

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: P146209

Luminaire Tested: **VPL-E02-LED-E1-CPR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146209
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-E02-LED-E1-CPR-7030
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER RIGHT
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4920.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

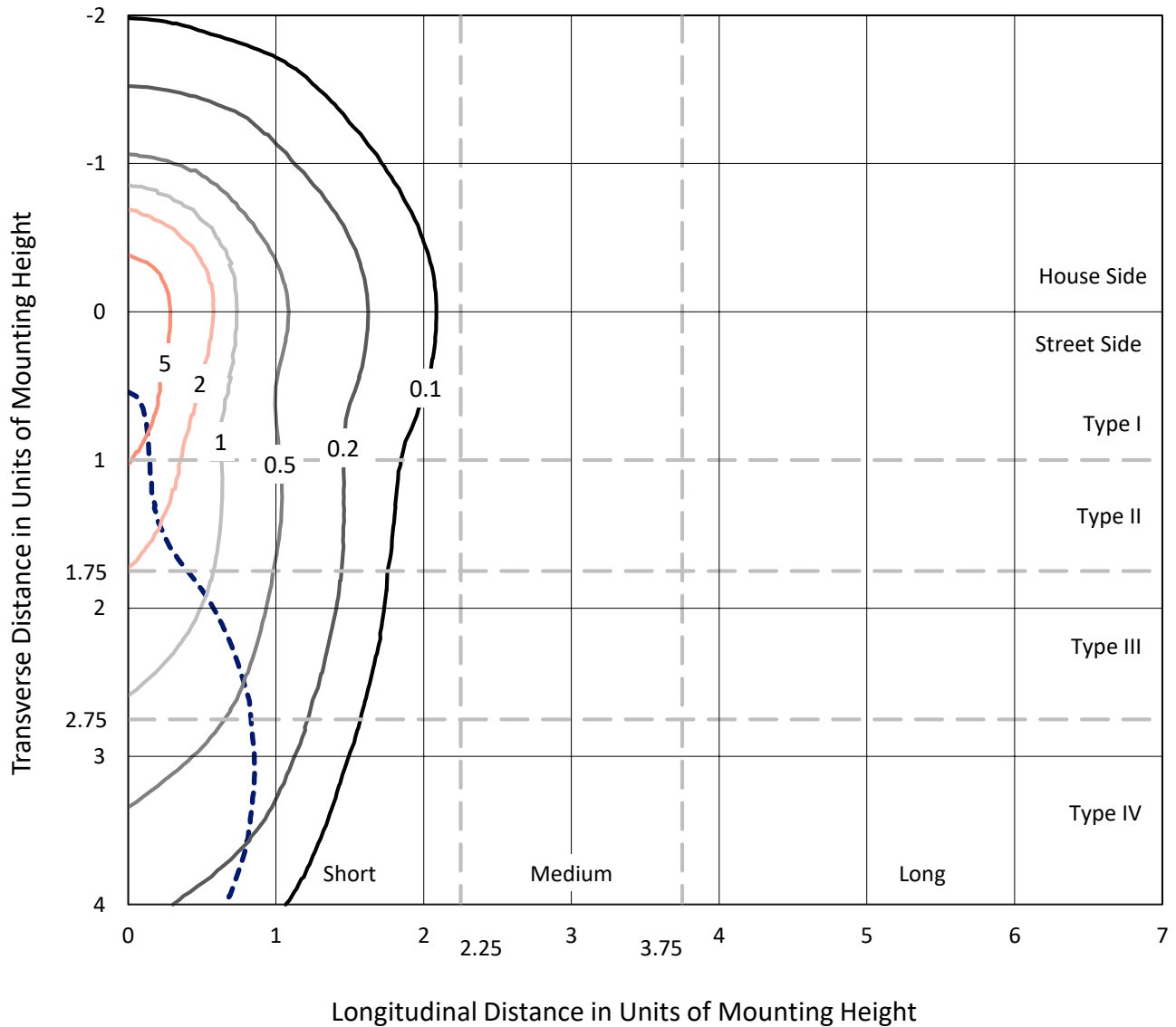
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

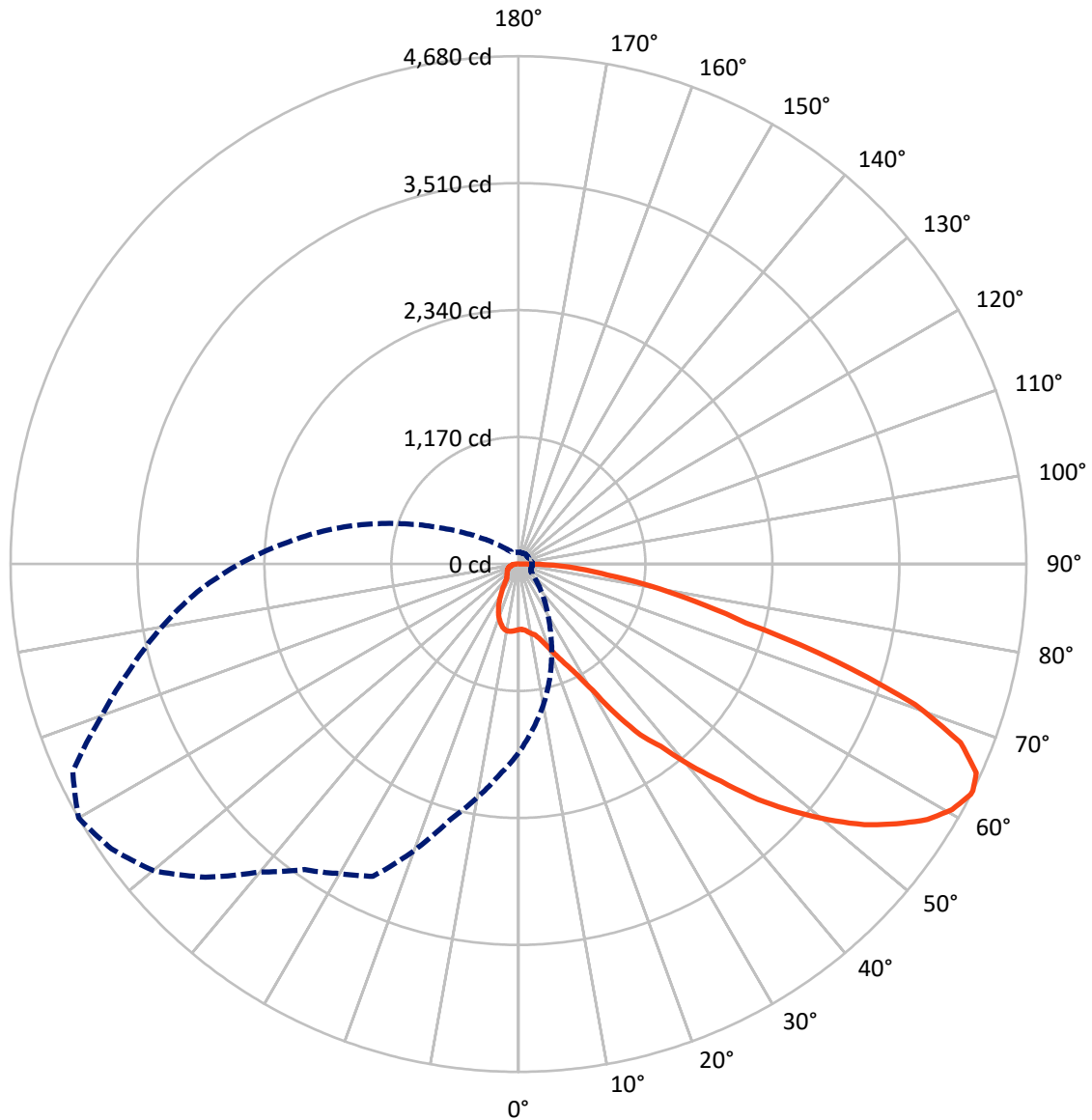
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.9	0.0	1029.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3890.2	0.0	3890.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	4920.1	0.0	4920.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.2
10°-20°	185.2	3.8
20°-30°	327.6	6.7
30°-40°	517.1	10.5
40°-50°	760.4	15.5
50°-60°	1001.7	20.4
60°-70°	1116.5	22.7
70°-80°	733.5	14.9
80°-90°	218.8	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4920.1	100.0
0°-180°	4920.1	100.0



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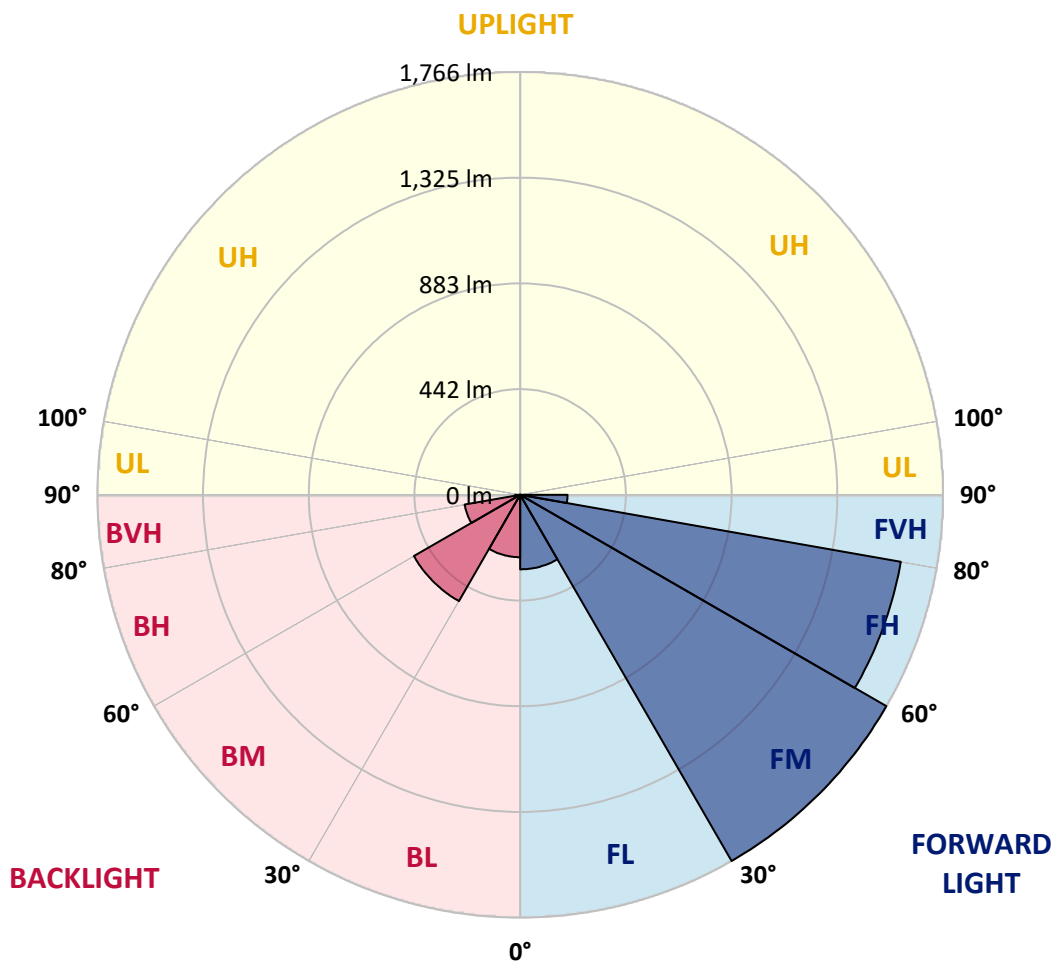
CATALOG NUMBER: VPL-E02-LED-E1-CPR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.4	6.3			
FM	(30°-60°)	1766.4	35.9			
FH	(60°-80°)	1614.6	32.8			G1/1800
FVH	(80°-90°)	197.7	4.0			G2/225
BL	(0°-30°)	260.7	5.3	B1/500		
BM	(30°-60°)	512.8	10.4	B1/1000		
BH	(60°-80°)	235.4	4.8	B1/500		G1/500
BVH	(80°-90°)	21.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	603.5	604.6	604.6	603.5	604.6	604.3	604.3	605.4	605.7	607.6	606.5
5°	600.6	601.0	601.3	600.6	601.0	601.0	601.7	602.8	603.2	605.4	604.3
7.5°	597.3	598.1	596.6	597.0	598.1	599.5	599.5	601.0	603.5	604.6	604.3
10°	599.2	598.4	597.3	597.0	597.7	598.1	598.8	601.3	603.5	604.6	606.5
12.5°	613.4	611.2	610.1	609.8	610.1	609.4	611.9	612.7	613.4	614.9	614.1
15°	640.4	637.5	635.7	633.9	637.9	636.1	636.1	633.9	630.2	624.7	617.8
17.5°	678.1	674.8	673.3	672.6	673.0	669.7	663.1	652.5	639.7	625.1	611.6
20°	732.1	737.3	735.1	725.2	721.5	706.9	686.1	664.2	641.9	618.5	596.2
22.5°	825.7	822.7	812.9	788.4	766.5	733.6	696.3	660.9	628.0	594.0	564.8
25°	934.2	909.7	881.9	833.7	783.3	729.2	675.5	633.5	589.7	552.4	517.3
27.5°	1067.2	1014.2	943.3	864.8	789.5	717.5	654.0	598.4	548.4	508.6	469.5
30°	1198.0	1109.5	1010.9	906.8	805.2	708.0	624.0	559.7	502.0	450.8	411.4
