

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: LUMARK

Report Number: P146038

Luminaire Tested: **LDRL-SLR-E03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146038
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: LUMARK
Catalog Number: LDRL-SLR-E03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6819.7 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 75.2
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

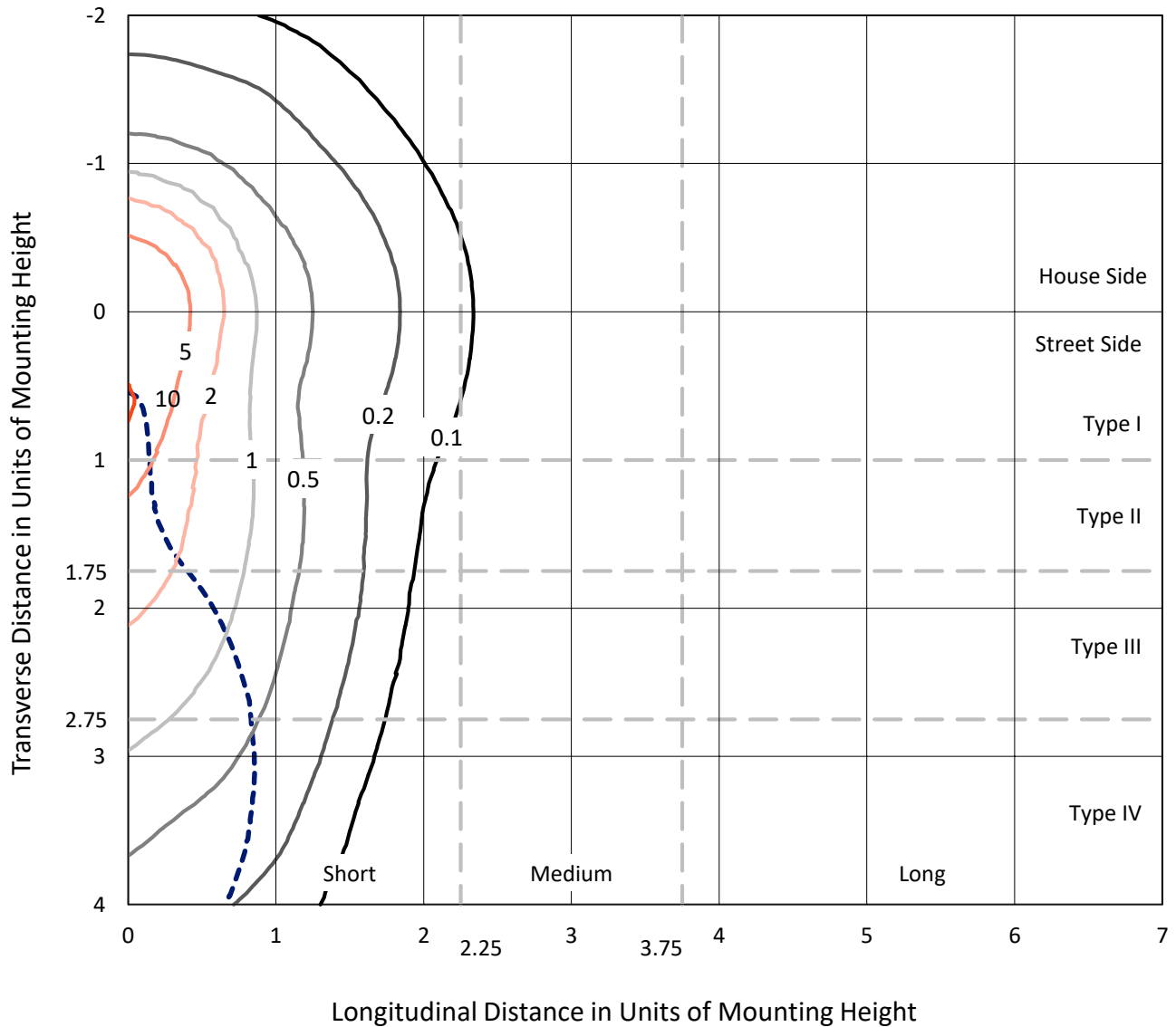


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Iso-Footcandle Lines of Horizontal Illumination

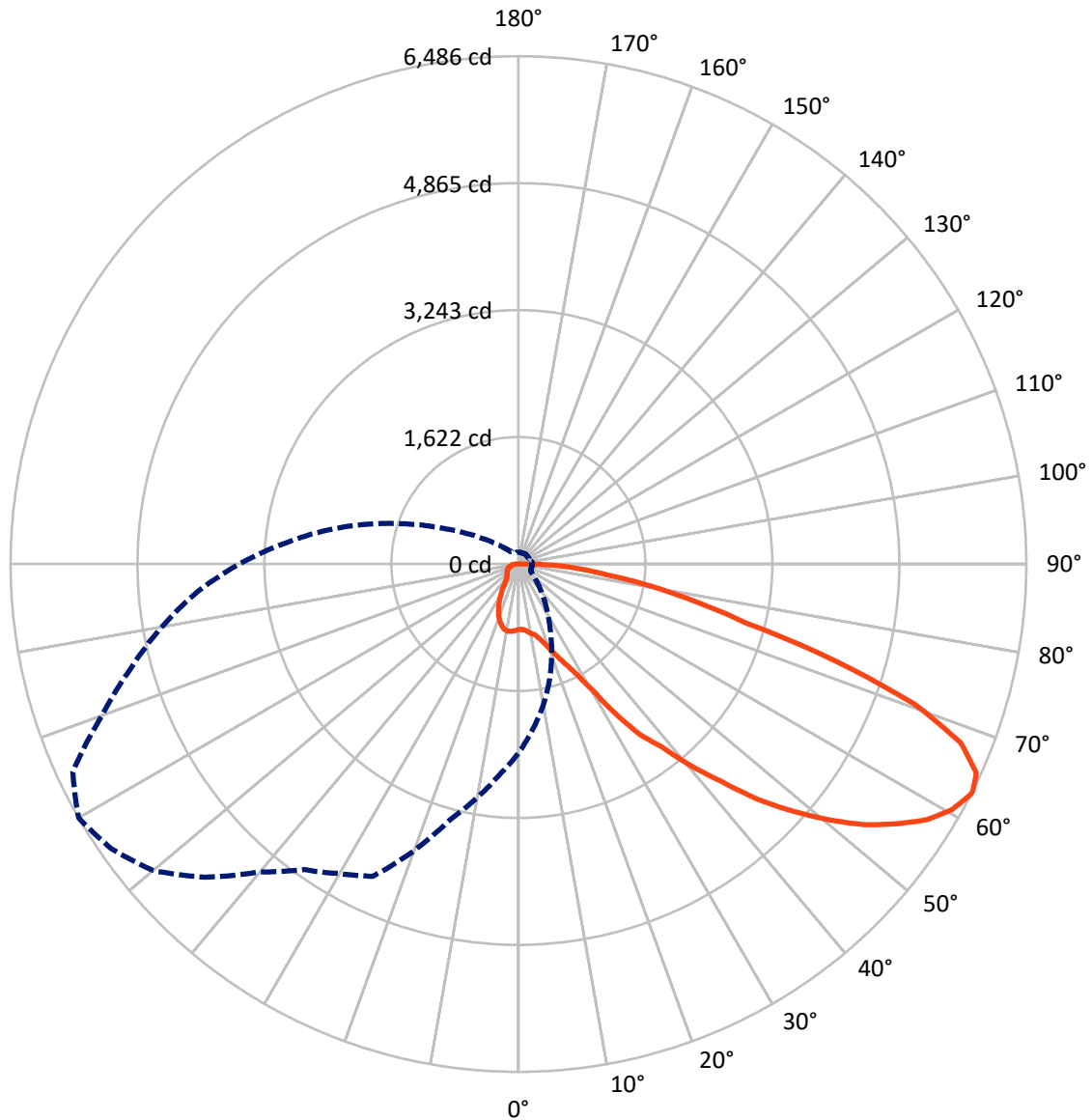
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	1427.6	0.0	1427.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5392.1	0.0	5392.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	6819.7	0.0	6819.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.2
10°-20°	256.7	3.8
20°-30°	454.0	6.7
30°-40°	716.8	10.5
40°-50°	1054.0	15.5
50°-60°	1388.4	20.4
60°-70°	1547.5	22.7
70°-80°	1016.8	14.9
80°-90°	303.2	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°	6819.7	100.0
0°-180°	6819.7	100.0

Coefficient of Utilization



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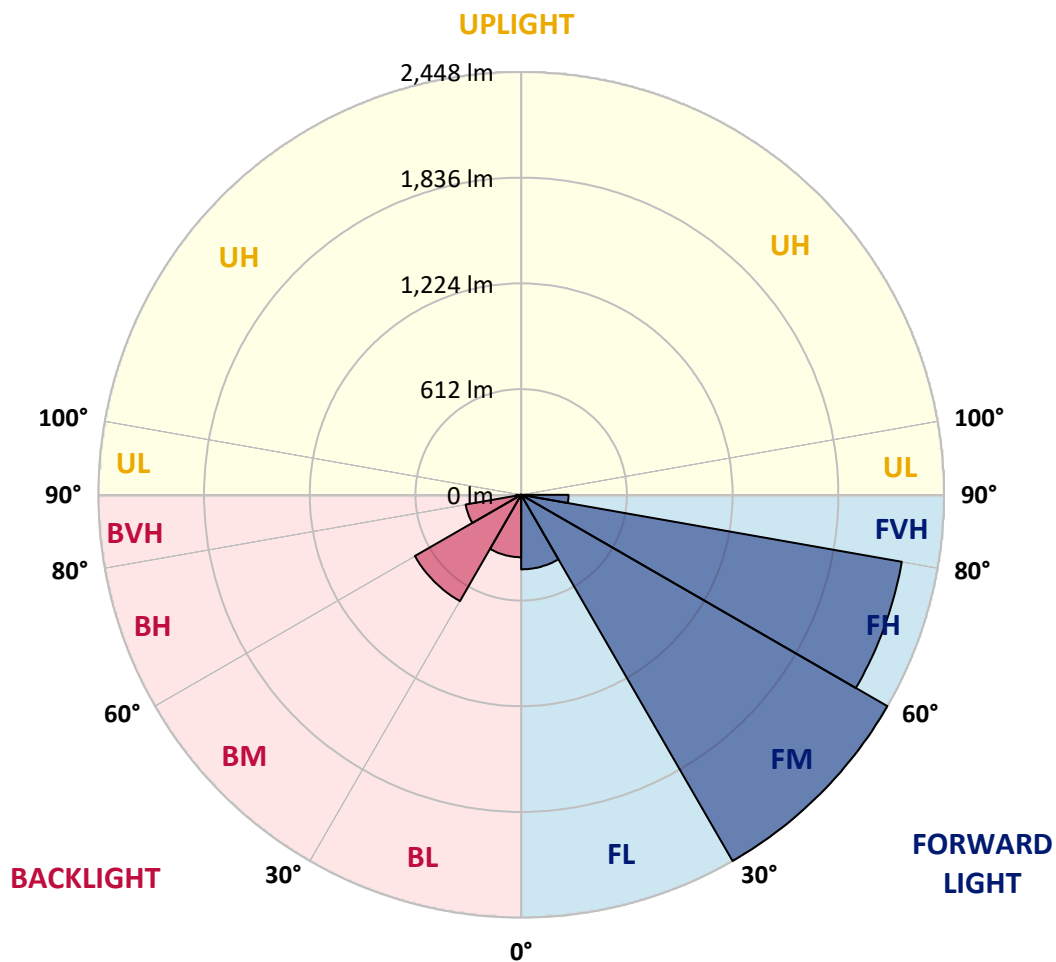
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.6	6.3			
FM	(30°-60°)	2448.5	35.9			
FH	(60°-80°)	2238.0	32.8			G2/5000
FVH	(80°-90°)	274.0	4.0			G3/500
BL	(0°-30°)	361.4	5.3	B1/500		
BM	(30°-60°)	710.7	10.4	B1/1000		
BH	(60°-80°)	326.3	4.8	B1/500		G1/500
BVH	(80°-90°)	29.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	836.6	838.1	838.1	836.6	838.1	837.6	837.6	839.1	839.6	842.1	840.6
5°	832.5	833.0	833.5	832.5	833.0	833.0	834.0	835.6	836.1	839.1	837.6
7.5°	828.0	829.0	826.9	827.4	829.0	831.0	831.0	833.0	836.6	838.1	837.6
10°	830.5	829.5	828.0	827.4	828.5	829.0	830.0	833.5	836.6	838.1	840.6
12.5°	850.2	847.2	845.7	845.2	845.7	844.7	848.2	849.2	850.2	852.3	851.2
15°	887.7	883.7	881.1	878.6	884.2	881.6	881.6	878.6	873.5	865.9	856.3
17.5°	939.9	935.3	933.3	932.3	932.8	928.2	919.1	904.4	886.7	866.4	847.7
20°	1014.8	1021.9	1018.9	1005.2	1000.1	979.9	951.0	920.6	889.7	857.3	826.4
22.5°	1144.5	1140.4	1126.7	1092.8	1062.4	1016.8	965.2	916.1	870.5	823.4	782.9
25°	1294.9	1260.9	1222.4	1155.6	1085.7	1010.8	936.3	878.1	817.3	765.7	717.1
27.5°	1479.2	1405.8	1307.5	1198.6	1094.3	994.6	906.4	829.5	760.1	704.9	650.7
30°	1660.5	1537.9	1401.2	1256.9	1116.1	981.4	864.9	775.8	695.8	624.9	570.2
