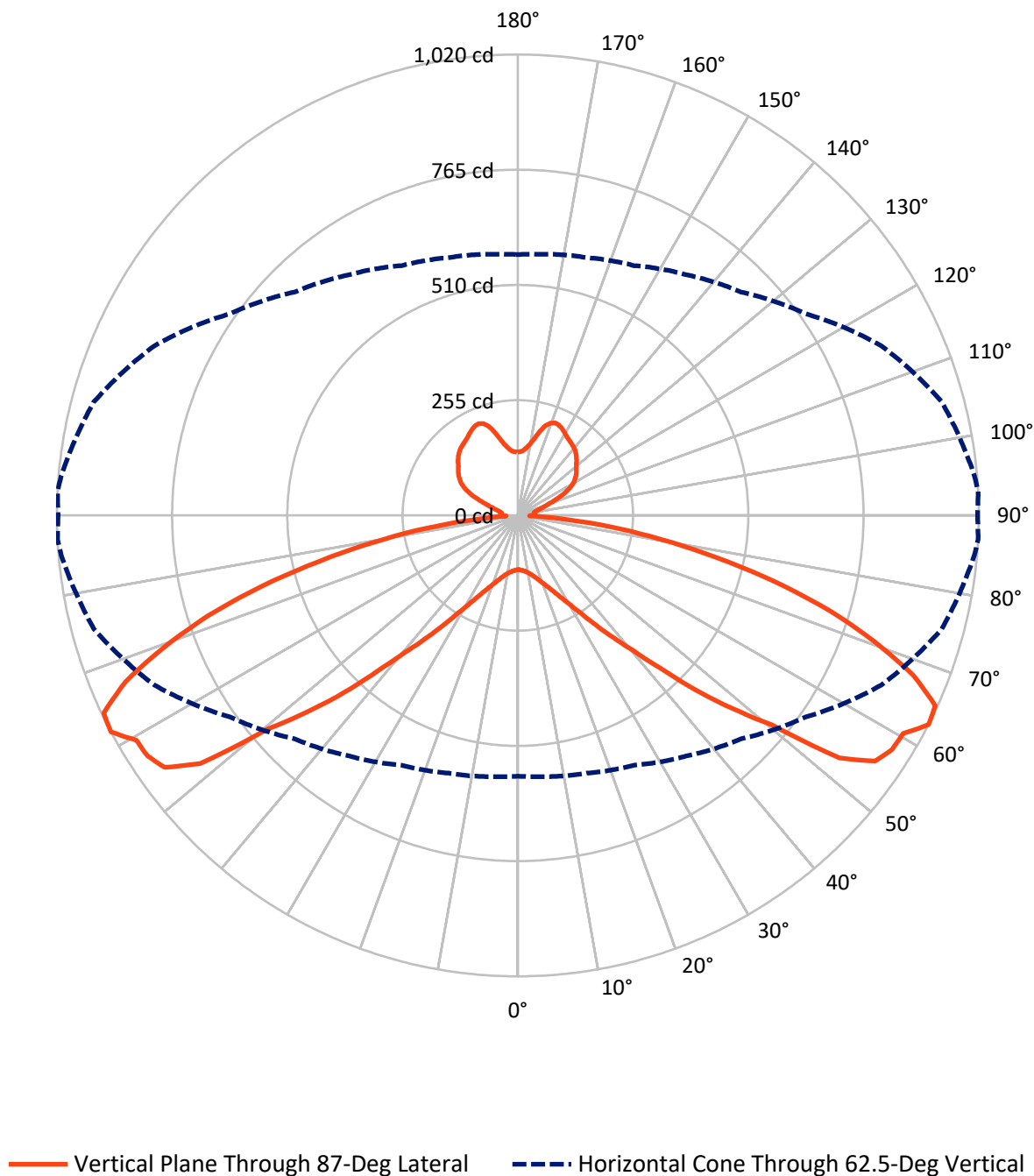


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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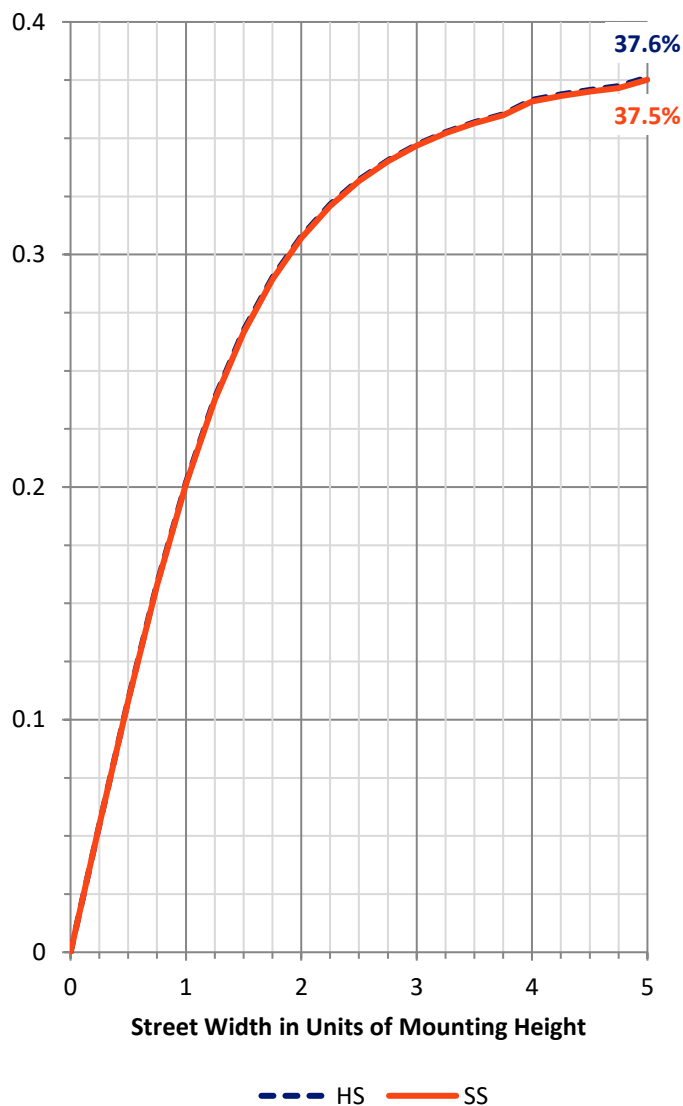
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1313.5	412.7	1726.2
	% Fixture	38.0	12.0	50.0
Street Side	Lumens	1313.5	412.7	1726.2
	% Fixture	38.0	12.0	50.0
Total	Lumens	2627.0	825.3	3452.3
	% Fixture	76.1	23.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.3
10°-20°	41.4	1.2
20°-30°	91.4	2.6
30°-40°	184.1	5.3
40°-50°	351.1	10.2
50°-60°	601.2	17.4
60°-70°	728.3	21.1
70°-80°	504.6	14.6
80°-90°	112.9	3.3
90°-100°	38.4	1.1
100°-110°	59.5	1.7
110°-120°	119.6	3.5
120°-130°	148.9	4.3
130°-140°	153.3	4.4
140°-150°	136.3	3.9
150°-160°	103.9	3.0
160°-170°	51.8	1.5
170°-180°	13.6	0.4
0°-90°	2627.0	76.1
0°-180°	3452.3	100.0

Coefficient of Utilization



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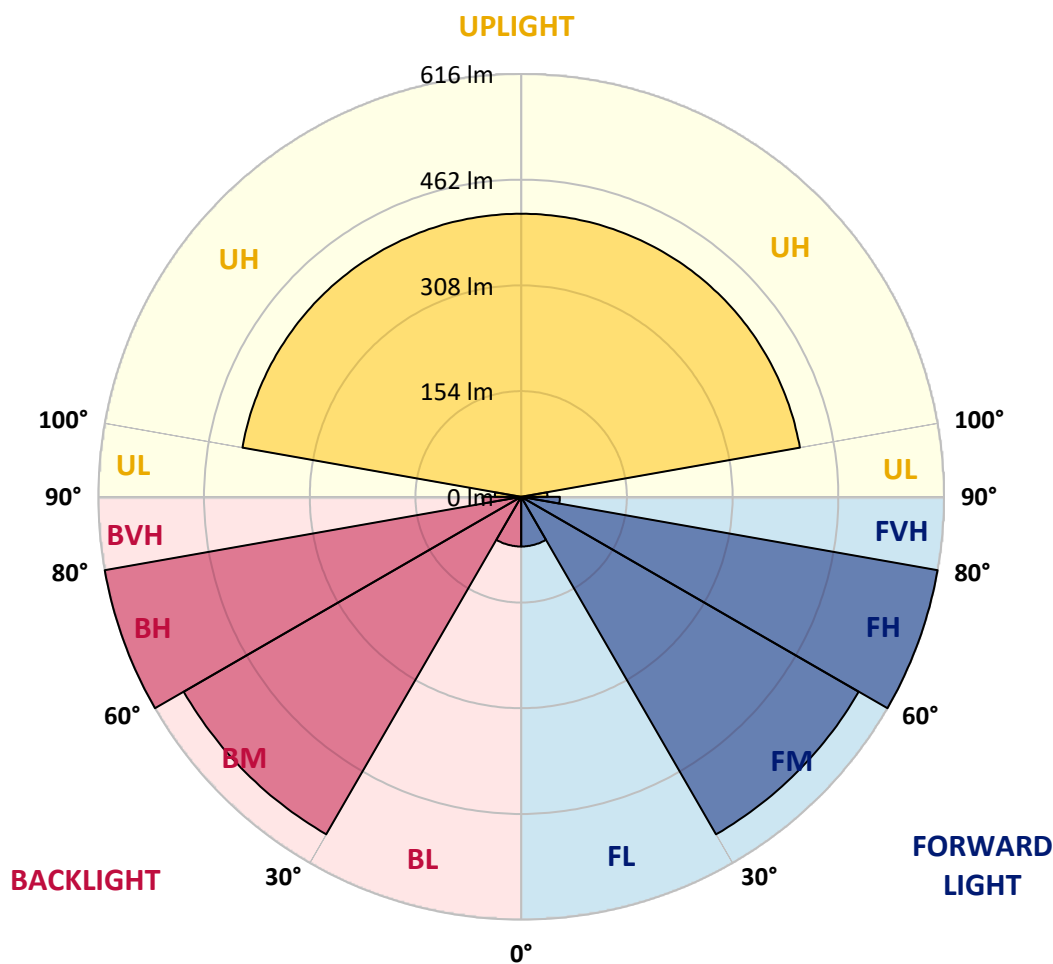
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.4	2.1			
FM	(30°-60°)	568.2	16.5			
FH	(60°-80°)	616.5	17.9			G0/660
FVH	(80°-90°)	56.4	1.6			G1/100
BL	(0°-30°)	72.4	2.1	B0/110		
BM	(30°-60°)	568.2	16.5	B1/1000		
BH	(60°-80°)	616.5	17.9	B2/1000		G2/1000
BVH	(80°-90°)	56.4	1.6			G1/100
UL	(90°-100°)	38.4	1.1		U2/50	
UH	(100°-180°)	412.7	12.0		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°	87°
0°	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
2.5°	120.7	120.7	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