32.5°	1288.6	1181.5	1058.8	930.2	806.7	692.7	591.1	514.4	449.4	397.9	350.4
35°	1363.1	1229.4	1075.6	926.5	783.3	656.9	544.0	458.9	389.8	336.5	294.8
37.5°	1414.2	1253.8	1074.5	905.3	741.6	599.9	489.9	403.3	339.0	289.3	251.0
40°	1450.0	1261.5	1060.2	869.1	693.8	544.7	432.2	353.3	297.0	258.3	230.5
42.5°	1467.2	1256.4	1039.0	834.8	646.3	500.2	388.7	319.7	274.0	244.8	224.3
45°	1474.5	1244.0	1015.3	801.2	607.6	461.8	366.4	309.4	273.6	248.4	226.1
47.5°	1472.7	1230.5	994.1	773.4	584.5	451.6	370.8	323.3	287.2	255.7	227.2
50°	1467.6	1218.0	980.6	763.2	584.2	466.9	395.3	346.7	302.9	262.3	226.1
52.5°	1467.2	1216.9	987.9	775.3	605.4	501.6	432.2	373.7	318.2	269.6	226.5
55°	1476.0	1236.7	1018.9	807.8	656.5	550.2	473.8	402.6	335.4	274.7	225.4
57.5°	1511.4	1286.0	1077.8	880.5	722.3	609.4	514.0	424.2	342.0	273.3	220.3
60°	1589.2	1372.6	1168.4	983.1	806.7	663.5	537.8	431.5	339.0	264.5	209.3
62.5°	1710.5	1497.9	1292.6	1084.0	881.6	696.0	543.3	425.6	327.3	249.9	195.8
63°	1741.6	1526.8	1317.8	1104.8	894.4	699.3	542.9	423.4	324.1	246.2	192.5
65°	1871.3	1650.6	1419.0	1173.5	928.7	705.8	534.5	409.5	309.4	229.1	177.6
67.5°	2066.4	1787.2	1519.4	1237.4	947.7	694.1	508.2	375.2	271.8	199.1	155.3
70°	2196.4	1877.8	1579.4	1258.2	925.4	640.8	447.9	314.6	222.1	164.0	132.6
72.5°	2199.7	1796.7	1498.3	1150.1	799.0	528.6	350.7	237.8	172.8	133.3	114.4
75°	1964.8	1518.4	1224.6	944.4	614.9	373.7	246.6	173.5	132.6	110.0	99.0
77.5°	1460.6	1107.7	883.8	635.3	399.3	242.2	171.7	128.6	105.2	91.0	82.9
80°	906.4	692.3	536.3	380.0	239.3	161.1	125.7	102.3	88.4	76.0	69.4
82.5°	546.5	387.6	302.9	229.4	153.1	116.2	96.8	86.2	74.9	63.9	58.8
85°	400.4	277.3	203.1	141.8	94.6	76.7	68.0	65.8	58.1	49.3	46.4
87.5°	126.0	132.3	137.4	83.7	45.7	34.7	29.6	34.7	33.2	23.4	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	608.3	609.8	608.7	608.7	607.9	607.6	610.1	609.4	610.1	609.8	610.5
5°	606.1	607.2	606.5	607.2	606.5	606.5	609.8	609.8	611.2	611.9	613.8
7.5°	606.8	607.2	606.8	607.9	607.2	606.5	608.3	609.4	611.9	614.1	616.0
10°	609.4	610.5	610.1	610.1	607.9	606.5	607.6	608.3	610.8	611.9	614.1
12.5°	615.6	614.1	611.2	609.4	604.3	601.3	599.9	599.2	601.0	602.4	603.5
15°	614.1	606.1	599.5	594.0	586.4	581.6	578.0	577.6	578.0	578.3	579.4
17.5°	599.2	588.2	575.0	568.1	559.3	554.2	551.7	549.8	549.5	550.2	552.0
20°	577.6	561.5	546.9	534.9	525.4	517.3	519.1	515.1	517.0	518.1	521.3
22.5°	544.7	522.4	505.6	491.0	479.7	471.3	471.3	467.6	468.4	471.7	476.0