32.5°	1786.1	1637.7	1467.5	1289.3	1118.1	960.1	819.3	713.0	622.9	551.5	485.6
35°	1889.4	1704.0	1490.8	1284.2	1085.7	910.5	754.0	636.0	540.3	466.4	408.7
37.5°	1960.3	1737.9	1489.3	1254.8	1028.0	831.5	679.1	559.1	469.9	401.1	347.9
40°	2009.9	1748.6	1469.6	1204.7	961.6	755.0	599.1	489.7	411.7	358.0	319.5
42.5°	2033.7	1741.5	1440.2	1157.1	895.8	693.3	538.8	443.1	379.8	339.3	310.9
45°	2043.8	1724.3	1407.3	1110.5	842.1	640.1	507.9	428.9	379.3	344.3	313.5
47.5°	2041.3	1705.5	1377.9	1072.0	810.2	625.9	514.0	448.2	398.0	354.5	315.0
50°	2034.2	1688.3	1359.2	1057.9	809.7	647.2	547.9	480.6	419.8	363.6	313.5
52.5°	2033.7	1686.8	1369.3	1074.6	839.1	695.3	599.1	518.0	441.1	373.7	314.0
55°	2045.8	1714.1	1412.3	1119.6	910.0	762.6	656.8	558.0	464.9	380.8	312.4
57.5°	2095.0	1782.5	1493.9	1220.4	1001.1	844.7	712.5	587.9	474.0	378.8	305.4
60°	2202.8	1902.5	1619.4	1362.7	1118.1	919.6	745.4	598.1	469.9	366.6	290.2
62.5°	2370.9	2076.2	1791.6	1502.5	1221.9	964.7	753.0	589.9	453.7	346.4	271.4
63°	2414.0	2116.2	1826.6	1531.3	1239.7	969.2	752.5	586.9	449.2	341.3	266.9
65°	2593.8	2287.9	1966.8	1626.5	1287.3	978.4	740.9	567.7	428.9	317.5	246.1
67.5°	2864.2	2477.3	2106.1	1715.2	1313.6	962.1	704.4	520.1	376.8	276.0	215.2
70°	3044.4	2602.9	2189.1	1744.0	1282.7	888.2	620.8	436.0	307.9	227.4	183.8
72.5°	3049.0	2490.4	2076.7	1594.1	1107.5	732.8	486.1	329.7	239.5	184.8	158.5
75°	2723.4	2104.6	1697.4	1309.0	852.3	518.0	341.8	240.5	183.8	152.4	137.2
77.5°	2024.6	1535.4	1225.0	880.6	553.5	335.7	238.0	178.3	145.8	126.1	115.0
80°	1256.4	959.6	743.4	526.7	331.7	223.3	174.2	141.8	122.5	105.3	96.2
82.5°	757.6	537.3	419.8	318.0	212.2	161.0	134.2	119.5	103.8	88.6	81.5
85°	555.0	384.4	281.6	196.5	131.2	106.3	94.2	91.2	80.5	68.4	64.3
87.5°	174.7	183.3	190.4	116.0	63.3	48.1	41.0	48.1	46.1	32.4	35.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	843.1	845.2	843.7	843.7	842.6	842.1	845.7	844.7	845.7	845.2	846.2
5°	840.1	841.6	840.6	841.6	840.6	840.6	845.2	845.2	847.2	848.2	850.7
7.5°	841.1	841.6	841.1	842.6	841.6	840.6	843.1	844.7	848.2	851.2	853.8
10°	844.7	846.2	845.7	845.7	842.6	840.6	842.1	843.1	846.7	848.2	851.2
12.5°	853.3	851.2	847.2	844.7	837.6	833.5	831.5	830.5	833.0	835.0	836.6
15°	851.2	840.1	831.0	823.4	812.8	806.2	801.1	800.6	801.1	801.6	803.1
17.5°	830.5	815.3	797.1	787.4	775.3	768.2	764.7	762.1	761.6	762.6	765.2
20°	800.6	778.3	758.1	741.4	728.2	717.1	719.6	714.0	716.5	718.1	722.6
22.5°	755.0	724.1	700.9	680.6	664.9	653.2	653.2	648.2	649.2	653.8	659.8