5°	122.8	122.8	122.8	123.4	123.4	123.4	123.4	123.4	122.8	122.8	122.8
7.5°	126.0	126.0	126.0	126.6	126.6	126.6	126.0	126.0	125.5	125.5	125.5
10°	130.3	130.3	130.9	130.9	130.3	130.3	129.8	129.3	129.8	129.3	129.3
12.5°	136.2	137.3	136.8	136.8	135.7	135.7	135.2	135.2	135.2	134.6	134.6
15°	144.8	144.8	145.4	144.3	144.3	142.7	142.1	141.6	142.1	142.1	141.6
17.5°	155.0	155.0	155.0	153.4	152.3	151.3	150.7	150.2	149.6	150.2	150.2
20°	170.6	169.5	167.3	166.3	163.6	162.5	161.4	160.9	160.4	160.4	160.4
22.5°	186.7	185.6	182.9	180.8	178.6	175.9	174.9	172.7	172.2	173.2	172.7
25°	202.2	203.8	200.6	197.9	196.3	192.0	189.3	188.8	187.7	187.2	187.7
27.5°	221.5	222.6	219.9	216.1	212.9	209.7	207.0	206.0	206.5	206.5	207.0
30°	243.0	245.1	240.8	238.7	233.8	229.6	227.4	228.5	229.6	231.2	230.6
32.5°	267.6	267.6	265.5	261.7	256.4	252.6	251.5	253.2	258.0	260.1	259.6
35°	296.6	294.5	292.3	287.5	280.5	278.4	280.5	285.9	292.8	296.6	298.7
37.5°	326.6	322.3	319.1	313.8	310.5	309.5	314.3	324.5	332.0	339.0	342.2
40°	352.4	352.4	348.1	342.2	339.0	343.8	351.3	365.8	380.3	387.8	393.1
42.5°	378.1	381.3	376.5	371.7	371.7	378.1	392.6	415.1	442.5	458.6	461.3
45°	404.9	410.8	404.4	401.2	404.4	417.3	444.6	488.1	528.8	555.1	550.8
47.5°	432.8	438.2	432.3	430.7	438.2	461.3	503.1	558.9	599.6	627.0	637.7
50°	467.2	463.4	461.3	460.7	476.3	510.6	564.8	624.8	690.3	715.0	728.4
52.5°	496.1	489.7	488.6	492.4	518.1	559.4	627.0	737.5	828.1	889.3	891.4
55°	521.3	514.4	518.1	527.2	562.1	619.5	704.8	834.0	910.7	956.3	960.1