25°	491.4	470.6	446.4	436.2	423.4	417.6	416.5	415.8	418.7	422.7	425.3
27.5°	443.2	414.7	390.9	377.4	363.9	365.3	358.0	362.4	365.7	369.0	371.9
30°	378.1	354.7	333.2	319.7	303.6	304.0	305.1	305.8	308.7	313.1	318.9
32.5°	315.7	290.4	270.4	255.7	246.2	243.3	239.3	245.9	249.5	253.9	259.8
35°	264.1	237.8	221.0	208.2	202.8	198.7	197.6	196.9	200.2	202.4	207.1
37.5°	227.2	209.3	196.9	187.8	182.7	178.3	177.2	176.5	176.1	175.4	178.3
40°	212.3	198.0	187.4	179.0	174.3	171.7	170.6	169.2	167.7	165.9	165.5
42.5°	207.9	192.5	180.1	171.7	168.1	167.7	167.7	167.0	165.5	162.9	161.1
45°	206.1	187.4	173.2	166.6	164.0	164.4	164.4	164.4	163.3	160.7	157.8
47.5°	202.8	181.2	166.6	161.1	160.0	160.7	161.5	161.5	160.7	158.6	155.3
50°	196.6	171.7	156.4	151.3	150.9	151.3	151.3	152.0	151.3	149.4	146.5
52.5°	191.8	164.4	148.7	144.7	144.7	144.3	143.9	143.9	143.6	142.1	139.9
55°	187.4	159.7	145.4	142.1	142.8	142.8	142.1	141.8	140.3	138.5	136.3
57.5°	181.2	154.5	142.1	139.9	140.7	140.3	139.9	139.6	138.1	135.9	133.0
60°	170.2	145.4	135.5	134.1	135.2	135.5	137.0	137.4	136.6	134.1	130.1
62.5°	158.2	134.1	126.8	125.7	126.8	127.9	129.0	128.2	128.2	125.7	122.0
63°	154.2	132.3	124.2	124.2	125.3	126.4	127.1	126.4	126.8	123.9	120.2
65°	145.0	125.7	119.5	119.8	120.9	121.7	122.0	122.0	121.7	119.5	116.2
67.5°	129.7	116.2	112.5	114.4	115.8	116.2	116.2	116.9	116.2	114.7	111.8
70°	115.8	107.0	104.5	106.7	107.4	107.8	107.8	107.8	107.0	105.6	103.0
72.5°	105.2	100.8	100.5	100.1	100.5	99.4	99.4	98.6	96.8	95.7	93.5
75°	93.5	91.3	91.7	91.3	90.6	90.2	88.4	87.7	85.5	84.0	81.1
77.5°	80.4	80.7	80.4	80.7	81.5	81.8	79.3	77.5	75.6	74.2	72.7
80°	66.9	67.6	66.9	67.6	68.0	68.0	65.4	62.5	61.0	62.1	62.5
82.5°	59.6	59.6	56.6	57.4	56.6	55.5	53.7	52.6	51.5	50.8	52.6
85°	47.1	47.5	48.2	47.5	46.0	44.9	43.1	41.6	40.6	41.6	44.2
87.5°	28.1	30.3	29.2	29.2	28.9	28.9	27.4	26.7	25.6	30.0	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	610.1	611.2	611.6	611.2	611.6	612.3	609.4	612.3	612.7	610.5	611.2
5°	615.2	617.1	619.6	619.6	621.4	622.5	621.1	625.1	625.8	625.5	627.3
7.5°	618.9	621.4	624.7	626.6	629.8	631.3	632.4	636.1	636.8	638.2	639.7
10°	618.5	622.2	625.1	630.2	634.2	637.2	639.3	643.4	644.8	647.0	648.1
12.5°	607.9	611.9	617.4	624.7	632.0	636.8	642.6	648.5	650.7	653.6	655.4
15°	584.2	587.5	595.1	604.6	614.5	626.6	635.0	644.1	648.1	651.0	653.6
17.5°	553.1	556.0	563.0	571.4	584.5	596.2	609.0	622.9	629.8	633.1	634.2