25°	681.1	652.2	618.8	604.6	586.9	578.8	577.3	576.3	580.3	585.9	589.4
27.5°	614.3	574.8	541.8	523.1	504.4	506.4	496.3	502.3	506.9	511.5	515.5
30°	524.1	491.7	461.8	443.1	420.8	421.3	422.8	423.9	427.9	434.0	442.1
32.5°	437.5	402.6	374.7	354.5	341.3	337.3	331.7	340.8	345.9	351.9	360.0
35°	366.1	329.7	306.4	288.6	281.0	275.5	274.0	272.9	277.5	280.5	287.1
37.5°	315.0	290.2	272.9	260.3	253.2	247.1	245.6	244.6	244.1	243.1	247.1
40°	294.2	274.5	259.8	248.1	241.6	238.0	236.5	234.5	232.4	229.9	229.4
42.5°	288.1	266.9	249.7	238.0	232.9	232.4	232.4	231.4	229.4	225.9	223.3
45°	285.6	259.8	240.0	230.9	227.4	227.9	227.9	227.9	226.4	222.8	218.8
47.5°	281.0	251.2	230.9	223.3	221.8	222.8	223.8	223.8	222.8	219.8	215.2
50°	272.4	238.0	216.7	209.6	209.1	209.6	209.6	210.7	209.6	207.1	203.1
52.5°	265.9	227.9	206.1	200.5	200.5	200.0	199.5	199.5	199.0	197.0	193.9
55°	259.8	221.3	201.5	197.0	198.0	198.0	197.0	196.5	194.5	191.9	188.9
57.5°	251.2	214.2	197.0	193.9	195.0	194.5	193.9	193.4	191.4	188.4	184.3
60°	236.0	201.5	187.9	185.8	187.4	187.9	189.9	190.4	189.4	185.8	180.3
62.5°	219.3	185.8	175.7	174.2	175.7	177.2	178.8	177.7	177.7	174.2	169.1
63°	213.7	183.3	172.2	172.2	173.7	175.2	176.2	175.2	175.7	171.7	166.6
65°	201.0	174.2	165.6	166.1	167.6	168.6	169.1	169.1	168.6	165.6	161.0
67.5°	179.8	161.0	156.0	158.5	160.5	161.0	161.0	162.0	161.0	159.0	155.0
70°	160.5	148.4	144.8	147.9	148.9	149.4	149.4	149.4	148.4	146.3	142.8
72.5°	145.8	139.8	139.3	138.8	139.3	137.7	137.7	136.7	134.2	132.7	129.6
75°	129.6	126.6	127.1	126.6	125.6	125.1	122.5	121.5	118.5	116.5	112.4
77.5°	111.4	111.9	111.4	111.9	112.9	113.4	109.9	107.4	104.8	102.8	100.8
80°	92.7	93.7	92.7	93.7	94.2	94.2	90.6	86.6	84.6	86.1	86.6
82.5°	82.5	82.5	78.5	79.5	78.5	77.0	74.4	72.9	71.4	70.4	72.9
85°	65.3	65.8	66.8	65.8	63.8	62.3	59.8	57.7	56.2	57.7	61.3
87.5°	39.0	42.0	40.5	40.5	40.0	40.0	38.0	37.0	35.4	41.5	44.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	845.7	847.2	847.7	847.2	847.7	848.7	844.7	848.7	849.2	846.2	847.2
5°	852.8	855.3	858.8	858.8	861.4	862.9	860.9	866.4	867.5	866.9	869.5
7.5°	857.8	861.4	865.9	868.5	873.0	875.0	876.6	881.6	882.6	884.7	886.7
10°	857.3	862.4	866.4	873.5	879.1	883.2	886.2	891.8	893.8	896.8	898.3
12.5°	842.6	848.2	855.8	865.9	876.1	882.6	890.7	898.9	901.9	905.9	908.5
15°	809.7	814.3	824.9	838.1	851.8	868.5	880.1	892.8	898.3	902.4	905.9
17.5°	766.7	770.7	780.4	792.0	810.2	826.4	844.2	863.4	873.0	877.6	879.1