57.5°	542.8	539.0	545.5	557.8	602.9	671.5	767.0	873.7	937.0	973.5	977.2
60°	562.1	561.6	568.5	589.5	639.9	702.1	780.9	876.4	942.4	975.1	979.9
62.5°	577.1	580.3	590.5	609.8	650.1	698.9	777.7	887.7	971.3	1014.2	1020.1
65°	590.0	593.2	603.4	609.8	645.8	692.4	795.4	895.2	967.0	1011.6	1015.3
67.5°	597.0	600.7	599.1	600.2	628.1	664.5	753.6	839.4	898.4	939.2	944.0
70°	595.9	592.7	579.8	566.4	572.3	598.0	678.5	750.4	804.0	836.2	837.8
72.5°	573.4	568.0	537.4	506.3	497.2	514.4	584.6	638.8	684.4	713.9	723.0
75°	522.4	511.7	467.2	426.9	406.6	419.4	473.6	520.8	554.6	583.6	589.5
77.5°	429.6	423.2	378.7	334.7	312.2	320.7	363.6	391.5	428.0	458.0	450.5
80°	312.7	311.6	275.7	236.5	220.4	224.2	247.3	274.6	297.7	320.2	321.3
82.5°	204.4	201.1	177.0	148.6	131.9	134.1	148.6	163.1	185.0	199.5	203.8
85°	101.4	99.8	89.0	71.3	62.2	62.2	69.2	77.8	88.5	94.9	94.4
87.5°	27.9	25.2	24.7	18.2	15.0	16.1	16.1	17.7	22.5	24.1	25.7
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	38.6
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	48.4
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.4
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.6
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	114.8
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	131.4
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	143.8
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	151.8
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	159.2
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	164.8
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	170.2
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	177.8
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.6
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.6
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	201.4
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	204.8
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.4
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.4
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.6
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	220.8
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	216.8
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	190.8
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	172.8
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.4
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	149.8
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.4
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°	119.6
2.5°	121.2
5°	122.8
7.5°	125.5
10°	129.8
12.5°	134.6
15°	141.6
17.5°	149.6
20°	160.4
22.5°	173.8
25°	187.7
27.5°	206.5
30°	231.2
32.5°	260.1
35°	297.7
37.5°	339.5
40°	391.0
42.5°	458.6
45°	555.7
47.5°	632.4
50°	721.4
52.5°	894.6
55°	961.1
57.5°	978.3
60°	980.5
62.5°	1017.5
65°	1019.6
67.5°	940.2
70°	840.5
72.5°	721.9
75°	593.7
77.5°	458.6
80°	320.7
82.5°	200.6
85°	93.9
87.5°	23.6
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)