20°	524.3	528.6	530.5	540.3	544.7	556.4	567.4	582.7	591.5	597.3	601.0
22.5°	479.0	481.2	490.7	494.7	498.0	505.3	518.8	532.3	544.0	553.5	556.4
25°	428.9	434.8	439.9	443.2	450.8	451.2	462.2	471.7	486.3	495.4	502.7
27.5°	373.7	382.5	385.4	387.6	393.5	400.4	404.4	413.9	422.3	432.9	446.1
30°	318.2	326.6	332.5	335.7	341.2	347.8	350.7	356.9	367.9	379.6	389.8
32.5°	266.3	275.1	278.0	288.6	290.1	296.3	298.5	308.3	314.6	324.4	336.5
35°	215.6	224.7	233.5	239.3	245.9	245.5	251.4	260.5	266.0	276.2	284.2
37.5°	180.8	186.3	192.5	199.1	206.4	211.9	217.4	221.4	225.8	232.7	240.0
40°	165.5	167.0	169.5	173.5	178.7	182.7	186.7	190.0	193.3	198.7	203.5
42.5°	159.3	158.2	158.2	157.5	159.3	161.5	164.8	165.9	171.0	174.3	176.1
45°	154.9	152.3	150.5	148.3	147.6	148.3	150.2	152.7	156.0	157.1	157.1
47.5°	152.3	148.3	145.4	142.1	140.3	140.3	141.4	143.2	145.0	145.4	145.0
50°	143.6	139.6	135.9	133.0	131.5	131.5	131.9	134.4	134.8	134.1	134.4
52.5°	137.0	133.0	129.3	126.8	124.9	125.3	126.4	127.5	128.6	127.9	127.1
55°	133.0	128.2	124.9	122.0	119.8	120.6	121.7	123.1	124.9	123.9	122.8
57.5°	129.3	125.3	121.3	118.4	115.8	116.5	117.6	119.8	122.0	119.8	118.4
60°	126.0	122.0	118.0	115.1	112.2	112.9	114.4	116.5	118.4	115.4	113.6
62.5°	118.0	114.4	111.4	110.0	108.1	109.2	110.3	112.9	112.2	109.2	107.0
63°	116.5	112.9	110.3	108.9	107.4	108.9	109.2	111.8	110.7	107.8	105.9
65°	112.2	109.2	106.7	105.2	103.8	104.5	104.5	105.6	104.1	101.9	100.5
67.5°	108.1	104.9	102.3	99.4	97.9	97.2	96.8	96.4	95.4	94.3	93.9
70°	99.4	97.2	95.0	92.4	90.2	88.8	88.0	87.3	86.6	86.2	85.9
72.5°	89.9	88.0	85.9	84.4	82.6	81.5	79.6	79.3	78.5	77.8	77.5
75°	79.6	77.5	76.7	75.3	74.2	73.4	72.0	71.6	70.9	69.8	69.4
77.5°	70.5	69.8	68.7	68.3	66.5	65.4	64.7	64.3	63.6	62.8	62.1
80°	62.8	62.5	61.7	61.4	60.3	58.8	58.1	58.5	57.4	57.0	55.9
82.5°	56.6	57.0	57.0	55.9	54.8	53.0	52.2	53.3	52.6	51.1	49.7
85°	48.2	47.9	48.2	47.9	45.7	43.8	43.1	43.8	43.5	41.3	40.9
87.5°	34.3	34.0	33.2	35.4	32.5	26.3	27.0	30.7	29.6	28.5	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	612.7	611.6	612.3	612.7	611.6	614.1	611.6	611.9	612.7	610.5	610.1
5°	628.8	628.8	631.7	632.0	631.7	635.0	634.6	635.0	634.2	633.9	632.4
7.5°	641.9	643.4	645.6	648.8	649.9	652.5	653.2	653.6	655.1	656.5	655.8
10°	651.4	655.4	657.2	660.5	663.8	665.6	667.5	670.4	671.5	672.6	671.1
12.5°	658.0	662.7	665.6	669.7	673.7	676.6	679.9	683.6	687.2	688.3	686.5
15°	654.7	660.2	664.6	668.9	675.1	680.6	686.8	693.4	698.2	700.0	697.8