20°	726.7	732.8	735.3	749.0	755.0	771.2	786.4	807.7	819.9	828.0	833.0
22.5°	663.9	666.9	680.1	685.7	690.2	700.3	719.1	737.8	754.0	767.2	771.2
25°	594.5	602.6	609.7	614.3	624.9	625.4	640.6	653.8	674.0	686.7	696.8
27.5°	518.0	530.2	534.2	537.3	545.4	555.0	560.6	573.7	585.4	600.1	618.3
30°	441.1	452.7	460.8	465.4	473.0	482.1	486.1	494.7	509.9	526.1	540.3
32.5°	369.2	381.3	385.4	400.1	402.1	410.7	413.7	427.4	436.0	449.7	466.4
35°	298.8	311.4	323.6	331.7	340.8	340.3	348.4	361.1	368.7	382.8	394.0
37.5°	250.7	258.3	266.9	276.0	286.1	293.7	301.3	306.9	313.0	322.6	332.7
40°	229.4	231.4	235.0	240.5	247.6	253.2	258.8	263.3	267.9	275.5	282.1
42.5°	220.8	219.3	219.3	218.3	220.8	223.8	228.4	229.9	237.0	241.6	244.1
45°	214.7	211.2	208.6	205.6	204.6	205.6	208.1	211.7	216.2	217.7	217.7
47.5°	211.2	205.6	201.5	197.0	194.5	194.5	196.0	198.5	201.0	201.5	201.0
50°	199.0	193.4	188.4	184.3	182.3	182.3	182.8	186.4	186.9	185.8	186.4
52.5°	189.9	184.3	179.3	175.7	173.2	173.7	175.2	176.7	178.3	177.2	176.2
55°	184.3	177.7	173.2	169.1	166.1	167.1	168.6	170.7	173.2	171.7	170.1
57.5°	179.3	173.7	168.1	164.1	160.5	161.5	163.1	166.1	169.1	166.1	164.1
60°	174.7	169.1	163.6	159.5	155.5	156.5	158.5	161.5	164.1	160.0	157.5
62.5°	163.6	158.5	154.5	152.4	149.9	151.4	152.9	156.5	155.5	151.4	148.4
63°	161.5	156.5	152.9	150.9	148.9	150.9	151.4	155.0	153.4	149.4	146.9
65°	155.5	151.4	147.9	145.8	143.8	144.8	144.8	146.3	144.3	141.3	139.3
67.5°	149.9	145.3	141.8	137.7	135.7	134.7	134.2	133.7	132.2	130.6	130.1
70°	137.7	134.7	131.7	128.1	125.1	123.1	122.0	121.0	120.0	119.5	119.0
72.5°	124.6	122.0	119.0	117.0	114.4	112.9	110.4	109.9	108.9	107.9	107.4
75°	110.4	107.4	106.3	104.3	102.8	101.8	99.8	99.3	98.2	96.7	96.2
77.5°	97.7	96.7	95.2	94.7	92.2	90.6	89.6	89.1	88.1	87.1	86.1
80°	87.1	86.6	85.6	85.1	83.6	81.5	80.5	81.0	79.5	79.0	77.5
82.5°	78.5	79.0	79.0	77.5	76.0	73.4	72.4	73.9	72.9	70.9	68.9
85°	66.8	66.3	66.8	66.3	63.3	60.8	59.8	60.8	60.3	57.2	56.7
87.5°	47.6	47.1	46.1	49.1	45.1	36.5	37.5	42.5	41.0	39.5	38.5
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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	849.2	847.7	848.7	849.2	847.7	851.2	847.7	848.2	849.2	846.2	845.7
5°	871.5	871.5	875.6	876.1	875.6	880.1	879.6	880.1	879.1	878.6	876.6
7.5°	889.7	891.8	894.8	899.4	900.9	904.4	905.4	905.9	908.0	910.0	909.0
10°	902.9	908.5	911.0	915.6	920.1	922.7	925.2	929.2	930.8	932.3	930.2
12.5°	912.0	918.6	922.7	928.2	933.8	937.8	942.4	947.5	952.5	954.0	951.5
15°	907.5	915.1	921.1	927.2	935.8	943.4	952.0	961.1	967.7	970.3	967.2