17.5°	634.2	639.7	646.3	652.9	659.4	669.7	678.4	689.4	697.1	702.5	703.3
20°	606.1	609.4	618.9	625.5	636.1	648.1	661.3	674.1	682.8	692.7	698.5
22.5°	564.5	571.0	581.6	592.9	603.5	619.3	633.1	649.9	664.9	678.4	691.2
25°	513.7	522.8	535.2	550.9	564.8	581.6	601.7	620.3	645.6	666.7	694.1
27.5°	458.9	475.7	492.8	509.3	524.6	543.6	564.5	585.3	614.1	648.1	683.9
30°	407.0	420.9	442.4	461.4	479.3	502.7	524.3	547.3	574.7	614.9	655.4
32.5°	352.9	364.2	381.0	404.4	425.3	452.7	471.7	499.1	530.8	573.2	619.3
35°	297.0	312.7	326.2	342.3	358.0	385.4	413.9	444.3	480.8	526.1	576.5
37.5°	247.7	257.6	264.1	280.6	294.5	317.8	351.1	387.6	427.8	473.8	527.9
40°	206.8	213.0	220.3	231.3	243.0	264.1	294.8	335.7	377.8	423.8	477.9
42.5°	178.7	182.7	183.4	191.8	202.8	223.6	248.1	285.7	332.1	380.3	434.4
45°	159.3	159.3	158.9	162.6	171.3	189.2	211.5	245.1	289.3	339.8	396.0
47.5°	145.8	146.9	146.5	148.0	153.8	167.0	187.1	215.6	255.7	305.1	361.7
50°	135.5	137.0	137.4	137.7	139.9	150.9	168.1	191.1	226.9	274.0	331.0
52.5°	127.5	127.9	127.9	127.5	128.2	134.4	148.7	169.9	203.1	245.5	300.3
55°	123.1	123.5	123.5	123.5	123.5	127.5	137.7	154.9	181.6	221.4	271.1
57.5°	118.0	118.0	118.7	118.7	118.7	120.2	127.5	141.8	162.2	194.0	238.2
60°	113.6	114.7	116.2	116.5	116.2	116.2	119.8	129.3	142.8	165.9	203.1
62.5°	107.0	108.5	110.3	111.1	111.4	110.7	112.5	116.5	124.6	136.6	161.8
63°	105.9	107.4	108.9	109.6	110.0	109.2	110.7	114.0	120.6	130.4	153.1
65°	101.2	103.0	103.4	103.8	103.4	103.0	102.7	102.7	104.5	108.1	120.2
67.5°	94.6	95.7	95.7	96.4	94.6	93.9	93.2	92.4	91.3	91.7	96.1
70°	87.0	87.7	87.3	87.0	86.2	85.1	84.4	83.3	81.1	80.4	82.6
72.5°	78.2	78.9	78.9	78.9	77.5	76.7	76.0	75.3	74.5	75.3	76.0
75°	70.1	70.1	70.9	70.5	69.4	68.7	68.3	68.0	68.0	68.0	67.6
77.5°	62.5	62.1	62.1	61.0	60.3	59.9	60.6	61.0	60.6	59.9	59.6
80°	55.9	54.1	52.2	50.8	50.4	51.1	51.9	54.1	53.0	53.0	52.2
82.5°	47.5	43.5	40.9	41.3	40.2	40.6	41.3	43.8	43.1	43.5	44.9
85°	38.0	34.3	30.3	31.1	31.1	30.3	32.1	32.9	33.6	35.4	34.0
87.5°	26.7	23.4	19.4	16.8	17.5	18.3	19.0	18.3	16.1	16.8	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	609.4	609.8	609.8	607.2	606.5	607.2	606.8	606.8	604.6	605.0	604.3
5°	631.7	632.4	630.2	628.4	625.8	625.5	625.1	623.6	622.2	619.3	617.8
7.5°	655.4	652.1	651.4	648.1	647.0	644.1	641.9	639.7	637.9	636.4	635.3
10°	670.4	667.8	667.1	661.3	659.4	655.8	653.6	651.0	648.8	646.7	646.3
12.5°	683.9	679.5	677.0	668.9	665.3	661.3	659.4	657.2	656.5	656.2	657.6
15°	694.5	688.3	683.6	676.2	673.3	671.1	671.5	670.4	674.8	677.3	682.1
17.5°	701.5	698.9	697.8	692.3	694.1	694.1	699.3	701.8	709.9	716.4	723.0
20°	705.1	709.9	719.0	720.8	725.2	729.9	737.6	742.0	750.4	759.9	769.0
22.5°	708.4	728.5	747.1	761.0	770.9	781.8	787.3	796.4	802.3	809.2	823.1
25°	726.7	760.3	793.2	811.1	834.4	850.1	862.6	871.7	881.9	887.8	903.5
27.5°	721.5	764.3	808.1	841.0	877.5	907.1	933.4	951.0	964.1	985.3	998.5
30°	698.2	747.9	800.8	847.6	898.7	947.0	992.6	1033.5	1068.6	1097.1	1116.5
32.5°	664.9	721.9	784.0	841.7	907.1	971.4	1037.2	1099.7	1159.2	1206.4	1235.9
35°	627.7	689.0	757.7	826.0	904.6	988.6	1077.4	1161.4	1247.6	1322.9	1382.1
37.5°	582.4	648.8	724.1	803.4	893.6	994.5	1106.2	1220.6	1330.6	1444.6	1527.9
40°	534.9	599.9	678.1	768.7	872.8	991.5	1128.5	1276.9	1436.2	1583.0	1709.8
42.5°	494.3	557.9	639.7	729.2	841.4	980.6	1143.5	1327.3	1523.5	1713.8	1882.2
45°	454.5	522.4	605.0	699.6	822.0	976.2	1162.9	1371.1	1595.1	1820.9	2035.7
47.5°	423.1	490.3	573.6	675.1	806.3	973.6	1181.1	1412.0	1653.5	1900.5	2155.1
50°	393.1	457.4	538.5	645.6	789.9	969.6	1192.1	1444.6	1699.2	1963.0	2239.9
52.5°	362.4	429.3	508.2	611.9	768.3	961.6	1195.4	1470.1	1746.3	2022.9	2319.2
55°	331.4	398.2	477.1	584.5	739.1	945.9	1192.8	1488.8	1795.6	2086.1	2391.5
57.5°	293.4	359.1	441.7	549.8	701.5	914.4	1180.4	1496.8	1826.3	2145.3	2464.2
60°	250.6	312.7	390.9	501.2	655.4	869.1	1152.6	1485.5	1840.2	2184.4	2541.3
62.5°	196.9	251.0	323.0	432.6	588.6	803.7	1092.0	1435.4	1806.6	2174.5	2574.6
63°	184.9	237.1	311.3	414.3	568.8	781.1	1074.1	1418.3	1791.6	2165.4	2570.5
65°	141.0	179.7	241.1	333.2	480.8	676.6	979.8	1321.1	1697.4	2074.4	2507.3
67.5°	104.1	124.2	161.8	223.6	338.3	526.5	803.0	1141.0	1497.2	1851.5	2292.1
70°	86.2	93.9	111.4	143.2	209.3	349.3	567.4	868.4	1203.4	1508.5	1906.3
72.5°	77.1	82.6	90.6	104.9	132.3	205.0	369.0	563.7	838.1	1101.9	1438.0
75°	69.0	72.7	79.3	87.7	100.1	128.2	195.1	334.3	512.2	742.4	986.4
77.5°	60.6	64.3	70.9	77.5	85.5	97.5	120.9	190.3	306.5	433.3	605.4
80°	52.6	54.4	59.9	69.4	75.3	85.1	92.8	119.1	167.0	226.9	322.6
82.5°	43.5	43.8	47.5	54.8	62.1	65.8	68.0	74.9	96.1	119.8	158.2
85°	31.1	29.6	31.8	34.7	40.6	37.3	39.8	42.0	51.1	61.7	113.3
87.5°	13.9	11.0	12.8	14.2	12.8	8.8	12.8	10.6	13.2	25.9	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	0°