17.5°	879.1	886.7	895.8	904.9	914.0	928.2	940.4	955.6	966.2	973.8	974.8
20°	840.1	844.7	857.8	866.9	881.6	898.3	916.6	934.3	946.5	960.1	968.2
22.5°	782.4	791.5	806.2	821.9	836.6	858.3	877.6	900.9	921.6	940.4	958.1
25°	712.0	724.7	741.9	763.6	782.9	806.2	834.0	859.9	894.8	924.2	962.1
27.5°	636.0	659.3	683.1	705.9	727.2	753.5	782.4	811.2	851.2	898.3	948.0
30°	564.1	583.4	613.2	639.6	664.4	696.8	726.7	758.6	796.6	852.3	908.5
32.5°	489.2	504.9	528.2	560.6	589.4	627.4	653.8	691.7	735.8	794.5	858.3
35°	411.7	433.5	452.2	474.5	496.3	534.2	573.7	615.8	666.4	729.2	799.1
37.5°	343.3	357.0	366.1	388.9	408.2	440.6	486.6	537.3	593.0	656.8	731.7
40°	286.6	295.2	305.4	320.5	336.8	366.1	408.7	465.4	523.6	587.4	662.4
42.5°	247.6	253.2	254.2	265.9	281.0	309.9	343.8	396.0	460.3	527.2	602.1
45°	220.8	220.8	220.3	225.3	237.5	262.3	293.2	339.8	401.1	470.9	548.9
47.5°	202.1	203.6	203.1	205.1	213.2	231.4	259.3	298.8	354.5	422.8	501.3
50°	187.9	189.9	190.4	190.9	193.9	209.1	232.9	264.8	314.5	379.8	458.8
52.5°	176.7	177.2	177.2	176.7	177.7	186.4	206.1	235.5	281.6	340.3	416.3
55°	170.7	171.2	171.2	171.2	171.2	176.7	190.9	214.7	251.7	306.9	375.7
57.5°	163.6	163.6	164.6	164.6	164.6	166.6	176.7	196.5	224.8	268.9	330.2
60°	157.5	159.0	161.0	161.5	161.0	161.0	166.1	179.3	198.0	229.9	281.6
62.5°	148.4	150.4	152.9	153.9	154.5	153.4	156.0	161.5	172.7	189.4	224.3
63°	146.9	148.9	150.9	151.9	152.4	151.4	153.4	158.0	167.1	180.8	212.2
65°	140.3	142.8	143.3	143.8	143.3	142.8	142.3	142.3	144.8	149.9	166.6
67.5°	131.2	132.7	132.7	133.7	131.2	130.1	129.1	128.1	126.6	127.1	133.2
70°	120.5	121.5	121.0	120.5	119.5	118.0	117.0	115.5	112.4	111.4	114.4
72.5°	108.4	109.4	109.4	109.4	107.4	106.3	105.3	104.3	103.3	104.3	105.3
75°	97.2	97.2	98.2	97.7	96.2	95.2	94.7	94.2	94.2	94.2	93.7
77.5°	86.6	86.1	86.1	84.6	83.6	83.0	84.1	84.6	84.1	83.0	82.5
80°	77.5	74.9	72.4	70.4	69.9	70.9	71.9	74.9	73.4	73.4	72.4
82.5°	65.8	60.3	56.7	57.2	55.7	56.2	57.2	60.8	59.8	60.3	62.3
85°	52.7	47.6	42.0	43.0	43.0	42.0	44.6	45.6	46.6	49.1	47.1
87.5°	37.0	32.4	26.8	23.3	24.3	25.3	26.3	25.3	22.3	23.3	22.8
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	844.7	845.2	845.2	841.6	840.6	841.6	841.1	841.1	838.1	838.6	837.6
5°	875.6	876.6	873.5	871.0	867.5	866.9	866.4	864.4	862.4	858.3	856.3
7.5°	908.5	903.9	902.9	898.3	896.8	892.8	889.7	886.7	884.2	882.1	880.6
10°	929.2	925.7	924.7	916.6	914.0	909.0	905.9	902.4	899.4	896.3	895.8