2.5°	605.0	602.8	602.8	602.4	602.8	602.1	600.6	600.6	601.7	601.3	601.3	2.5°
5°	617.8	614.9	614.1	613.8	613.8	611.9	609.8	608.7	608.3	606.8	605.7	5°
7.5°	634.6	632.8	633.9	631.7	630.9	630.6	627.7	625.5	622.2	620.7	615.2	7.5°
10°	648.5	647.4	650.3	649.9	650.3	650.3	646.3	644.1	639.3	636.8	629.8	10°
12.5°	660.5	661.3	666.7	666.7	667.8	669.3	667.1	662.4	660.5	658.0	650.7	12.5°
15°	691.2	694.1	698.2	704.7	706.6	706.9	708.8	704.7	700.0	693.4	684.6	15°
17.5°	732.9	738.7	752.2	761.7	763.6	765.4	764.3	763.6	754.8	749.3	740.2	17.5°
20°	785.1	799.4	818.4	831.5	837.4	838.1	845.4	840.3	832.2	821.3	808.1	20°
22.5°	843.6	867.3	891.4	910.8	922.1	927.2	934.9	927.6	917.0	910.4	892.9	22.5°
25°	923.6	949.5	977.3	992.6	1021.5	1029.9	1034.3	1032.1	1021.1	1025.9	1009.8	25°
27.5°	1033.2	1055.5	1094.6	1113.9	1141.0	1156.7	1153.4	1171.6	1174.9	1186.3	1188.1	27.5°
30°	1152.6	1189.5	1242.2	1281.2	1322.5	1349.2	1370.4	1386.5	1405.1	1436.5	1455.5	30°
32.5°	1281.6	1335.0	1402.2	1485.1	1572.8	1644.4	1725.1	1739.0	1780.7	1768.6	1760.6	32.5°
35°	1425.2	1492.4	1578.6	1687.5	1815.0	1933.4	2011.2	2050.3	2066.7	2075.9	2020.3	35°
37.5°	1617.4	1708.3	1804.4	1923.2	2020.7	2131.4	2220.9	2318.1	2362.7	2341.5	2235.2	37.5°
40°	1830.4	1915.5	2045.5	2142.7	2257.8	2440.1	2561.4	2678.3	2714.8	2644.3	2477.7	40°
42.5°	2044.1	2161.0	2302.0	2440.1	2572.4	2737.5	2898.2	3013.7	3053.9	2933.3	2735.7	42.5°
45°	2234.4	2384.2	2550.1	2691.8	2876.7	3092.6	3289.5	3382.3	3375.0	3181.4	2958.9	45°
47.5°	2400.3	2594.6	2781.7	2972.8	3159.1	3402.8	3597.9	3704.5	3628.9	3425.4	3173.3	47.5°
50°	2537.3	2772.2	2998.0	3217.6	3446.3	3705.3	3893.4	3992.1	3877.0	3619.4	3337.7	50°
52.5°	2641.4	2932.6	3192.7	3438.2	3711.5	3991.3	4158.7	4218.2	4038.8	3769.6	3460.9	52.5°
55°	2739.7	3068.9	3356.7	3635.5	3975.6	4226.6	4383.4	4372.4	4140.8	3835.0	3538.0	55°
57.5°	2813.8	3185.0	3491.6	3809.0	4175.5	4443.6	4534.2	4461.9	4183.1	3854.3	3560.2	57.5°
60°	2907.4	3275.6	3611.4	3965.8	4365.4	4592.3	4604.4	4474.7	4171.1	3817.8	3528.8	60°
62.5°	2967.3	3332.3	3687.7	4073.2	4510.1	4676.0	4589.8	4419.5	4101.7	3727.6	3456.8	62.5°
63°	2973.1	3337.7	3694.0	4083.8	4530.6	4679.6	4576.3	4394.7	4081.2	3702.7	3437.9	63°
65°	2946.8	3322.0	3665.5	4064.8	4535.7	4636.5	4477.2	4292.7	3968.3	3575.9	3326.1	65°
67.5°	2763.1	3153.3	3481.0	3855.4	4338.4	4394.3	4234.7	4034.1	3729.4	3302.7	3081.6	67.5°
70°	2433.9	2804.7	3037.1	3384.9	3809.8	3876.6	3733.8	3578.5	3307.8	2951.2	2767.8	70°
72.5°	1960.8	2325.0	2464.6	2730.9	3068.5	3053.9	2953.4	2934.0	2791.6	2492.4	2382.0	72.5°
75°	1465.7	1812.5	1871.3	1979.8	2168.3	2163.5	2186.9	2270.2	2341.5	2164.6	2023.3	75°
77.5°	966.7	1311.6	1348.1	1474.5	1526.8	1670.0	1838.0	2047.4	2151.1	2078.8	1905.2	77.5°
80°	534.9	897.3	890.0	939.3	1031.7	1240.0	1494.6	1805.5	2013.0	1961.1	1771.2	80°
82.5°	278.0	567.0	558.6	567.4	653.2	828.2	1021.9	1276.1	1490.6	1495.3	1431.4	82.5°
85°	206.8	407.0	431.1	450.8	507.8	568.8	604.3	685.7	803.4	913.0	952.1	85°
87.5°	76.0	244.4	304.3	327.0	328.4	320.8	261.2	287.5	261.6	309.4	432.2	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
604.3	604.3	604.3	604.3	604.3	604.3	604.3
602.1	602.1	601.7	602.4	602.8	603.9	603.5
604.6	603.5	602.4	601.7	601.0	601.3	600.6
611.2	607.6	604.6	602.1	599.9	599.5	597.3
625.8	619.3	613.8	609.8	605.4	603.2	599.2
644.5	637.2	630.2	624.4	619.3	616.3	613.4
677.0	666.4	658.0	651.8	646.7	643.4	640.4
725.2	712.0	699.3	687.2	685.7	678.1	678.1
791.7	773.8	757.4	747.1	742.4	732.1	732.1
883.8	866.2	841.7	829.3	830.4	821.6	825.7
1002.9	988.2	963.0	957.9	957.9	948.4	934.2
1181.5	1176.4	1148.6	1155.6	1141.0	1105.5	1067.2
1446.7	1446.7	1393.0	1354.3	1320.7	1265.5	1198.0
1712.3	1677.6	1595.4	1529.7	1459.9	1375.5	1288.6
1936.7	1844.2	1760.9	1680.6	1575.7	1485.1	1363.1
2125.9	2038.2	1942.9	1820.5	1697.4	1571.0	1414.2
2360.5	2253.8	2110.6	1956.8	1805.5	1631.6	1450.0
2574.9	2441.2	2260.4	2065.6	1873.1	1679.1	1467.2
2776.6	2604.1	2380.9	2147.1	1927.9	1708.3	1474.5
2966.6	2735.3	2475.5	2205.2	1965.5	1724.0	1472.7
3091.9	2831.4	2535.1	2240.3	1988.2	1729.5	1467.6
3170.4	2890.2	2570.2	2259.6	1999.5	1730.6	1467.2
3214.6	2923.5	2589.2	2273.1	2011.9	1737.2	1476.0
3249.0	2949.8	2610.4	2296.2	2041.5	1767.9	1511.4
3281.5	3018.8	2665.5	2338.5	2093.0	1825.2	1589.2
3295.0	3150.0	2777.7	2416.7	2165.0	1917.3	1710.5
3293.9	3174.8	2810.2	2438.3	2184.0	1941.8	1741.6
3254.1	3253.7	2958.2	2541.3	2272.4	2055.0	1871.3
3136.1	3293.2	3121.8	2677.2	2409.8	2241.7	2066.4
2949.4	3245.3	3144.1	2713.0	2507.3	2413.1	2196.4
2627.9	3016.6	2935.5	2560.3	2474.1	2446.7	2199.7
2125.5	2425.1	2390.4	2187.3	2219.1	2275.3	1964.8
1712.3	1702.9	1697.7	1623.9	1759.1	1873.5	1460.6
1430.3	1178.2	1094.2	1065.7	1288.6	1376.2	906.4
1337.1	1058.4	849.1	813.2	965.6	1012.4	546.5
1021.9	1027.7	889.6	762.5	751.1	687.6	400.4
500.2	508.6	537.4	490.7	420.9	354.7	126.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)