12.5°	948.0	941.9	938.3	927.2	922.1	916.6	914.0	911.0	910.0	909.5	911.5
15°	962.7	954.0	947.5	937.3	933.3	930.2	930.8	929.2	935.3	938.9	945.4
17.5°	972.3	968.7	967.2	959.6	962.1	962.1	969.2	972.8	983.9	993.0	1002.2
20°	977.3	983.9	996.6	999.1	1005.2	1011.8	1022.4	1028.5	1040.1	1053.3	1066.0
22.5°	981.9	1009.8	1035.6	1054.8	1068.5	1083.7	1091.3	1103.9	1112.0	1121.7	1140.9
25°	1007.2	1053.8	1099.4	1124.2	1156.6	1178.4	1195.6	1208.3	1222.4	1230.5	1252.3
27.5°	1000.1	1059.4	1120.1	1165.7	1216.4	1257.4	1293.8	1318.1	1336.4	1365.7	1384.0
30°	967.7	1036.6	1110.0	1174.8	1245.7	1312.6	1375.9	1432.6	1481.2	1520.7	1547.5
32.5°	921.6	1000.6	1086.7	1166.7	1257.4	1346.5	1437.7	1524.2	1606.8	1672.1	1713.1
35°	870.0	955.1	1050.3	1145.0	1253.8	1370.3	1493.4	1609.8	1729.3	1833.7	1915.7
37.5°	807.2	899.4	1003.7	1113.6	1238.6	1378.4	1533.4	1691.9	1844.3	2002.3	2117.7
40°	741.4	831.5	939.9	1065.5	1209.8	1374.4	1564.3	1769.8	1990.6	2194.2	2369.9
42.5°	685.2	773.3	886.7	1010.8	1166.2	1359.2	1585.0	1839.7	2111.7	2375.5	2608.9
45°	630.0	724.1	838.6	969.7	1139.4	1353.1	1611.9	1900.5	2210.9	2523.9	2821.6
47.5°	586.4	679.6	795.0	935.8	1117.6	1349.5	1637.2	1957.2	2291.9	2634.3	2987.2
50°	544.9	634.0	746.4	894.8	1094.8	1344.0	1652.4	2002.3	2355.2	2720.9	3104.7
52.5°	502.3	595.0	704.4	848.2	1064.9	1332.8	1656.9	2037.7	2420.6	2803.9	3214.6
55°	459.3	552.0	661.4	810.2	1024.4	1311.1	1653.4	2063.6	2488.9	2891.5	3314.9
57.5°	406.6	497.8	612.2	762.1	972.3	1267.5	1636.2	2074.7	2531.5	2973.5	3415.6
60°	347.4	433.5	541.8	694.8	908.5	1204.7	1597.7	2059.0	2550.7	3027.7	3522.5
62.5°	272.9	347.9	447.7	599.6	815.8	1114.1	1513.6	1989.6	2504.1	3014.1	3568.6
63°	256.2	328.7	431.4	574.3	788.5	1082.7	1488.8	1965.8	2483.4	3001.4	3563.0
65°	195.5	249.1	334.2	461.8	666.4	937.8	1358.2	1831.1	2352.7	2875.3	3475.4
67.5°	144.3	172.2	224.3	309.9	468.9	729.7	1113.1	1581.5	2075.2	2566.4	3177.1
70°	119.5	130.1	154.5	198.5	290.2	484.1	786.4	1203.7	1668.1	2090.9	2642.4
72.5°	106.8	114.4	125.6	145.3	183.3	284.1	511.5	781.4	1161.7	1527.3	1993.2
75°	95.7	100.8	109.9	121.5	138.8	177.7	270.4	463.4	710.0	1029.0	1367.3
77.5°	84.1	89.1	98.2	107.4	118.5	135.2	167.6	263.8	424.9	600.6	839.1
80°	72.9	75.5	83.0	96.2	104.3	118.0	128.6	165.1	231.4	314.5	447.1
82.5°	60.3	60.8	65.8	76.0	86.1	91.2	94.2	103.8	133.2	166.1	219.3
85°	43.0	41.0	44.1	48.1	56.2	51.7	55.2	58.2	70.9	85.6	157.0
87.5°	19.2	15.2	17.7	19.7	17.7	12.2	17.7	14.7	18.2	36.0	40.5
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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	0°
2.5°	838.6	835.6	835.6	835.0	835.6	834.5	832.5	832.5	834.0	833.5	833.5	2.5°
5°	856.3	852.3	851.2	850.7	850.7	848.2	845.2	843.7	843.1	841.1	839.6	5°
7.5°	879.6	877.1	878.6	875.6	874.5	874.0	870.0	866.9	862.4	860.4	852.8	7.5°
10°	898.9	897.3	901.4	900.9	901.4	901.4	895.8	892.8	886.2	882.6	873.0	10°
12.5°	915.6	916.6	924.2	924.2	925.7	927.7	924.7	918.1	915.6	912.0	901.9	12.5°
15°	958.1	962.1	967.7	976.8	979.4	979.9	982.4	976.8	970.3	961.1	949.0	15°
17.5°	1015.8	1023.9	1042.7	1055.8	1058.4	1060.9	1059.4	1058.4	1046.2	1038.6	1026.0	17.5°
20°	1088.2	1108.0	1134.3	1152.6	1160.7	1161.7	1171.8	1164.7	1153.6	1138.4	1120.1	20°
22.5°	1169.3	1202.2	1235.6	1262.4	1278.1	1285.2	1295.9	1285.7	1271.1	1261.9	1237.6	22.5°
25°	1280.2	1316.1	1354.6	1375.9	1415.9	1427.5	1433.6	1430.6	1415.4	1422.0	1399.7	25°
27.5°	1432.1	1463.0	1517.2	1544.0	1581.5	1603.2	1598.7	1624.0	1628.6	1644.3	1646.8	27.5°
30°	1597.7	1648.8	1721.7	1775.9	1833.1	1870.1	1899.5	1921.8	1947.6	1991.1	2017.5	30°
32.5°	1776.4	1850.4	1943.5	2058.5	2180.0	2279.3	2391.2	2410.4	2468.2	2451.5	2440.3	32.5°
35°	1975.4	2068.6	2188.1	2339.0	2515.8	2679.8	2787.7	2841.9	2864.7	2877.3	2800.4	35°
37.5°	2241.8	2367.9	2501.1	2665.7	2800.9	2954.3	3078.4	3213.1	3274.9	3245.5	3098.1	37.5°
40°	2537.0	2655.0	2835.3	2970.0	3129.5	3382.2	3550.3	3712.4	3763.0	3665.3	3434.4	40°
42.5°	2833.3	2995.3	3190.8	3382.2	3565.5	3794.4	4017.2	4177.2	4233.0	4065.8	3791.9	42.5°
45°	3097.1	3304.7	3534.6	3731.1	3987.4	4286.6	4559.6	4688.2	4678.1	4409.7	4101.3	45°
47.5°	3327.0	3596.4	3855.7	4120.5	4378.8	4716.6	4987.0	5134.8	5030.0	4748.0	4398.5	47.5°
50°	3516.9	3842.5	4155.5	4459.8	4776.8	5135.9	5396.6	5533.4	5373.9	5016.9	4626.4	50°
52.5°	3661.2	4064.8	4425.4	4765.7	5144.5	5532.4	5764.3	5846.8	5598.2	5225.0	4797.1	52.5°
55°	3797.5	4253.7	4652.8	5039.1	5510.6	5858.5	6075.7	6060.5	5739.5	5315.6	4903.9	55°
57.5°	3900.3	4414.7	4839.6	5279.7	5787.6	6159.3	6284.9	6184.6	5798.2	5342.5	4934.8	57.5°
60°	4029.9	4540.3	5005.7	5496.9	6050.9	6365.4	6382.1	6202.3	5781.5	5291.8	4891.3	60°
62.5°	4112.9	4618.8	5111.5	5645.8	6251.4	6481.3	6361.8	6125.9	5685.3	5166.7	4791.5	62.5°
63°	4121.0	4626.4	5120.2	5660.5	6279.8	6486.4	6343.1	6091.4	5656.9	5132.3	4765.2	63°
65°	4084.6	4604.6	5080.7	5634.1	6286.9	6426.7	6205.9	5950.1	5500.5	4956.6	4610.2	65°
67.5°	3829.9	4370.7	4824.9	5344.0	6013.4	6090.9	5869.6	5591.6	5169.3	4577.8	4271.4	67.5°
70°	3373.6	3887.6	4209.7	4691.7	5280.7	5373.4	5175.4	4960.1	4584.9	4090.7	3836.4	70°
72.5°	2717.8	3222.7	3416.1	3785.3	4253.2	4233.0	4093.7	4066.9	3869.4	3454.6	3301.7	72.5°
75°	2031.7	2512.2	2593.8	2744.2	3005.5	2998.9	3031.3	3146.7	3245.5	3000.4	2804.4	75°
77.5°	1339.9	1818.0	1868.6	2043.8	2116.2	2314.7	2547.7	2837.8	2981.7	2881.4	2640.8	77.5°
80°	741.4	1243.7	1233.6	1301.9	1430.1	1718.7	2071.7	2502.6	2790.2	2718.3	2455.0	80°
82.5°	385.4	785.9	774.3	786.4	905.4	1148.0	1416.4	1768.8	2066.1	2072.7	1984.1	82.5°
85°	286.6	564.1	597.5	624.9	703.9	788.5	837.6	950.5	1113.6	1265.5	1319.7	85°
87.5°	105.3	338.8	421.8	453.2	455.2	444.6	362.1	398.5	362.6	428.9	599.1	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°
837.6	837.6	837.6	837.6	837.6	837.6	837.6
834.5	834.5	834.0	835.0	835.6	837.1	836.6
838.1	836.6	835.0	834.0	833.0	833.5	832.5
847.2	842.1	838.1	834.5	831.5	831.0	828.0
867.5	858.3	850.7	845.2	839.1	836.1	830.5
893.3	883.2	873.5	865.4	858.3	854.3	850.2
938.3	923.7	912.0	903.4	896.3	891.8	887.7
1005.2	987.0	969.2	952.5	950.5	939.9	939.9
1097.4	1072.5	1049.8	1035.6	1029.0	1014.8	1014.8
1225.0	1200.7	1166.7	1149.5	1151.0	1138.9	1144.5
1390.1	1369.8	1334.9	1327.8	1327.8	1314.6	1294.9
1637.7	1630.6	1592.1	1601.7	1581.5	1532.3	1479.2
2005.3	2005.3	1930.9	1877.2	1830.6	1754.2	1660.5
2373.5	2325.4	2211.4	2120.3	2023.6	1906.6	1786.1
2684.4	2556.3	2440.8	2329.4	2184.1	2058.5	1889.4
2946.7	2825.2	2693.0	2523.4	2352.7	2177.5	1960.3
3271.8	3123.9	2925.4	2712.2	2502.6	2261.6	2009.9
3569.1	3383.7	3133.1	2863.2	2596.3	2327.4	2033.7
3848.6	3609.6	3300.2	2976.1	2672.2	2367.9	2043.8
4111.9	3791.4	3431.3	3056.6	2724.4	2389.7	2041.3
4285.6	3924.6	3513.9	3105.2	2755.8	2397.3	2034.2
4394.5	4006.1	3562.5	3132.1	2771.5	2398.8	2033.7
4455.8	4052.2	3588.8	3150.8	2788.7	2407.9	2045.8
4503.4	4088.6	3618.2	3182.7	2829.7	2450.4	2095.0
4548.4	4184.3	3694.7	3241.4	2901.1	2529.9	2202.8
4567.2	4366.1	3850.1	3349.8	3000.9	2657.6	2370.9
4565.7	4400.6	3895.2	3379.7	3027.2	2691.5	2414.0
4510.5	4509.9	4100.3	3522.5	3149.8	2848.5	2593.8
4346.9	4564.6	4327.1	3710.9	3340.2	3107.2	2864.2
4088.1	4498.3	4358.0	3760.5	3475.4	3344.7	3044.4
3642.5	4181.3	4068.9	3548.8	3429.3	3391.3	3049.0
2946.2	3361.4	3313.3	3031.8	3075.8	3153.8	2723.4
2373.5	2360.3	2353.2	2250.9	2438.3	2596.8	2024.6
1982.5	1633.1	1516.7	1477.2	1786.1	1907.6	1256.4
1853.4	1467.0	1176.9	1127.2	1338.4	1403.2	757.6
1416.4	1424.5	1233.1	1056.8	1041.1	953.0	555.0
693.3	704.9	744.9	680.1	583.4	491.7	174.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)